Idaho National Laboratory Cultural Resource Monitoring Report for FY 2009

October 2009



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INL Cultural Resource Management Office

October 2009

Idaho National Laboratory
Environmental Stewardship and Water Management
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ABSTRACT

This report describes the cultural resource monitoring activities of the Idaho National Laboratory's (INL) Cultural Resource Management (CRM) Office during fiscal year 2009 (FY 2009). Throughout the year, thirty-eight cultural resource localities were revisited including: two locations with Native American human remains, one of which is a cave, two additional caves, twenty-two prehistoric archaeological sites, six historic homesteads, two historic stage stations, two historic trails, and two nuclear resources, including Experimental Breeder Reactor-I, which is a designated National Historic Landmark. Several INL project areas were also monitored in FY 2009 to assess project compliance with cultural resource recommendations and monitor the effects of ongoing project activities. Although impacts were documented at a few locations and trespassing citations were issued in one instance, no significant adverse effects that would threaten the National Register eligibility of any resources were observed. Monitoring also demonstrated that several INL projects generally remain in compliance with recommendations to protect cultural resources.

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ACRONYMS

ARPA Archaeological Resources Protection Act

ATV all terrain vehicle

BEA Battelle Energy Alliance

BM Bingham (county)
BT Butte (county)

BLM Bureau of Land Management

CITRC Critical Infrastructure Test Range Complex

CRM cultural resource management

CWI CH2M Hill-Washington Group Idaho, LLC

DOE-ID Department of Energy, Idaho Operations Office

EBR-I Experimental Breeder Reactor-I

FY fiscal year

GPS global positioning system
HeTO Heritage Tribal Office
ICP Idaho Cleanup Project

HTRE Heat Transfer Reactor Experiment

INL Idaho National Laboratory

JF Jefferson (county)

LWP Laboratory Wide Procedure

MCP Management Control Procedure

NEPA National Environmental Policy Act

NRHP National Register of Historic Places

PBF Power Burst Facility

SHPO State Historic Preservation Office

U.S. United States

UXO unexploded ordnance

WERF Waste Experimental Reduction Facility

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1. INTRODUCTION

The Idaho National Laboratory (INL) is an 890 square mile federal reserve covering portions of five counties on the northeastern edge of the Snake River Plain in southeastern Idaho (Irving 1993, DOE-ID 1996). Lands included within the boundaries of the INL are under the jurisdiction of the U.S. Department of Energy, Idaho Operations Office (DOE-ID) and have been set aside since the 1940s to support many kinds of scientific and engineering research. Currently, four main contractors perform work for DOE-ID at INL. Battelle Energy Alliance (BEA) is the primary Management and Operations contractor, where the INL Cultural Resource Management (CRM) Office is based. CH2MHill/Washington Group (CWI) takes the lead on many cleanup operations related to the Idaho Cleanup Project (ICP), and Bechtel-Babcock & Wilcox-XT, Idaho leads many activities for the Advanced Mixed Waste Treatment project located within the Radioactive Waste Management Complex. INL's Naval Reactor Facility is under the jurisdiction of the U.S. DOE's Naval Reactors Office and is currently managed and operated by Bechtel-Bettis.

Public access to INL has been restricted since its inception in the 1940s and an active security force patrols all lands and facilities. When encountered, trespassers are removed immediately and can be served with official citations. Largely as a result of long term access restrictions, many cultural resources on the INL are relatively undisturbed. Vandalism is also reduced due to ongoing security patrols. However, over the past decade, unauthorized access has been noted at some INL cultural resource sites, particularly those within hunting and grazing easements, or with easy access from the paved roads that bisect or are adjacent to INL boundaries. This may be related to reductions in INL Security programs (i.e. elimination of daily helicopter patrols).

Access restrictions and security patrols do not prevent all impacts and damage to cultural resources does occur. There are five primary sources of impact:

- Natural processes such as erosion from wind and water or animal burrowing
- Livestock grazing, herding, and associated operations (i.e. watering stations/troughs, feed transport, stock camps)
- Trespassing in highly sensitive areas and unauthorized artifact collection by members of the public and possibly INL employees unaware of or indifferent to penalties associated with these activities
- INL projects that fail to comply with recommendations to protect cultural resources as outlined in Environmental Checklists or other environmental guidance
- Lack of regular maintenance or inappropriate preservation treatments for historic architectural properties

Under DOE-ID's INL Cultural Resource Management Plan (DOE-ID 2009), BEA's INL CRM Office maintains an ongoing program for monitoring, assessing, and developing strategies to mitigate impacts to cultural resources as a result of these sources of impact. This report provides a summary of the cultural resource monitoring activities completed in fiscal year (FY) 2009.

2. MONITORING PROGRAM DETAILS

A detailed description of the INL CRM Office monitoring program is located in Appendix L of the INL Cultural Resource Management Plan (DOE-ID 2009). Monitoring enables INL CRM staff to determine if the integrity of known resources is being compromised by natural processes, by unauthorized activities, by lack of maintenance or inappropriate preservation measures, or by INL projects. When impacts to cultural resources are identified in this manner, actions to avert further deterioration can be initiated and federal stewardship responsibilities are fulfilled.

2.1 Process of Selection

Specific cultural resources are chosen for monitoring based on INL CRM Office priorities as well as feedback from DOE-ID, the Shoshone-Bannock Tribes Heritage Tribal Office (HeTO), and INL stakeholders. The INL CRM archives, which include documentation of over 2,500 archaeological resources and more than 200 historic architectural properties, are also consulted for appropriate candidates for yearly monitoring. Both DOE-ID and the Shoshone-Bannock Tribes are often directly involved in fieldwork during the monitoring activities and INL project managers and other stakeholders, such as the Idaho State Historic Preservation Office (SHPO), also participate occasionally. Certain resources, like Middle Butte, Prickly, and Aviators Caves, sensitive localities inside the Power Burst Facility (PBF, now Critical Infrastructure Test Range Complex-CITRC), and the Experimental Breeder Reactor-I (EBR-I) National Historic Landmark, are monitored every year. Others, such as historic homesteads and some prehistoric archaeological sites are also visited routinely because of their location in highly visible areas where trespassing has been documented in the past. Each year INL CRM staff also conducts surveillance of resources in a wide variety of settings to address ongoing research interests and the overall focus of INL construction and project activities.

Monitoring of INL projects is completed under direct project funding and may be included as part of an INL Environmental Checklist or other environmental guidance. In FY 2009 monitoring was targeted at several different INL activities and involved different INL contractors. In one FY 2009 example, monitoring was stipulated as part of "Findings of No Significant Impact" associated with a National Environmental Policy Act (NEPA) Environmental Assessment for BEA's National Security Test Range (DOE-ID 2007a). In another example, CWI's ongoing geophysical surveys to identify unexploded ordnance (UXO) were evaluated for cultural resource impacts in an INL CRM Office effort that has spanned three years. Project-specific monitoring is also routinely completed in the sandy aeolian soils inside the boundaries of the PBF-CITRC area, where Native American human remains have been discovered in both primary and secondary (i.e. disturbed) contexts. Cultural resource monitoring of projects that involve soil disturbance within this facility complex is routine and required by company procedures (e.g. BEA's LWP-8000 and CWI's MCP-3480). This level of cultural resource oversight ensures that any new discoveries of human remains will be managed appropriately.

Forms developed by INL CRM Office staff are completed for every cultural resource monitoring trip. Hard-copy and electronic versions of these documents are maintained in the INL CRM files and are reproduced for FY 2009 here in Appendix A to this report. INL CRM staff also archive a variety of photographs to document monitoring efforts, but these high quality electronic images are reproduced here only in part due to their large size.

2.2 Findings and Documentation

Under the INL CRM monitoring program, there are four possible findings for a given monitoring trip, based on the level of disturbance noted:

- **Type 1**: no visible changes to a cultural resource and/or a project is operating within the limits of cultural resource clearance recommendations
- Type 2: impacts are noted but do not threaten the National Register eligibility of a cultural resource and/or a project is operating outside of culturally cleared limitations but no cultural resources have been adversely impacted
- Type 3: impacts are noted that threaten the National Register eligibility of a cultural resource and/or a project has been operating outside of culturally cleared limitations and impacts to non-eligible cultural resources have occurred
- **Type 4**: impacts that threaten the National Register eligibility of a cultural resource are occurring during the monitoring visit, justifying the use of the INL Stop Work Authority (LWP-14002, MCP-553)

If Type 2, 3, or 4 impacts are documented during a monitoring trip, notifications are made to project managers, the DOE-ID cultural resources coordinator, and various other parties, as appropriate and according to the nature and severity of the disturbance. Typically, Type 2 impacts can be corrected at once with the cooperation of INL project managers, security personnel, and/or landlord organizations. In these instances, the impacts are only reported in summary fashion in year end reports. Some Type 2 and all Type 3 or 4 impacts prompt formal investigations by the INL CRM Office. INL project managers, security, and/or landlord organizations, DOE-ID, and Shoshone-Bannock tribal representatives may also participate in these investigations.

Results of all monitoring and formal impact investigations are summarized annually in a year-end report to DOE-ID (cf. INL CRM 2009) and also appear in a higher level summary of INL CRM Office yearly activities (cf. Braun et al. 2007) that is sent to DOE-ID and other parties such as the Idaho State Historic Preservation Office, the Shoshone-Bannock Tribes, and other stakeholders.

3. RESULTS OF FY 2009 MONITORING

In FY 2009, 60 monitoring forms (Appendix A) were completed throughout the year to document individual site visits, to assess project compliance with cultural resource recommendations, to confirm the locations of specific cultural resources in relation to project activities, and to watch for cultural materials during ground disturbing activities in sensitive areas. Representatives from INL projects, DOE-ID, and the Shoshone-Bannock Tribe's HeTO participated in several of the trips in FY 2009 (Figure 1). Throughout the year, some Type 2 impacts, including unauthorized visitation and off-road vehicle use, animal burrowing, erosion, and inadequate building maintenance were documented and trespassers apprehended by INL security forces at a sensitive cave location were cited. However, the National Register integrity of all of the resources that were monitored remains intact. No adverse impacts were documented.



Figure 1. DOE-ID, INL CRM and HeTO tribal representatives at Middle Butte Cave in FY 2009.

In an effort to address recurring Type 2 impacts in FY 2009, INL CRM staff took steps to initiate a new productive working relationship with U.S. federal agents experienced in enforcing the Archaeological Resource Protection Act (ARPA) and successfully prosecuting individuals who have violated the law. To initiate a dialog in FY 2009, two Special Agents with the Department of the Interior U. S. Fish and Wildlife Service Division of Law Enforcement and a DOE-ID Security Specialist were escorted to several key archaeological sites on the INL that are particularly sensitive and that also receive occasional or regular unauthorized visitation from site employees and/or the public. Discussions between the agents and INL CRM staff resulted in the following ideas to pursue for mitigation:

- Internal notifications from DOE as a reminder to employees in regard to ARPA and other preservation laws
- INL procedural disciplinary actions
- Installation of remote surveillance equipment to document unauthorized visitors and activities

It is anticipated that interaction and cooperation between the federal agents, DOE-ID security, and the INL CRM Office will be ongoing through FY 2010 and beyond, leading to more effective protections for sensitive INL cultural resources.

3.1 Individual Resources

In FY 2009, INL CRM staff conducted official surveillance of thirty-eight individual cultural resources including: two locations with Native American human remains, one of which is a cave, two additional caves, twenty-two prehistoric archaeological sites, six historic homesteads, two historic stage stations, two historic trails, the Heat Transfer Reactor Experiment (HTRE) airplane engines and associated locomotive, and the Experimental Breeder Reactor-I National Historic Landmark. As noted in the discussions to follow, a handful of resources were visited on multiple occasions. Forms that document individual observations and recommendations are included in Appendix A.

3.1.1 Native American Human Remains

Two INL localities that include sensitive Native American human remains are visited at least once a year for monitoring and stabilization, as necessary. These are the Waste Experimental Reduction Facility (WERF) remains (10-BT-2046), located within the PBF-CITRC area, and Prickly Cave (10-BT-2037).

The WERF location (10-BT-2046) consists of sensitive human remains that were found eroding from the floor surface of an artificial drainage basin in FY 1996. Investigations confirmed that these sensitive materials were resting in their original position and in consultation with the Shoshone-Bannock Tribes steps were taken to secure them and prevent any future disturbance. Today these remains are secure beneath four truck loads of clean soil. The area is monitored yearly with the assistance of HeTO tribal representatives. Fortunately, no new impacts have ever been discovered.

Prickly Cave (10-BT-2037) is a relatively small lava tube cave with a correspondingly small opening that is flush with the exterior ground surface. Cultural materials located on the cave exterior are characterized by a light and unremarkable scatter of lithic debris along with a few stone tools. The cave interior however, houses extremely sensitive human remains along with various perishable (wood, bone) tools. The remains consist of skeletal elements originally found in the cave as well as some that were repatriated to Prickly Cave from another INL location. Over the years that annual monitoring has been conducted at Prickly Cave no evidence of human disturbance has been found. However, during a FY 2008 monitoring trip a human mandible previously noted inside the cave was found approximately 10 meters from the cave opening. It was concluded that the mandible had most likely been moved by a coyote. The mandible was returned to the cave and secured next to the repatriated human remains. Fortunately, the 2009 monitoring visit found no signs of disturbance, either to the human remains in the cave or to artifacts surrounding the cave entrance.

In FY 2009, no new or adverse impacts were observed at either of these locations and measures to stabilize the sensitive remains appear to remain adequate. Natural forces such as erosion and burrowing animals remain the primary agents of the light, Type 2 impacts that are occasionally observed in these areas and both warrant continued surveillance and intervention, as necessary.

3.1.2 Caves

As of FY 2009, 27 caves have been inventoried within the boundaries of the INL. Geologically, biologically, and culturally, each of these resources is unique. Humans have been drawn to these locations for thousands of years seeking shelter, work areas, and unique opportunities for caching food and valuables. Some caves have also served unique roles in hunting, spirituality, religion, communication, and education. Sensitive archaeological materials (e.g. human remains, perishable artifacts, fragile deposits underfoot) and cultural features (e.g. pictographs, rock features, hearths) remain today as a fragile record of these many uses. These materials exhibit remarkable potential for providing information of value in understanding the past and as a result, many caves are eligible for nomination to the National Register of Historic Places.

Caves retain enduring cultural significance to the Shoshone-Bannock Tribes and HeTO tribal representatives are important partners in INL CRM Office efforts to protect these sensitive resources from impact. DOE-ID supports these efforts and is committed to assuring continued tribal access to these important places.

Public and scientific interests in lava tube caves are also high. Access to INL caves is limited to official tours, but each year a large number of INL employees, school children, and educators gain an appreciation for local Native American people and their desert home during occasional tours. New scientific investigations are also routinely conducted at INL caves, with past research focused on the geology of the caves, resident and fossil plant and animal populations, and sensitive archaeological deposits.

Due to their high sensitivity, a variety of INL caves are monitored every year and some locations are visited several times per year. In spite of official access restrictions, unauthorized visitation continues to be a problem at some locations. The INL CRM Office continues to seek ways of reducing these impacts and in FY 2009, enlisted the assistance of federal agents from the U. S. Department of the Interior with specific training and interest in violations of the Archaeological Resources Protection Act (ARPA). In FY 2010 additional options for protection will be explored with these federal agents and DOE-ID Security.

Monitoring was conducted at three sensitive caves in FY 2009: Prickly Cave, Middle Butte Cave, and Aviators Cave. Monitoring results for Prickly Cave are presented in Section 3.1.1 and discussions for the other two monitored resources are below. Additional detail can also be found in Appendix A.

3.1.2.1 Middle Butte Cave

Middle Butte Cave (10-BM-34) is a large lava tube, with a cavernous opening and a subterranean extent of nearly 0.4 mile. Artifacts and paintings on the walls, both ancient and modern, indicate that the Cave has been a destination for human populations for a very long time. The Cave is of particular significance to the Shoshone-Bannock Tribes and DOE-ID has recognized their interests in a Memorandum of Agreement that assures continued access for ceremonial, cultural, and educational activities (DOE-ID 1994).

Restrictions on access to Middle Butte Cave have been in place for decades but unauthorized visitation continues to be a problem despite efforts by INL Security and the INL CRM Office. Vandals have fired bullets into signs at the area and continue to drive around existing barriers. In FY 2008, teenaged vandals were reprimanded by INL Security for unauthorized visitation and escorted to the Cave to remove graffiti that they had left in the furthest reaches of the lava tube interior. In FY 2009, increased vigilance by INL Security resulted in the apprehension of three trespassers who used four-wheelers to access the Cave illegally. After additional investigation, these individuals were charged with trespass violations, including jail time (suspended) for one culprit.

Multiple monitoring visits were made to Middle Butte Cave throughout FY 2009, both before and after the trespassing violations. Concrete evidence of unauthorized visitation was documented (Figure 2) and the offending trash was removed. Discussions with federal agents and DOE-ID Security will continue into FY 2010 to devise more effective ways of deterring this activity.



Figure 2. Trash removed from Middle Butte Cave in FY 2009.

3.1.2.2 Aviators Cave

Aviators Cave (10-BT-1582) is another large INL lava tube with extensive evidence of prehistoric use and contemporary significance to the Shoshone-Bannock Tribes. It is monitored for impacts at least once a year. Tribal participation in annual monitoring has become increasingly important since 2002, because at this time tribal representatives returned an especially sensitive item to an area in the Cave that is known only to them. On yearly visits, they inform INL CRM staff of any changes. Fortunately, there have been no disturbances to this item noted to date. However, since FY 2000, when a large range fire burned through the area, unauthorized visitation has been on the increase. Incursions were initially via 4-wheel drive vehicle in FY 2000, but since vegetation has returned, trespassers appear to be arriving on foot and new footprints are noted nearly every year. In FY 2008, a small pile of artifacts left in a "discard" pile near the Cave entrance appeared to represent an escalation in unauthorized activities.

Fortunately in FY 2009 there was no evidence of new impacts or unauthorized visitors at Aviators Cave. The high sensitivity of this location makes it an ideal choice for future INL CRM Office efforts in cooperation with federal agents and DOE-ID Security and additional protections for the site will be sought through this relationship in FY 2010.

3.1.3 Prehistoric Archaeological Resources

There are thousands of prehistoric archaeological sites within INL boundaries, ranging in age from more than 12,000 to 150 years old. The great antiquity and excellent condition of many of these sites is notable and provides justification for routine visitation and care to prevent adverse impacts. In FY 2009,

INL CRM staff monitored four large and highly visible prehistoric archaeological sites during routine visits with the following results:

- No new impacts were documented in the assemblage of Pleistocene-aged lithic artifacts at the Wind-Gap Folsom Site (10-BT-1449)
- No new impacts were observed in the dispersed scatter of lithic artifacts and possible fire hearths exposed at a large campsite adjacent to the Big Lost River Sinks (10-BT-738)
- Fresh vehicle tracks (Type 2 impacts) were documented through the Pioneer Site (10-BT-676) in an area that has been previously disturbed by vehicles (Figure 3)
- No new impacts from the nearby National Security Test Range or any other INL activities were observed at the rock walls and dense artifact scatter at the campsite known as "Hellofasite"



Figure 3. Fresh tire tracks documented at the Pioneer Site in FY 2009.

A proposed upgrade to the existing T-25 power line road stretching between the Materials and Fuels Complex (MFC) and CITRC prompted INL CRM Office monitoring visits to confirm the locations of known prehistoric archaeological sites in relation to the proposed road work. Monitoring forms were completed to document the condition of the fourteen sites that were revisited since many had not been evaluated recently. Sites included were: 10-BM-109, 10-BM-110, 10-BM-112, 10-BM-115, 10-BM-116, 10-BM-117, 10-BM-118, 10-BT-1049, 10-BT-1052, 10-BT-1053, 10-BT-1059, 10-BT-1062, 10-BT-

1247, 10-BT-1063. No adverse impacts were observed, although range fires, wind erosion, and fire-fighting efforts had recently caused light impacts in some areas (Figure 4). Once the locations were confirmed, recommendations to avoid any new impacts during future road upgrade activities were provided (Pace 2008). Later in FY 2009, plans for this road upgrade were cancelled.

Prehistoric archaeological sites were also monitored in FY 2009 to assess impacts in relation to ongoing INL project activities. Section 3.2 provides additional detail on all project-specific monitoring. In one project area, where UXO evaluations are ongoing, monitoring forms were completed to document the condition of four archaeological sites that had not been re-visited since their original recording in 1996 (10-BT-2050, 10-BT-2051, 10-BT-2052, 10-BT-2053). In all cases, these artifact assemblages present at these locations were similar to those originally observed although new artifacts were noted in some cases, probably as a result of greater ground visibility due to a past range fire. Additional detail on the light impacts resulting from geophysical surveys is provided in Section 3.2.3 and equipment cart through the site boundaries caused negligible impacts, comparable in intensity to heavy foot traffic.



Figure 4. Impacts resulting from range fire and wind erosion at site 10-BT-1062 in FY 2009.

3.1.4 Historic Archaeological Resources

During the period from 1884 to roughly 1930, many settlers filed homestead claims on lands that would eventually be designated as the INL. Federal laws that encouraged settlement of western deserts were often catalysts for these activities and in the INL region the Desert Land Act of 1877, Carey Land Act of 1894 and the Desert Reclamation Act of 1902 were influential. Many types of historic archaeological sites remain from this time, including homesteads, stage and freighting stations, town sites and railroad sidings, ditches and canals, and the construction camps that were often necessary to build and

support them. INL CRM Office monitoring of several of these historic archaeological resources is routine. In FY 2009, two historic stage stations and six homesteads were visited.

3.1.4.1 Stage Stations

At the Birch Creek Stage Station (BEA-07-32-115) in a remote area near the northernmost boundary of the INL, fresh tire tracks indicated some unauthorized visitation but grazing-related impacts appeared to have decreased in FY 2009. The relative isolation of this sensitive location makes it vulnerable to additional unauthorized activities and regular monitoring will continue in an effort to prevent impacts from becoming adverse.

The Powell Stage Station (10-BT-2194) was visited on multiple occasions during the year due to high levels of project-related activities in the vicinity. Revegetation of backhoe trenches has changed native ungulate grazing patterns in the area, but impacts to the archaeological site are not adverse. Likewise, geophysical surveys employing a 6-wheeler and equipment cart in regular transects over the surface of the site created impacts comparable to heavy foot traffic and no adverse effects. However, potentially adverse Type 2 impacts were noted as a result of animal burrowing in the southwestern corner of the rock foundation and northeast portion of bridge abutments on the site. INL CRM staff will continue to monitor this damage and consider consulting with experts in animal control/behavior to develop strategies to discourage additional damage of this nature.

3.1.4.2 Historic Homesteads

In FY 2009, six historic homesteads were visited by INL CRM staff including three localities associated with historic trail T-16 (Lilly Wakefield Homestead-BEA-07-32-107, BEA-07-32-106, BEA-07-32-105), the Richards Homestead (BEA-06-31-Richards), the Kuharski homestead (BEA-07-32-114), and a site near the Idaho Nuclear Technology Center (INTEC) (10-BT-269). Although no significant adverse impacts were noted at any of these localities, some Type 2 impacts worthy of continued monitoring were documented.

At the Lilly Wakefield site, large badger dens were noted around and under the cistern and foundation. At the Kuharski homestead, rodent burrows near the blacksmith forge appear to remain inactive but recent trash indicates that unauthorized visitors have accessed the area. Light vehicle tracks passing along a protective fence line at 10-BT-269 indicated some recent visitation and prompted a follow-up reminder to INL project personnel that unrestricted off-road vehicle use is prohibited. Though no adverse impacts have occurred, ongoing observation is warranted and these sites will be included in future monitoring efforts.

3.1.5 Historic Trails

INL lands are crossed by a multitude of unimproved trails, many dating to historic times around the turn of the 20th Century. These trails were important links between communities along the Snake River (e.g. Blackfoot and Eagle Rock/Idaho Falls) and those located in mountain valleys to the west and north (e.g. Mackay, Howe, Arco). People, goods, and stock passed freely along the established paths and encouraged economic growth in the region. Continued sporadic travel on the trails today by modern vehicles ensures that they remain visible on the contemporary landscape. However, heavy vehicle and stock traffic and inappropriate maintenance can adversely impact the trails, destroy their context and setting, and adversely impact archaeological resources nearby.

In FY 2009, adverse impacts related to inappropriate FY 2002 maintenance were still visible along one important INL trail, Goodale's Cutoff. Fortunately, undisturbed segments of this northern spur of the Oregon Trail do remain on INL lands and in places, exhibit original wear from wagon wheels as well as metal scrapings, loose horse shoe nails, and broken wagon parts, over rocky outcrops where the going

was rough. No new impacts to Goodale's Cutoff were observed in FY 2009 and the road appeared to be subject to only light ongoing use.

A similar situation is present along portions of the length of T-16, also monitored in FY 2009. This trail passes by many historic homesteads on the way south to the Cerro Grande townsite/railroad siding. Although monitoring showed that the trail is not heavily used now, impacts from aggressive FY 2007 maintenance (addition of gravel to low-lying areas) were still apparent. Monitoring and consultation will continue at these and other INL trails to encourage appropriate use and maintenance and prevent further deterioration.

3.1.6 Nuclear Resources

Experimental Breeder Reactor-I (EBR-I) is INL's single designated National Historic Landmark, recognized as such because of its association with the early development of nuclear power and reactor technology. It is the only INL facility open to the public on a seasonal basis (Memorial Day through Labor Day, annually). In past years, the site has benefited from a "Save America's Treasures" grant, which supported updated exhibits to enhance the Visitors Center and addressed some preservation issues (brick and mortar restoration) (Braun 2006). Nuclear artifacts exhibited at the site include two Heat Transfer Reactor Experiment (HTRE) airplane engines and the specialized locomotive used to position them during experiments in the 1950s. These resources are eligible for nomination to the National Register. A nomination package for the HTRE engines has been submitted to DOE-ID and will be modified to include the locomotive.

In FY 2009, monitoring was completed for the HTRE nuclear artifacts as well as the EBR-I reactor facility. At the HTRE engines, which are located outdoors and exposed to the elements, weather (sun, rain, freeze, thaw) and nesting birds continue to cause impacts. If these conditions are not corrected, adverse impacts are likely to result. Consultation will be ongoing with DOE-ID and facility managers toward a solution in FY 2010. At the EBR-I reactor facility, no new impacts were observed in FY 2009 but an inadequate water drainage system continues to threaten the integrity of bricks and mortar on the building. INL CRM staff will continue to work with DOE-ID and INL landlord organizations to address ongoing maintenance and preservation at these important, highly visible, public resources.

3.2 Projects

Several types of project-specific cultural resource monitoring were conducted in FY 2009. Nearly twenty archaeological sites previously recorded in the vicinity of new INL projects were revisited to assess their current condition and develop recommendations for avoiding future impact. Discussions of these reviews were presented in Section 3.1 according to the types of resources investigated. In a second type of project monitoring in FY 2009, INL projects were audited for compliance with cultural resource recommendations made during the INL environmental review process. Finally, in a third type of project monitoring, ground disturbance associated with INL project activities in archaeologically sensitive areas was directly observed by INL CRM staff. In total, five projects were monitored. Results appear in the Sections to follow.

3.2.1 National Security Test Range

The Environmental Assessment (EA) completed for the National Security Test Range (DOE-ID 2007) included minimal requirements for protection of cultural resources such as:

• Limit ATV travel and signage [around the safety fan perimeter] to areas outside the boundaries of any identified cultural resources to prevent disturbance

- Support yearly visits of known archaeological resources in the project area by an INL archaeologist and take additional protective measures as necessary
- Coordinate work with an INL archaeologist to avoid blading and leveling activities inside the boundaries of identified archaeological sites

Several project activities at the National Security Test Range were monitored in FY 2009 in response to this guidance. The Range safety fan was examined to ensure that the vehicle used to install signs correctly followed the route marked by INL CRM staff to avoid impacts to archaeological sites identified there in FY 2008. Project compliance was confirmed and no impacts were observed. INL CRM staff will continue to cooperate with project personnel on yearly monitoring of the fan to reduce or eliminate the need for off-road vehicle use around the fan. In another effort, no new impacts or evidence of unauthorized visitation were observed during a routine visit to the sensitive prehistoric campsite with rock features known as "Hellofasite" (10-JF-88) located to the east of the Test Range.

Ground disturbance and revegetation activities conducted along the T-25 access road approximately 50 meters away from a known archaeological site (10-BM-124) were directly observed as they occurred and no sensitive artifacts were uncovered at any time. Surveillance was also conducted at eight prehistoric lithic scatters located along the T-25 access road (10-JF-85, 10-JF-84, 10-JF-83, 10-JF-80, 10-JF-78, 10-JF-77, 10-BM-123, BEA-06-20-07). INL CRM staff worked closely with project personnel to clearly mark the sensitive areas and reinforce the need to avoid blading and leveling activities within them in compliance with the EA. Efforts to convince project personnel to support a better long term solution for protecting the sensitive resources along the T-25 access road are ongoing.

3.2.2 Big Lost River Trenches

In 2002, DOE-ID, the U. S. Bureau of Reclamation, and various University partners initiated a paleohydrology study to develop a defensible and consistent interpretation of flood history and flood hazards on the INL. Several backhoe trenches excavated into Big Lost River floodplain deposits near the modern riverbed were necessary to support this investigation. In FY 2007, the trenches were backfilled and in FY 2008 they were revegetated with native seeds and seedlings. INL CRM staff and Shoshone-Bannock tribal representatives were on hand to monitor all ground disturbances due to the proximity of four sensitive archaeological sites (prehistoric archaeological sites - 10-BT-2189, 10-BT-2192, 10-BT-2193 and the Powell Stage Station - 10-BT-2194) and the requirements of a National Environmental Policy Act Environmental Assessment (DOE-ID 2002). No sensitive cultural materials were observed at any time during trenching, backfilling, or revegetation. During monitoring in FY 2009, archaeological materials appeared to be stabilized. Light impacts as a result of grazing and wind erosion were documented, but no significant adverse impacts were observed.

3.2.3 Geophysical Surveys for Subsurface Unexploded Ordnance

Cleanup of unexploded ordnance (UXO), ordnance components, and explosive compounds that remain from the period when INL was operated as the Arco Naval Proving Ground (ca. 1942 - 1949, 1968) has been ongoing at INL since 1994. In FY 2009, geophysical surveys continued to evaluate UXO that still remains beneath the surface at identified ordnance areas, utilizing cart-mounted magnetometers and a 6-wheeled all terrain vehicle to collect data.

In the gravelly floodplain soils that have been mapped with the ATV-cart setup to date, impacts have been minimal. In sandier deposits, slight lateral displacement of soils has been observed in the tracks of the ATV, but even these effects in these particular soils have proven to be negligible and not much greater than heavy foot traffic. In FY 2009, mapping efforts were focused at the Exploded Railcar Area. Operations were again monitored by INL CRM staff to determine if known archaeological resources were being adversely impacted by the work. As was documented in FY 2007 and again in FY 2008, no

adverse impacts occurred when ATV transects passed over the surface at four previously recorded prehistoric campsites (10-BT-2050, 10-BT-2051, 10-BT-2052, 10-BT-2053) and several additional newly recorded historic and prehistoric archaeological sites. Ground surfaces displayed no adverse impacts and no artifacts were broken or displaced. The ATV and cart will be considered and evaluated for use in other ordnance cleanup areas on a case-by-case basis and INL CRM monitoring will continue into FY 2010 as strategies for cleanup of the identified UXO are developed.

Data collected during the geophysical surveys are also being evaluated for use in future archaeological investigations. In this context, the 6-wheeler and cart were utilized to collect geophysical data from the Powell Stage Station in FY 2009. Monitoring at this location after data collection also showed no adverse impacts to the sensitive historic archaeological materials. Analysis is ongoing and INL CRM staff believes this may prove to be a valuable tool in future archaeological evaluations.

3.2.4 Explosives Magazine Facility

The National Security Test Range and MFC Security proposed in FY 2008 to construct a new facility to safely store explosives. The preferred area for construction was in a disturbed area east of the Test Range T-25 access road. Archaeological survey in FY 2008 revealed surface artifacts in sandy soils on the eastern edge of this project area and a potential for additional buried cultural deposits in the surrounding sandy soils. Test excavations in FY 2009 to the west of the surface artifacts revealed no sensitive cultural deposits in the project area. The archaeological site located near this project area was visited on two occasions in FY 2009, first to familiarize HeTO tribal counterparts with the resource before test excavations and later to confirm project compliance with recommendations for avoidance of direct impact where artifacts occur. No new impacts were observed at the site at any time.

3.2.5 Power Burst Facility-Critical Infrastructure Test Range Complex

Company environmental procedures require project managers to contact the INL CRM Office in advance of ground disturbance within the fenced boundary of PBF-CITRC. This is due to the occurrence of human remains in original as well as secondary (i.e. disturbed) contexts at two separate locations within the facility. Accelerated cleanup across the INL and new activities to support National Security have resulted in an increase in the number of projects at this facility. In FY 2009, these activities included training exercises, power line testing, cell tower installation, electrical trenching, and demolition. On eight occasions in FY 2009, ground disturbance of this nature was monitored for human remains. No sensitive materials were observed at any time.

4. RECOMMENDATIONS

Monitoring is an effective method of documenting impacts to INL cultural resources and is a necessary first step in prevention. Several broad recommendations result from FY 2009 surveillance. First, at a minimum, the condition of the following resources of high sensitivity should be assessed in FY 2010:

- WERF Remains (10-BT-2046)
- Prickly Cave (10-BT-2037)
- Middle Butte Cave (10-BM-34)
- Aviators Cave (10-BT-1582)
- Pioneer Site (10-BT-676)

- Powell Stage Station (10-BT-2194)
- Goodale's Cutoff
- Experimental Breeder Reactor I National Historic Landmark

Cultural resource monitoring in FY 2010 should also be focused on several broad classes of other INL cultural resources and projects, as funding allows. Minimally, this might include:

- Any soil disturbance at the PBF-CITRC area to monitor for additional occurrences of sensitive human remains, even in disturbed contexts
- Areas burned by wildfire
- Archaeological sites located in high traffic areas such as the INL Boundary and Grazing Boundary or where unauthorized visitation is likely
- Historic homesteads, including those identified during ongoing archival research
- Buttes, craters, and caves
- World War II buildings and features at Central Facilities Area and within the broader Naval Proving Ground
- INL gun and test range safety fans
- UXO geophysical surveys and proposed cleanup activities
- Grazing and grazing-related impacts to historic trails

To address ongoing Type 2 impacts related to unauthorized visitation, INL CRM staff will continue to work closely with DOE-ID, HeTO tribal representatives, INL security and landlord organizations, and individual project personnel, as appropriate, to implement more effective protections. In FY 2010, assistance offered by federal experts in Archaeological Resource Protection Act (ARPA) enforcement should enhance this team and the tools and plans developed for resource protection.

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Appendix A Monitoring Forms

Appendix A Monitoring Forms

Appendix A contains electronic versions of FY 2009 monitoring forms originally completed in the field. In a few cases, multiple field visits to the same site location are documented on a single form. FY 2009 forms are organized according to the following categories presented in the preceding report:

- Native American Human Remains
- Caves
- Prehistoric Archaeological Resources
- Historic Archaeological Resources
- Historic Trails
- Nuclear Resources
- Projects

A: Native American Human Remains

Monitor Number:	CFM-09-09
Monitor Name:	C.F. Marler, Julie Braun, Robert Gallegos, Carolyn Smith, Tino Batt, Sherice Gould
Monitor Date(s):	9/23/09
Project: Site Name/Number Reason for Monito	
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Imp	No new impacts
	impact extend into undisturbed areas? NA Yes No
Work Halted? If yes, describe:	NA Yes No
Notifications: Date Contacted: Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials (If yes, describe:	
	observed inside the cave.
Cultural Materials (If yes, describe:	No collection.
General Comments	s:
Recommendations	: Continue to monitor at least twice annually
GPS Coordinates of If yes, describe (da	
Attach additional d	ocumentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number: CFM-0	09-10	
Monitor Name: C.F. M	Marler, Julie Braun, Robert Gallegos, Carolyn Smith, Tino Batt, Sherice	Gould
Monitor Date(s): 9/23/0)9	
Project: Site Name/Number: Reason for Monitoring:	NA WERF burial routine	
Findings: Type	Type 2 Type 3 Type 3	e 4
	Erosion, rodent burrowing- neither of which appears recent Not significant	
Did disturbance or impact If yes, describe:	t extend into undisturbed areas? NA Yes No	
Work Halted? NA If yes, describe:	Yes No	
Notifications: Date Contacted: Contact Method: E-mai	il Phone Official correspondence, CCN#:	
Cultural Materials Observed? Yes No X If yes, describe:		
Cultural Materials Collecte If yes, describe:	ed? NA Yes No	
ve	loderate erosion along the south and west periphery of the soil cap althogegetation has stabilized most of the cap. Minor small rodent burrowing invidence.	
Recommendations: Co	ontinue to monitor once per year	
GPS Coordinates collected? Yes No X If yes, describe (datum, coordinates):		
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No X If yes, describe:		

A: Caves

Monitor Number:	_CFM-09-03
Monitor Name:	C.F. Marler, Julie Braun, Dino Lowrey, John and Amy Dudgeon, Robert Gallegos,
•	Carolyn Smith, Tino Batt, Sherice Gould
Monitor Date(s):	5/18/09, 6/28/09, 9/23/09
Project:	NA
Site Name/Number:	10BM34 (Middle Butte Cave)
Reason for Monitor	
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s):	No new impacts
Significance of Imp	·
Did disturbance or If yes, describe:	impact extend into undisturbed areas? NA Yes No
Work Halted?	NA Yes No
If yes, describe:	
, , , , , , , , , , , , , , , , , ,	
Notifications:	N/A
Date Contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials C	Observed? Yes X No
If yes, describe: Thin scatter of lithic debitage and historic trash surrounding the cave exterior	
- ·	pictographs inside the cave
	protographic motor and care
Cultural Materials C	Collected? Yes No x
If yes, describe:	No collection.
_	
General Comments	
Recommendations	Continue to monitor at least twice annually
GPS Coordinates c	
If yes, describe (da	tum, coordinates):
A44	
	ocumentation, as warranted (photos, profiles, etc.) Yes \square No \square
If yes, describe: _	

Monitor Number: CFM-09-07
Monitor Name: C.F. Marler
Monitor Date(s): 7/14/09
Project: NA Site Name/Number: 10BM34 (Middle Butte Cave) Reason for Monitoring: Follow-up to reports of trespassers apprehended by INL security
Findings: Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): No new impacts Significance of Impact:
Did disturbance or impact extend into undisturbed areas? NA Yes No If yes, describe:
Work Halted? NA Yes No If yes, describe:
Notifications: Robert Gallegos, Chris Heyer Date Contacted:
Contact Method: E-mail X Phone Official correspondence, CCN#:
Cultural Materials Observed? Yes x No
Cultural Materials Collected? Yes No x If yes, describe: No collection.
General Comments: No evidence of damage or vandalism was found either outside the cave or in the cave near the front. (A complete search of the cave was not conducted). Most importantly there was no damage to the pictographs.
Recommendations: Continue to monitor at least twice annually
GPS Coordinates collected? Yes No X If yes, describe (datum, coordinates):
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number: C	FM-09-12	
Monitor Name: C	.F. Marler, Dino Lowrey	
Monitor Date(s): 8/	/17/09	
Project: Site Name/Number: Reason for Monitoring	NA 10BM34 (Middle Butte Cave) Tribal tour	
Findings:	Туре 1 Туре 2 X Туре 3 Туре 4	
Impact Agent(s): Significance of Impac	New Mountain Dew cans noted in the cave interior Not significant- does not affect National Register Eligibility	
Did disturbance or im If yes, describe:	pact extend into undisturbed areas? NA Yes No	
Work Halted? NA If yes, describe:	Yes No	
Notifications: Date Contacted: Contact Method:	E-mail Phone Official correspondence, CCN#:	
	served? Yes x No in scatter of lithic debitage and historic trash surrounding the cave exterior; stographs inside the cave.	
Cultural Materials Collected? Yes No x If yes, describe: No collection.		
General Comments:	Cans may have been left by the trespassers arrested in July. Cans were not collected during the Tribal tour but were retrieved 2 days later by Julie Braun and Hollie Gilbert.	
Recommendations:	The frequency of anomalous events at Middle Butte Cave suggests the need to increase annual visits to a minimum of three formal monitoring trips. In addition to formal visits, additional periodic checks should be done as time and schedules allow.	
GPS Coordinates collected? Yes No X If yes, describe (datum, coordinates):		
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No X		

Monitor Number:	HKG-09-05	
Monitor Name:	Hollie K. Gilbert and Julie B. Braun	
Monitor Date(s):	8/19/09	
Project: Site Name/Number: Reason for Monitorir	Tour with Special Agents from the U.S. Fish and Wildlife Service Middle Butte Cave	
Findings:	Type 1 x Type 2 Type 3 Type 4	
Impact Agent(s): Significance of Impa	Two Mt. Dew cans were noted in the entrance to the cave. Ct: Unauthorized visitation.	
Did disturbance or ir If yes, describe:	mpact extend into undisturbed areas? Yes No x	
Work Halted? If yes, describe:	Yes No x	
Notifications: Date Contacted:	N/A	
Contact Method:	E-mail Phone Official correspondence, CCN#:	
Cultural Materials Ob If yes, describe:C	oserved? Yes No x cultural materials appear to be undisturbed.	
Cultural Materials Co If yes, describe: <u>N</u>	ollected? Yes No x	
General Comments:	Cans were photographed and then removed from cave.	
Recommendations:	Whenever new trash is found, it needs to be collected for disposal. In addition	
	to the Mt. Dew cans, other older trash was collected such as a piece of wire,	
	broken glass, and .22 cal. bullet casings.	
GPS Coordinates collected? If yes, describe (datum, coordinates):		
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No If yes, describe:		

Monitor Number: CFM-09-06
Monitor Name: C.F. Marler, Julie Braun, Dino Lowrey, John & Amy Dudgeon
Monitor Date(s): 6/28/09
Project: NA Site Name/Number: Aviator's Cave Reason for Monitoring: routine
Findings: Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impact: No new impacts
Did disturbance or impact extend into undisturbed areas? NA Yes No If yes, describe:
Work Halted? NA Yes No No If yes, describe:
Notifications: Date Contacted: Contact Method: E-mail Phone Official correspondence, CCN#:
Cultural Materials Observed? Yes x No In the lava tube collapse
Cultural Materials Collected? Yes No X If yes, describe: No collection.
General Comments:
Recommendations: monitor twice per year
GPS Coordinates collected? Yes No X If yes, describe (datum, coordinates):
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No X If yes, describe:

A: Prehistoric Archaeological Sites

Monitor Number:	CFM-09-01
Monitor Name:	C.F. Marler, Julie Braun
Monitor Date(s):	5/18/09
Project: Site Name/Number Reason for Monito	
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Site has been extensively impacted in the past- likely related to historic RWMC operations. No new impacts noted
Significance of Imp	pact: NA
Did disturbance or If yes, describe:	impact extend into undisturbed areas? NA Yes No
Work Halted? If yes, describe:	NA Yes No
Notifications:	N/A
Date Contacted:	14//
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials (If yes, describe: _	Observed? Yes x No variably dense lithic scatter- site has been recorded/sampled on 2 occasions with diagnostic tools and some debitage collected. No additional diagnostics noted on this visit.
Cultural Materials (If yes, describe:	
General Comments	s:
Recommendations	Continue to monitor annually
GPS Coordinates of If yes, describe (da	collected? Yes No X etum, coordinates):
Attach additional d	locumentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number:	CFM-09-02
Monitor Name:	C.F. Marler, Julie Braun
Monitor Date(s):	5/18/09
Project: Site Name/Number Reason for Monito	
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Site has been extensively impacted in the past by railroad construction, vehicular traffic, natural erosion, bioturbation, probable looting etc. Possible fresh vehicle tracks noted.
Significance of Imp	Not significant- tracks were located in previously disturbed portions of the
	Site- Does not affect National Register eligibility
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe:	NA Yes No
Notifications: Date Contacted: Contact Method:	N/A E-mail
Cultural Materials (If yes, describe:	Observed? Yes x No Extensive lithic scatter along with fire-cracked rock, a few potsherds and a major historic component.
Cultural Materials (If yes, describe:	
General Comments	s:
Recommendations	Continue to monitor annually
GPS Coordinates of If yes, describe (da	collected? Yes No X atum, coordinates):
	documentation, as warranted (photos, profiles, etc.) Yes X No Photo of possibly fresh tire tracks

Monitor Number: CFM-09-11
Monitor Name: C.F. Marler, Julie Braun, Robert Gallegos, Carolyn Smith, Tino Batt, Sherice Gould
Monitor Date(s): 9/23/09
Project: NA Site Name/Number: Big Lost River Sinks (General Area)- also 10BT738 routine
Findings: Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impact:
Did disturbance or impact extend into undisturbed areas? NA Yes No If yes, describe:
Work Halted? NA Yes No If yes, describe:
Notifications:
Date Contacted:
Contact Method: E-mail Phone Official correspondence, CCN#:
Cultural Materials Observed? Yes X No Thin scatter of lithic debitage- with occasional dense concentrations that include fire-cracked rock
Cultural Materials Collected? NA Yes No No If yes, describe:
General Comments: This site has endured significant impact from historic grazing, water control activity (headgates) vehicular traffic and power line construction.
Recommendations: Occasional opportunistic monitoring
GPS Coordinates collected? Yes No X If yes, describe (datum, coordinates):
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No X If yes, describe:

Monitor Number:	BRP-09-01
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	October 14, 2008
Duele etc	T 25 Deed Improvements
Project: Site Name/Number	T-25 Road Improvements
Site Name/Number Reason for Monito	
Reason for World	ring: Revisits to previously recorded sites in the area of potential effect for road improvements along the Power Line Road (T-25) between the Materials and
	Fuels Complex and Critical Infrastructure Test Range Complex.
	Tuels complex and childar infrastructure Test Nange complex.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Site has been impacted by a 2008 range fire and subsequent erosion.
Significance of Imp	
. 5	site form and survey report.
	impact extend into undisturbed areas? Yes No x
	Some minor post-fire soil movement is currently taking place and may have covered
	some artifacts. However, this does not appear to have significantly changed the
	overall character or visibility of this site.
M. I. II. II. IO	V
Work Halted?	Yes No x
If yes, describe:	N/A
Notifications:	None required under Type 1 Finding.
Date Contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
oontaot methoa.	2 man 5 month of respondence, contr.
Cultural Materials (Observed? Yes X No
If yes, describe:	The surface inventory appears similar to that reported in the 1985 survey report.
_	Approximately 60 flakes are present including obsidian, fine-grained basalt, quartzite,
-	and grey ignimbrite. A few flakes are showing up on the south side of the road now
-	(10 meters from road), where fire has removed all vegetation. Deep sand is
-	accumulating on north side of the road and is probably covering additional artifacts.
-	Closest artifacts to the road on the north are 4-8 meters away. A knife-like biface
-	fragment of obsidian, biface tip of grey ignimbrite, multicolored chalcedony retouched
-	flake, and caramel chalcedony steep end scraper were observed. "Road" originally
_	noted in area is probably a natural drainage channel.
_	
	Collected? Yes No x
If yes, describe: _	No collection.
Camanal Camananto	
General Comments	, , ,
	effect. However, materials are definitely concentrated to the north. Aeolian
	sands are also accumulating on this side of the road and probably covering
D	additional artifacts. Pole # 75 is just to the west.
Recommendations	
	north can be avoided, impacts should not be adverse. However, soil disturbance
	should be monitored as work is completed.
GPS Coordinates of	collected? Yes X No
	collected? Yes x No
n yes, describe (da	itum, coordinates).
Attach additional d	locumentation, as warranted (photos, profiles, etc.) Yes X No

Monitor Number:	BRP-09-02
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	October 7, 2008
()	
Project:	T-25 Road Improvements
Site Name/Number	: 10-BM-110
Reason for Monito	ring: Revisits to previously recorded sites in the area of potential effect for road
	improvements along the Power Line Road (T-25) between the Materials and
	Fuels Complex and Critical Infrastructure Test Range Complex.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Site has been impacted by range fires and erosion over the past decade.
Significance of Imp	
	adversely impacted the site. It appears essentially the same as described in
	the 1985 site form and survey report.
	impact extend into undisturbed areas? Yes No x Some minor post-fire soil movement may have taken place but it does not appear to
	have significantly altered the overall character or visibility of this site.
_	
Work Halted?	Yes No x
If yes, describe:	N/A
_	
Notifications:	None required under Type 1 Finding.
Date Contacted:	N/A
Countract Mathematic	E-mail Phone Official correspondence, CCN#:
Contact Method:	2 man Thomas Office pondence, Contr.
Contact Method:	Z man
Cultural Materials	
Cultural Materials	
Cultural Materials (Observed? Yes X No
Cultural Materials (Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report.
Cultural Materials (Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact
Cultural Materials (If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from
Cultural Materials (If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the
Cultural Materials (If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from
Cultural Materials (If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified.
Cultural Materials If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x
Cultural Materials If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified.
Cultural Materials If yes, describe: Cultural Materials Cultural Materials If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x
Cultural Materials If yes, describe: Cultural Materials Cultural Materials If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x
Cultural Materials If yes, describe: Cultural Materials Cultural Materials If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection.
Cultural Materials If yes, describe: Cultural Materials Cultural Materials If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near
Cultural Materials If yes, describe: Cultural Materials Cultural Materials If yes, describe:	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121.
Cultural Materials If yes, describe: Cultural Materials If yes, describe: General Comments	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121. If disturbance can be restricted to east side of road and cultural deposits to the
Cultural Materials If yes, describe: Cultural Materials If yes, describe: General Comments	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121. If disturbance can be restricted to east side of road and cultural deposits to the west can be avoided, impacts should not be adverse. However, soil
Cultural Materials If yes, describe: Cultural Materials If yes, describe: General Comments	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121. If disturbance can be restricted to east side of road and cultural deposits to the
Cultural Materials If yes, describe: Cultural Materials If yes, describe: General Comments	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121. If disturbance can be restricted to east side of road and cultural deposits to the west can be avoided, impacts should not be adverse. However, soil disturbance should be monitored as work is completed.
Cultural Materials If yes, describe: Cultural Materials General Comments Recommendations	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121. If disturbance can be restricted to east side of road and cultural deposits to the west can be avoided, impacts should not be adverse. However, soil disturbance should be monitored as work is completed. Collected? Yes x No
Cultural Materials If yes, describe: Cultural Materials General Comments Recommendations	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121. If disturbance can be restricted to east side of road and cultural deposits to the west can be avoided, impacts should not be adverse. However, soil disturbance should be monitored as work is completed.
Cultural Materials If yes, describe: Cultural Materials If yes, describe: General Comments Recommendations GPS Coordinates of yes, describe (date)	Observed? Yes x No The surface inventory appears similar to that reported in the 1985 survey report. Approximately 50 flakes are present, dominated by obsidian but one pretty lime green chert flake noted as well. A pile of larger flakes appears to be the result of artifact collectors. Nearly all of the artifacts are on the west side of the road (~32 meters from road), but one retouched flake was observed on the east side only ~2 meters from the road. Small rock datum from original survey/recording was re-identified. Collected? Yes No x No collection. S: Artifacts are located on both sides of the road, directly within the area of potential effect. However, materials are definitely concentrated to the west near Pole # 121. If disturbance can be restricted to east side of road and cultural deposits to the west can be avoided, impacts should not be adverse. However, soil disturbance should be monitored as work is completed. Collected? Yes x No

Monitor Number:	BRP-09-03
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	October 7, 2008
Project:	T-25 Road Improvements
Site Name/Number	
Reason for Monito	
reason for monito	improvements along the Power Line Road (T-25) between the Materials and
	Fuels Complex and Critical Infrastructure Test Range Complex.
	T dolo complex and officer initiating of the range complex.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Site has been impacted by range fires and erosion over the past decade.
Significance of Imp	Not significant. Fires and subsequent erosion do not appear to have
	adversely impacted the site. It appears essentially the same as described in
	the 1985 site form and survey report.
	impact extend into undisturbed areas? Yes No X
	Some minor post-fire soil movement is currently taking place and may have covered
	some artifacts. However, this does not appear to have significantly changed the
	overall character or visibility of this site.
Morle Holfod?	Vac No V
Work Halted?	Yes No x
If yes, describe:	V/A
Notifications:	None required under Type 1 Finding.
Date Contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials	Observed? Yes X No
If yes, describe:	The surface inventory appears similar to that reported in the 1985 survey report but no
	evidence of shovel tests in 1988 is apparent. Approximately 15 flakes are present,
Ī	ncluding obsidian, fine-grained basalt, and chalcedony. Burned bone fragments that
	appear to be cultural are also associated with the flakes and one crude biface
	ragment of obsidian was noted. All artifacts observed at this site are east of the road,
-	~1-2 meters away. Soils are deep and ryegrass dominates the vegetation community,
	so activities may be associated with playa resources.
_	
Cultural Materials	
If yes, describe:	No collection.
Canaval Cammant	Artifacto are currently rectricted to an area mare than 0 maters from the cost aids
General Comments	Artifacts are currently restricted to an area more than 8 meters from the east side of the road near Pole # 119. No subsurface cultural deposits were found during
	test excavations at this site in 1988. No current evidence of the previous
	excavations was observed.
Recommendations	: If disturbance can be restricted to west side of road and cultural deposits to the
rtocommondatione	east can be avoided, impacts should not be adverse. However, soil disturbance
	should be monitored as work is completed.
	Should be monitored as work is completed.
GPS Coordinates	collected? Yes X No
	itum, coordinates):
,,	··· / · · · · · · · · · · · · · · · · ·
Attach additional o	locumentation, as warranted (photos, profiles, etc.) Yes X No
	Photos of site area.

Monitor Number:	BRP	-09-04						
Monitor Name:	B. R.	. Pace, H. K. (Gilbert					
Monitor Date(s):	Octo	ber 23, 2008						
		- 0-5						
Project:			mprovements	3				
Site Name/Number		10-BM-116					CC	
Reason for Monito	oring:		reviously rec					
			nts along the					s and
		Fuels Comp	lex and Critic	ai intrastruc	ture Test F	kange Compi	ex.	
Findings:	Тур	e 1 x	Type 2		Type 3		Тур	e 4
Impact Agent(s):		Site has bee	en impacted b	v range fire	s and eros	ion over the r	oast decad	le.
Significance of Im	pact:		ant. Fires and					
3	•		npacted the s					oed in
			e form and su			<u>y 11.10 00.1110</u>		
Did disturbance or	r impa	ct extend into	o undisturbe	d areas?		Yes	No	Х
If yes, describe:					ntly taking p	olace and ma	y have cov	vered
		artifacts. How						
		character or						
_			,					
Work Halted?		Yes	No	х				
If yes, describe:	N/A		-					
<u> </u>								
Notifications:	None	e required und	der Type 1 Fi	nding.				
Date Contacted:	N/A							
Contact Method:	E-ma	ailF	Phone	Official cor	responde	nce, CCN#:		
			. \square					
Cultural Materials			es x	No				
If yes, describe: _								
		imately 30 fla						
		dony are pres						
		No new chip						
		rs or more. T			uns throug	h the area is	between t	:he
_	flakes	and the road,	very close to	the road.				
0 1/2 1.11		. 10						
Cultural Materials			es	No	Х			
If yes, describe: _	No coll	ection.						
General Comment	s: <u>A</u>	rtifacts are cu	rrently restric	ted to the no	orth side of	the road nea	ar Pole # 1	02.
Recommendations	e• If	disturbance o	ean he restric	ed to south	side of roa	id and culturs	al denosits	to the
1.000111111011aatio11		orth can be av						
		nould be mon				oc. However	, son dista	ibarioc
	31	louid be mon	itorea as wor	t is complete	cu.			
GPS Coordinates (dans)			Yes :	х	No			
A44 1 1 1141 1					P11 4 1	3.6		
Attach additional of the second of the secon		entation, as a second		hotos, prof	files, etc.)	Yes	х	No

Monitor Number:	BRF	P-09-05										
Monitor Name:	B. R	. Pace, F	ł. K. Gill	bert								
Monitor Date(s):	Octo	ber 14, 2	2008									
Project: Site Name/Numbe	r:	T-25 R		provement	S							
Reason for Monito	ring:	Revisit	s to pre	viously red	orded site	s in th	ne area	of pote	ential e	effect fo	r road	
					Power Lin						rials and	
		Fuels C	Complex	and Critic	cal Infrastr	ucture	e Test F	Range	Compl	ex.		
Findings:	Тур	pe 1 x		Type 2			Type 3	3		1	Гуре 4	
Impact Agent(s):		Site ha	s been	impacted l	oy range fi	ires a	nd eros	ion ove	er the p	oast dec	cade.	
Significance of Im	pact:				d subsequ							
					ite. It app		essenti	ally the	same	as des	cribed in	
		the 198	35 site fo	orm and si	urvey repo	ort.						
Did disturbance of	•						taking p	Yes place a	 nd ma	No y have]
					es not app	oear to	o have	signific	antly c	hanged	I the	
_	overal	l characte	er or vis	ibility of th	is site.							
Work Halted? If yes, describe: _	N/A	Yes		No	Х							
Notifications: Date Contacted:	Non N/A	e require	d under	Type 1 Fi	nding.							
Contact Method:	E-m	ail	Pho	one	Official c	orres	sponde	nce. C	CN#:			
Cultural Materials If yes, describe:	Obsei	ved?	Yes	х	N	lo [·		rvey rep	port.	
_	Appro	ximately	30 flake	s are pres	ent. Obsid	dian i	s domir	nant, bι	ıt a fev	v fragm	ents of	
_	chalce	dony are	presen	t as well.	All artifact	s are	north o	f the ro	ad, 9 ı	meters	or more.	
Cultural Materials If yes, describe: _			Yes		N	lo [Х					
General Comment	s: _A	rtifacts a	re curre	ntly restric	ted to the	north	side of	f the ro	ad nea	ar Pole i	# 105.	
Recommendations	n	orth can	be avoi	ded, impa	ted to sout cts should k is compl	not b						
GPS Coordinates If yes, describe (d			ates): _	Yes	Х		No					
Attach additional (•	rranted (¡	ohotos, pr	rofile	s, etc.)	,	Yes	Х	No	

Monitor Number:	BRP-09-06
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	October 14, 2008
(-/-	, , , , , , , , , , , , , , , ,
Project:	T-25 Road Improvements
Site Name/Number	
Reason for Monito	
	improvements along the Power Line Road (T-25) between the Materials and
	Fuels Complex and Critical Infrastructure Test Range Complex.
	- Tuolo Complox and Chaoai initada dotaro Fott Hange Complox.
Findings:	Type 1 X Type 2 Type 3 Type 4
	.,po,po,po,po
Impact Agent(s):	Site has been impacted by range fires and erosion over the past decade.
Significance of Imp	
	adversely impacted the site. It appears essentially the same as described in
	the 1985 site form and survey report.
	and 1000 one form and out voy toport.
Did disturbance or	impact extend into undisturbed areas? Yes No X
	Some minor post-fire soil movement is currently taking place and may have covered
	come artifacts. However, this does not appear to have significantly changed the
	orne artifacts. However, this does not appear to have significantly changed the overall character or visibility of this site.
_(overall character or visibility of this site.
Work Halted?	Yes No x
If yes, describe: _ N	N/A
Notifications:	None required under Type 1 Finding.
Date Contacted:	N/A Finally Dhana Official company and area CCN#
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials (Observed? Yes X No
	The surface inventory appears similar to that reported in the 1985 survey report, but
	here is no evidence of 1988 shovel tests. Approximately 15 flakes are present, with
	nany different types of material represented (obsidian, chalcedony, fine-grained
	pasalt). No new chipped stone tools were observed. Artifacts are on both sides of the
<u>r</u>	oad within 3 meters. However, the densest concentration is to the south.
0.14	N
Cultural Materials (
If yes, describe:	No collection.
Camanal Carress to	Audificate and assumenths leaded within Ourston, of all 1911 1911 1911
General Comments	: Artifacts are currently located within 3 meters of either side of the road, but are
	concentrated to the south. Pole #105 is nearby. Test excavations in 1988
	revealed no subsurface cultural deposits at this location. No evidence of these
	previous excavations was observed.
Recommendations	· · · · · · · · · · · · · · · · · · ·
	excavations are recommended. However, soil disturbance should be monitored
	as work is completed.
GPS Coordinates o	ollected? Yes x No
lf yes, describe (da	tum, coordinates):
Attach additional d	ocumentation, as warranted (photos, profiles, etc.) Yes X No
If yes, describe:	Photos of site area.

Monitor Number:	BRP-09-07						
Monitor Name:	B. R. Pace, H. K. Gilbert						
Monitor Date(s):	October 6, 2008						
Project:	T-25 Road Improvements						
Site Name/Number							
	ason for Monitoring: Revisits to previously recorded sites in the area of potential effect for road						
reason for monito	improvements along the Power Line Road (T-25) between the Materials and						
	Fuels Complex and Critical Infrastructure Test Range Complex.						
	1 dolo Complex and Chaodi Inflactaciare 1 con Cango Complex.						
Findings:	Type 1 x Type 2 Type 3 Type 4						
Impact Agent(s):	Site has been impacted by range fires and erosion over the past decade.						
Significance of Imp							
	from a nearby range fire that burned in 2008.						
	r impact extend into undisturbed areas? Yes No x Post-fire soil movement has resulted in a deep accumulation of sand over this site						
	area. Nearly all of the artifacts noted in 1985 have been covered.						
	area. Nearry all of the artifacts hoted in 1903 have been covered.						
Work Halted? If yes, describe:	Yes						
Notifications:	None required under Type 1 Finding.						
Date Contacted:	N/A						
Contact Method:	E-mail Phone Official correspondence, CCN#:						
'							
Cultural Materials	Observed? Yes x No						
	Nearly all of the artifacts originally noted at this site are buried under a deep						
	accumulation of aeolian sand. Only two flakes of the twelve flakes originally recorded						
	were observed, one on each side of the road.						
Oultainel Materials	O-Ht10 V N W-						
Cultural Materials							
If yes, describe:	NO collection.						
General Comments	s: Artifacts are located on both sides of the road west of Pole # 77, but are very						
	sparse. Aeolian sands are accumulating rapidly in the area and may be covering						
	additional artifacts.						
Recommendations	If ground disturbance is limited in this area and all activities are monitored,						
	impacts should not be adverse.						
GPS Coordinates							
It yes, describe (da	atum, coordinates):						
Attach additional a	documentation as warranted (photos profiles etc.)						
	documentation, as warranted (photos, profiles, etc.) Yes x No						
If yes, describe:	Photos of site area.						

Monitor Number:	BRP-09-08
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	October 6, 2008
Project:	T-25 Road Improvements
Site Name/Numbe	
Reason for Monito	
	improvements along the Power Line Road (T-25) between the Materials and
	Fuels Complex and Critical Infrastructure Test Range Complex.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Site has been impacted by range fires and erosion over the past decade.
Significance of Im	
	adversely impacted the site. It appears essentially the same as described in
	the 1985 site form and survey report.
	
	r impact extend into undisturbed areas? Yes No x
	Some minor post-fire soil movement is currently taking place and may have covered
	some artifacts. However, this does not appear to have significantly changed the
_	overall character or visibility of this site.
Work Halted?	Yes No x
	N/A
<u> </u>	
Notifications:	None required under Type 1 Finding.
Date Contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials	Observed? Yes X No
	The surface inventory appears similar to that reported in the 1985 survey report, but
	there is no evidence of 1 x 2 meter test units excavated in 1988. Flakes were
_	observed in the road and on both sides of it. Approximately 75 flakes are present
	including obsidian, fine-grained basalt, and a variety of silicates. Artifacts noted in
	2005 (Desert Side-notched points, shell fragment) were not re-identified. Artifacts that
	were noted include a chalcedony scraper, obsidian stemmed-indented base point,
	nondiagnostic point fragment of obsidian, and a utilized flake.
-	
Cultural Materials	Collected? Yes No x
If yes, describe: _	No collection.
General Comment	s: Artifacts are currently located on both sides of the road around Pole #85, directly
	within the area of potential effect for road improvements. Test excavations
	conducted in 1988 revealed subsurface cultural deposits, including a buried fire
	hearth within this site area. However, no evidence of these pits is currently
	visible in the area. In addition, none of the 1988 test units were located in the
	current area of potential effect for road improvements
Recommendations	Additional test excavations should be completed in advance of ground
	disturbance. Work activities should also be monitored for new finds.
GPS Coordinates	
If yes, describe (da	atum, coordinates):
Attack additional	decumentation of warranted (photos profiles etc.)
	documentation, as warranted (photos, profiles, etc.) Yes x No Photos of site area, scraper, point fragment, and biface fragment.

Monitor Number:	BRP-09-09
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	October 14, 2008
B t t	T OF D I I
Project:	T-25 Road Improvements
Site Name/Number	
Reason for Monito	
	improvements along the Power Line Road (T-25) between the Materials and
	Fuels Complex and Critical Infrastructure Test Range Complex.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Site has been impacted by range fires and fire-fighting activities (fire breaks,
,	off-road vehicle use and equipment staging).
Significance of Imp	
	site but undisturbed cultural deposits appear to remain.
	impact extend into undisturbed areas? Yes No x
	Some minor post-fire soil movement is currently taking place and may have covered
	some artifacts. However, this does not appear to have significantly changed the
	overall character or visibility of this site. Fire-breaks and off-road vehicle use have
	caused additional impacts in narrow zones passing through the site area.
Work Halted?	Yes No x
ii yes, describe	N/A
Notifications:	None required under Type 1 Finding.
Date Contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
·	
Cultural Materials	
	The surface inventory appears similar to that reported in the 1985 survey report.
·	Approximately 35 flakes were observed, most far to the south of the road. However,
	one flake was observed in an ashy area only 10 meters from the road. Fire breaks
	cut through the area and artifacts are exposed within them, including two small
	pressure flakes about 20 meters from the road and many more at further distances.
·	These artifacts suggest that shallowly buried cultural materials are probably present in
_1	the area. One biface tip was also observed in the fire break.
Cultural Materials	Collected? Yes No x
If yes, describe:	
yes, describe:	10 dollocatori.
General Comments	s: Most artifacts are located far to the south of the road between Poles #81 and 82,
	outside the area of potential effect for road improvements. However, flakes are
	located approximately 10 meters south of the road in an ashy area where sand is
	accumulating and approximately 20 meters south of the road in a fire break.
Recommendations	· · · · · · · · · · · · · · · · · · ·
	the south remain undisturbed, impacts should not be adverse. However,
	monitoring should be conducted as work is completed.
CDS Coordinates	
	collected? Yes x No
	collected? Yes x Noatum, coordinates):
If yes, describe (da	

Monitor Number:	BRP	-09-10							
Monitor Name:	B. R.	. Pace, H. K. G	ilbert						
Monitor Date(s):		ber 16, 2008							
Project:		T-25 Road Im	provements						
Site Name/Number:	:	10-BT-1059							
Reason for Monitor	ring:	Revisits to pre	eviously reco	orded sites i	in the area of potential	effect for road			
					Road (T-25) between th				
		Fuels Comple	ex and Critica	al Infrastruc	ture Test Range Comp	lex.			
Findings:	Тур	e 1 x	Type 2		Type 3	Type 4			
Impact Agent(s):		Site appears	undisturbed	and has no	t been burned in the las	st three decades.			
Significance of Imp	act:				ssentially the same as o				
		1985 site forn			,				
Did disturbance or		ct extend into	undisturbe	d areas?	Yes	No x			
					ng road and power line ugh this area in historic				
	o be u	naistarbea. No	nies nave i	ourned tillo	ugn this area in historic	unies.			
Work Halted?		Yes	No	Х					
If yes, describe:	N/A								
Notifications:	None	e required unde	er Type 1 Fin	ding.					
Date Contacted:	N/A								
Contact Method:	E-ma	ail Ph	none	Official cor	respondence, CCN#:				
Cultural Materials (_	No					
					reported in the 1985 su				
					test pits excavated her				
					main site datum were r				
					h sides of it. Approxima				
					licates. Tools included chalcedony biface fragi				
	IOLUTIE	u point made o	i red chert a	nu a cruue	charcedony bilace fragi	Hent.			
Cultural Materials (If yes, describe: N			s	No	Х				
0 10 1		CC			Delegation of the second secon	1.04			
General Comments					road, between Poles #				
		directly within the area of potential effect for road improvements. Although 1988							
		test excavations did not reveal subsurface cultural materials, no test units were placed within the current area of potential effect.							
	<u> </u>	aced within the	current area	a or poteritie	ai ellect.				
Recommendations	: A	dditional test ex	cavations sl	hould be co	mpleted in advance of	ground			
	di	sturbance. In a	addition, moi	nitoring sho	uld be conducted as we	ork is completed.			
GPS Coordinates c If yes, describe (da			Yes	Х	No				
Attach additional d			**			X No			

Monitor Number:	וועם	2-09-11							
Monitor Name:	B. F	R. Pace,	H. K. Gi	lbert					
Monitor Date(s):		ober 14,							
Project:		T-25	Road Im	provements	5				
Site Name/Numbe	r:	10-B7	Г-1062						
Reason for Monito	oring:	Revis	its to pre	eviously rec	orded sites	in the area o	f potential	effect for road	
								ne Materials ar	nd
						cture Test Ra			
							<u> </u>		
Findings:	Ту	pe 1	(Type 2		Type 3		Type 4	
Impact Agent(s):		Site h	as been	impacted b	ov range fire	es, erosion, a	nd soil den	osition	
Significance of Im	nact:							site appears to	he
organicarios or an	paoti							survey report.	, 50
		63361	many me	same as c	iescribed ii	1 1116 1303 3110	5 IOIIII and	survey report.	
Did disturbance of	r imna	ct exte	nd into i	undisturbe	d areas?	Υ	es	No	х
If yes, describe:	-							_	^
		onal arti		son movem	ent is curre	illy taking pie	ace and ma	ty be covering	
_	addillic	Jilai ai ii	iacis.						
Work Halted?		Yes		No	Х				
	N/A	163		140					
ii yes, describe	IN/A								
Notifications:	Non	e requir	ed unde	r Type 1 Fi	ndina				
Date Contacted:	N/A		ca anac	турстті	nding.				
	E-m								
Contact Method:	I E-m				Off: -! -!		0014		
		iaii	Ph	one	Official co	rresponden	ce, CCN#:		
Cultural Matariala	ı					<u> </u>	ce, CCN#:		
Cultural Materials	Obse	rved?	Yes	x	No	· 🗆	·		
If yes, describe: _	Obse	rved? urface ir	Yes	x x appears si	No milar to tha	t reported in t	he 1985 su		
If yes, describe: _	Obser The si	rved? urface ir	Yes nventory e flakes a	x x appears single revisible r	No milar to tha now since the	t reported in the fire has rei	he 1985 su moved all o	f the vegetation	
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If yes, describe: _ - - - -	Obsertification of the strain	rved? urface ir igh more ximately of the ro s are als ets. Chip	Yes nventory e flakes a y 100 flal pad, but a o beginn oped stor	appears single results of obside a concentrating to accurate tools obside a cools	Momilar to that now since the dian and valition is presumulate in lesserved on the miles.	t reported in the fire has related in the solution to the solution areas, possible surface in	he 1985 su moved all o s were obse uth of the ro ssibly hiding cluded an E	of the vegetation of the veget	e
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If yes, describe: _ - - - - - - Cultural Materials	Obset The statement of	rved? urface ir igh more ximately of the ro s are als ets. Chip ed point rtzite sc	Yes nventory e flakes a y 100 flal pad, but a o beginn oped stor fragmen raper.	appears single revisible r	milar to tha now since the dian and va tion is pres imulate in le served on t It Lanceolar	t reported in the fire has reprious silicates ent to the sour ow areas, posite point fragment	he 1985 su moved all o s were obse uth of the ro ssibly hiding cluded an E	of the vegetation of the veget	e
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If yes, describe: _ - - - - - Cultural Materials If yes, describe: _	Obsein The sign althour Appropriate Approp	rved? urface ir igh more eximately of the ro is are als ets. Chip ed point rtzite so cted? Illection.	Yes nventory e flakes a y 100 flat bad, but a o beginn oped stor fragmer raper. Yes	appears sing a concentrating to accume tools obtain, Humbold	milar to than now since the dian and valution is presumulate in leserved on the Lanceolar No	t reported in the fire has reprious silicates ent to the sour areas, posite point fragm	he 1985 su moved all o s were obse ath of the ro esibly hiding cluded an E ment, a bifact een Poles #	of the vegetation of the veget	e
If yes, describe: _ - - - - - Cultural Materials If yes, describe: _	Obser The statement of	rved? urface ir igh more eximately of the ro is are als its. Chip ed point rtzite scr cted? Illection. Artifacts Irrectly v	Yes nventory e flakes a y 100 flat oad, but a o beginn oped stor fragmer raper. Yes are locat within the	appears sing are visible relationship to accume tools object. Head on both example are a of possible appears sing to accume tools object.	milar to that now since the dian and variation is presumulate in leserved on the lt Lanceolar Notation is desired in leserved on the lt Lanceolar sides of the tential effective in the lanceolar la	t reported in the fire has reprious silicates ent to the sour wareas, positive point fragment to the surface interpoint fragment to the surface interpoint fragment was also between the road, between the point for road important to the point fragment was also between the point fragm	he 1985 su moved all o s were obse uth of the ro ssibly hiding cluded an E nent, a bifact een Poles #	of the vegetation of the veget	e
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If yes, describe: _ _ _ _ _ Cultural Materials If yes, describe: _ General Comment	Obsel The si althou Appro north o Sands artifac notche a quai Collect No co s:f	rved? urface ir igh more ximately of the ro s are als ets. Chip ed point rtzite scr cted? Ilection. Artifacts directly v f ground mpacts ncluding nore tha	Yes nventory e flakes a y 100 flat bad, but a o beginn oped stor fragmer raper. Yes are locat within the	appears single response to the area of postance is limited to adverge avartions with the area from the area from the area of postance is limited to the adverge avartions with the area from the area	milar to than how since the dian and variation is presented on the served on the served on the tential effect and in this area. However, ill be necessed the existing the served on the existing the served on the existing the served on the se	t reported in the fire has reprious silicates ent to the sour areas, positive point fragment to the surface in the point fragment to the point fragment t	he 1985 sumoved all of swere observath of the rossibly hiding cluded an Elent, a bifaction of the provements of tivities are investigation.	of the vegetation erved. Most are pad as well. It is graditional elko Cornerate fragment, and the fact that is a fact that is	e
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Monitor Number:	BRP	2-09-12						
Monitor Name:	B. R.	. Pace, H. K. Gilbert						
Monitor Date(s):	Octo	ber 23, 2008						
Project:		T-25 Road Improvements						
Site Name/Numbe	r:	10-BM-115						
Reason for Monito	oring:	Revisits to previously recorded sites in the area of potential effect for road						
		improvements along the Power Line Road (T-25) between the Materials and						
		Fuels Complex and Critical Infrastructure Test Range Complex.						
Findings:	Тур	pe 1 x Type 2 Type 3 Type 4						
Impact Agent(s):		Site has been impacted by range fires and erosion over the past decade.						
Significance of Im	pact:	Not significant. Fires and subsequent erosion do not appear to have						
		adversely impacted the site. It appears essentially the same as described in						
		the 1985 site form and survey report.						
Did disturbance o	r impa	ct extend into undisturbed areas? Yes No X						
If yes, describe:	Some	minor post-fire soil movement is currently taking place but it does not appear to						
_	have s	ignificantly changed the overall character or visibility of this site.						
		\square						
Work Halted?		Yes No x						
If yes, describe: _	N/A							
Notifications:	None	e required under Type 1 Finding.						
Date Contacted:	N/A	required under Type 11 inding.						
Contact Method:	E-ma	ail Phone Official correspondence, CCN#:						
Contact Wethou.	L-III	Thone Official correspondence, con.						
Cultural Materials								
If yes, describe: _		urface inventory appears similar to that reported in the 1985 survey report.						
<u>_</u>		kimately 11 flakes were observed, all obsidian. No new chipped stone tools						
_	were o	bserved. All artifacts are at least 50 meters east of the road.						
Cultural Materials								
If yes, describe: _	No coll	ection.						
General Comment	le: Λ	rtifacts are restricted to the east side of the road and are outside the area of						
General Comment		Artifacts are restricted to the east side of the road and are outside the area of potential effect for road improvements, more than 50 meters away.						
	_pt	Sterillar effect for road improvements, more than 50 meters away.						
Recommendations	s: <u>N</u>	o additional investigations recommended.						
GPS Coordinates If yes, describe (d								
Attach additional (docum	entation, as warranted (photos, profiles, etc.) Yes No X						

		2-09-13						
Monitor Name:	B. R	. Pace, I	H. K. Gill	bert				
Monitor Date(s):	_	ber 6, 2						
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.000					
Project:		T-25 F	Road Imr	provements	3			
Site Name/Numbe	ır.	10-BT						
Reason for Monito				viously roo	orded cites	s in the area of	notontial of	fact for road
Reason for Monito	ornig.							
								Materials and
		<u> Fuels</u>	Complex	and Critic	al Infrastru	ıcture Test Rar	nge Comple	X.
			_					
Findings:	Тур	pe 1 x		Type 2		Type 3		Type 4
		0'' 1						
Impact Agent(s):						res and erosio		
Significance of Im	ıpact:							te appears to be
		essen	tially the	same as d	lescribed in	n the 1985 site	form and si	urvey report.
Did disturbance o	r impa	ct exten	nd into u	ındisturbe	d areas?	Ye	es	No x
If yes, describe:	Some	minor po	ost-fire s	oil movem	ent is curre	ently taking pla	ce and may	be covering
<u>-</u>	additio	nal artifa	acts.					
_								
Work Halted?		Yes		No	х			
If yes, describe:	N/A							
	14// (
Notifications:	Non	e require	ed under	Type 1 Fir	ndina			
Date Contacted:	N/A	o roquire	ou unuoi	Турсттп	nung.			
		-:1	Dh					I
Contact Method:	E-m	all	PIN				- CCN#.	
				one	Official co	orrespondenc	e, CCN#:	
Cultural Matariala	Oboor	nad2				· —	e, CCN#:	
Cultural Materials			Yes	х	N	o	,	
Cultural Materials If yes, describe:	The su	urface in	Yes	x appears sir	N omilar to tha	o at reported in the	ne 1985 surv	
	The su	urface in s no evid	Yes ventory a	x appears sir 1988 test	N omilar to that excavation	o at reported in these and fire-crace	ne 1985 surv cked rock re	ported originally
	The su	urface in s no evid	Yes ventory a	x appears sir 1988 test	N omilar to that excavation	o at reported in the	ne 1985 surv cked rock re	ported originally
	The su there i in 198	urface in s no evid 5 is no lo	Yes ventory a dence of onger ap	x appears sind 1988 test	Note that the excavation the surface	o at reported in the as and fire-crace. Approximate	ne 1985 surv cked rock re ely 25 flakes	ported originally
	The su there i in 198 domina	urface in s no evid 5 is no lo ated by	Yes ventory a dence of onger ap obsidian	x appears sin 1988 test parent on	Milar to that excavation the surface Corner-neren	o at reported in these and fire-crace. Approximate otched point fra	ne 1985 surv cked rock re ely 25 flakes agments ob	ported originally s are present, served in 2005
	The su there i in 198s domina were a	urface in s no evid 5 is no lo ated by o also re-id	Yes ventory a dence of onger ap obsidian dentified,	x appears sind 1988 test aparent on 1980. Two Elkonas was the	Milar to that excavation the surface o Corner-ne e rebar sta	o at reported in the sand fire-crace. Approximate otched point frake warking the	ne 1985 surv cked rock re ely 25 flakes agments ob	ported originally are present,
	The su there i in 198s domina were a	urface in s no evid 5 is no lo ated by o also re-id	Yes ventory a dence of onger ap obsidian dentified,	x appears sin 1988 test parent on	Milar to that excavation the surface o Corner-ne e rebar sta	o at reported in the sand fire-crace. Approximate otched point frake warking the	ne 1985 surv cked rock re ely 25 flakes agments ob	ported originally s are present, served in 2005
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If yes, describe: _ - - - - Cultural Materials	there is in 1983 domination were a are so	urface in s no evide 5 is no lo ated by also re-iduth of the cted?	Yes ventory a dence of onger ap obsidian dentified, te road, a	x appears sin 1988 test parent on Two Elko as was the approximat	Milar to that excavation the surface o Corner-ne e rebar sta	o at reported in the sand fire-crace. Approximate otched point frake marking the ters.	ne 1985 surv cked rock re ely 25 flakes agments ob	ported originally s are present, served in 2005
If yes, describe: _ - - - - -	there is in 1983 domination were a are so	urface in s no evide 5 is no lo ated by also re-iduth of the cted?	Yes ventory a dence of onger ap obsidian dentified, te road, a	x appears sin 1988 test parent on Two Elko as was the approximat	milar to that excavation the surface Corner-neer rebar stately 27 met	o at reported in the sand fire-crace. Approximate otched point frake marking the ters.	ne 1985 surv cked rock re ely 25 flakes agments ob	ported originally s are present, served in 2005
If yes, describe: _ - - - - Cultural Materials If yes, describe: _	there is in 198 dominal were a are so Collect No col	urface in s no evide 5 is no lo ated by also re-iduth of the cted?	Yes ventory a dence of onger ap obsidian dentified, te road, a	x appears sind 1988 test apprent on a swas the approximate	milar to that excavation the surface of Corner-note rebar stately 27 met	o at reported in the sand fire-crace. Approximate otched point frake marking the ters.	ne 1985 survicked rock re ely 25 flakes agments ob e 1988 site o	ported originally are present, served in 2005 datum. Artifacts
If yes, describe: _ - - - - Cultural Materials	there i in 198 domina were a are so Collect No col	urface in s no evide 5 is no lo ated by also re-iduth of the cted?	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes	x appears sin 1988 test parent on . Two Elko as was the approximat	milar to the excavation the surface of Corner-neer rebar stately 27 met	o	ne 1985 survicked rock re ely 25 flakes agments ob e 1988 site o	ported originally are present, served in 2005 datum. Artifacts
If yes, describe: _ - - - - Cultural Materials If yes, describe: _	there i in 198 domina were a are so Collect No col	urface in s no evide 5 is no lo ated by also re-iduth of the cted?	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away.	milar to the excavation the surface of Corner-ne rebar stately 27 met Ne south side.	o	ne 1985 survicked rock re ely 25 flakes agments ob e 1988 site o	ported originally are present, served in 2005 datum. Artifacts #84 and 85 but fied during test
If yes, describe: _ - - - - Cultural Materials If yes, describe: _	there is there is in 198 domination were a are so Collect No collects: A a a a a	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection.	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ast 27 me ons at this	x appears sin 1988 test sparent on 1. Two Elko as was the approximate cted to the eters away, s location i	milar to the excavation the surface of Corner-ne rebar stately 27 met Ne south side Buried cun 1988. T	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road arultural deposits hough no evide	ne 1985 survicked rock relely 25 flakes agments object 1988 site of the second Poles were identifience of these	ported originally are present, served in 2005 datum. Artifacts #84 and 85 but fied during test se test pits is
If yes, describe: _ - - - - Cultural Materials If yes, describe: _	there is there is in 198 domination were a are so Collect No collects: A a a a a	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection.	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ast 27 me ons at this	x appears sin 1988 test sparent on 1. Two Elko as was the approximate cted to the eters away, s location i	milar to the excavation the surface of Corner-ne rebar stately 27 met Ne south side Buried cun 1988. T	o	ne 1985 survicked rock relely 25 flakes agments object 1988 site of the second Poles were identifience of these	ported originally are present, served in 2005 datum. Artifacts #84 and 85 but fied during test se test pits is
If yes, describe: _ - - - Cultural Materials If yes, describe: _ General Comment	there i in 198 domina were a are so Collect No col ts: A a e a	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts are at lead excavation apparent	Yes ventory a dence of onger ap obsidian dentified, e road, a Yes are restri ast 27 me ons at this today, th	x appears sing 1988 test apprent on a substitute approximate appro	milar to the excavation the surface of Corner-neer rebar stately 27 met Neer south side of Buried cun 1988. To addition	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road arultural deposits hough no evide onal buried ma	ne 1985 survicked rock relely 25 flakes agments object 1988 site of the second Poles were identifience of these terials remains	ported originally are present, served in 2005 datum. Artifacts #84 and 85 but fied during test se test pits is ins.
If yes, describe: _ - - - - Cultural Materials If yes, describe: _	there is there is in 198 doming were a are so Collects: A a a a a a a a a a a a a a a a a a a	urface in s no evid 5 is no lo ated by also re-id uth of the cted? Election. Artifacts a re at lead excavation in parent	Yes ventory a dence of onger ap obsidian dentified, te road, a Yes are restri test 27 me ons at this today, the	x appears sing 1988 test apprent on a sum of the province of t	milar to the excavation the surface of Corner-nie rebar stately 27 met Nie south side. Buried cun 1988. Til for addition ricted to the	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the same are north side of	ne 1985 survicked rock relely 25 flakes agments object 1988 site of the service of these terials remains the road and the	#84 and 85 but fied during test ins.
If yes, describe: _ - - - Cultural Materials If yes, describe: _ General Comment	there i in 198 domina were a are so Collect No col ts: A a a e a s: Iff	urface in s no evidence in s no evidence in s no evidence in s no lo ated by ealso re-identh of the cted? Illection. Artifacts a re at lead excavation in parent in second leposits I	Yes ventory a dence of onger ap obsidian dentified, ae road, a Yes are restri ast 27 me ons at this today, the disturba located t	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away. In a solution in a potential of the south	milar to the excavation the surface of Corner-note rebar stately 27 met Note south side. Buried cun 1988. To I for addition are avoid	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the term of the control	round Poles were identials remaintails remaintails remaintails with the road an annual not be	#84 and 85 but fied during test ins.
If yes, describe: _ - - - Cultural Materials If yes, describe: _ General Comment	there i in 198 domina were a are so Collect No col ts: A a e a a s: Iff d H	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts a re at lea excavation pparent f ground leposits I lowever,	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ast 27 me ons at this today, the disturba located t , since bi	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away is location in the potential ince is restructed culturied culturing the south uried culturing since is restructed to the south uried culturing since is restructed culturing since is restricted since is restricted culturing since is restricted si	milar to the excavation the surface of Corner-ne rebar stately 27 met Ne south side. Buried ou n 1988. To I for addition are avoid ral materia	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the term of the same of	round Poles were identials remainfuld not be reviously do	#84 and 85 but fied during test ins.
If yes, describe: _ - - - Cultural Materials If yes, describe: _ General Comment	there i in 198 domina were a are so Collect No col ts: A a e a a s: Iff d H	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts a re at lea excavation pparent f ground leposits I lowever,	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ast 27 me ons at this today, the disturba located t , since bi	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away is location in the potential ince is restructed culturied culturing the south uried culturing since is restructed to the south uried culturing since is restructed culturing since is restricted since is restricted culturing since is restricted si	milar to the excavation the surface of Corner-ne rebar stately 27 met Ne south side. Buried ou n 1988. To I for addition are avoid ral materia	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the term of the control	round Poles were identials remainfuld not be reviously do	#84 and 85 but fied during test ins.
If yes, describe: _ - - - Cultural Materials If yes, describe: _ General Comment	there i in 198 domina were a are so Collect No col ts: A a e a a s: If d h m	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts a re at lea excavation pparent f ground leposits I dowever, nonitorin	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ast 27 me ons at this today, the disturba located t , since bi	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away is location in the potential of the south uried cultured cultured cultured cultured cultured conductives appears a south a south uried cultured cu	milar to the excavation the surface of Corner-ne rebar stately 27 met Ne south side. Buried ou n 1988. To I for addition are avoid ral materia	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the tendent of the control of the cont	round Poles were identials remainfuld not be reviously do	#84 and 85 but fied during test ins.
If yes, describe: _ - - - Cultural Materials If yes, describe: _ General Comment	there i in 198 domina were a are so Collect No col ts: A a e a a s: If d h m	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts a re at lea excavation pparent f ground leposits I dowever, nonitorin	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ast 27 me ons at this today, the disturba located t , since bi	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away is location in the potential ince is restructed culturied culturing the south uried culturing since is restructed to the south uried culturing since is restructed culturing since is restricted since is restricted culturing since is restricted si	milar to the excavation the surface of Corner-ne rebar stately 27 met Ne south side. Buried ou n 1988. To I for addition are avoid ral materia	o	round Poles were identials remainfuld not be reviously do	#84 and 85 but fied during test ins.
If yes, describe: _ - - - Cultural Materials If yes, describe: _ General Comment	there is there is in 198 dominated were as are so the collection of the collection o	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts a re at lead excavation parent f ground leposits I dowever, nonitorin tted?	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ist 27 me ons at this today, th disturba located t , since bi g should	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away is location in the potential of the south uried cultured cultured cultured cultured cultured conductives appears a south a south uried cultured cu	milar to the excavation the surface of Corner-neer rebar stately 27 met excavation the south side of the excavation and the excavation that is a south side of the excavation to the excavation and the excavation that is a south side of the excavation th	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the tendent of the control of the cont	round Poles were identials remainfuld not be reviously do	#84 and 85 but fied during test ins.
If yes, describe:	there is there is in 198 dominated were as are so the collection of the collection o	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts a re at lead excavation parent f ground leposits I dowever, nonitorin tted?	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ist 27 me ons at this today, th disturba located t , since bi g should	x appears sin 1988 test parent on . Two Elko as was the approximate cted to the eters away is location in the potential of the south uried cultured cultured cultured cultured cultured conductives appears a south a south uried cultured cu	milar to the excavation the surface of Corner-neer rebar stately 27 met excavation the south side of the excavation and the excavation that is a south side of the excavation to the excavation and the excavation that is a south side of the excavation th	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the tendent of the control of the cont	round Poles were identials remainful not be reviously do	#84 and 85 but fied during test ins.
If yes, describe:	there is there is in 198 doming were a are so Collect No collect at the month of the collect at	urface in s no evide 5 is no lo ated by also re-iduth of the cted? Illection. Artifacts a re at lea excavation parent f ground leposits I lowever, nonitorin ted?	Yes ventory a dence of onger ap obsidian dentified, ie road, a Yes are restri ist 27 me ons at this today, th disturba located t , since be g should	x appears sin 1988 test parent on 1. Two Elko as was the approximate cted to the eters away. In a south a south a south a south a conduction of the	milar to the excavation the surface of Corner-note rebar stately 27 met excavation the south side of t	o at reported in the sand fire-crace. Approximate otched point frake marking the ters. o x e of the road are altural deposits hough no evide onal buried marking the tended point frake marking the ters. No x	round Poles were identials remainful not be reviously do	#84 and 85 but fied during test ins.

Monitor Number:	BRP-09-14						
Monitor Name:	B. R. Pace, H. K. Gilbert						
Monitor Date(s):	October 14, 2008						
Duningto	T OF Deed leaves and						
Project:	T-25 Road Improvements						
Site Name/Number:							
Reason for Monitor	<u> </u>						
	improvements along the Power Line Road (T-25) between the Materials and						
	Fuels Complex and Critical Infrastructure Test Range Complex.						
Findings:	Type 1 X Type 2 Type 3 Type 4						
Impact Agent(s):	Site has been impacted by range fires and erosion over the past decade.						
Significance of Imp							
o.gp	essentially the same as described in the 1985 site form and survey report.						
	occonticing the dame as accompanied in the reasonic form and darvey report.						
Did disturbance or	impact extend into undisturbed areas? Yes No x						
If yes, describe: S	ome minor post-fire soil movement is currently taking place and may be covering						
	dditional artifacts.						
Work Halted?	Yes No x						
If yes, describe: N	//A						
Notifications:	None required under Type 1 Finding.						
Date Contacted:	N/A						
Contact Method:	E-mail Phone Official correspondence, CCN#:						
	he surface inventory appears similar to that reported in the 1985 survey report,						
	Ithough more flakes are visible now since the fire has removed all of the vegetation.						
	pproximately 30 flakes of obsidian, various silicates, and grey ignimbrite were						
	bserved. All are south of the road, at least 48 meters from the road. However,						
·	ands are beginning to accumulate in low areas, possibly hiding additional artifacts.						
·	chipped stone tools observed on the surface included one large notched point						
<u></u>	agment.						
Cultural Materials C If yes, describe: <u>N</u>							
Comoral Commonto	. Autificate and restricted to the possible side of the read in the vicinity of Dale # 70						
General Comments	Artifacts are restricted to the south side of the road in the vicinity of Pole # 70						
	are at least 48 meters away.						
Recommendations							
	monitored, impacts should not be adverse. However, additional investigations						
	possibly including test excavations will be necessary if road improvements will						
	extend more than a few meters from the existing road bed.						
GPS Coordinates c If yes, describe (da							
A44	and the second of the second o						
	ocumentation, as warranted (photos, profiles, etc.) Yes x No						
If yes, describe:	Photos of site area and large notched point fragment.						

Monitor Name: B.	RP-09-21 R. Pace, J.B. Braun, H. K. Gilbert 30/09
Project: Site Name/Number: Reason for Monitoring	BEA-09-05: Ordnance SurveysRailcar Area 10-BT-2050 (LMIT-96-51-04) Assessment of potential impacts of ongoing ordnance surveys and cleanup, including cross-country geophysical surveys with ATV and cart.
Findings:	ype 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impact	No new impacts observed. N/A
Did disturbance or imp	pact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
Notifications: N/A Date Contacted: Contact Method: E-m	
	erved? Yes x No act assemblage appeared similar to original recording with a dispersed scatter of oximately 50 larger obsidian flakes. No new artifacts were discovered.
Cultural Materials Colle If yes, describe: No c	
General Comments:	Site appears to be essentially unchanged from original recording. GPS locational information collected for site boundary.
Recommendations: -	Extensive ground disturbance during future cleanup activities should be avoided to protect undisturbed subsurface cultural deposits. Additional data collection prior to cleanup may be necessary. Geophysical data (magnetometer) collected from this location should be analyzed for value in the archaeological investigation.
GPS Coordinates colle If yes, describe (datum	
Attach additional docu	mentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number:	BRP.	-09-22									
Monitor Name:	B. R.	. Pace, J. B	B. Braun,	H. K. G	ilbert						
Monitor Date(s):	6/30/		,		-						
	0,00,										
Project:		BEA-09-0)5: Ordna	nce Su	rvevsR	ailcar	Area				
Site Name/Number		10-BT-20									
Reason for Monito		Assessme				f ongo	ing ord	nanco ci	ID (O) (C (and clos	20110
Reason for Monitor	illig.										лпир,
		including	cross-co	untry ge	eopnysica	ai surv	eys wit	n A i v ar	na cart.		
Findings.	T	. 4	-			Г	T	<u> </u>		T	- 4
Findings:	Тур	e 1 x		ype 2		L	Type 3	•		Тур)e 4
I		NI		L							
Impact Agent(s):		No new ir	npacts of	oserved	1.						
Significance of Imp	act:	N/A									
Did disturbance or	impad	ct extend i	nto undi	sturbe	d areas?	•		Yes		No	Х
If yes, describe:											
		_									
Work Halted?		Yes		No	Х						
If yes, describe:											
_											
Notifications:	N/A										
Date Contacted:											
Contact Method:	F-mai	il	Phone		Official	corres	nonde	nce, CCI	N#-		
Contact Method.	L-IIIai	" ∟	I Hone		Official	COLLES	ponde	iice, coi	<i>π</i> .		
Cultural Materials (Obsor	vod2	Yes	х		No [
					=	L			al: a :a a :u		
If yes, describe: _/											
		cimately 40									riginal
		tum was re			ore noted	l but n	ot colle	cted durii	ng the	original	
<u>r</u>	<u>ecordi</u>	ing was als	o observ	ed.							
			_			_					
Cultural Materials (Collec	ted?	Yes		1	No	Х				
If yes, describe:	No coll	lection.									
_											
General Comments	s: Si	ite appears	to be es	sentially	y unchan	iged fr	om orig	ginal reco	rding.	GPS	
	lo	cational inf	ormation	collect	ed for site	e bour	ndary a	s well as	origina	l map d	atum.
	-										
Recommendations	: E	xtensive gr	ound dist	turbanc	e during	future	cleanu	p activitie	s shou	ld be av	voided
		protect un									
		earths). Ac								_	
		Geophysical									
			· · · · · · · · · · · · · · · · · · ·						311 51100	ald be	
	_ar	nalyzed for	value in	ıne arcı	naeologio	cai inv	estigati	ON.			
ODO O!! (11 4	۱IO		V			M.				
GPS Coordinates of				Yes	Χ		No				
If yes, describe (da	itum, c	coordinate	es):								
	_								_	_	—
Attach additional d	ocum	entation, a	as warra	nted (p	hotos, p	rofiles	s, etc.)	Ye	es		No x
If yes, describe:											

Monitor Number:	BRP-09-23
Monitor Name:	B. R. Pace, J. B. Braun, H. K. Gilbert
Monitor Date(s):	6/30/09
Project:	BEA-09-05: Ordnance SurveysRailcar Area
Site Name/Number:	
Reason for Monitor	
ixeason for Monitor	• • • • • • • • • • • • • • • • • • • •
	including cross-country geophysical surveys with ATV and cart.
Findings:	Type 1 x Type 2 Type 3 Type 4
i iliuliigs.	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s):	No new impacts observed.
Significance of Imp	pact: N/A
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe:	Yes No x
N. 4161 41	N/A
_	N/A
Date Contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
S	Artifact assemblage appeared similar to original recording with a concentrated scatter of nearly 100 flakes and small activity areas marked by fire-cracked rock. All
<u>_n</u>	naterials are concentrated on the lowest terrace along a pronounced but abandoned
_ C	channel. Original site datum (yellow-capped rebar stake) was relocated. New
а	artifacts observed included a Cottonwood Triangular point and two small biface
fi	ragments.
Cultural Materials (If yes, describe: _ N	
General Comments	
	easier to see at this site. Debitage, fire-cracked rock, and chipped stone tool
	inventories are expanded as a result. GPS locational information collected for
	site boundary as well as datum and new artifacts.
Recommendations	Extensive ground disturbance during future cleanup activities should be avoided
	to protect undisturbed subsurface cultural deposits and features (e.g. fire
	hearths). Additional data collection prior to cleanup may be necessary.
	Geophysical data (magnetometer) collected from this location should be
	analyzed for value in the archaeological investigation.
	analyzed for value in the archaeological investigation.
GPS Coordinates c	ollected? Yes X No
If yes, describe (da	
ii yee, aesoiibe (ua	
Attach additional d	ocumentation, as warranted (photos, profiles, etc.)
ii yes, describe F	Photos of newly discovered artifacts on file.

Monitor Number:	BRP-09-24						
Monitor Name:	B. R. Pace, J. B. Braun, H. K. Gilbert						
Monitor Date(s):	6/30/09						
Project:	BEA-09-05: Ordnance SurveysRailcar Area						
Site Name/Number:							
Reason for Monitor	/						
reason for Monitor							
	including cross-country geophysical surveys with ATV and cart.						
er e							
Findings:	Type 1 X Type 2 Type 3 Type 4						
Impact Agent(s): Significance of Imp	No new impacts observed. N/A						
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No x						
Work Halted? If yes, describe:	Yes No x						
Notifications:	N/A						
Date Contacted:							
Contact Method:	E-mail Phone Official correspondence, CCN#:						
ı	. , ,						
Cultural Materials C	Observed? Yes X No						
	Artifact assemblage appeared similar to original recording with a dense and diverse						
	catter of several hundred flakes and small activity areas marked by fire-cracked rock,						
	urned bone, pottery, scrapers, small arrow points, and many general utility biface						
	ragments. Artifacts are concentrated on the lowest terrace along a pronounced but						
_a	bandoned channel. New artifacts observed included another scatter of Inter-						
n	nountain Ware pottery, a scraper, four biface fragments, a Cottonwood Triangular						
	oint base and a Desert Side-notched point base.						
<u>_ F</u>	one bace and a Become one motorical point bace.						
Cultural Materials C	Collected? Yes No x						
If yes, describe: N							
ii yes, uesciibe. <u>I</u>	IO CONGOLION.						
General Comments	: Range fire in 2003 (?) has removed larger shrub vegetation, making artifacts						
General Guillilellis							
	easier to see at this site. Debitage, fire-cracked rock, and chipped stone tool						
	inventories are expanded as a result. GPS locational information collected for						
	site boundary as well as datum and new artifacts.						
_							
Recommendations:	Extensive ground disturbance during future cleanup activities should be avoided						
	to protect undisturbed subsurface cultural deposits and features (e.g. fire						
	hearths). Additional data collection prior to cleanup may be necessary.						
	Geophysical data (magnetometer) collected from this location should be						
	analyzed for value in the archaeological investigation.						
	analyzod for value in the alchaeological investigation.						
GPS Coordinates c	ollected? Yes X No						
If yes, describe (da	tum, coordinates):						
Attack additional d	ocumentation as warranted (photos profiles etc.)						
	ocumentation, as warranted (photos, profiles, etc.) Yes X No						
ıt yes, describe: <u> </u>	Photos of newly discovered artifacts on file.						

Monitor Number:	BRP-09-27
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	August 20, 2009
Project: Site Name/Number: Reason for Monitor	
Findings:	Type 1 Type 2 Type 3 Type 4
Impact Agent(s): Significance of Imp	No new impacts have occurred. N/A
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
Date Contacted:	N/A E-mail Phone Official correspondence, CCN#:
	No 1984 the site was named "Hellofasite" for the dense, diverse scatter of artifacts and nique rock walls recorded there.
Cultural Materials C	
General Comments	Visual inspection of site and rock walls indicates no impact resulting from explosive testing. Surface artifacts appear undisturbed and the site does not appear to be subject to unauthorized visitation. Powerline repair has cause extensive soil disturbance but appears to be restricted to areas previously impacted adjacent to the poles.
Recommendations:	Continue monitoring for impacts associated with the nearby Test Range as well as powerline maintenance/repair.
GPS Coordinates could be described in the coordinates of the coordinat	
Attach additional de lf yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No X

A: Historic Archaeological Sites

Monitor Number:	HKG-09-01
Monitor Name:	Hollie K. Gilbert and Julie B. Braun
Monitor Date(s):	3/7/09
Project: Site Name/Number: Reason for Monitoring	Routine Monitoring Lillie Wakefield Homestead/BEA-07-32-107 Assessment of potential impacts of ongoing use of road T-16.
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impac	On going rodent activity Large badger holes noted around and under cistern and foundation. An abundance of halogeton was also noted in the area.
Did disturbance or im If yes, describe:	pact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
_	N/A
Date Contacted:	- " D O(" : OOV!!
Contact Method:	E-mail Phone Official correspondence, CCN#:
	served? Yes x No infacts appear to be undisturbed. The new artifact was noted; suspender hardware with a patent date of 7-14-1908.
Cultural Materials Col	
General Comments:	Road T-16 has been heavily used in the past by ranchers and USGS personnel. From the abundance of weeds growing in the road bed, it appears that T-16 did not see much traffic this year.
Recommendations:	None
GPS Coordinates colle If yes, describe (datur	
Attach additional docu	umentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number: _⊢	IKG-09-02		
Monitor Name: ⊢	Hollie K. Gilbert and Julie B. Braun		
Monitor Date(s): 8	7/7/09		
Project: Site Name/Number: Reason for Monitoring	Routine Monitoring BEA-07-32-105		
Findings: T	Type 1 X Type 2 Type 3 Type 4		
Impact Agent(s): Significance of Impact	None noted. Halogeton was also noted in the area.		
Did disturbance or impact extend into undisturbed areas? Yes No x			
Work Halted? If yes, describe:	Yes No x		
Date Contacted:	N/A E-mail Phone Official correspondence, CCN#:		
Cultural Materials Observed? Yes x No If yes, describe: Artifacts appear to be undisturbed.			
Cultural Materials Coll If yes, describe: No	ected? Yes No x collection.		
General Comments:	Road T-16 has been heavily used in the past by ranchers and USGS personnel. From the abundance of weeds growing in the road bed, it appears that T-16 did not see much traffic this year.		
Recommendations:	None		
GPS Coordinates colle If yes, describe (datum			
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No x If yes, describe:			

Monitor Number:	HKG	-09-03								
Monitor Name:	Hollie	K. Gil	bert and	Julie B. E	Braun					
Monitor Date(s):	8/7/0	9								
Project: Site Name/Number:		Routir	ne Monit 07-32-10							
Reason for Monitor					Limpacte	of or	agoing us	e of road T-	16	
Reason for Monitor	illig.	Asses	Sillelli C	проценца	ппрасіѕ	01 01	igoling us	e oi ioau i-	10.	
Findings:	Туре	1 x		Type 2			Type 3	3	Ту	pe 4
Impact Agent(s): Significance of Imp	act:	None N/A	noted.							
Did disturbance or If yes, describe:	impact	exten	d into u	ndisturb	ed areas?	?		Yes	No	Х
Work Halted? If yes, describe:		Yes		No	Х					
Natifications	NI/A									
Notifications:	N/A									
Date Contacted:	1			1						
Contact Method:	E-m	ail	Pho	one	Official	corre	esponde	nce, CCN#:		
Cultural Materials (If yes, describe:			Yes ar to be	x undisturb		No				
Cultural Materials (Callacte	A2	Yes			No				
			162			NO	Х			
If yes, describe: _	No coll	ection.								
General Comments	. P	nad T ₋ 1	IA has h	oon hoov	ilv usad in	the	naet hy r	anchers and	IIISGS na	reonnel
General Comments								d bed, it app		
						iiig ii	ii liie ioad	и вей, п арр	ears mac	1 - 10 ulu
	nc	ot see r	nuch tra	ffic this ye	ear.					
Recommendations	. N	one								
Recommendations	. 110	JIIE								
GPS Coordinates c If yes, describe (da			ates):	Yes			No	х		
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No x If yes, describe:										

Monitor Number:	HKG-09-06		
Monitor Name:	Hollie K. Gilbert and Julie B. Braun		
Monitor Date(s):	3/26/09		
Project: Site Name/Number: Reason for Monitoring	Routine Monitoring Kuharski Homestead		
Findings:	Туре 1 x Туре 2 Туре 3 Туре 4		
Impact Agent(s): Significance of Impac	Recent visitation: Keystone Light can found inside house foundation. Unauthorized visitation.		
Did disturbance or im If yes, describe:	pact extend into undisturbed areas? Yes No x		
Work Halted? If yes, describe:	Yes No x		
Notifications: Date Contacted: Contact Method:	N/A E-mail Phone Official correspondence, CCN#:		
Cultural Materials Obs			
Cultural Materials Collif yes, describe: No	llected? Yes No x o collection.		
General Comments:	The beer can was removed for disposal. Rodent burrowing at the blacksmith forge has ceased; no further impacts noted.		
Recommendations:	Due to the close proximity of this site to the INL boundary and its isolation, annual monitoring visits are recommended.		
GPS Coordinates collected? Yes No x If yes, describe (datum, coordinates):			
Attach additional documentation, as warranted (photos, profiles, etc.) Yes X If yes, describe:			

Monitor Number:	HKG-09-07
Monitor Name:	Hollie K. Gilbert and Julie B. Braun
Monitor Date(s):	8/26/09
` ,	Routine Monitoring
Project:	· ·
Site Name/Number:	Richard's Homestead
Reason for Monitori	ng: Assessment of potential impacts due to proximity to public lands.
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	No impacts noted.
	mpact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
Notifications:	_ N/A
Date Contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials O If yes, describe:/	bserved? Yes x No
Cultural Materials C If yes, describe: _ N	ollected? Yes No x No collection.
General Comments:	
Recommendations:	Due to the close proximity of this site to the INL boundary and its isolation, annual monitoring visits are recommended.
GPS Coordinates co If yes, describe (dat	
Attach additional do	cumentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number:	BRP-09-19
Monitor Name:	B. R. Pace, H. K. Gilbert
Monitor Date(s):	December 3, 2008
Project: Site Name/Numbe Reason for Monito	
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Im	Off-road vehicle use Not significant. Truck was driven in single line pass along western end of site. Width of track suggests a Humvee.
	r impact extend into undisturbed areas? Vehicles passed through the western end of this site when fences were placed around the archaeological materials in the mid 1980s.
Work Halted? If yes, describe: _	Yes No X
Notifications:	None required under Type 1 finding. Follow-up with Ecological Sampling personnel identified probable cause of tracks and assurance that it will not happen again.
Date Contacted:	December 4, 2008
Contact Method:	
Contact Method.	E-mail Michael Correspondence, Colum.
Cultural Materials If yes, describe:	
Cultural Materials If yes, describe:	Collected? Yes No x No collection.
General Comment	s: Single pass with large truck did not create any lasting impacts.
Recommendation	Continue periodic monitoring.
GPS Coordinates If yes, describe (d	collected? Yes No x atum, coordinates):
Attach additional	documentation, as warranted (photos, profiles, etc.)

Monitor Number: HKG-09-	.08		
Monitor Name: Hollie K.	Gilbert and Julie B. Braun		
Monitor Date(s): 8/26/09			
Project: Ro Site Name/Number: Bir	outine Monitoring rch Creek Stage Station sessment of potential impacts due to proximity to public lands and grazing		
Findings: Type 1	x Type 2 Type 3 Type 4		
	e marks were noted in corral/barn area. ssible unauthorized visitation.		
Did disturbance or impact ext	tend into undisturbed areas? Yes No X		
Work Halted? Ye If yes, describe:	s No x		
Notifications: N/A Date Contacted: Contact Method: E-mail	Phone Official correspondence, CCN#:		
Cultural Materials Observed?			
Cultural Materials Collected? If yes, describe: No collection			
	racks were followed out to a road leading back to the highway. s not appear that this location was used by sheepherders this year.		
	o the close proximity of this site to the INL boundary, potential grazing cts, and its isolation, annual monitoring visits are recommended.		
GPS Coordinates collected? Yes No x If yes, describe (datum, coordinates):			
Attach additional documentation, as warranted (photos, profiles, etc.) Yes No X			

Monitor Number: H	KG-09-10
Monitor Name: He	ollie K. Gilbert and Julie Braun
	14/09
Project:	Routine Monitoring
Site Name/Number:	Powell Stage Station
Reason for Monitoring:	
Reason for Monitoring.	• • • • • • • • • • • • • • • • • • • •
	adjacent area.
Findings: Ty	/pe 1 x Type 2 Type 3 Type 4
Impact Agent(s):	Rodent burrowing in southwest corner of rock foundation. Extensive rodent burrowing in northeast bridge abutments.
Cianificance of Imposts	
Significance of Impact:	
	abutments to slump downhill.
Did disturbance or imp	act extend into undisturbed areas? Yes x No
Work Halted? If yes, describe:	Yes No x
Notifications:	N/A
Date Contacted:	
Contact Method: E	-mail Phone Official correspondence, CCN#:
Cultural Materials Obself yes, describe: Glas	Prved? Yes x No Served? No served and metal was noted in disturbed/excavated soils in and around foundation.
Cultural Materials Colle If yes, describe: No o	ected? Yes No x
General Comments:	If rodent activity increases, we may need to contact Stoller for recommendations on how to discourage rodents from using this site.
Recommendations:	None
GPS Coordinates colle If yes, describe (datum	
Attach additional docu	mentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number: B	RP-09-18			
Monitor Name:	H. K. Gilbert, B. R. Pace, J. B. Braun			
Monitor Date(s): N	lovember 20, 2008			
Project: Site Name/Number:	BEA-09-11: Geophysical Investigations at the Powell Stage Station 10-BT-2194 (Powell Stage Station)			
Reason for Monitoring	g: Assessment of potential impacts of geophysical surveys including cross-			
	country use of a 6-wheeler and equipment cart.			
Findings:	Type 1 x Type 2 Type 3 Type 4			
Impact Agent(s): Significance of Impac	6-Wheeler and equipment cart driving transects at ~2-meter intervals offroad Not significant. Vehicle and cart leave shallow tracks through soft surface soils but do not impact harder gravel deposits. Impacts to ground surfaces appear to be minimal, not much greater than intensive pedestrian activity.			
	pact extend into undisturbed areas? Yes X No veys are being conducted in areas that have not been recently disturbed.			
Work Halted? If yes, describe:	Yes No x			
Notifications: No	one required under Type 1 finding.			
Date Contacted:				
Contact Method: E-	mail Phone Official correspondence, CCN#:			
Cultural Materials Observed? Yes x No ATV passed through the historic archaeological materials at the Powell Stage station with no appreciable negative impacts.				
Cultural Materials Collif yes, describe: No				
General Comments:	6-wheeler and cart leave faint tracks through soft soils and no indications of passage over gravel surfaces. No artifacts were displaced or broken. Impacts are comparable to intensive foot traffic. Geophysical data collected from these locations may be useful in archaeological research applications			
Recommendations:	Continue archaeological surveys ahead of all 6-wheeler use in off-road settings, facilitate avoidance as necessary, and monitor identified resources for impacts.			
	GPS Coordinates collected? Yes No x If yes, describe (datum, coordinates):			
Attach additional documentation, as warranted (photos, profiles, etc.) Yes $\boxed{}$ No $\boxed{\mathbf{x}}$ If yes, describe:				

A: Historic Trails

Monitor Number:	HKG-09-11
Monitor Name:	Hollie K. Gilbert and Julie Braun
Monitor Date(s):	5/19/09
Project: Site Name/Number: Reason for Monitoring	Routine Monitoring Goodale's Cutoff/T-1 On-going monitoring
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impac	None noted, road appears to be lightly used.
Did disturbance or im If yes, describe:	pact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
Notifications:	N/A
Date Contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials Ob-	served? Yes No x
Cultural Materials Col	
General Comments:	Road does not appear to be as heavily traveled as it was last year.
Recommendations:	Due to the historic significance of this road, it should be monitored on an annual basis.
GPS Coordinates coll If yes, describe (datur	
Attach additional doc If yes, describe:	umentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number:	HKG-09-12
Monitor Name:	Hollie K. Gilbert and Julie B. Braun
Monitor Date(s):	8/7/09
Project: Site Name/Number: Reason for Monitorir	Routine Monitoring Road/trail T-16 Assessment of potential impacts of ongoing use of road T-16.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	No new impacts noted.
Did disturbance or in If yes, describe:	mpact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
Notifications:	N/A
Date Contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials Ob If yes, describe:	oserved? Yes x No
Cultural Materials Co If yes, describe: N	
General Comments:	Road T-16 has been heavily used in the past by ranchers and USGS personnel.
	From the abundance of weeds growing in the road bed, it appears that T-16 did
	not see much traffic this year. Gravel added to road bed from "dump and run"
	activity (adding gravel to muddy areas) has taken away a certain historical
	element of this road.
Recommendations:	None
GPS Coordinates collifyes, describe (datu	
Attach additional dod	cumentation, as warranted (photos, profiles, etc.) Yes No X

A: Nuclear Resources

Monitor Number: JE	3B-10-01				
Monitor Name: J.	B. Braun				
Monitor Date(s): 6/	16/09, 9/22/09				
Project: Site Name/Number: Reason for Monitoring	Not Applicable Experimental Breeder Reactor I Routine monitoring				
Findings:	Type 1 X Type 2 Type 3	Type 4			
Impact Agent(s):	No new impacts observed in June or September. However, there	is still not			
J	an adequate water drainage system in place for the reactor building				
Significance of Impac					
	leakage, effluecence, and eventual erosion of bricks and mortar w	hich will			
	result in an adverse impact. This issue has previously been repo	rted to			
	DOE-ID and BEA.				
Did disturbance or im If yes, describe:	pact extend into undisturbed areas? Yes	No x			
Work Halted? If yes, describe:	Yes No x				
Notifications: N	/A				
Date Contacted:	7.				
	-mail Phone Official correspondence, CCN#:				
Cultural Materials Observed? Yes x No If yes, describe: EBR I is listed on the National Register of Historic Places as a National Historic					
<u>Lai</u>	ndmark, one of only three such buildings in the state of Idaho.				
Cultural Materials Collif yes, describe: No	lected? Yes No x				
General Comments:	A "Save America's Treasure" grant was obtained in 2002 and the fun	nding used			
	to repoint/replace damaged brick and mortar on the reactor building.				
	recommended at that time and each year since then that an adequat				
	drainage system was needed to protect against similar damage in the				
•					
Recommendations:	Install an adequate water drainage system.				
GPS Coordinates colle If yes, describe (datum					
Attach additional doc	umentation, as warranted (photos, profiles, etc.) Yes X	No			

Monitor Number:	JBB.	-10-02									
Monitor Name:	J. B.	. Braun									
Monitor Date(s):	6/16	5/09, 9/22	2/09								
Project:			oplicable								
Site Name/Number		_		Reactor E	xperime	nt Eng	ines and	Locor	notive		
Reason for Monito	ring:	Routin	ne monito	oring							
Einelin na	T	- 4	\neg	T 0			T			<u> </u>	4
Findings:	IУ	oe 1 x		Type 2			Type 3	5			ype 4
Impact Agent(s):		No ne	w imnac	ts observe	d in lun	or S	entembe	r Hov	vever	AVNOSLIR	e to and
impact Agent(s).				sun, rain, s						_	
								,			
		_		npact the l	neat IIa	iisiei i	Reactor	Expeni	nent (r	TIKE) e	rigines
0::	4.	locom			UTDE	·	1	4 . 4			
Significance of Imp	act:			osure of the							
				eterioratio		•					
		impac	t. These	issues ha	ave previ	ously	been rep	orted t	to DOE	:-ID and	BEA.
Dial diatumbanas an		-44	. al !.a4 a	و واست به و الو وس		2		Vaa		N.a	
Did disturbance or	ımpa	ct exter	ia into u	inaisturbe	ea areas	•		Yes		No	Х
If yes, describe: _											
Work Halted?		Yes		Ma	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
		res		No	Х						
If yes, describe: _											
Notifications:	N/A										
Date Contacted:	IN/A										
Contact Method:	E-m	a il	Dh	one	Official		sponde	C	CN#.		
Contact Method.	E-III	all	FII0	one	Official	COLLE	sponde	nice, C	CN#.		
Cultural Materials (Ohsar	rvad?	Yes	Х		No					
				actor Exp	orimont a		c and as	ecociat	od loca	motivo	aro
ii yes, describe.				ne Nationa					eu iocc	JIIIOUVE (ale
_	eligib	101 115	ung on u	ie maliona	ii Negisii	51 01 11	ISTOLIC F	iaces.			
Cultural Materials (عوالون	rted?	Yes			No	Х				
		ollection.				140	_^_				
ii yes, describe.	INO CC	niection.									
General Comments	s:	A nomin	ation pa	ckage for	the HTRI	Es wa	s prepar	ed and	subm	itted to F	OF-ID in
	_			not been t							
				ng how to							
				urther det				IIVLS	iiiu ioc	OITIOUVE	must be
	'	reacrieu	pelole I	urtifier det	enorador	Carr	occur.				
Recommendations	. –	Fynand	nominat	ion to inclu	ıde the la	ocomo	tive Re	search	how t	o preser	ve/
_				nd locomo						o prosci	VCI
		protecti	III\Ls a	na locom	Juve give	iii iuiic	anig mini	alions.			
GPS Coordinates of	ollec	ted?		Yes			No	Χ			
If yes, describe (da			ates).	100			110				
ii yos, acsoribe (da	icaiii,	Journ	atesj.	-							
Attach additional d	ocum	nentatio	n. as wa	rranted (ohotos	profile	es. etc.)		Yes	X	No
If yes, describe:		os on file	-			ı • v	,				
,,											

A: Projects

Monitor Number:	BRP-(09-15						
Monitor Name:	B. R.	B. R. Pace, H. K. Gilbert						
Monitor Date(s):	Octob	er 13, 200	8 and March	16, 2009				
5		N. (1)		T 05 A				
Project:	_		Security Test F				7 40 DM 400	
Site Name/Number:	-		10-JF-84, 10-	JF-83, 10-JF	80, 10-JF-	78, 10-JF-7	7, 10-BM-123	, and
Dagger for Monitor	- -	BEA-06-2		aardad aitaa	in the area	of notontial	offeet for read	
Reason for Monitor	ring: _		previously re ents along the					
	_	Test Ran		1-25 power	ilite toau le	aurig to the	: National Sec	urity
	_	1 63t I Vali	JC					
Findings:	Туре	1 x	Type 2		Type 3		Type	4
Impact Agent(s):		Power no	lo increation	maintananaa	and ropair	have cauc	nd around dist	ur
impact Agent(s).	_		le inspection, round power po					
	_		a linear path tl					avily
	_		graveling, sno					
	_		Road is heavil					
	_	mph.	rtoad is ricavii	y docu now a	and can sup	эрогт эрсса.	3 III CXCC33 OI	30
Significance of Imp	act:		cts during pov	ver line and r	oad mainte	nance have	caused	
o.g	_		t impacts to po					ain
	_		iding areas an					
	_		g a cac a	<u> </u>	ing tarrers to	p. 000. 10 ti.		·
Did disturbance or						Yes x	No	
If yes, describe: N	New tur	narounds	were observed	and sandy	soils from u	ndisturbed a	areas adjacen	t to
<u>tl</u>	he roac	d are piled	up with gravel	in the road	side ricks.			
M. I. II. II. IO		v	¬					
Work Halted?	1/0	Yes	No	Х				
If yes, describe: N	V/A							
Notifications:	Consul	Itation con	tinues with pro	iect manage	ement to hal	t impacts ar	nd prevent	
			e II situation.	joot manage			р. с т с	
		and July 2						
Contact Method: E-mail x Phone Official correspondence, CCN#:								
·				-	-		•	
Cultural Materials C			Yes x	No				
If yes, describe: _	Lithic fl	lakes obse	erved in all are	as. No new	artifacts obs	served.		
Cultural Materials C	Callagt	043	Yes	No				
	No coll		162	NO	X			
ii yes, describe.	INO COII	ection.						
General Comments	: Pir	n flags are	placed along	sensitive stre	etches of the	e road to pre	event addition	al
	gra	ading. Ho	wever, continu	ed maintena	nce and hea	avy use of the	he road does	
			creating a wid			_		
		-						
Recommendations			ions should be					!
			rmine if sensit					
	COI	mplete, ro	ad work should	d be restricte	d in the sen	isitive areas		
GPS Coordinates c	ollooto	v43	Vaa		Ma			
If yes, describe (da			Yes		No	Х		
ii yes, describe (da	tuili, C	ooramate						
Attach additional de	ocume	ntotion o						
	Count	illation, a	is warranted (photos, pro	files, etc.)	Yes	No) X

Monitor Number:	BRP-09-16
Monitor Name:	B. R. Pace
Monitor Date(s):	October 27, 2008
Project: Site Name/Number Reason for Monitor	
Findings:	Type 1 x Type 2 Type 3 Type 4
Impact Agent(s): Significance of Imp	Heavy equipment recontouring soil in low area where water accumulates. Not significant. No artifacts observed in disturbed soil.
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:N	Yes No x
-	None required. No impacts to cultural materials
Date Contacted: _ Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials (If yes, describe:	Observed? Yes No x
Cultural Materials (If yes, describe:	Collected? Yes No x
General Comments	No artifacts observed. Site boundary does not appear to extend to area adjacent to T-25.
Recommendations	No further work required.
GPS Coordinates of If yes, describe (da	
Attach additional d If yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number:	BRP-09-17				
Monitor Name:	R. Pace				
Monitor Date(s):	November 10, 2008				
Project: Site Name/Number Reason for Monito					
Findings:	Type 1 X Type 2 Type 3 Type 4				
Impact Agent(s): Significance of Imp	Off-road vehicle use Not significant. Truck was driven in single line pass around the perimeter of the safety fan along a path marked to avoid passage through sensitive archaeological resources.				
	impact extend into undisturbed areas? Yes x No x The safety fan passes through areas that have not been disturbed.				
Work Halted? If yes, describe:N	Yes				
Notifications: Date Contacted: Contact Method:	None required under Type 1 finding. E-mail Phone x Official correspondence, CCN#:				
Cultural Materials (If yes, describe:	Observed? Yes No x				
Cultural Materials (If yes, describe:	Collected? Yes No x				
General Comments	Single pass with truck during sign installation did not create any lasting impacts. In most places there is no evidence of its passage.				
Recommendations	Walking this perimeter with project personnel along to do light maintenance on signs is a great way to prevent impacts to the cultural resources known to exist in the area because it eliminates the need to use vehicles or ATV's. Work with project personnel to secure support for this effort again next year.				
GPS Coordinates c If yes, describe (da					
Attach additional d If yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No				

Monitor Number:	BRP.	-09-20				
Monitor Name:	B. R.	. Pace, J. B. E	Braun in 2008 and	d multiple	representatives fr	om DOE-ID and
	Caro	line Smith fro	m the Shoshone-	-Bannock	Tribes in 2009	
Monitor Date(s):	Octo	ber 22, 2008	and August 12, 2	2009		
Project:			er Trenches			
Site Name/Numbe	r:					93, and 10-BT-2194
	_		ge Station) at Sac			
Reason for Monito	oring:					the Big Lost River
		Trenches pr	oject, including D	OE-ID an	nd tribal participan	ts in 2009.
Findings:	Тур	e 1 x	Type 2		Type 3	Type 4
Impact Agent(s):		Heavy equir	oment originally.	Revegeta	ated areas are attr	active to local herds
						s has increased and
					oling, bedding area	
Significance of Im	pact:				ates are significan	
J					a. co a. co a. g ca	
Did disturbance o	r impa	ct extend into	o undisturbed a	reas?	Yes	No x
If yes, describe:	Backfil	ling and revec	getation were car	efully des	igned to prevent of	listurbance outside
<u>-</u>	origina	I area of poter	ntial effect for tre	nches. G	razing, trampling,	and wind erosion are
=	widesp	read in and a	round the old tre	nches.		
-						
Work Halted?		Yes	No [X		
If yes, describe: _	N/A					
N - 416141	Mana		T 4 Finalina	_		
Notifications:		requirea una	er Type 1 Finding	J.		
Date Contacted:	N/A					
Contact Method:	E-mai	11 F	Phone Off	iciai corre	espondence, CC	N#:
Cultural Materials	Ohsar	ved2 V	es x	No		
					ndaries of prehist	oric archaeological
ii yes, describe						cur throughout the
-						renching, backfilling,
-						ontexts. New surface
-						hing location where
-						plowout areas and
_			he old trench loca		rtiidoto restirig iir k	nowout areas and
_	along t	ne cages or ti	ric old trolloll look	200110.		
Cultural Materials	Collec	ted? Y	es	No	Х	
If yes, describe:						
_		-				
General Comment	t s : <u>G</u>	razing impact	s have been obs	erved at th	he trenches since	they were backfilled
					ent and plant re-g	
	ac	cceptable. Na	ative species are	becoming	g dominant and we	eds are minimal.
Recommendation	s: <u>C</u>	ontinue yearly	y monitoring.			
GPS Coordinates If yes, describe (d			Yes] 	No x	
Attach additional	docum	entation, as	warranted (phot	os, profil	les, etc.) Ye	es No x

Monitor Number:	_BRP-09-25							
Monitor Name:	B. R. Pace, Caroline Smith							
Monitor Date(s):	8/19/09							
.								
Project:	BEA-09-05: Ordnance SurveysRailcar Area							
Site Name/Number								
Reason for Monito								
	including cross-country geophysical surveys with ATV and cart.							
Findings:	Type 1 x Type 2 Type 3 Type 4							
i ilidiligs.	Type 1 A Type 2							
Impact Agent(s):	6-Wheeler and equipment cart driving transects at ~2-meter intervals offroad							
Significance of Imp								
	impact harder gravel deposits. Impacts to ground surfaces appear to be							
	minimal, not much greater than intensive pedestrian activity.							
	impact extend into undisturbed areas? Yes x No							
	Surveys are being conducted in areas that have not been disturbed since ordnance							
<u>t</u>	esting in the 1940s							
Maula HalfadO	Vac No V							
Work Halted?	Yes No x							
If yes, describe:								
Notifications:	None required under Type 1 finding.							
Date Contacted:	Trone required under Type 1 infamg.							
. .	E-mail Phone Official correspondence, CCN#:							
Contact Method.	1 none omciai correspondence, con.							
Cultural Materials (Observed? Yes x No							
If yes, describe:	ATV passed through the boundaries of three known archaeological sites (10-BT-2050,							
	BT-2051, 10-BT-2052) with assemblages dominated by lithic debris with no							
	appreciable negative impacts.							
Cultural Materials (
If yes, describe:	No collection.							
General Comments	G wheeler and part leave faint tracks through paft sails and no indications of							
General Comments								
	passage over gravel surfaces. No artifacts were displaced or broken. Impacts							
	are comparable to intensive foot traffic. Geophysical data collected from these locations may be useful in archaeological research applications							
	locations may be useful in archaeological research applications							
Recommendations	: Continue archaeological surveys ahead of all 6-wheeler use in off-road settings,							
1.0001111110110110	facilitate avoidance as necessary, and monitor identified resources for impacts.							
	Complete intensive archaeological investigations possibly including test							
	excavations in advance of additional cleanup or remediation resulting from the							
	geophysical surveys. Directly monitor any proposed removal of ordnance or							
	debris from inside the boundaries of known cultural resources.							
	200.10 5.11 mora dio poditadio di miorii dalla i roccaroco.							
GPS Coordinates o	collected? Yes No x							
lf yes, describe (da								
Attach additional d	ocumentation, as warranted (photos, profiles, etc.) Yes No x							

Monitor Number:	BRP-09-26
Monitor Name:	B. R. Pace, Caroline Smith
Monitor Date(s):	8/19/09, 9/25/09
Project: Site Name/Number: Reason for Monitor	BEA-09-15: Explosive Magazine Facility BEA-08-03-22
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Imp	No impacts have occurred. N/A
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
_	N/A
Date Contacted: _ Contact Method:	E-mail Phone Official correspondence, CCN#:
а	Observed? Yes x No solated flakes of obsidian are eroding from a sand dune to the west of the project area have not been impacted by project activities. Test excavation confirmed no ensitive materials are present in the area proposed for road improvement.
Cultural Materials (
General Comments	: Visit confirmed that all surface artifacts are located to the west of proposed project work along the existing access road. Shovel test excavations in sandy soils within and adjacent to the road confirmed that subsurface cultural materials do not extend into the area of project ground disturbance. Second visit confirmed project avoidance of sensitive area.
Recommendations	No further work recommended.
GPS Coordinates c If yes, describe (da	
Attach additional d	ocumentation, as warranted (photos, profiles, etc.) Yes No X

Monitor Number: H	KG-09-09
Monitor Name: H.	. K. Gilbert, B. R. Pace, Caroline Smith
	16/09, 5/1/09, 5/15/09, 5/25/09, 7/14/09, 7/22/09, 8/19/09, 8/26/09, 9/23/09
Project:	Power Burst Facility/Critical Infrastructure Test Range Complex
Site Name/Number:	10-BT-1991, 10-BT-2046
Reason for Monitoring	
·	particularly in the vicinity of PER-632 and the Waste Experimental Reduction
	Facility (WERF) where human remains have been discovered in secondary
	and original contexts and as required by LWP-8000 and MCP-3480.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	No new impacts observed.
Significance of Impact	
Did disturbance or implifyes, describe:	pact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
Notifications: N/A	4
Date Contacted:	
Contact Method: E-r	mail Phone Official correspondence, CCN#:
Cultural Materials Obs	served? Yes x No
	ated flakes of obsidian are eroding from a sand dune to the west of the project
	a have not been impacted by project activities. Test excavation confirmed no
	sitive materials are present in the area proposed for road improvement.
3611	stive materials are present in the area proposed for road improvement.
Cultural Materials Coll If yes, describe: No o	
General Comments:	No artifacts or human remains observed in project excavations (training exer-
	cises, power line testing, cell tower installation, electrical trenching, DD&D)
•	olood, potter little tooting, content inclanation, cloodical tronorming, 2242/
Recommendations:	Continue routine monitoring of excavation projects in this sensitive area per the
•	requirements of LWP-8000, MCP-3480, and the wishes of the Shoshone-
•	Bannock Tribes. Provide sensitivity training for workers.
GPS Coordinates colle If yes, describe (datun	
Attach additional docu	umentation, as warranted (photos, profiles, etc.) Yes No X