

Navajo Abandoned Uranium Mine Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits and pits. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites lands not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands but that are or may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, to record all immediate site information associated with the mine site and to document the recommendation and/or decision on what additional steps, if any, are needed at the site.

Blue Peak AUM Site

Navajo AUM Eastern Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

12767.063.496.1111

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Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 361

Map ID: E89

CERCLIS: NOT ASSIGNED

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0085

New Mexico Bureau of Geology and Mineral Resources: NNMK0018

Local name / Aliases: Garcia No. 1-5, Red Top No. 1-10, Section 24

New Mexico MMD District: Ambrosia Lake

Lat/Long: 35.3412858567 N / -107.843643825 W

Nearby road and highway: Haystack Road / NM-334 **Local Post Office:** Prewitt, NM

Land Status: check one or more and provide ownership and contact information below

- Tribal Trust Land**
- Tribal Fee Land**
- Allotment**
- Fee land**
- Public lands**
- Private**
- Bureau of Land Mgmt**
- State**

Ownership and contact information:

No ownership was identified. The mine site property is classified as Bureau of Land Management land. Due to locked gates and private property, Weston was unable to access the mine site.

Part II Site Observations

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None **0.25 miles to 4 miles:** None

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

Known Site History: include information from interviews with Chapter officials and residents. Note information on mine ownership, period of operation, and type of mining operation.

Blue Peak mine consists of a surface area of 25,638.86 square meters with an additional 13,310.87 square meters of underground workings. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear. The New Mexico Mining and Minerals Division identified the operator from 1951-1952 as Blue Peak Mining; 1953 as Shattuck Denn Mining Corp.; 1955 as St. Michael's College Foundation, Inc. - Shawano Operation; 1955-1957 as Colohoma Uranium, Inc.; 1957-1958 as Three Jacks Mining Co.; 1959-1960 as Farris Mining Co.; and 1960-1961 as Lloyd O. Sutton.

Part III Type, number and reclamation status of mine features

Provide description and reclamation status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all reclamation caps.

Reclamation status of the mine site is currently unknown. Due to locked gates and private property, Weston was unable to access the mine site. According to the New Mexico Mining and Mineral division, contractors dismantled the timber loadout and backfilled 5 adits with on-site mine waste in 1990.

Part IV Summary of radiological readings

Note: Due to locked gates and private property, Weston was unable to access the mine site.

Background Locations - None

Mine site: Blue Peak
- See Figure 1

Nearby Structure Perimeter – None

Describe any other radiological measurements:

Radiological measurements collected for the New Mexico Mining and Minerals Division during a 2008 field screening survey found gamma radiation levels near the ground surface with a maximum of 140 micro Roentgen per hour ($\mu\text{R/hr}$) and a minimum of 50 $\mu\text{R/hr}$, and levels at the 4-foot elevation with a maximum of 140 $\mu\text{R/hr}$ and a minimum of 36 $\mu\text{R/hr}$.

Part V Site sketch of all mine features and readings, including locations of all structures, sources of potential drinking water and any other important features and radiological readings.

Presented in Figure 1

Part VI Response Action Summary

Site Name(s): Blue Peak

New Mexico MMD District: Ambrosia Lake

Decision Criteria

Is there an unreclaimed waste pile at the site? None observed

At what distance from the waste pile is the nearest residential structure located? N/A

At what distances from the waste pile are there potential drinking water sources? N/A

Is there a reclamation cap or sealed adit in place at the site? None observed

Is the cap/seal functionally intact? N/A

Is the cap/seal sufficiently degraded to create a concern about releases? N/A

At what distance from the cap/seal is the nearest domestic structure located? N/A

At what distance from the cap/seal is the nearest potential drinking water source? N/A

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

Reclamation status of the mine site is currently unknown

Part VII Photos



Photo 1. Locked gate on road leading towards Blue Peak mine site

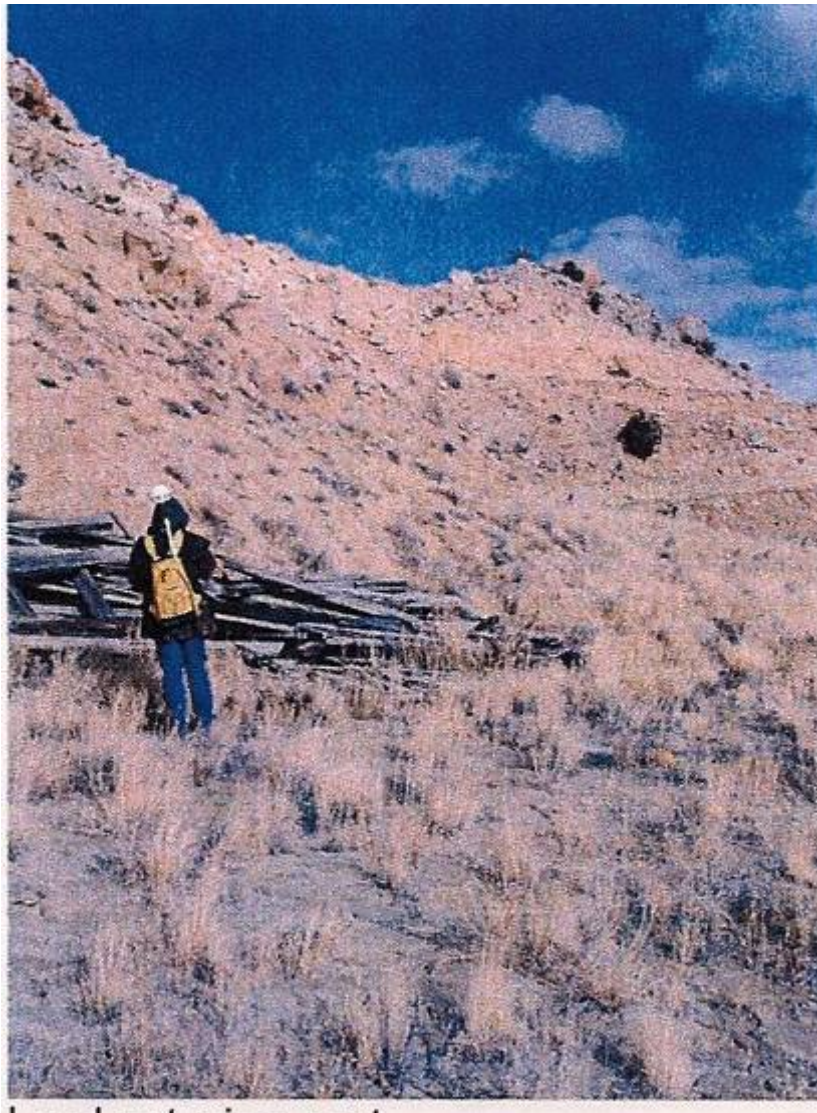


Photo 2. Private property leading towards Blue Peak mine site

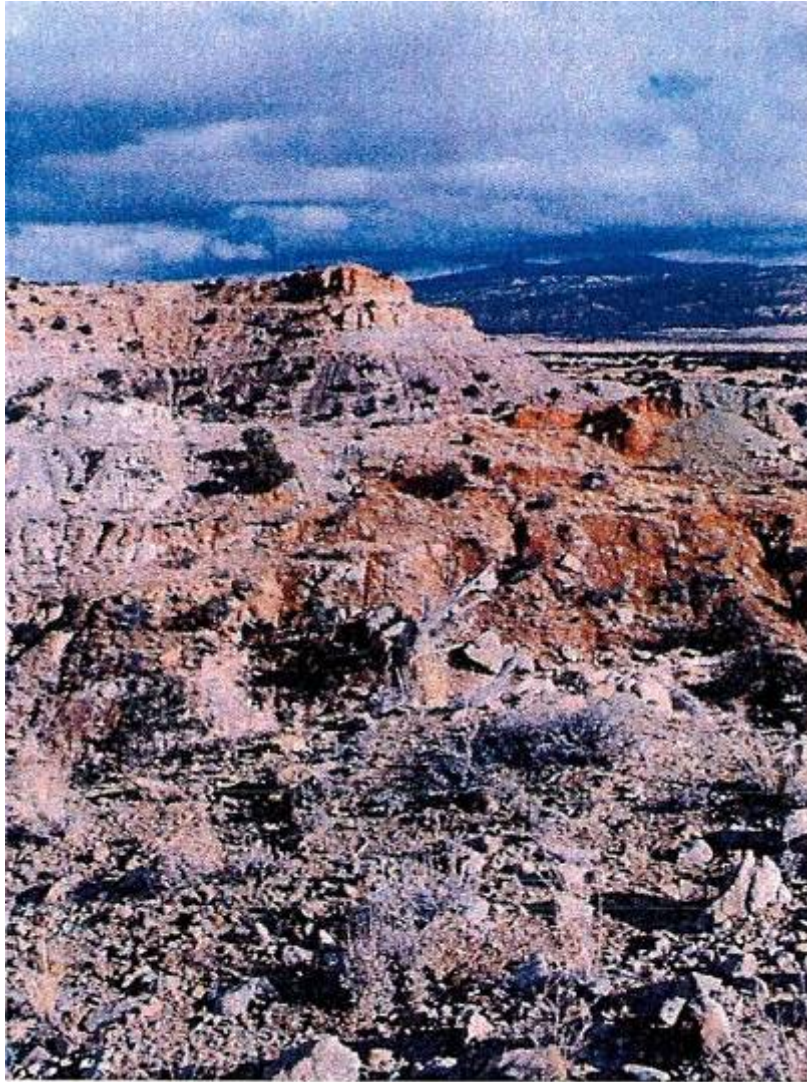


Photo 3. Fenced area leading towards Blue Peak mine site

The following photos were collected during a 2008 field survey for the New Mexico Mining and Minerals Division:



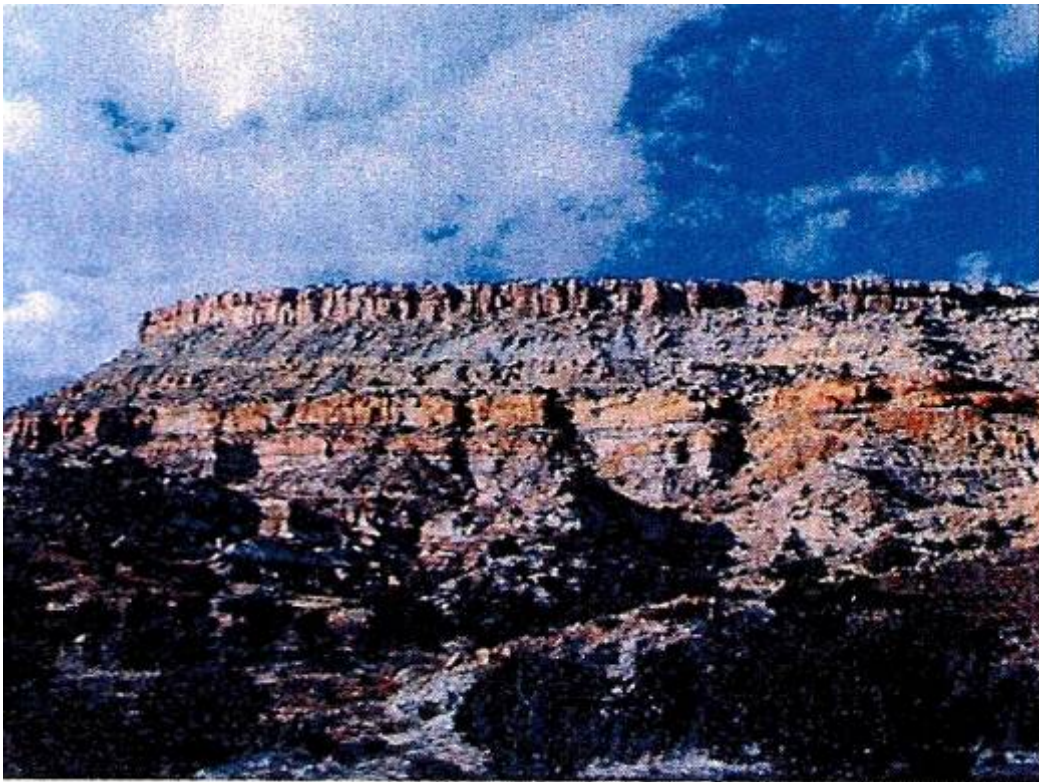
Load-out, view east



Mid-level, view east



Panorama of mine



View to west

Part VIII Contacts Reports and Information

Name Susan A. Lucas Kamat

Title or official role (if any) AUM Data Manager – New Mexico Mining & Mineral Division

Telephone number (505) 476-3408 fx: (505) 476-3408

Information provided Background information and findings from 2008 New Mexico MMD
Survey of mining sites.

Name Dana Bahar

Title or official role (if any) Manager, Superfund Oversight Section

Ground Water Quality Bureau, New Mexico Environment Department

Telephone number (505) 827-2908

Information provided General Background Information

Name Mary Ann Menetrey


Title or official role (if any) Manager, Mining Environmental Compliance Section

Ground Water Quality Bureau, New Mexico Environment Department

Telephone number (505) 827-2944

Information provided General Background Information

Legend

 Bureau of Land Management

 Mine Claim Boundaries



Blue Peak



Blue Peak
Navajo Nation, New Mexico **Figure 1**