

*Internal  
C/041/002*

Elusive Peacock Shelter, Big Mac Shelter, Little Mac Shelter, and 42SV 2492  
January 20, 2004  
10:00 a.m. to 11:45 a.m.  
Dept. of Natural Resources Bldg.  
Room 1010

- 1. Section 106 of the National Historic Preservation Act, 36 CFR Part 800,  
and MOA obligations (Bruce Ellis) ..... 20 min
- 2. Elusive Peacock condition (Mike Davis).....10 min
- 3. Big Mac Shelter results of monitoring (Scott Billat)..... 10 min
- 4. Little Mac Shelter results of monitoring (Scott Billat)..... 10 min
- 5. 42SV 2492 results of monitoring (Scott Billat)..... 10 min
- 6. Adverse effect determination (Bruce Ellis and Jim Dykman).....15 min
- 7. Stipulations 7 and 8 of the MOA (Treatment Plan) discussion .....30 min
- 8. Summary (Susan).....5 min

Elusive Peacock, Big Mac, Little Mac and 42SV #92  
 January 20, 2004

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Canyon Fuel – SUFCO Mine 2002 subsidence impacts from undermining cultural sites 42SV2434 Little Mac and 42SV2433 Big Mac located in the center of Longwall panel 1LPE.

**42SV2434 Little Mac**

This site was undermined on 3/26/02. This cultural site had numerous natural rock failures before it was undermined (Fig. 1 & 3). Subsidence impacts were about what was anticipated when the monitoring program was initially set up. Subsidence impact resulted in the overhanging rock on the right side, that already had a large crack on the backside, breaking loose and falling in. The overhanging rock on the left side rolled into the opening (Fig. 2 & 4). The overhang on the left side could have already been cracked similar to the right side since it broke across on the same crack line. How much the site has subsided is not know yet. The subsidence will be measured over the next few weeks.



Figure 1 Before-May 6, 2000



Figure 2 After-April 23, 2002



Figure 3 Before-May 6, 2000



Figure 4 After-April 23, 2002

### 42SV2433 Big Mac

This site was undermined on 3/22/02. Subsidence impacts were not what was anticipated when the monitoring program was initially set up. The overhanging rock had some natural small cracks but was not broken up as much as some of the other sites and it was felt that this site would probably not be impacted by subsidence (Fig. 5 & 7). Subsidence impact resulted in the roof rock cracking in the center of the site and breaking off on the right side (Fig. 6 & 8). This is similar to what happen at the 42SV2492 150-Acre site in 2000 but not as severe. This site has not been surveyed since it subsided to determine how much the site has subsided.



Figure 5 Before-May 6, 2000

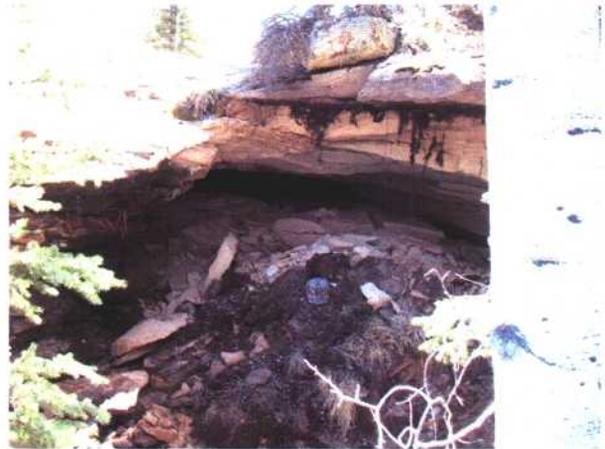


Figure 6 After-April 23, 2002



Figure 7 Before-May 6, 2000



Figure 8 After-April 23, 2002