



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING
INSPECTION REPORT

Michael O. Leavitt
 Governor
 Ted Stewart
 Executive Director
 James W. Carter
 Division Director

355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 84180-1203
 801-538-5340
 801-359-3940 (Fax)
 801-538-5319 (TDD)

Partial: X Complete: Exploration:
 Inspection Date & Time: July 31, 1995, 9:00 AM to 12:20 PM
 Date of Last Inspection: June 28, 1995

Mine Name: Castle Gate County: Carbon Permit Number: ACT/007/004
 Permittee and/or Operator's Name: AMAX Coal Co.
 Business Address: P. O. Box 449, Helper, Utah
 Type of Mining Activity: Underground X Surface Prep. Plant X Other
 State Official(s): Paul Baker
 Company Official(s): Johnny Pappas
 Federal Official(s): None
 Weather Conditions: Clear, 80's
 Existing Acreage: Permitted- 7619 Disturbed- 170 Regraded- 33.2 Seeded- 33.2 Bonded- 134.5
 Increased/Decreased: Permitted- 0 Disturbed- 0 Regraded- 0 Seeded- 0 Bonded- 0
 Status: Exploration/Active/Inactive/Temporary Cessation/Bond Forfeiture
 Reclamation (X Phase I/ Phase II/ Final Bond Release/ 10 for Goose Island Liability Year)

REVIEW OF PERMIT, PERFORMANCE STANDARDS & PERMIT CONDITION REQUIREMENTS

Instructions

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
 - a. For complete inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check N/A.
 - b. For partial inspections check only the elements evaluated.
2. Document any noncompliance situation by referencing the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Division Orders, and amendments.

	<u>EVALUATED</u>	<u>N/A</u>	<u>COMMENTS</u>	<u>NOV/ENF</u>
1. PERMITS, CHANGE, TRANSFER, RENEWAL, SALE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. SIGNS AND MARKERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. TOPSOIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. HYDROLOGIC BALANCE:				
a. DIVERSIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. SEDIMENT PONDS AND IMPOUNDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. OTHER SEDIMENT CONTROL MEASURES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. WATER MONITORING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. EFFLUENT LIMITATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. EXPLOSIVES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. DISPOSAL OF EXCESS SPOIL/FILLS/BENCHES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. COAL MINE WASTE/REFUSE PILES/IMPOUNDMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. NONCOAL WASTE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. SLIDES AND OTHER DAMAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. CONTEMPORANEOUS RECLAMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. BACKFILLING AND GRADING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. REVEGETATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. SUBSIDENCE CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. CESSATION OF OPERATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. ROADS:				
a. CONSTRUCTION/MAINTENANCE/SURFACING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. DRAINAGE CONTROLS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. OTHER TRANSPORTATION FACILITIES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. SUPPORT FACILITIES/UTILITY INSTALLATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. AVS CHECK (4th Quarter-April, May, June)_(date)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. AIR QUALITY PERMIT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. BONDING & INSURANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INSPECTION REPORT

(Continuation sheet)

Page 2 of 3

PERMIT NUMBER: ACT/007/004

DATE OF INSPECTION: July 31, 1995

(Comments are Numbered to Correspond with Topics Listed Above)

1. Permits, Change, Transfer, Renewal, Sale

On July 26, 1995, the Division approved amendment ACT/007/004-95C. This amendment was in response to Division Order 94A, Item #1, and is intended to eliminate conflicts within the mining and reclamation plan.

On July 20, 1995, the Division approved Amax's request for additional time to address deficiencies in the mining and reclamation plan for the Crandall Canyon area. The new deadline is September 15, 1995.

The Division received a response to its review of the Willow Creek Refuse Removal Project on July 21, 1995.

4. Hydrologic Balance

a. Diversions

In Hardscrabble Canyon, part of the side of the main channel diversion is held up by a retaining wall. The contractor doing the demolition in this canyon has removed the top part of the retaining wall. The wall is still intact and still functions, but if any lower parts of the wall are removed (railroad ties), there will be sloughing into the channel.

c. Other Sediment Control Measures

We discussed effectiveness of the silt fences in with No. 4 Mine canyon. Vegetation has progressed markedly in this area, and there are only a few areas with rills. However, Amax still plans to do some reclamation in this canyon to cover the exposed coal seam. Silt fence removal should be delayed at least until this reclamation is completed. After that, Amax should demonstrate that vegetation is providing at least as much sediment control as the silt fences.

12. Backfilling and Grading

On the south side of the No. 4 Mine canyon, there is what appears to be a rectangular concrete pad that was covered with only about one foot of soil. The material around the concrete has settled enough that the pad is exposed in one place. When Amax does the reclamation in this canyon to cover the coal seam, they should also either bury this concrete or break it up so roots can penetrate it.

To the south of channel SBRD-2, material was graded right up to the edge of the undisturbed area. It has now settled and exposed about one foot of the cut along the edge of the undisturbed area. It has also separated a little from the undisturbed area. I believe this will heal with time, but there is a potential that water entering the crack from the undisturbed area could contribute to slumping. Amax may want to fill this crack to prevent potential problems.

13. Revegetation

Most dyer's woad in Hardscrabble Canyon was sprayed with an herbicide. A lot of it died before it had mature seeds. However, there are still quite a few plants with black seeds, and there are still quite a few rosettes. Amax needs to continue to try to eradicate this noxious weed.

We found several musk thistle plants in Sowbelly Gulch and Hardscrabble Canyon. We broke off most of them at the base. Amax needs to be aware of the potential for this weed to invade reclaimed areas. Any weeds growing in reclaimed areas should be killed as soon as possible. Amax should also contact the County about spraying adjacent areas.

Vegetation continues to do well in most parts of Sowbelly Gulch. Potential problem areas include one adjacent to and north of pond 16, two patches south of SBRD-2, and the area east of SBRD-1D below the berm that diverts water to pond 16.

INSPECTION REPORT

(Continuation sheet)

Page 3 of 3

PERMIT NUMBER: ACT/007/004

DATE OF INSPECTION: July 31, 1995

The area east of SBRD-1D has a lot of weeds and few seeded species. It should have been seeded with the riparian area seed mix, but Mr. Pappas questioned whether seed had actually been applied. I found seed from the riparian seed mix in the channel, but I do not remember checking the specific area of concern. It may be necessary to seed this area again.

The vegetation has also progressed a lot in No. 4 Mine canyon, particularly on the north side of the canyon. It may be necessary to reseed some areas on the south side of the canyon. I had previously thought the entire south side should be reseeded, but I now think only one-half or less needs further work.

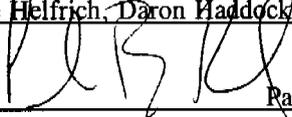
18. Support Facilities/Utility Installations

Most of the Hardscrabble Canyon office and parts of other buildings have been demolished.

Copy of this Report:

Mailed to: Donna Griffin (OSM), Johnny Pappas (Amax)

Given to: Joe Helfrich, Daron Haddock (DOGM)

Inspector's Signature:  Paul B. Baker #41 Date: August 2, 1995