



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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## INSPECTION REPORT

Partial: X Complete:    Exploration:     
Inspection Date & Time: October 17, 1994, 10:00 A.M. to 2:30 P.M.  
Date of Last Inspection: September 27, 1994

Mine Name: Castle Gate County: Carbon Permit Number: ACT/007/004  
Permittee and/or Operator's Name: AMAX Coal Co.  
Business Address: P. O. Drawer PMC, Price, Utah  
Type of Mining Activity: Underground X Surface    Prep. Plant X Other     
State Officials(s): Paul Baker, Chris Rohrer, Dave Donnelly  
Company Official(s): Lonnie Mills  
Federal Official(s): None  
Weather Conditions: Cloudy with light to moderate snow, up to about 4" of snow on ground, 30's  
Existing Acreage: Permitted- 7619 Disturbed- 170 Regraded- 13.2 Seeded- 13.2 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/ 9 for Goose Island Liability Year)

### REVIEW OF PERMIT, PERFORMANCE STANDARDS & PERMIT CONDITION REQUIREMENTS

#### Instructions

- Substantiate the elements on this inspection by checking the appropriate performance standard.
  - 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.
  - For partial inspections check only the elements evaluated.
- Document any noncompliance situation by referencing the NOV issued at the appropriate performance standard listed below.
- Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
- Provide a brief status report for all pending enforcement actions, permit conditions, Division Orders, and amendments.

	EVALUATED	N/A	COMMENTS	NOV/ENF
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. TOPSOIL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. NONCOAL WASTE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input 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)

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PERMIT NUMBER: ACT/007/004

DATE OF INSPECTION: October 17, 1994

### (Comments are Numbered to Correspond with Topics Listed Above)

#### 1. Permits, Change, Transfer, Renewal, Sale

The permittee has requested Phase I bond release for Sowbelly Gulch. The Division has scheduled a technical assessment meeting for Nov. 2 with the formal advertisement and inspection to follow.

On October 4, 1994, the Division received an amendment addressing changes to the reclamation plan in Sowbelly Gulch. On October 11, the Division received plans to abate violation N94-41-3-1 which concerns erosion in Barn Canyon.

#### 2. Signs and Markers

As mentioned in the previous inspection report, the address and telephone number on the signs need to be changed.

#### 3. Topsoil

The Division's Abandoned Mine Reclamation program is planning to place about 26,000 cubic yards of refuse on the Schoolhouse Canyon refuse pile. It is anticipated that this will raise the level of the refuse pile by an average of four feet. We discussed commitments to salvage soil from the sides of Schoolhouse Canyon. I was not able to find anything in the mining and reclamation plan addressing this issue. Therefore, it would be assumed that the operator needs to salvage topsoil from the sides of the canyon. However, the 1984 technical analysis says that soil will not be salvaged from the sides of the canyon because of the limited amount of soil available and because of the difficulty and hazards that would be encountered. If the plan does not specifically say that the soil will not be salvaged from this area, it will be assumed that soil *will* be salvaged.

#### 4. Hydrologic Balance

##### a. Diversions

Diversions CGD-19 and CGD-7 (lower) have been repaired. A transition section of CGD-19 was grouted below the upper, steep, grouted portion. Although it appears that CGD-7 (lower) was repaired to match the design in the plan, I have reservations about how well some sections, particularly a bend near the uppermost terrace on the refuse pile, would hold up during a design storm. Violation N94-41-4-1 is abated with the repairs done, but I encourage the operator to consider measures to further reinforce this section of this diversion.

##### c. Other Sediment Control Measures

Portions of the reclaimed area in Sowbelly Gulch from which drainage would not report to a sediment pond have been roughened to hold water. This is one of the techniques for sediment control discussed in the mining and reclamation plan. Two furrows were dug near the bottom of one steep area on the east side of the main channel. I do not believe these will be adequate to control sediment from this area. If the operator is not able to roughen the area more, a silt fence or other sediment control structure should be installed at the bottom of the area.

#### 7. Coal Mine Waste, Refuse Piles, Impoundments

The berm on top of the Schoolhouse Canyon refuse pile has been reinforced.

Some areas on the refuse pile could impound water. These need to be graded.

#### 8. Noncoal Waste

The previous inspection report discussed a dumpster near the entrance to the preparation plant. I thought the dumpster was inside the disturbed area boundary as shown on the map, but the locations of the disturbed area markers show it is outside the disturbed area. The dumpster appears to be the responsibility of the adjacent Carbon Steam Plant.

(Continuation sheet)

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PERMIT NUMBER: ACT/007/004

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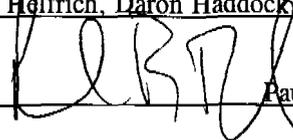
13. Revegetation

Regraded areas in Sowbelly Gulch have been seeded and mulched. Mr. Mills did not know if the riparian area seed mix had been used near the channel. The plan says that species mix 3 will be used within 20 feet of the main channel. Snow prevented me from seeing what species were seeded.

Copy of this Report:

Mailed to: Marcia Petta (OSM), Lonnie Mills (AMAX)

Given to: Joe Helfrich, Daron Haddock (DOGM)

Inspector's Signature: 

Paul B. Baker #41

Date: October 26, 1994