



**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: July 14, 1994, 9:30 A.M. to 4:30 P.M.  
 Date of Last Inspection: June 13 and 15, 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. Box <sup>444</sup> Helper, Utah  
 Type of Mining Activity: Underground X Surface    Prep. Plant X Other     
 State Official(s): Paul Bake, Sharon Falvey, and Randy Harden  
 Company Official(s): Lonnie Mills, Bill Hendrickson, Mel Coonrod, David Steed, and Todd Welty  
 Federal Official(s): None  
 Weather Conditions: Partly Cloudy, 80'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

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 checked="" 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 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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: July 14, 1994

(Comments are Numbered to Correspond with Topics Listed Above)

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

The Division is still working to finalize the termination of the December 18, 1990, Division Order and subsequent violation. A new Division Order will probably be issued when the 1990 Division Order is terminated.

### 4. Hydrologic Balance

#### a. Diversions

The berm on the east side of SBRD-1D that leads to pond 16 was enlarged to abate violation N94-41-2-2, part 1 of 2, then it was graded again to more closely match the design in the plan. The berm is now immediately adjacent to the main channel in most places, and it has a swale as the plan calls for. However, in putting the berm close to SBRD-1D, the side of this channel was steepened to about 2h:1v instead of 3h:1v. The operator will need to ensure that SBRD-1D will still be able to handle the design water flow.

The berm on the west side of SBRD-1D has not yet been completed because grading in the area of pond 17 is not yet completed. Straw bales have been anchored in the upper portions of the ditch formed by the berm in order to treat water from as much of the area as possible.

Riprap placement and other construction in SBRD-1 and other channels is continuing. The riprap in SBRD-1D appears to be of adequate size and gradation, but there may be some gradation problems in SBRD-1B. Other potential problems that the operator should watch closely include the depth of the channels and the riprap depth.

#### b. Sediment Ponds and Impoundments

Pond 17 has been mostly excavated. Mr. Coonrod said that there have been two trackhoes and one dozer working there almost continually for the past several days. To allow completion of this pond and diversions leading to it, the abatement date for violation N94-41-2-2, part 1 of 2, was extended to August 1, 1994.

#### c. Other Sediment Control Measures

The graded area south of SBRD-2 was furrowed as an interim sediment control measure.

The silt fences in the upper part of the No. 4 Mine canyon need to be maintained.

### 12. Backfilling and Grading

We discussed the requirements to cover the coal seam in the No. 4 Mine canyon. The operator has tentatively agreed, at least verbally, to cover the mined seam with four feet of material and to reconfigure the drainage and grading plans accordingly.

We discussed how to better backfill the highwall in Sowbelly Gulch. There is some material to the south of SBRD-2 that could be used for this purpose. By grading this material around to the highwall area, the area near SBRD-2 will probably better match the morphology of surrounding slopes.

On the east side of the upper portion of the disturbed area in Sowbelly Gulch, there is a bench that could be broken up and where drainage to the lower slopes needs to be better controlled. There are some gullies that have armored themselves naturally, but these would need energy dissipation structures at the bottom to prevent gully through the regraded lower slopes.

INSPECTION REPORT

(Continuation sheet)

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PERMIT NUMBER: ACT/007/004

DATE OF INSPECTION: July 14, 1994

13. Revegetation

We talked about whether it would be necessary to reseed this fall. Despite the extremely dry and hot summer, the plants that emerged this spring are mostly surviving. However, success is spotty. I believe the operator should probably plan to reseed some of the areas seeded last fall but that seeding the entire area will probably not be needed. If the hot, dry weather continues, however, the seedlings may not survive and reseeding the entire area could be necessary.

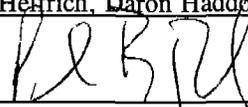
20 Air Quality Permit

The roads and some other areas in Sowbelly Gulch are being watered. The Division of Air Quality inspected the site on June 29 and found it to be in compliance with their regulations.

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: July 27, 1994