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ACT/007/004 #2

EarthFax

October 20, 1992

DIVISION OF
OIL, GAS & MINING

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Mr. Rick P. Summers
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Subject: Schoolhouse Canyon Hydrology, Preparation Plant permit revisions, Castle Gate Mine, Carbon County, Utah. Permit No. ACT/007/004.

Dear Rick:

A meeting was held in your office today to discuss several issues concerning revisions to the permit for the Castle Gate Mine in Carbon County, Utah currently owned by AMAX Coal Company. The following people were in attendance:

Bill Hendrickson	EarthFax Engineering, Inc.
Jim Coburn	EarthFax Engineering, Inc.
Rick Summers	Utah Division of Oil, Gas and Mining (UDOGM)
Sharon Falvey	UDOGM

The meeting covered topics related to NOV N92-39-7-1 issued September 16, 1992 relating to a failed diversion on the Preparation Plant Refuse Pile, a UDOGM letter to AMAX Coal Company dated September 25, 1992 disapproving some Schoolhouse Canyon hydrology permit revisions, and your review of the permit revision submittal dated September 8, 1992 concerning the Preparation Plant. The following items were discussed:

1. The September 8, 1992 permit revision text and Exhibit 3.4-2 regarding the generic ditch were reviewed. Mr. Coburn explained his rationale for determining the contributory watersheds. No further action is required?
2. All agreed that a single appendix containing only the Schoolhouse Canyon hydrology calculations should be set up. Calculations concerning all three phases (current operation, final operation, and reclamation) should be included in this appendix. For each diversion, the largest of the three flows should be used to design the drainage channel. Most likely, the largest flows will occur when the Refuse Pile is full, but before reclamation starts.
3. The narrative in the hydrology sections should be rewritten to indicate that the recommended channel design for each diversion will cover all phases of the mine.

of reclamation

*OK
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Rick P. Summers
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- ✓ 4. The tables in the permit should be revised to indicate that each diversion will have only one recommended size to cover all phases.
- ✓ 5. The exhibits should be revised to show both operation and reclamation diversion labels.
- ✓ 6. AMAX plans to construct a channel on the right side of the face of the Refuse Pile where diversion CGD-7 (lower) has failed, so the notation for proposed culvert CGC-9 should be removed from Exhibit 3.4-2.
- ✓ 7. All references to grouting of diversions CGD-6 (lower) and CDG-7 (lower) on Exhibit 3.4-2C and in the text should be eliminated. The riprap should be sized for the maximum design flow that will occur over the life of the mine (all phases).
- ✓ 8. The diversion reach boundaries on Exhibit 3.4-3A (Treatment map) should be identified. Reach boundaries are properly shown on Exhibit 3.4-3.
- ✓ 9. The possibility of a hydraulic jump occurring at transition slopes (benches), along the diversions on the face of the Refuse Pile should be evaluated. The concern is riprap design.
- ✓ 10. Exhibits used to compile hydrology tables should be referenced at the base of the tables.
11. AMAX Coal, in conjunction with EarthFax Engineering, should submit the information identified above. UDOGM will review the submittal as part of the process to abate the NOV and address the September 25, 1992 letter from Daron Haddock referenced above.
✓ *Clarity. Mill Requirements. Filter Design*
12. The Refuse Pile should be sampled so that the filter blanket and riprap gradation can be designed for the channel which will replace CGD-7 (lower). This information will accompany the hydrology information in the upcoming submittal.
- ✓ 13. Rich Allison, of AMAX Coal Company, can ask for an extension for the NOV abatement time. The time necessary to organize the submittal and to construct the permanent diversion should be considered. Reference today's meeting with Rick and Sharon. The request should be addressed to Daron Haddock.
- ✓ 14. The CGC-4 culvert design for the 100-year 6-hour event should be included in the Schoolhouse submittal.
15. Sharon and Rick are available on October 27, 1992 to meet with Richard Allison, if necessary.
Fr 30th

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Sowbelly Canyon issues:

2 16. Upon approval of the reclamation plan for Sowbelly Canyon, UDOGM will probably request cross section drawings of reclamation channels. The following information should be included:

- filter blanket thickness
- riprap depth and size
- extent of excavation
- channel geometry

Hardscrabble Canyon issues:

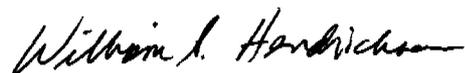
17. UDOGM would like to see a filter blanket design for the No. 4 mine canyon reclamation channel. Samples will not be taken to initiate the design until the rough grading of the side canyon is complete.

Prior to the implementation of Design

18. Mr. Summers mentioned that approval of the September 29, 1992 submittal for the reclamation of the No. 4 Mine Canyon is imminent.

Please contact Richard Allison of AMAX Coal Company or myself if you are not in agreement with any of the items listed above.

Sincerely,



William S. Hendrickson, P.E.

cc: Richard Allison, AMAX Coal Company