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~~Black Hawk~~  
Black Hawk



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
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March 26, 1985

Mr. Jack Higgins  
2783 Holiday Ranch Loop  
Park City, Utah 84060

Dear Mr. Higgins:

Re: Cessation Order, Black Hawk Mine, INA/043/001,  
Summit County, Utah

On March 1, 1985 a Cessation Order was issued to Jack Higgins for conducting activities attendant to underground coal mining without Division approval.

Operations to be ceased immediately:

Any activity associated with the site development of the Black Hawk Mine.

Affirmative obligations and time for abatement:

Cease all operations immediately. Submit a mining and reclamation plan to the Division or reclaim the area known as the Black Hawk mine in accordance with the reclamation requirements of Utah's permanent coal regulatory program within 60 days, no later than April 30, 1985.

On March 19, 1985 the site was visited by Division representatives Joe Helfrich and Randy Harden. Men and equipment were in use at the site in direct violation of the Cessation Order.

On March 22, 1985, Mr. Jack Higgins and Mr. Leon Nason, representing Black Hawk Mine, met with the Division to discuss bonding and reclamation requirements for the mine.

Interest in pursuing the mining of sand and gravel conflicts with the regulatory responsibilities of the Division by encroaching on and operating within the coal mine area. To continue sand and gravel operations within the coal mine area, the operator must submit maps and plans depicting such operations within the area previously disturbed and operated as an underground coal mine.

In order for the sand and gravel operations to continue, the applicant must satisfy the requirements of the Cessation Order and incorporate any impacts of the sand and gravel operations on the

Page 2  
Mr. Jack Higgins  
March 26, 1985

coal mine impacted areas into the reclamation plan. These sand and gravel operations may be considered as a post mining land use if the applicant can prove that such operations are viable.

In summary, the following information and requirements will have to be provided to the Division in order to abate the Cessation Order:

1. A reclamation plan or MRP will have to be developed and presented to the Division for approval. The reclamation plan shall be presented under the general requirements for permits and permit applications, Part UMC 771.
  - a. Maps and plans must be provided which clearly identify the location and extent of the area disturbed as defined under UMC 771.23(e).
  - b. Under the provisions of UMC 784.13, the applicant shall provide all the information required for the Reclamation Plan: General Requirements.
2. A performance bond or deposit shall be submitted to the Division upon approval of the reclamation plan.
  - a. Amount and duration of the bond will be determined by the Division under UMC Part 805.
  - b. Form conditions and terms of the bond shall be in accordance with Part UMC 806.

Until such information is provided to the Division and the applicant has been shown to be in compliance with regulations pertaining to surface effects of underground coal mining activities, any operation or activity on the site other than that required to perform the work necessary to come into compliance will be in violation of the cessation order.

Staff at the Division are available to answer any technical questions with regard to the requirements contained within the regulations.

Best regards,



Dianne R. Nielson  
Director

re  
cc: B. W. Roberts  
J. Christensen, Atty

0012Q-23-24

ESTIMATED RECLAMATION BOND  
Utah Coal and Energy  
Black Hawk Mine  
INA/043/001, Summit County, Utah  
March 21, 1985

Current Situation:

Presently, the Black Hawk Mine has no approved mine or reclamation plan and has not posted bond for the area. The Division must require that Utah Coal and Energy submit a mining and or reclamation plan for approval and post a performance bond for reclamation of the disturbed area under Part UMC 700 and Part Umc 800 of the Coal Mining and Reclamation Program, Chapter I.

Reclamation plans and maps currently on file with the Division are not adequate for approval and they do not include a detailed cost breakdown for reclamation activities on the site.

Initial Review and Cost Estimate:

Based on initial review of the maps and plans on file with the Division and on a site visit on March 19, 1985, the following assumptions have been made in determining a tentative bond amount for the Black Hawk Mine.

On the RECLAMATION AND MINE MAP FOR THE BLACK HAWK COAL MINE, a perimeter was delineated to include the disturbed area for the site. Total area included in the disturbed area was calculated using a planimeter and is approximately 19 acres. Within the disturbed area, two metal fabricated buildings are included which according to the operator, are to remain for post mining land use. Consequently, the access road leading to these structures and the immediate area around the buildings would not have to be reclaimed. The estimated area for the roads and buildings is estimated at approximately 3 acres. Thus the area to be reclaimed would be approximately 16 acres. Without a detailed survey of the site and more detailed maps of the area, a more accurate determination of the disturbed area cannot be determined.

Due to the lack of detailed information concerning reclamation of the site, it is difficult to determine an accurate bond amount for the Mine. Initially, it was thought that using the average per acre cost for surface disturbance of underground coal mines in the State would be applicable for use as an interim bond amount. This average is estimated at \$24,000 per acre, which would make the bond for the Black Hawk Mine approximately \$384,000. However, due to site specific conditions, this estimate is could be considered excessive.

A rough breakdown of the costs for the site were made in order to determine a more realistic amount for the interim bond amount. Procedures and unit costs used to determine the bond amount are similar to those used by the Division on other coal reclamation cost estimates.

Demolition and earthwork costs were determined from the Means Site Work Cost Data 1985. Revegetation costs are estimated from similar work on other coal operations. The inflation rate is based on Means Cost Data Index averaged over the past three years.

#### Demolition and Cleanup

Includes the cost of demolition and removal of the existing facilities on the site, excluding the two fabricated metal shops. Costs include the tipple, binwall, conveyors, mining equipment, utilities, scrap and other debris.

#### Slope and Highwall Reduction

Reduction of slopes along the bench cut to the west and along the highwall. Volume estimate based on backfill grading using dozers. Earthwork quantity based on rough estimate from existing contour map.

#### General Earthwork and Site Grading

Includes earthwork remaining for the rest of the site, finish grading for reclamation and topsoil distribution. Quantities based on rough estimate from existing contour maps.

#### Revegetation

Includes the cost of seeding, mulching and fertilization of the estimated 16 acres to be reclaimed.

#### Maintenance

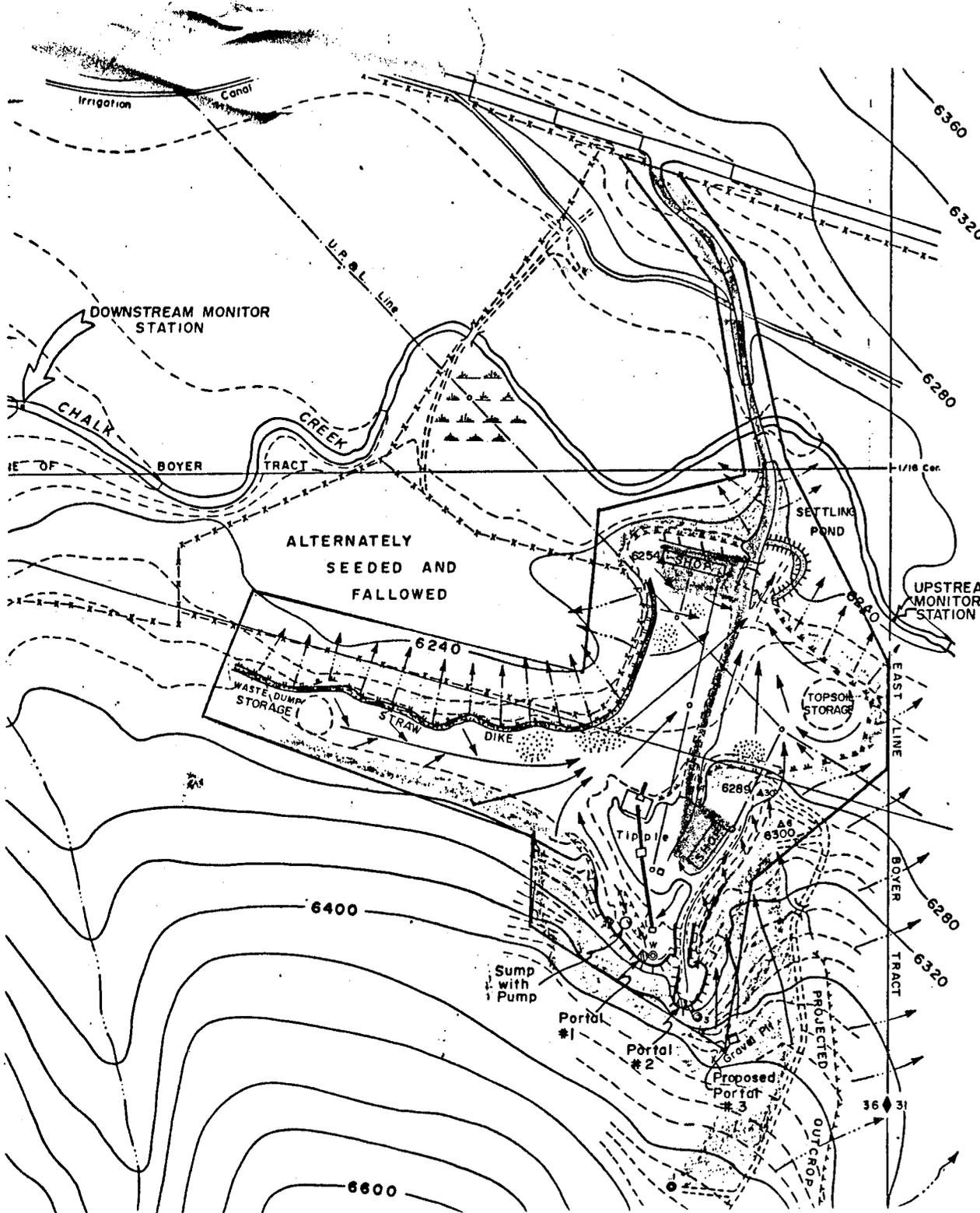
Maintenance requirements for the site are for a period of 10 years after reclamation construction and include repair and maintenance for rills and gullies and for replanting local areas of incomplete or inadequate vegetation density.

#### SUMMARY

The disturbed area outlined on the map is a rough approximation and should be surveyed for a final determination of the disturbed area. Cost estimate is only a preliminary estimate for the bond amount and the approved reclamation plan would have to be prepared in order to provide a complete and comprehensive cost breakdown.

Based on the 16 acres of disturbed area, the adjusted cost per acre is \$7519 per acres, considerably less than the average of \$24,000 per acre as previously cited. However, this preliminary estimate is considered adequate based on current site specific information for the Black Hawk Mine.

The Preliminary cost estimate for the Black Hawk Mine should only be used until the applicant provides suitable information to complete the surety requirements of the Division. In consideration of the current interest and activity on the site, it will be to the advantage of both the State and Utah Coal and Energy to submit plans and details at the earliest possible date.



-  Elevation Point
-  Culvert
-  Graded Roads
-  Fence
-  Location of Drill Hole
-  Powerline Showing Location of Poles
-  Natural Edge of Bluff
-  Natural Drainage Pattern (Generalized)
-  Runoff Drainage Pattern in Area of Influence After Filling of Low Areas and Grading.
-  Areas to be Filled to Obtain Proper Drainage
-  Straw Dike
-  Retaining Wall
-  Settling Pond (See Plate 3 for Details of Construction)
-  Large Areas to be Seeded
-  40 Foot Contour
-  10 Foot Contour
- ESTIMATED DISTURBED AREA - 19 ACRES  
I.R.H. 3-20-85**
-  **FACILITIES TO REMAIN FOR  
POST MINING LAND USE  
AREA - 3 ACRES**

