

0003

**BEAVER CREEK Coal Company**

Post Office Box 1378  
Price, Utah 84501  
Telephone 801 637-5050

*INA/007/017 # 2 + 4*  
*Mine file*

October 27, 1986

Mr. Lowell P. Braxton  
Administrator  
Division of Oil, Gas & Mining  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

**RECEIVED**  
OCT 31 1986  
DIVISION OF  
OIL, GAS & MINING

Re: Permit Approval Stipulations  
Gordon Creek No. 3 & 6 Mines  
INA/007/017, #2 & #4  
Carbon County, Utah

Dear Mr. Braxton:

Enclosed are eight copies of the Beaver Creek Coal Company response to the following stipulations:

- (1) UMC 817.52 - (1,2) - JRF
- (2) UMC 817.113 - (1) - KMM
- (3) UMC 817.114 - (-1) - KMM
- (4) UMC 817.150 - .156 - (1) PGL

In addition, UMC 817.48 (1) - DD has been met by the burial of the subject material beneath a minimum of 4 feet of non-toxic and nonacid-forming material.

Stipulations UMC 817.46 - (1,2) - JRF will be met as prescribed; however, due to the heavy storms early in the reclamation process and slow drying on site, the sediment pond reconstruction will not be completed until 11/14/86. Beaver Creek Coal Company therefore requests an extension of the 10/31/86 date to 11/14/86, due to the uncontrollable delay.

If you have any questions, or need any further information, please let me know.

Respectfully,

Dan W. Guy,  
Manager of Permitting/Compliance

DWG/rs

cc: Jay Marshall  
File

3.5.5 Revegetation Plan (continued)

3.5.5.2 Seeding

of application is attached. Hydro-seeding and mulching will be carried out in conjunction with the earth work of phase 1. Recommendations for the hydro-seeding and mulching operation are as follows:

This methodology involves the use of a hydro-seeder to apply the seed and tack to all disturbed areas and then to overspray the seeding with a wood-fiber mulch (at least 3,000 lbs/acre long fiber) in combination with fertilizer and additional tackifying agents.

Stipulation UMC 817.114 (1)

The following rates of material should be utilized:

(Rates of tack were developed with respect to velocity and erosive power of water which is proportional to the square root of the slope.) An empirical factor was determined from laboratory and field studies to arrive at the minimum tack fiber ratio. Thus, 60 pounds of tack per ton of fiber is about minimum for slopes up to 20 percent and the empirical factor is determined as 60; 25 percent = 15. A 25 percent slope is about maximum for the minimum amount of tack. For a 100percent slope (1 : 1 or 45°) the ratio of tack to fiber is calculated as:

### 3.5.5.3 Mulching

Following the seeding effort the entire area of disturbance will be hydro-mulched and fertilized. The rate of application of the wood fiber mulch is:

at least 3,000 lbs/acre on all areas

The mulch will also be fortified with tac as previously indicated according to slope. Incorporated in the mulch slurry will be the recommended amount of fertilizer.

### 3.5.5.4 Planting

Planting of woody species is broken down into three categories: 1) Seedling-Oak brush, 2) Saplings, and 3) Willow cuttings. The species and numbers of individual plants are correlated to the reference areas and the recommendations of UDWR to maximize riparian habitat and wildlife usage. The planting of woody species will take place during the Fall of 1986. A drawing will be provided to the Division indicating location, number, type and species of plantings.

Stipulation UMC 817.113 (1)

#### 1) Seedlings-Oak Brush

Planting will be done utilizing a powered auger with a capability of drilling a three-inch-plus diameter hole to a depth of 16 inches. The roots of the seedling will be arranged in as near natural position as possible paying special attention not to "J" the root tips. (See Figure 3-9).

By holding the seedling at the root crown, soil should be compacted back around the roots being careful to

3.2.10 Transportation, Roads, Parking Areas, Railroad Spurs  
(continued)

Roads (continued)

- (3) The road is on private surface, and use will be limited to access by the landowner, Utah Power & Light, a few stockmen, and Beaver Creek Coal Company for post-reclamation inspection and maintenance.

The downgrade of this road will have no adverse impacts on the area, since the reclassification will provide for a narrower maintained road width and much less use than when it was a haul road. The Class II Road was previously permitted as a Class I Haul Road. The existing drainage controls (culverts, ditches, etc.) will be left in-place to ensure drainage control to Class II standards. The road surface will be graveled and maintained at a 16-foot width in a stable condition through the use of a road grader as needed. Re-graveling will occur only on the area from the road junction at the sediment ponds to the junction with the U.P. & L. road. Drainage ditches, culverts and erosion controls will be maintained in an operable condition throughout the liability period. Maintenance will consist of cleaning, reshaping of ditches and road surfaces, and replacement of controls, if needed. Maintenance will be on an as-needed basis; however, checks will be made at least on a monthly basis when accessible.

The Access Road will be retained as a Class II Road, and will be maintained to allow for a minimum of 12-foot travelable width with existing drainage controls. The Upper Access Road was previously permitted as a Class II Road. The existing drainage controls (culverts, ditches, etc.) will be left in-place to ensure drainage control to Class II standards. The road surface will be graveled and maintained at a 12-foot width in a stable condition through the use of a road grader as needed. Drainage ditches, culverts and erosion controls will be maintained in an operable condition

Stipulation UMC 817.150-  
6 (1)

7.2.6 Surface Water Monitoring Plans (Continued)

The water samples are currently analyzed at the Book Cliffs Laboratory in Steamboat Springs, Colorado. All tests are performed using accepted standard methods.

Stipulation UMC 817.52 (2) An additional station (3-4-W) will be added to the monitoring program after reclamation. Station 3-1-W will then show affects from the No.3/6 Mine reclaimed area, 3-4-W will reflect natural drainage, 3-2-W will show results of any pond overflow. (3-3-W is no longer accessible and will be eliminated.)

Stations 3-1-W and 3-4-W will be monitored for the parameters and frequencies listed on Figures 7-5 and 7-6. The monitoring will continue until bond release. Station 3-2-W will continue to be monitored as required by the NPDES Permit. At the cessation of monitoring, all wiers or other monitoring devices will be removed.

Water monitoring samples will be taken on a quarterly basis for two years following reclamation, and bi-annually (two per annum) for the succeeding years until bond release. The following field measurements will be taken during each sample period: Flow, pH, Specific Conductivity, Temperature and Dissolved Oxygen (ppm) (perennial streams only). The following laboratory measurements will be made on each sample collected: Total Settled Solids, Total Suspended Solids, Total Dissolved Solids, Total Hardness (as  $\text{CaCO}_3$ ), Acidity ( $\text{CaCO}_3$ ), Calcium, Chloride, Iron, Magnesium, Total Manganese, Potassium, Sodium, Sulfate, Oil and Grease, and a Cation-Anion Balance. (See Figure 7-6).

FIGURE 7-5  
 SURFACE WATERING PROGRAM  
 GORDON CREEK NOS. 3 & 6 MINES

| STATION | LOCATION   | TYPE                | FREQUENCY                    | FLOW DEVICE          | RESULTS TO: | REMARKS  |
|---------|--|---------------------|------------------------------|----------------------|-------------|--|
| *3-1-W  | Coal Canyon<br>above #3 mine<br>sed. ponds       | Ephemeral<br>Stream | Quarterly                    | Wier                 | DOGM, OSM   | Below No.3/6 Mine<br>Reclaimed Area              |
| 3-2-W   | Coal Canyon<br>below sed.<br>pond                | Discharge           | 2/mon.<br>(per NPDES Permit) | Wier                 | DOGM, OSM,  | Also monitored<br>for EPA as per<br>NPDES permit |
| 3-3-W   | Underground                                      | Ground<br>Water     | Quarterly                    | Wier or<br>flowmeter | DOGM, OSM   | No longer<br>accessible                          |
| 3-4-W   | Coal Canyon<br>above #3 mine<br>site (main fork) | Ephemeral<br>Stream | Quarterly                    | Wier                 | DOGM, OSM   | Water undis-<br>turbed drainage                  |

\*Stipulation 817.52 (2)

FIGURE 7-6  
GORDON CREEK NO. 3 & 6 MINES  
HYDROLOGIC MONITORING PROGRAM  
DATA REPORT FORM

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|                      |                        |                         |                       |
|----------------------|------------------------|-------------------------|-----------------------|
| STATION              | *3-1-W                 | 3-2-W                   | 3-4-W                 |
| LOCATION             | Coal Cyn. - Pond Inlet | Coal Cyn. - below ponds | Coal Cyn. - Main Fork |
| TYPE                 | Disturbed Runoff       | Discharge               | Ephemeral Stream      |
| FREQUENCY            | Quarterly              | 2/mo. per NPDES Permit  | Quarterly             |
| FLOW                 |                        |                         |                       |
| pH                   |                        |                         |                       |
| SPEC. COND.          |                        |                         |                       |
| TEMPERATURE          |                        |                         |                       |
| DISS. O <sub>2</sub> |                        |                         |                       |
| SETT. SOLIDS         |                        |                         |                       |
| T.S.S.               |                        |                         |                       |
| *T.D.S.              |                        |                         |                       |
| HARDNESS             |                        |                         |                       |
| ACIDITY              |                        |                         |                       |
| CARBONATE            |                        |                         |                       |
| BICARBONATE          |                        |                         |                       |
| CALCIUM              |                        |                         |                       |
| CHLORIDE             |                        |                         |                       |
| IRON                 |                        |                         |                       |
| MAGNESIUM            |                        |                         |                       |
| TOTAL Mn             |                        |                         |                       |
| POTASSIUM            |                        |                         |                       |
| SODIUM               |                        |                         |                       |
| SULFATE              |                        |                         |                       |
| OIL & GREASE         |                        |                         |                       |
| CATION-ANION BAL.    |                        |                         |                       |
| REMARKS              |                        |                         |                       |

\*Stipulation 817.52 (1,2)

Sampled by \_\_\_\_\_  
Date \_\_\_\_\_

INA/007/017

RECEIVED  
OCT 24 1986

**AFFIDAVIT OF PUBLICATION**

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH }  
County of Carbon, } ss.

I, Dan Stockburger, on oath, say that I am  
the General Manager of The Sun-Advocate,  
a weekly newspaper of general circulation, published at Price,  
State and County aforesaid, and that a certain notice, a true copy  
of which is hereto attached, was published in the full issue of  
such newspaper for One (1)  
consecutive issues, and that the first publication was on the  
15th day of October, 19 86 and that the  
last publication of such notice was in the issue of such newspaper  
dated the \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_

*Dan Stockburger*

Subscribed and sworn to before me this  
22nd day of October, 19 86

*Holly G. Baker*  
Notary Public.

My Commission expires My Commission Expires October 22, 1990, 19 \_\_\_\_\_

Publication fee, \$ 25.80

**NOTICE OF PERMIT APPROVAL**

To Whom It May Concern:  
Persuant to the Utah Coal Mining and Reclamation Act (Utah Code Annotated 1953, Section 40-10-1 et seq.), and the "Regulations Pertaining to Surface Effects of Underground Coal Mining Activities" (Final Rules of the Utah Board of Oil, Gas and Mining), The Utah Division of Oil, Gas and Mining has issued a Permit to Reclaim to Beaver Creek Coal Company for its permit application No. INA/007/017. The Company will reclaim the permit area in accordance with the approved Mining and Reclamation Plan for the Gordon Creek #3 and #6 Mines which includes the following lands:

- Township 13 South, Range 8 East, SLBM
- Section 8: SE $\frac{1}{4}$ SE $\frac{1}{4}$
- Section 9: S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$
- Section 16: SE $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ ; Portions of SW $\frac{1}{4}$ SE $\frac{1}{4}$ , Portions of NW $\frac{1}{4}$ SE $\frac{1}{4}$
- Section 17: NE $\frac{1}{4}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$
- Section 21: Portions of W $\frac{1}{2}$ NE $\frac{1}{4}$ , Portions of SE $\frac{1}{4}$ NW $\frac{1}{4}$

This permit was approved by the Utah Division of Oil, Gas and Mining on September 19, 1986. A copy of the permit, the Decision Document and Technical Analysis is on file at the following location:

Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180-1203  
(801) 538-5340

Anyone having comments pertaining to the Gordon Creek #3 and #6 Mines should contact Dr. Dianne R. Nielson, Director, Utah Division of Oil, Gas and Mining at the address referenced above.

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