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Beaver Creek Coal Company  
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File ACT/007/022

#3 (modification)



December 17, 1982

RECEIVED  
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Mr. James W. Smith, Jr.  
Coordinator of Mined Land Development  
Division of Oil, Gas and Mining  
Department of Natural Resources  
4241 State Office Building  
Salt Lake City, Utah 84114

DIVISION OF  
OIL, GAS & MINING

Attention: Ms. Lynn Kunzler

Dear Mr. Smith:

Enclosed please find information pertaining to Beaver Creek Coal Company's plans to add Raw Coal Storage Area in their C.V. Spur Coal Process and Loadout Facility. The plans were reviewed during a visit by several members of your staff on December 13, 1982, and verbal approval to proceed was granted to Beaver Creek by Lynn Kunzler on December 15, 1982.

If you have any questions or problems concerning the enclosed information, please do not hesitate to contact me in Price at (801) 637-5050.

Sincerely,

BEAVER CREEK COAL COMPANY

Scott M. Raymond  
Environmental Coordinator

SMR/daf

Enclosures

BEAVER CREEK COAL COMPANY  
PLANS FOR ADDING RAW COAL STORAGE AT  
THE C.V. SPUR COAL PROCESSING AND LOADOUT  
FACILITY

Site Description

Beaver Creek Coal Company's proposed new Raw Coal Storage Area for the C.V. Spur Coal Processing and Loadout Facility is a 4.8 acre area located adjacent to the main coal haulage road just south of the Shop/Lab/Warehouse. This area is delineated on the enclosed Operations Map.

Operation Plan

Beaver Creek Coal Company intends to begin use of the proposed Raw Coal Storage Area immediately. As shown on the Surface Facilities Map, the area is divided into storage area required immediately and an area designated for future expansion. The future expansion area is located adjacent to the south boundary of the area required immediately for coal storage.

Soil Resources and Handling

As indicated on the enclosed Soils Map, the in-place soils in the proposed Raw Coal Storage Area are classified as either Chipeta Silty Clay or Killpack Silt Loam. A copy of the chemical and physical analyses of these soils is enclosed. Also included is a table showing the approximate seedbed quality material stripping depths and volumes for each soil type.

Due to inclement weather and saturated soil conditions at this time, stripping of the in-place soils for the area needed immediately for coal storage is not feasible. However, Beaver Creek Coal Company will replace the volume of soil not stripped with a seedbed material of equal volume and equal or better quality.

Presently, two options are available for obtaining the substitute seedbed material. The first would be to use the material that composes the truck dump located just to the north of the proposed Raw Coal Storage Area. This material will be sampled and analyzed for suitability as substitute topsoil.

### Soil Resources and Handling (Continued)

A second option for soil substitution would be to obtain the material from an off-site location. Currently, the preferred site is Four Mile Hill, which is located several miles from the C.V. Spur Facility and has been used as a "borrow area" in the past. If this site is chosen, it will first be sampled and analyzed for suitability as substitute topsoil.

At this time, Beaver Creek intends to remove and stockpile the topsoil located in the future stockpile expansion area. However, if weather or other conditions prohibit this action suitable material will be substituted in a manner similar to the one described above.

### Drainage Control

No additional drainage control is necessary. Runoff from the proposed Raw Coal Storage Area will be handled by the existing C.V. Spur drainage system. Sedimentation control will be provided by Sedimentation Pond No. 5.

### Revegetation

Revegetation of the area will be conducted at the time of reclamation in the manner described in the latest submittal of the C.V. Spur Mining and Reclamation Plan.

### Hydrologic Monitoring

During the future expansion of the Raw Coal Storage Area, groundwater sampling well CV-2-W will be buried. Prior to disturbance of the well Beaver Creek will evaluate the significance of the past data obtained from the well. Lately, no samples have been taken at that point because the well has been dry. However, if it is determined that it is necessary to continue sampling at CV-2-W, a new well will be drilled at a point near the current well location, but out of the coal storage area.

SEEDBED QUALITY MATERIAL - APPROXIMATE VOLUMES

Area of Immediate Disturbance

| <u>Mapping Unit</u> | <u>Stripping Depth</u> | <u>Acreage</u> | <u>Volume (BCY)</u> |
|---------------------|------------------------|----------------|---------------------|
| Chipeta (ChC)       | 6"                     | 1.6            | 1300                |
| Killpack (KmB)      | 6"                     | .5             | 375                 |
|                     |                        |                | TOTAL <u>1675</u>   |

Area of Future Expansion

| <u>Mapping Unit</u> | <u>Stripping Depth</u> | <u>Acreage</u> | <u>Volume (BCY)</u> |
|---------------------|------------------------|----------------|---------------------|
| Chipeta (ChC)       | 6"                     | .25            | 190                 |
| Killpack (KmB)      | 6"                     | 2.1            | 1680                |
|                     |                        |                | TOTAL <u>1870</u>   |

Table ~~12~~ 8-4

Soil Chemical and Physical Analysis

| Sample Indent                                | PH  | EC   | SAT% | NA     | CA    | MG     | SAR  | AK   | TEXT | SN  | SI  | CL | VFS | N  | OM  | P  | UM  | D    | PHIS |
|--|-----|------|------|--------|-------|--------|------|------|------|-----|-----|----|-----|----|-----|----|-----|------|------|
| Billings / Hole: 3                           |     |      |      |        |       |        |      |      |      |     |     |    |     |    |     |    |     |      |      |
| 0-2  | 6.9 | 10.1 | 43.3 | 8.84   | 47.69 | 27.74  | 1.4  | 450  | SILO | 22  | 76  | 2  | 16  | 7  | 1.7 | 0  | 9.2 | 0.47 | 0.5  |
| 2-7  | 7.0 | 15.7 | 39.6 | 16.69  | 50.83 | 65.68  | 2.2  | 300  | SILO | 21  | 78  | 1  | 16  | 3  | 1.2 | 0  | 9.2 | 0.40 | 0.4  |
| 7-18   | 7.3 | 28.0 | 38.3 | 51.78  | 53.16 | 137.54 | 5.3  | 210  | SILO | 19  | 78  | 3  | 17  | 4  | 0.9 | 0  | 9.2 | 0.50 | 0.5  |
| 10-45  | 7.5 | 43.1 | 43.0 | 95.42  | 49.65 | 223.53 | 8.2  | 190  | LO   | 37  | 48  | 15 | 14  | 7  | 0.7 | 4  | 9.2 | 0.73 | 0.3  |
| 45-60  | 7.5 | 28.0 | 53.8 | 72.46  | 35.45 | 136.40 | 7.8  | 290  | CLLO | 31  | 37  | 32 | 14  | 6  | 0.8 | 11 | 9.2 | 0.92 | 0.5  |
| Chipota / Hole: 5                            |     |      |      |        |       |        |      |      |      |     |     |    |     |    |     |    |     |      |      |
| 0-3  | 7.7 | 4.8  | 45.4 | 19.91  | 15.50 | 5.87   | 6.1  | 790  | CLLO | 35  | 33  | 32 | 14  | 5  | 1.0 | 4  | 9.1 | 0.62 | 1.1  |
| 3-19   | 7.0 | 9.2  | 46.3 | 20.28  | 39.21 | 27.36  | 3.5  | 500  | CLLO | 39  | 31  | 30 | 12  | 4  | 0.8 | 0  | 9.0 | 0.65 | 0.5  |
| Disturbed Land Material / Hole: 6            |     |      |      |        |       |        |      |      |      |     |     |    |     |    |     |    |     |      |      |
| 0-12   | 7.1 | 10.2 | 35.3 | 31.49  | 35.97 | 30.18  | 5.5  | 290  | SILO | 61  | 34  | 5  | 12  | 39 | 1.1 | 0  | 9.2 | 0.79 | 0.4  |
| 12-60  | 7.6 | 47.9 | 37.1 | 194.21 | 56.81 | 157.13 | 18.8 | 320  | SILO | 38  | 52  | 10 | 14  | 72 | 0.7 | 5  | 9.0 | 0.98 | 2.9  |
| Killpack / Hole: 4                           |     |      |      |        |       |        |      |      |      |     |     |    |     |    |     |    |     |      |      |
| 0-2  | 7.3 | 5.3  | 37.8 | 11.04  | 19.79 | 12.34  | 2.8  | 500  | LO   | 39  | 41  | 20 | 12  | 14 | 1.4 | 5  | 8.9 | 0.25 | 1.4  |
| 2-8  | 7.4 | 5.0  | 45.4 | 23.75  | 14.21 | 2.94   | 8.1  | 570  | CLLO | 33  | 29  | 38 | 14  | 9  | 1.7 | 4  | 9.2 | 0.25 | 1.2  |
| 8-22   | 7.2 | 4.9  | 69.9 | 8.46   | 26.71 | 6.67   | 2.1  | 810  | CL   | 32  | 23  | 45 | 14  | 5  | 1.0 | 0  | 9.1 | 0.48 | 0.7  |
| 22-39  | 7.4 | 15.8 | 68.3 | 74.34  | 18.98 | 40.99  | 13.6 | 860  | CL   | 41  | 15  | 44 | 12  | 10 | 0.7 | 0  | 9.1 | 1.40 | 0.6  |
| Killpack, High Water Table Variant / Hole: 7 |     |      |      |        |       |        |      |      |      |     |     |    |     |    |     |    |     |      |      |
| 0-4  | 7.2 | 9.6  | 39.4 | 33.52  | 23.35 | 18.60  | 7.3  | 1440 | SILO | 39  | 511 | 10 | 10  | 7  | 2.4 | 15 | 9.2 | 0.60 | 1.3  |
| 4-10   | 7.3 | 5.0  | 37.2 | 10.28  | 18.91 | 12.53  | 2.6  | 460  | LO   | 36  | 48  | 16 | 12  | 3  | 1.3 | 2  | 9.2 | 0.43 | 0.9  |
| 10-16  | 7.1 | 11.4 | 50.4 | 27.60  | 35.93 | 52.91  | 4.1  | 430  | CLLO | 35  | 31  | 34 | 14  | 6  | 1.2 | 0  | 9.2 | 0.51 | 0.5  |
| 16-31  | 7.1 | 21.8 | 38.7 | 62.90  | 51.15 | 82.67  | 7.7  | 210  | SILO | 361 | 60  | 4  | 14  | 5  | 0.7 | 0  | 8.3 | 0.36 | 0.4  |

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