

BOND

Beaver Creek Coal Company  
Huntington #4 Mine  
ACT/015/004, Emery County, Utah

February 5, 1985

Reclamation Summary

A. Seal Portals	\$ 10,500.00	
B. Remove Structures	33,738.66	
C. Soil Placement	98,224.80	
D. Seedbed Material Handling	5,642.16	
E. Reseeding & Fertilizing (not including containerized stock)	8,850.00	
F. Mulching	4,375.00	
G. Protective Fencing	18,300.00	
H. Restoration of Natural Drainage	12,247.80	
I. Sedimentation Pond Site	7,024.20	
J. Maintenance & Monitoring	11,840.00	
K. Foreman Supervising	25,080.00	
	SUBTOTAL	\$235,822.62
	10% Contingency	23,582.26
		<u>\$259,404.88</u>
		(1985 dollars)

1986 - \$276,992  
1987 - \$295,773  
1988 - \$315,826  
1989 - \$337,239  
1990 - \$360,104

Cost of Equipment

1. Loader - 950B (2 1/2 cy bucket) = \$ 75.50/hr + \$15.80 OP cost/hr =  
\$91.30/hr x 1.1 = \$100.43  
Operator = \$ 28.45/hr  
\$128.88/hr = \$1,031/day
2. Crane - Groves RT-580  
20 T = \$ 69.08/hr + \$13.60 OP cost/hr = \$82.68  
x 1.1 = \$90.95  
Operator = \$ 29.10/hr  
\$120.05/hr = \$960.40/day
3. Truck and Operator - \$66.82 (including OP cost + 1.1 factor) + \$22.45/hr =  
\$89.27/hr = \$714/day
4. Cat D-7G = \$ 905.00/day + \$170.40 (OP cost) = \$1,075.40 x 1.1 = \$1,182.94  
Operator = \$ 227.60/day  
\$1,410.54/day

5. Backhoe (Cat 235) = \$1,440.00/day + \$263.60/day (OP cost) =  
\$1,703.60 x 1.1 = \$1,873.96

Operator = \$ 227.60/day  
\$2,101.56/day

6. Operator Equipment (medium) = \$28.45/hr = \$227.60/day  
Average Helper = \$21.75/hr = \$174/day  
Foreman = \$31.35/hr = \$250.80/day  
Crane Equipment Operator = \$29.10/hr = \$232.80/day

Cost of chain link from Means is \$6.10/lf (page 100 - 1985 Site Work Cost Index).

Detailed Timetable for Completion of Major Reclamation Processes

The following schedule of reclamation will be initiated within 90 days (weather permitting) of final abandonment of the mining operation:

	<u>Cumulative Time</u>
1. Seal Portals - 1 week	1 week
2. Remove Structures - 5 weeks	6 weeks
3. Soil Placement (Backfilling & Grading)	
A. Upper Pad - 2 weeks	8 weeks
B. Upper Road - 4 weeks	12 weeks
C. Coal Storage Pad, Lower Pad & Drainfield - 1 week	13 weeks
4. Seedbed Material Handling - 1 week	14 weeks
5. Reseeding & Fertilizing - 1 week	15 weeks
6. Mulching - 2 weeks	17 weeks
7. Protective Fencing - 2 weeks	19 weeks
8. Restoration of Natural Drainage - 1 week	20 weeks

The above reclamation tasks will therefore be completed within 20 weeks following the start of reclamation activities.

Removal and reclamation of sediment ponds will occur after revegetation is established on the reclaimed lands above the ponds. Regrading of the pond areas will take approximately two days.

Reclamation Cost Estimate

A. Seal Portals

3 seals x \$3,500/seal (AMR costs) = \$10,500.00

TOTAL

\$10,500.00

B. Remove Structures

Fan

Labor - 2 men x \$174/day x 2 days = \$ 696.00

Equipment (hauling)-1 truck +  
operator x 4 hrs x \$89.27/hr = 357.08

Crane - RT-580 20T Crane  
+ operator at \$120.05/hr. x 2 hrs = 240.10

SUBTOTAL

\$1,293.18

Block Building & Tank

Labor - 2 men x \$174/day x 3 days = \$1,044.00

Equipment (hauling) - 1 truck  
+ operator x 8 hrs x \$89.27/hr = 714.16

Loader + operator @ 4 hrs x  
\$128.88/hr = 515.52

SUBTOTAL

\$2,273.68

Chute and Conveyor

3 men x \$174/day x 4 days = \$2,088.00

Equipment (hauling) - 1 truck  
+ operator x 32 hrs x \$89.27/hr = 2,856.64

1 loader + operator x 16 hrs x  
\$128.88/hr = 2,062.08

SUBTOTAL

\$7,006.72

Sub-Station

\*(includes powerline removal)

Labor - 2 men x \$174/day x 4 days =	\$1,392.00
Hauling - 1 truck + operator x 16 hrs x \$89.27/hr =	1,428.32
Loader + operator x 4 hr x \$128.88 =	<u>515.52</u>
SUBTOTAL	\$3,335.84

Bathhouses

Labor - 2 men x \$174/day x 3 days =	\$1,044.00
Equipment (Hauling) - 1 truck + operator x 12 hrs x \$89.27/hr =	1,071.24
Loader - 4 hrs x \$128.88/hr + operator =	<u>515.52</u>
SUB TOTAL	\$2,630.76

Lower Water Tank & House

Labor - 2 men x \$174/day x 2 days =	696.00
Equipment (Hauling) - 1 truck + operator x 8 hrs x \$89.27/hr =	714.16
Loader - 4 hrs x \$128.88/hr + operator =	<u>515.52</u>
SUBTOTAL	\$1,925.68

Creek Water System (includes pumphouse removal)

Labor - 2 men x \$174/day x 1 day =	\$348.00
Equipment (Hauling) - 1 truck + operator x 4 hrs x \$89.27/hr =	<u>357.08</u>
SUBTOTAL	\$705.08

\*Powerline consists of four poles and wire between upper and lower substations. Incoming lines and poles belong to Utah Power & Light Company.

B.H. Water Tank & Water System

Labor - 2 men x \$174/day x 3 days =	\$1,044.00
Equipment (Hauling) - 1 truck + operator x 16 hrs x \$89.27/hr =	1,428.32
Loader - 4 hrs x \$128.88/hr + operator =	<u>515.52</u>
SUBTOTAL	\$2,987.84

Upper Pad Bridge

Labor - 2 men x \$174/day x 1 day =	\$ 348.00
Equipment (Hauling) - 1 truck + operator x 4 hrs x \$89.27/hr =	\$ 357.08
Loader - 4 hrs x \$128.88/hr + operator =	<u>\$ 515.52</u>
SUBTOTAL	\$1,220.60

Sewer System

Labor - 2 men x \$174/day x 2 days =	\$ 696.00
Backhoe + operator - \$2,101.56/day x 2 days =	\$4,203.12
Equipment (Hauling) - 1 truck + operator x 8 hrs x \$89.27/hr =	<u>\$ 714.16</u>
SUBTOTAL	\$5,613.28

Trailers (2)

Labor - 2 men x \$174/day x 2 days =	\$ 696.00
Equipment (Hauling) - 1 truck + operator x 16 hrs x \$89.27/hr =	<u>\$1,428.32</u>
SUBTOTAL	\$2,124.32

Clean-up

Labor - 2 men x \$174/day x 4 days =	\$1,392.00
Equipment (Hauling) - 1 truck + operator x 8 hrs x \$89.27/hr =	714.16
Loader - 4 hrs x \$128.88/hr + operator =	<u>515.52</u>
SUBTOTAL	\$2,621.68

TOTAL

\$33,738.66

C. Soil Placement (Backfilling & Grading)

Upper Pad & Diversions (5.35 ac)

Backhoe + operator x \$2,101.56/day x 10 days =	\$21,015.60
Cat + operator x \$1,410.54/days x 10 days =	<u>14,105.40</u>
SUBTOTAL	\$35,121.00

Upper Road (2.58 ac.)

Backhoe + operator x \$2,101.56/day x 20 days =	\$42,031.20
Coal Storage Pad (2.47 ac)	
Backhoe + operator x \$2,101.56/day x 3 days =	\$ 6,304.68
Cat + operator x \$1,410.54/days x 3 days =	<u>4,231.62</u>
SUBTOTAL	\$10,536.30

Lower Pad (1.37 ac)

Backhoe + operator x \$2,101.56/day x 2 days =	\$4,203.12
Cat + operator x \$1,410.54/days x 2 days =	<u>2,821.08</u>
SUBTOTAL	\$7,024.20

Drainfield Pad (.052 ac)

Backhoe + operator x \$2,101.56/day  
x 1 day = \$2,101.56

Cat + operator x \$1,410.54/days  
x 1 day = 1,410.54

SUBTOTAL \$3,512.10

TOTAL \$98,224.80

D. Seedbed Material Handling (12.5 ac)

Cat/Ripper + operator x \$1,410.54/day  
x 2 days = \$2,821.08

Cat/Disk + operator x \$1,410.54/day  
x 2 days = 2,821.08

TOTAL \$5,642.16

E. Reseeding & Fertilizing (12.5 ac)

Hydroseeder, Operator & Driver -  
\$700/ac x 12.5 ac = \$8,850.00

Seed = \$569.75/acre  
Labor = 100.00/acre  
Fertilizer = 30.00/acre  
\$699.75

Cuttings for Riparian habitat -  
(labor and cuttings) = \$100.00

F. Mulching (12.5 ac)

Hydromulcher, Operator & Driver -  
\$350/ac x 12.5 ac = \$4,375.00

G. Protective Fencing (12.5 ac)

6 feet high x 3,000 linear feet  
x \$6.10/linear foot installed = \$18,300.00

H. Restoration of Natural Drainage (includes Creek Pump area)

Equipment - Backhoe + operator  
x \$2,101.56/day x 5 days = \$10,507.80

Labor - 2 men x \$174/day  
x 5 days = 1,740.00

TOTAL \$12,247.80

I. Sedimentation Pond Site (0.22 ac)

Backhoe + operator x \$2,101.56/day  
x 2 days = \$4,203.12

Cat + operator x \$1,410.54/day  
x 2 days = 2,821.08

TOTAL \$7,024.20

J. Maintenance Monitoring

\$11,840/yr (including vegetative,  
hydrologic, and rills and gullies) \$11,840.00

K. Foreman Supervising

\$1,254/week for 20 weeks \$25,080.00

1. Labor rates are from the 1984 Means Construction Cost Data.
2. Operating costs are from the Rental Rate Bluebook.
3. Seed costs are from Native Plants Incorporated.
4. Inflate at 6.8 percent annually. Used preceding three years of Means Historical Cost Index.
- 5.\* Machine productivity:
  - A. Backhoe - .75 acres/day on pads.
  - B. Backhoe - 240 feet/day on roads.
  - C. Cat - .75 acres/day on pads.
6. Reclamation costs and 12.4 acre reseeding area includes USFS Special Use Permit areas at the Creek Pump and Sediment Ponds.
7. Machine cycle time is not considered since cut/fill work is in same area. (No haulage required.)

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	<u>Pounds of PLS/ac</u> <u>(Broadcast or Hydroseed)</u> Permanent	Cost/lb PLS	Cost
<u>Grass and Forb Species</u>			
Fairway crested wheatgrass ( <u>Agropyron cristatum</u> )	1	\$ 1.00	\$ 1.00
Bluebunch wheatgrass ( <u>A. spicatum</u> )	5	\$ 7.50	\$ 37.50
Streambank wheatgrass ( <u>A. riparium</u> )	4		
Slender wheatgrass ( <u>A. trachycaulum</u> )	4	\$ 2.55	\$ 10.20
Indian ricegrass ( <u>Oryzopsis hymenoides</u> )	2	\$ 8.15	\$ 16.30
Mountain brome ( <u>Bromus marginatus</u> )	3	\$ 3.50	\$ 10.50
Cicer Milkvetch ( <u>Astragalus cicer</u> )	4	\$ 4.20	\$ 16.80
Palmer penstemon ( <u>Penstemon palmerii</u> )	3	\$35.00	\$105.00
Silky lupine ( <u>Lupinus sericeus</u> )	<u>2</u>	<u>\$70.00</u>	<u>\$140.00</u>
TOTAL	28		\$337.30

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<u>STRATIFIED SHRUBS</u>	<u>Pounds of PLS/ac</u> <u>(Broadcast or Hydroseed)</u> <u>Permanent</u>	<u>Cost/lb</u> <u>PLS</u>	<u>Cost</u>
Curl-leaf mountain mahogany ( <u>Cercocarpus ledifolius</u> )	.5	\$40.00	\$ 20.00
Utah serviceberry ( <u>Amelanchier [utahensis]</u> <u>alnifolia</u> )	.5	\$62.85	\$ 31.42
Rubber rabbitbrush ( <u>Chrysothamnus nauseosus</u> var. <u>albicaulis</u> )	.5	\$68.00	\$ 34.00
Oregon grape ( <u>Mahonia repens</u> )	<u>.5</u>	<u>\$78.50</u>	<u>\$ 39.25</u>
TOTAL	2.0		\$124.67
<u>Relatively Low-Growing Shrubs</u>			
Rubber rabbitbrush ( <u>Chrysothamnus nauseosus</u> var. <u>albicaulis</u> )	.5	\$68.00	\$ 34.00
Snowberry ( <u>Symphoricarpos oreophilus</u> )	.5	\$55.00	\$ 27.50
Antelope bitterbrush ( <u>Purshia tridentata</u> )	.5	\$14.00	\$ 7.00
Oregon grape ( <u>Mahonia repens</u> )	<u>.5</u>	<u>\$78.50</u>	<u>\$ 39.25</u>
TOTAL	2.0		\$107.75
<hr/>			
Grasses and Forbs		\$337.30	
Stratified Shrubs		\$124.67	
Relatively Low Growing Shrubs		\$107.75	
TOTAL		<u>\$569.72</u>	

RIPARIAN AREA

Grasses (seed)

Agropyron trachycaulum Kentucky Bluegrass \$2.90/lb 11 lbs PLS = \$62.76

<u>Scientific Name</u>	<u>Common Name</u>	<u>PLS</u>	<u>Lbs/Acre</u>	
<u>Agropyron smithii</u>	Western wheatgrass	\$ 2.90/lb	3	= \$ 8.70
<u>Agropyron trachycaulum</u>	Slender wheatgrass	\$ 3.35/lb	2	= \$ 6.70
<u>Bromus carinatur</u>	Mountain brome	\$ 3.00/lb	2	= \$ 6.00
<u>Carex spp.</u>	Sedge	\$20.00/lb	2	= \$40.00
<u>Poa pratensis</u>	Kentucky bluegrass	\$ .68/lb	<u>2</u>	= <u>\$ 1.36</u>
			11# PLS	\$62.76

Trees and Shrubs

<u>Mohonia repens</u>	Creeping Oregon Grape	\$78.50/lb	.25	=
<u>Rosa woodii</u>	Woods rose	\$22.00/lb	.5	=
<u>Rubus idaeus sachalinensis</u>	American red raspberry	NA	.25	=
<u>Salix rigida</u>	Yellow (Watson) Willow	NA	<u>.25</u>	=

(Cuttings on three foot centers along channel and pond)

1.25# PLS

TOTAL SEED \$12.25# PLS per acre

U.S. DEPARTMENT OF THE INTERIOR  
OFFICE OF SURFACE MINING  
RECLAMATION AND ENFORCEMENT  
NOTICE OF A DECISION AND AVAILABILITY  
OF BOTH A TECHNICAL ANALYSIS AND AN  
ENVIRONMENTAL ASSESSMENT FOR  
BEAVER CREEK COAL COMPANY  
PERMANENT PROGRAM PERMIT  
HUNTINGTON CANYON NO. 4 MINE  
EMERY COUNTY, UTAH

The United States Department of the Interior, Office of Surface Mining Reclamation and Enforcement (OSM) and the State of Utah, Division of Oil, Gas and Mining (DOGM), has approved, with conditions, a 5-year permit for Beaver Creek Coal Company to conduct reclamation activities at its Huntington Canyon No. 4 Mine.

The Huntington Canyon No. 4 Mine underground coal mine is located in Emery County, Utah, approximately 12 miles northwest of Huntington, Utah. The mine began mining operations in 1977, and permanently ceased mining operations on November 1, 1984. The proposed permit area includes approximately 1,320 acres, of which approximately 12.5 acres have been disturbed to date. No future mining is planned at the Huntington Canyon No. 4 Mine. Mine production was 3.9 million tons of coal over 8 years.

Any person with an interest which is or may be adversely affected by this Federal permit approval action may request an adjudicatory hearing on the final decision within 30 days after publication of this notice, in accordance with Section 514(c) of the Surface Mining Control and Reclamation Act (SMCRA). Any hearing will be governed by provisions of 5 U.S.C. Section 554. A petition for review of the OSM decision should be submitted to:

Hearings Division  
Office of Hearings and Appeals  
U.S. Department of the Interior  
4015 Wilson Boulevard  
Arlington, Virginia 22203

Pursuant to 40 C.F.R. Sections 1501.4(c) and 1506.6, notice is hereby given that DOGM has completed a technical analysis (TA) for the mining and reclamation plan for the Huntington Canyon No. 4 Mine, Emery County, Utah. OSM has supplemented this TA with its own environmental assessment (EA). OSM's recommendation to approve Beaver Creek Coal Company permit application with conditions is in accordance with Sections 510 and 523 of SMCRA. OSM's analysis is that no significant environmental impacts would result from such approval. For information or clarification concerning the approval of the Huntington Canyon No. 4 Permit Application, please contact Mark Humphrey or Walter Swain at (303) 844-5656, Office of Surface Mining, Denver, Colorado.

Both the TA and the EA are available for public review at the following locations:

Office of Surface Mining Reclamation and Enforcement  
Western Technical Center  
1020 15th Street  
Denver, Colorado 80202

Office of Surface Mining Reclamation and Enforcement  
Albuquerque Field Office  
219 Central Avenue, N.W.  
Albuquerque, New Mexico 87102

Utah Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84114-1203

# AFFIDAVIT OF PUBLICATION

STATE OF UTAH }  
County of Emery, } ss.

I, Dan Stockburger on oath, say that I am

the General Manager of The Emery County Progress,

a weekly newspaper of general circulation, published at Castle Dale,

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 Four (4)

consecutive issues, and that the first publication was on the

th day of January, 19 84 and that the

last publication of such notice was in the issue of such newspaper

dated the 25th day of January, 19 84

*Dan Stockburger*

Subscribed and sworn to before me this

25th day of January, 19 84

*Holly Jo Baker*  
Notary Public.

My Commission expires My Commission Expires October 22, 1986, 19 86

Residing at Price, Utah

Publication fee, \$ 129.60

**PUBLIC NOTICE**  
Huntington Canyon No. 4 Mine  
BEAVER CREEK COAL CO.  
P.O. Box 1378  
Price, Utah 84501  
Determination of Completeness

The Utah Division of Oil, Gas and Mining (Division) has completed a review of the Mining and Reclamation Plan (MRP) and amendments submitted by Beaver Creek Coal Company for the Huntington Canyon #4 Mine. The Division has determined the plan to be apparently complete. In compliance with Section UMC 786.11(a) of the Utah Coal Mining Reclamation Act (UMC, Section 40-10-7 et seq.), notice is hereby given to the general public that a complete plan is available for public review for this proposed operation.

The Huntington Canyon #4 Mine is located in Mill Fork Canyon, approximately 35 road miles southwest of Price, Utah. The following are the legal descriptions of the permit area:

- Township 16 South, Range 7 East, SLBM, Utah
- Sec. 8: SW $\frac{1}{4}$ , S $\frac{1}{2}$  SE $\frac{1}{4}$ .
- Sec. 9: S $\frac{1}{2}$  SW $\frac{1}{4}$ , SW $\frac{1}{4}$  SE $\frac{1}{4}$ .
- Sec. 16: All of Section.
- Sec. 17: E $\frac{1}{2}$ .

The permit area is located on the Rilda Canyon, Utah, U.S. Geological Survey 15 minute quadrangle map.

Federal Coal Leases are #U-33454 and #SL-064903.

The Division will now prepare a Technical Analysis (TA) to determine whether the proposed plan meets all the criteria of the Permanent Program Performance Standards according to the requirements of UCA, Section 40-10-1 et seq.

Upon completion of the TA for said plan, a decision will be made as to approval or disapproval of the permit application. This plan is available for public review at: Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114, and at the Emery County Courthouse, Castle Dale, Utah 84513.

Comments on the proposed MRP may be addressed to the Director of the Division: Dr. Dianne Nielson, Director, Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114. Attention: Mr. James W. Smith, Jr.

Published in the Emery County Progress January 4, 11, 18 and 25, 1984.

December 3, 1985

TO: Coal File

FROM: Thomas Munson, Reclamation Hydrologist **TM**

RE: Hydrology Concerns, Beaver Creek Coal Company, Gordon Creek #2 and #7 Mines, ACT/007/016, #2 and #7, Carbon County, Utah, Huntington #4 Mine, INA/015/004, #2 and #7, Emery County, Utah

This memo is basically a means to document potential problem areas identified by members of the technical staff at these mining operations and kept the operator informed that these areas will be watched by the Division to see if any action is needed to prevent future violations.

Huntington #4 Mine

1. Slash basin below cliff area in area of old coal stockpile. The observation was made that it may be too small. It should be watched for significant erosion as well as its ability to contain major flow events without jeopardizing the downstream channel.

Gordon Creek #2 and #7 Mines

1. The inlets to all ponds at both mines should be watched for significant erosion and be armored with riprap if a problem becomes apparent.
2. The outlet from the Rock Ledge Diversion DU-4 into the mouth of DD-1 as shown on Map GA-2 is not currently protected and it was felt that this area may need some protection in the future and should be looked to determine if armoring with riprap is a necessary precaution against significant erosion at this outlet.

This memo is only a note to the operator and the coal file to hopefully increase the operator's awareness of potential problems and also as a preventative measure against future violations.

btb

cc: Dan Guy  
Dave Lof  
John Whitehead

9486R-4

November 14, 1985

TO: Coal File

FROM: D. Wayne Hedberg, Permit Supervisor/Reclamation Hydrologist *DWH*

RE: Reclaimed Site, Beaver Creek Coal Company, Huntington #4 Mine, INA/015/004, #2 and #14, Emery County, Utah

On November 8, 1985, Division field representatives Wayne Hedberg and Susan Linner made a field inspection of the reclaimed Huntington #4 Mine site to field check the status of said operations.

The lower coal loadout site had been regraded, hydromulched and fenced, thereby prohibiting any vehicular access. In addition to the hydromulch seeding, there were a number of small seedlings of mountain mahogany and bitterbrush which had been planted in a random fashion across the regraded disturbed area. Some had already been browsed by deer which had traversed the site. The mountain mahogany seedlings appeared to be doing quite well, although the bitterbrush did not seem to be adapting as well. Some were showing signs of stress and dying. Some germination of new grass was also evident.

The upper access road leading up to the mine portals had also been fenced. The slopes regraded, rounded and hydromulched. Silt fencing materials had been used along a significant portion of the road.

The upper access road and regraded portal areas were not inspected in total at this time. The lower reaches of this road and the lower coal loadout area were walked during the inspection of the reclamation work. No significant signs of erosion were obvious.

The reestablished drainage channel which bisects the lower coal stockpile area appeared to be somewhat underdesigned, although this was just a visual opinion. It was obvious that this small drainage channel had experienced some runoff since the reclamation activities had been performed. Some erosion was evident in the form of minor rilling.

Another field inspection next spring should provide additional information as to the adequacy of the reclamation efforts in this regard.

btb  
cc: Lowell Braxton Sue Linner  
John Whitehead  
8946R-31



116 State Capitol Building  
Salt Lake City, UT 84114  
Telephone 801-533-5245

*more file*  
*JW*  
*LJB*

## office of planning and budget

Norman H. Bangerter, Governor Dale C. Hatch, C.P.A., J.D., Director Michael E. Christensen, Ph.D., Deputy Director

RECEIVED

OCT 25 1985

DIVISION OF OIL  
GAS & MINING

October 24, 1985

Lowell P. Braxton  
Administrator  
Mineral Resource Development  
and Reclamation Program  
Division of Oil, Gas and Mining  
355 West North Temple Suite 350  
Salt Lake City, Utah 84180-1203

SUBJECT: Notification of Permit Approval, Beaver Creek  
Coal Company, Huntington #4 Mine, INA/015/004,  
#2 and #4, Emery County, Utah  
State Application Identifier #UT850927-010

Dear Mr. Braxton:

The Resource Development Coordinating Committee of the State of Utah has reviewed this proposed action and no comments have been indicated.

Thank you for the opportunity to review this document. Please address any questions regarding this correspondence to Carolyn Wright (801) 533-4971.

Sincerely,

*Michael E. Christensen*

Michael E. Christensen  
Deputy Director

MEC: CW: hwl



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 23, 1985

Mr. Dan Guy, Manager  
Permitting & Compliance  
Beaver Creek Coal Company  
P. O. Box 1378  
Price, Utah 84501

*JWA/OIS/004*

Dear Mr. ~~Dan~~ Guy:

RE: Permitting of Coal Preparation Plants and Loadouts

Pursuant to the Division of Oil, Gas and Mining's (DOGM) September 25, 1985 letter regarding new rules governing permitting of coal preparation plants and loadouts, enclosed please find a Coal Preparation and Loadout Reclamation Permit Application form. Please complete this form and return it to DOGM within the 60-day period referenced in the September 25 letter. This acknowledgment will initiate formal application for a reclamation permit. However, it in no way fulfills the permitting responsibilities of the respective facilities, which are enumerated in UMC 827.11 and 827.12.

Upon receipt of the application form, DOGM will contact the applicant to establish a conference to discuss the parameters that must be addressed for approval of the loadout or preparation plant reclamation plan. Based on the criteria established at that meeting, the operator will prepare a complete reclamation plan and submit it to the Division.

Best regards,

Dianne R. Nielson  
Director

LPB/btb  
Enclosure  
cc: Board of Oil, Gas and Mining  
Ken May  
Lowell Braxton  
0522R



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 18, 1985

Mr. Allen D. Klein, Administrator  
Western Technical Center  
Office of Surface Mining  
Brooks Towers  
1020 Fifteenth Street  
Denver, Colorado 80202

Dear Mr. Klein:

RE: Response to Condition No. 7, Threatened and Endangered  
Species Survey, Beaver Creek Coal Company, Huntington #4  
Mine, INA/015/004, #2, Emery County, Utah

Enclosed please find eight (8) copies of Beaver Creek Coal Company's response to Condition No. 7 as referenced above for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files.

If you have any questions or need additional information, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "John J. Whitehead".

John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-39



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 18, 1985

Mr. William H. Geer, Director  
Division of Wildlife Resources  
1596 West North Temple  
Salt Lake City, Utah 84116

Dear Mr. Geer:

RE: Response to Condition No. 7, Threatened and Endangered  
Species Survey, Beaver Creek Coal Company, Huntington #4  
Mine, INA/O15/O04, #2, Emery County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal Company's response to Condition No. 7 as referenced above for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files.

If you have any questions or need additional information, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "John J. Whitehead".

John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-40



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 26, 1985

Mr. Dan W. Guy, Manager  
Permitting and Compliance  
Beaver Creek Coal Company  
P. O. Box 1378  
Price, Utah 84501

Dear Mr. Guy:

RE: Approval for Special Condition #2, Final Permit Approval, UT-0004, Huntington Canyon #4 Mine, INA/015/004, #2 and #4, Emery County, Utah

The information provided on Plate 3-10 and Plate 3-11 and pages 3-58, 3-58a and 3-58aa, address the concerns spelled out in Tom Munson's memo dated August 14, 1985. Beaver Creek Coal has incorporated and updated the verbage in the plan to include the reasons the comparative drainage study was undertaken, referencing Plates 3-10 and 3-11, and have tied this information to the calculations in the text.

The Division approves this stipulation response and recommends the following measures be taken onsite: (1) a pilot channel be used where possible on all sections of the reclaimed drainage; (2) the placement of riprap be done with care to ensure that an adequate armor of small rocks (three to nine inch range) be placed in the pilot channel prior to the placement of large rocks (greater than 18 inches). This procedure will provide better protection during runoff and prevent riprap failure.

Page 2  
Mr. Dan W. Guy, Manager  
INA/015/004  
September 26, 1985

Thank you for your time and effort and cooperation during  
this study.

Sincerely,



John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

TM/btb  
cc: Allen Klein  
Jim Fricke  
8860R-15 & 16



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

(THIS LETTER WAS SENT TO ALL ON ATTACHED LIST.)

September 25, 1985

(Name, Title)  
(Company Name)  
(Address)  
(City, State Zip Code)

Dear (Name):

RE: Notification of Permit Approval, Beaver Creek Coal  
Company, Huntington #4 Mine, INA/D15/004, #2 and #4, Emery  
County, Utah

The Utah Division of Oil, Gas and Mining (Division) is granting approval and issuing a five-year mining permit to Beaver Creek Coal Company. The Division has determined that the permit application is technically complete and demonstrates compliance with all the "Regulations Pertaining to Surface Effects of Underground Coal Mining Activities, Final Rules of the Utah Board and Division of Oil, Gas and Mining," promulgated under the Utah Coal Mining Reclamation Act (Utah Code Annotated 1953, Section 40-10-1 et seq).

Notice is hereby given to all appropriate agencies and individuals having jurisdiction over, or an interest in the area of the proposed operations, pursuant to UMC 786.23(d)(e)(f), that a permit has been issued to said permittee.

This permit authorizes the permittee, Beaver Creek Coal Company, to conduct underground coal mining and reclamation operations and attendant surface operations connected with the reclamation on the described lands within the permit area at the Huntington #4 Mine situated in the state of Utah, County of Emery, subject to the terms of the lease(s), the approved mining and reclamation plan, this permit and all applicable laws and regulations. The lands included in this permit are described as follows:

Page 2  
INA/015/004  
September 25, 1985

Township 16 South, Range 7 East

Section 8: S1/2 SE1/4, SW1/4

Section 9: S1/2 SW1/4, SW1/4 SE1/4

Section 16: All

Section 17: E1/2

Section 21: Portions of the NE1/4 NW1/4

Individuals wishing to review the complete plan and decision documents or submit comments in response to this decision and notice, should direct written requests to the Division.

Sincerely,

*Lowell P. Braxton*

Lowell P. Braxton  
Administrator  
Mineral Resource Development  
and Reclamation Program

JJW/btb  
cc: Dan Guy  
John Whitehead  
0476R

Mr. Gene Nodine  
District Manager  
Bureau of Land Management  
P. O. Box 970  
Moab, Utah 84531

Mr. William H. Geer, Director  
Division of Wildlife Resources  
1596 West North Temple  
Salt Lake City, Utah 84116

Mr. Kenneth Alkema, Director  
Department of Health  
Division of Environmental Health  
P. O. Box 45500  
Salt Lake City, Utah 84145-0550

Mr. Melvin T. Smith  
State Historic Preservation Officer  
Utah State Historical Society  
300 Rio Grande  
Salt Lake City, Utah 84101

Mr. Robert L. Morgan  
State Engineer  
Division of Water Rights  
1636 West North Temple  
Salt Lake City, Utah 84116

Mr. Ralph Miles, Director  
Division of State Lands & Forestry  
3 Triad Center, Suite 400  
355 West North Temple  
Salt Lake City, Utah 84180-1204

Mr. Dee C. Hansen  
Executive Director  
Department of Natural Resources  
1636 West North Temple  
Salt Lake City, Utah 84116

Mr. Allen D. Klein, Administrator  
Western Technical Center  
Office of Surface Mining  
Brooks Towers  
1020 Fifteenth Street  
Denver, Colorado 80202

Mr. Robert H. Hagen, Director  
Albuquerque Field Office  
Office of Surface Mining  
219 Central Avenue, NW  
Albuquerque, New Mexico 87102

Mr. John Welles  
Regional Administrator  
Environmental Protection Agency  
Region VIII, 1860 Lincoln Street  
Denver, Colorado 80295

Mr. Jim Paraskeva  
Southeastern Utah Association  
of Local Governments  
P. O. Box A-I  
Price, Utah 84501

Mr. Walter T. Axelgard, Chairman  
Commissioner for Safety  
Industrial Commission of Utah  
560 South 300 East  
Salt Lake City, Utah 84111

Ms. Carolyn Wright  
State Clearinghouse  
Resource Development &  
Coordinating Committee  
State Planning Coordinator Office  
Room 116, State Capitol  
Salt Lake City, Utah 84114

Mr. Jackson Moffitt, Chief  
Mining Law & Solid Minerals  
Bureau of Land Management  
Consolidated Financial Center  
324 South State Street  
Salt Lake City, Utah 84111-2303

Mr. Leon Berggren, Area Manager  
Bureau of Land Management  
Price River Resource Area  
P. O. Box AB  
Price, Utah 84501

Mr. Clark Johnson  
U. S. Fish & Wildlife Service  
2060 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104-5110

Ms. Alice Shearer, Director  
Division of Community Development  
6233 State Office Building  
Salt Lake City, Utah 84114

Mr. Reed C. Christensen  
Forest Supervisor  
U. S. Forest Service  
Manti-LaSal National Forest  
599 West Price River Drive  
Price, Utah 84501

Mr. Ira Hatch  
U. S. Forest Service  
Price Ranger District  
10 North Carbon Avenue  
Price, Utah 84501

Mr. Don Almond  
Emery County Zoning Administrator  
P. O. Box 817  
Castle Dale, Utah 84513

Mr. Ben Grimes  
North Emery Water Users Association  
P. O. Box 418  
Elmo, Utah 84521



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 25, 1985

Newspaper Agency Corporation  
Legal Advertising  
143 South Main - Mezzanine Floor  
Salt Lake City, Utah 84110

Ladies and Gentlemen:

RE: Notice of Permit Approval - INA/015/004, #2 and #6

Enclosed is a Notice of Permit Approval rendered by the Division of Oil, Gas and Mining, Department of Natural Resources, state of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 3 Triad Center, Suite 350, 355 West North Temple, Salt Lake City, Utah 84180-1203

Sincerely,

  
for Marjorie L. Anderson  
Administrative Assistant

JJW/btb  
Enclosures  
0476R-4



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 25, 1985

Sun Advocate  
Legal Advertising  
76 West Main Street  
Price, Utah 84501

Ladies and Gentlemen:

RE: Notice of Permit Approval - INA/015/004, #2 and #6

Enclosed is a Notice of Permit Approval rendered by the Division of Oil, Gas and Mining, Department of Natural Resources, state of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 3 Triad Center, Suite 350, 355 West North Temple, Salt Lake City, Utah 84180-1203

Sincerely,

Marjorie L. Anderson  
Administrative Assistant

JJW/btb  
Enclosures  
0476R-3

NOTICE OF PERMIT APPROVAL

To Whom It May Concern:

Pursuant 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 mine coal to Beaver Creek Coal Company for its permit application No. INA/015/004. The Company will reclaim the permit area in accordance with the approved Mining and Reclamation Plan for the Huntington #4 Mine associated with the following leases.

Federal Lease #U-33454

Township 16 South, Range 7 East, SLBM

Sec. 8: S1/4 SE1/4

Sec. 16: NW1/4 NE1/4, N1/2 NW1/4, SW1/4 NW1/4, NW1/4 SW1/4

Sec. 17: NE1/4

Federal Lease #SL-064903

Township 16 South, Range 7 East, SLBM

Sec. 16: NE1/4 SW1/4, NW1/4 SE1/4, SE1/4 NW1/4, SW1/4 NE1/4

Other Leases:

Township 16 South, Range 7 East, SLBM

Sec. 9: SW1/4 SE1/4, SE1/4 SW1/4, SW1/4 SW1/4

Township 16 South, Range 7 East, SLBM

Sec. 17: W1/2 SE1/4

This permit was approved by the Utah Division of Oil, Gas and Mining on April 29, 1985. A copy of the permit, the Decision Document and Technical Analysis is on file at the following location:

Dr. Dianne R. Nielson, Director  
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 Huntington #4 Mine should contact Dr. Dianne R. Nielson, Director, Utah Division of Oil, Gas and Mining, at the address referenced above.



STATE OF UTAH  
 NATURAL RESOURCES  
 Oil, Gas & Mining

Norman H. Bangerter, Governor  
 Dee C. Hansen, Executive Director  
 Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 25, 1985

CERTIFIED RETURN RECEIPT REQUESTED  
 NO. (P592 431 876)

*ACT/007/016 } #2  
 ACT/007/017 }  
 IWA/015/004 }*

Mr. Dan Guy, Manager  
 Permitting & Compliance  
 Beaver Creek Coal Company  
 P. O. Box 1378  
 Price, Utah 84501

Dear Mr. *Dan* Guy:

Re: Permitting Coal ~~Preparation~~ Plants and Loadouts

Enclosed please find a copy of a portion of the Federal Register dated July 10, 1985, wherein the Office of Surface Mining's (OSM's) new interim final rules and proposed permanent rules for coal preparation plants and other off-site facilities are enumerated. As stated, the revised regulation will: "(1) bring additional coal preparation plants and other surface coal mining operations under the permanent program regulations of the Surface Mining Control and Reclamation Act of 1977 (the Act); (2) allow persons operating coal preparation plants not previously subject to OSM rules a certain period of time to obtain the permit required as a result of the Court ruling; and (3) make certain performance standards immediately applicable to such plants or facilities." The interim final rule became effective September 9, 1985.

Some states have permitted these facilities in the past. Utah has not covered these operations under the state program; however, as a result of the finalized rules, we are now required to permit and inspect these facilities. We are anxious to work with you in coordinating permitting and inspection activities. The thrust of this ruling is that a permit application conforming to permanent program standards must be received by the Division of Oil, Gas and Mining (DOG M) within sixty (60) days of acknowledged receipt of this letter for all operations conforming to the definition of a coal preparation plant (page 28189 of the enclosed Federal Register). The criteria for permit application will be the same as those used for coal mine permits.

Page 2  
Coal Preparation Plants  
September 25, 1985

Please note the interim final rule requires immediate inspection of these facilities. The DOGM will be working with operators of existing facilities to provide written standards against which these operations will be inspected during the period of permit review.

Please feel free to contact the DOGM if you have questions concerning permitting of these facilities.

Best regards,



Dianne R. Nielson  
Director

jb  
Enclosure  
0363Q



September 23, 1985

TO: Coal File

FROM: Pamela Grubaugh-Littig, Reclamation Engineer *pgl*

RE: Huntington #4 Site Visit, Beaver Creek Coal Company,  
Huntington #4 Mine, INA/015/004, #2 and #14, Emery  
County, Utah

Members of the A Team (Betty Barela, Jim Fricke, Pamela Grubaugh-Littig, EV Hooper, Tom Munson, Rick Smith and John Whitehead) visited the Huntington #4 reclamation site on September 10, 1985. The purpose of the visit was to observe the "reclamation in progress" at this mine site. The mine site encompasses upper and lower pads and an access road.

Coal waste was being moved off-site from the lower pad. Backfill against the lower pad highwalls was being tested for compaction with a nuclear density meter.

Hydromulch was being applied to the slopes and road area adjacent to the upper pad. Some of the hydromulch was applied over the new transplanted shrubs. A dozer was ripping the pad and road area. Two people were planting the bare-root stock.

Upon inspection of the backfilling and grading of the upper pad area, there seemed to be a discrepancy in how the approved reclamation plan had been carried out. The road had been ripped and some of the dirt from the road placed against the highwall. The plan stated that the Cat 235 would reach downhill over the slope and place this material against the highwall. This would eliminate vehicles from traveling on the road, but moreover, produce a slope that approximates original contours.

Coal remained exposed along the highwall near the northern boundary of the disturbed area. The coal outcrop must be completely backfilled and covered.

The ripping of the road did not seem adequate for good plant growth. The rocky environment may be difficult for vegetative success.

Page 2  
Memorandum - Coal File  
INA/015/004  
September 23, 1985

All of the structures have been removed from the mine site.

Inspectors should be wary of signing off on the reclamation site because of methods utilized to achieve reclamation.

btb  
cc: Lowell Braxton  
A Team  
Tom Wright  
9075R-21 & 22



STATE OF UTAH  
 NATURAL RESOURCES  
 Wildlife Resources

1596 West North Temple • Salt Lake City, UT 84116-3154 • 801-533-9333

CC: KEN MAY  
 DR NIELSON  
 HEDBERG  
 WHITEHEAD  
 Norman H. Bangertter, Governor  
 Dee C. Hansen, Executive Director  
 William H. Geer, Division Director

BRAXTON

ORG - MINE PLAN  
 FILE

RECEIVED

SEP 06 1985

DIVISION OF OIL  
 GAS & MINING

September 4, 1985

Dr. Dianne R. Nielson, Director  
 Utah Division of Oil, Gas and Mining  
 355 West North Temple  
 3 Triad Center, Suite 350  
 Salt Lake City, UT 84180-1203

Attn: Wayne Hedberg  
 John Whitehead

INA/05/004  
 #2

Dear Dianne:

The Division has evaluated Beaver Creek Coal Company's June 24, 1985, response to special conditions #5 and #6 in their Mining and Reclamation Plan at the Huntington No. 4 mine. We have no comment on that material.

Thank you for an opportunity to review the MRP and provide comment.

Sincerely,

*William H. Geer*  
 William H. Geer  
 Director



STATE OF UTAH  
 NATURAL RESOURCES  
 Wildlife Resources

1596 West North Temple • Salt Lake City, UT 84116-3154 • 801-533-9333

CC: NIELSON  
 MAY  
 BRAXTON  
 HEDBERG  
 WHITEHEAD  
 Norman H. Bangerter, Governor  
 Dee C. Hansen, Executive Director  
 William H. Geer, Division Director  
 ORG - MINE PLAN FILE

August 30, 1985

INA/015/004  
 #2

Dr. Dianne R. Nielson, Director  
 Utah Division of Oil, Gas and Mining  
 355 West North Temple  
 3 Triad Center, Suite 350  
 Salt Lake City, UT 84180-1203

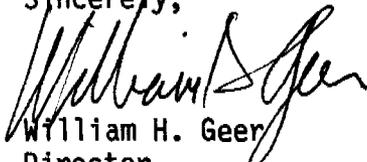
Attn: Wayne Hedberg  
 John Whitehead

Dear Dianne:

The Division has evaluated Beaver Creek Coal Company's July 23, 1985, response to special conditions #2 in their Mining and Reclamation Plan at the Huntington No. 4 mine. We have no comment on that material.

Thank you for an opportunity to review the MRP and provide comment.

Sincerely,

  
 William H. Geer  
 Director

**Beaver Creek Coal Company**

P.O. Box 1378  
Price, Utah 84501  
Telephone 801 637-5050

Mine file  
L.P.B. - *letter only*  
J.W.  
D.W.H. 

**RECEIVED**

AUG 19 1985

**DIVISION OF OIL  
GAS & MINING**

August 15, 1985

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

*ACT/OIS/004  
#2*

RE: Special Condition No. 2  
Final Permit Approval, UT-0004  
Huntington Canyon No. 4 Mine  
ACT/O14/004, #2 & #4  
Emery County, Utah

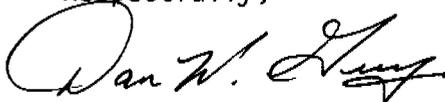
Dear Mr. Braxton:

Please find enclosed fourteen (14) copies of additional information for Special Condition No. 2. This information was requested by Mr. Tom Munson of your staff.

The response consists of revised Plate Index Sheets and Page 3-58, 3-58a, and 3-58aa. These pages should replace those in the M.R.P.

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

Respectfully,



Dan W. Guy  
Manager of Permitting and Compliance

DWG/sb

Enclosures

cc: K.S. Fleck  
File 4-P-6-1  
File 4-P-6-1-6-1  
IBM D2

LIST OF PLATES

<u>Plate Number</u>	<u>Title</u>
3-1	Surface Facilities Map
3-1A	Surface Facilities Map (with contours)
3-2a	Transportation Facilities plan and Profiles
3-2b	Coal Chute Profile
3-3	Mine Development Plan - Blind Canyon Seam
3-4	Mine Development Plan - Hiawatha Seam
3-5	Mine Operations Map - Blind Canyon Seam
3-6	Mine Operations Map - Hiawatha Seam
3-7	Subsidence Monitoring Map
3-8	Postmining Topography
3-9	Postmining Topography - Portal & Pad Areas
3-10	Helco Mine Drainage Cross-Sections and Profiles
3-11	No. 4 Mine Portal and Loadout Area Proposed Drainage Reconstruction
6-1	Geologic and Drill Hole Location Map
6-2	Location of Drill Holes and Structure - Stratigraphic Section A-A
6-3	Isopach Map of the Hiawatha Seam
6-4	Isopach Map of the Blind Canyon Seam
6-5	Structure Contours of the Blind Canyon Seam
6-6	Structure Contours of the Hiawatha Seam
6-7	Geologic Cross-Section B-B'
6-8	Starpoint Sandstone Cross-Section
7-1	Surface Water Courses

LIST OF PLATES (continued)

<u>Plate Number</u>	<u>Title</u>
7-2	Stream Channel Profiles
7-3	Water Quality Monitoring Locations
7-4	Sedimentation & Drainage Control Plan - Upper Pad
7-5	Diversion Ditch Designs - Profile & Typical Cross-Section
7-6	Sediment Pond & Diversion Designs
7-6a	Cross-Section of Filter Dike
7-7	Filed Water Rights
7-8	Surface Drainage Map
8-1	Soil Inventory Map
9-1	Vegetation Map

3.5.2.3 Disposition of Dams, Ponds and Diversions

The diversions A and B on the upper pad will be removed during the backfilling and regrading of this area. This area will be recontoured to drain to the original natural drainage which will continue to go into the sedimentation ponds. The stream channel below diversions A and B will be restored to carry ephemeral flows now diverted around the mine site. The reclaimed channel is shown in Plate 3-9 with a channel longitudinal profile and cross sections shown on Figure 3-6a. Since the entire drainage area above the reclaimed reach is only 0.122 sq. miles, the channel is designed to accomodate the runoff from a ten (10) year, 24 hour precipitation event as required by U.M.C. (817.43(b)) for permanent diversions.

Special Condition No. 2 A study of the drainage near the Helco Mine was performed during the Spring of 1985. This was the most comparable, adjacent drainage to the No. 4 Mine. Based on the results of this study, a proposed drainage reconstruction plan was designed for the No. 4 Mine drainage. The cross-sections and profiles of the study area are on Plate 3-10, and the proposed reconstruction is on Plate 3-11. The proposed drainage is patterned after that of the study area, and since this is based on actual flow conditions, Beaver Creek Coal Company has requested that this design be approved and that a variance to the requirements of UMC 817.44(b)(2) be granted.

An estimate of the peak flow resulting from a ten (10) year, 24 hour precipitation event was derived using the computer model TR-20 with a Farmer-Fletcher rainfall distribution, a curve number of 75 and a time of concentration of 0.07 hours. The resulting peak flow is 5.1 cfs. Since the diversion structures were designed to convey a peak discharge of 8.4 cfs (as determined by Mike Thompson of the

Special Condition No. 2 (Continued)

Department of Oil, Gas, and Mining for a ten year, 24 hour storm), this larger estimate was used to design a pilot channel for ephemeral flows.

3.5.2.3 Disposition of Dams, Ponds, and Diversions (continued)

The channel will be reclaimed through the disturbed area at locations associated with the upper pad and the lower pad as shown on Plates 3-9 and 3-11. The reach through the upper pad was designed using Manning's Equation for channel slopes at 36% and 46% as shown below:

Bed Slope:	36%	46%
Side Slope:	2:1	2:1
Bottom Width:	3.0	3.0
Manning's n:	0.038	0.038
Normal Depth (ft):	0.27	0.25
Velocity (ft/sec):	8.8	9.5

\*Actual channel restoration will be larger, as shown on Plate 3-11.

The channel will be lined with rip-rap having a median diameter (D50) of 9 inches and a maximum diameter of 18 inches. This size should be stable for channel bottom velocities as high as 11 ft/sec according to the Bureau of Reclamation approach (Simons and Sentark (1977), "Sediment Transport Technology").

3.5.2.3 Disposition of Dams, Ponds, and Diversions (continued)

The lower reach was designed using Manning's Equation for a channel slope of 20 % as shown below:

Bed Slope:	20%
Side Slope:	2:1
Bottom Width (ft)	3.0
Manning's n	0.035
Normal Depth (ft)	0.31
Velocity (ft/sec)	7.6

\*Actual channel restoration will be larger, as shown on Plate 3-11.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

*File 8/14/85/004*  
*# 2*  
Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 14, 1985

TO: John Whitehead, Permit Supervisor  
FROM: Tom Munson, Hydrologist *TM*  
RE: Huntington #4 (Stipulation #2) August 12, 1985 Meeting with Dan Guy

The information originally submitted in the mine plan used hydrologic calculations for the 10 yr-24 hour storm event. (MRP, Vol 1, Pg 58, 58a-c) These calculations were incorporated into the stipulation response (i.e. channel size and rip-rap size shown on the two additional figures submitted July 25, 1985). Dan was informed that he also needed to incorporate and update the verbage in his plan to include the reason why these plans were considered adequate and reference the new figures submitted and tie this information to the calculations in the text. He was told to reference the on-site meeting and discuss the use of the comparative drainage study to justify the adequacy of the reclaimed channel according to regulatory requirements. Dan was also told to submit this information, as soon as possible, prior to the actual construction of the channel.

jvb  
cc: Dan Guy  
T. Wright  
0141R-17



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

ACT/015/004  
Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 14, 1985

TO: John Whitehead, Permit Supervisor  
FROM: Tom Munson, Hydrologist *TM*  
RE: Huntington #4 Stipulations updated

The following stipulations have been formally signed off on: stipulations #1, #5, and #6. Stipulation #7 was brought in August 12, 1985 to the Division but has not as yet been looked at. Stipulation #2 was submitted to the Division July 25, 1985 and Tom Munson met with Dan Guy on August 12, 1985 to discuss inadequacies regarding his submittal. It was agreed upon in that meeting that before any construction took place that the necessary information would be submitted to the Division, as discussed in that meeting (August 12, 1985) (See memo regarding stipulation #2). Stipulations #3 and #8 do not need any response from the operator, as they agreed to commit to these stipulations when they signed the permit.

jvb

cc: Dan Guy  
Tom Wright

0141R-18



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 14, 1985

*ACT/OIS/004*

TO: John Whitehead, Permit Supervisor  
FROM: Tom Munson, Hydrologist *TM*  
RE: Huntington #4 (Stipulation #2) August 12, 1985 Meeting with Dan Guy

The information originally submitted in the mine plan used hydrologic calculations for the 10 yr-24 hour storm event. (MRP, Vol 1, Pg 58, 58a-c) These calculations were incorporated into the stipulation response (i.e. channel size and rip-rap size shown on the two additional figures submitted July 25, 1985). Dan was informed that he also needed to incorporate and update the verbage in his plan to include the reason why these plans were considered adequate and reference the new figures submitted and tie this information to the calculations in the text. He was told to reference the on-site meeting and discuss the use of the comparative drainage study to justify the adequacy of the reclaimed channel according to regulatory requirements. Dan was also told to submit this information, as soon as possible, prior to the actual construction of the channel.

jvb  
cc: Dan Guy  
T. Wright  
0141R-17

**Beaver Creek Coal Company**

P.O. Box 1378  
Price, Utah 84501  
Telephone 801 637-5050

*lib IMA/015/004*  
*#2*  


**RECEIVED**

**AUG 12 1985**

**DIVISION OF OIL  
& GAS & MINING**

August 9, 1985

Mr. Lowell Braxton  
Administrator  
Division of Oil, Gas, and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

RE: Special Condition No. 7  
Huntington Canyon No. 4 Mine  
ACT/015/004;UT-0004  
Emery County, Utah

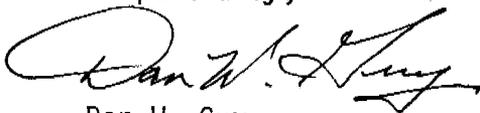
Dear Mr. Braxton:

Enclosed are 14 copies of the T & E information required by Special Condition No. 7 of the Huntington Canyon No. 4 Mine Approval.

The sheets are numbered and should be added to Chapter 9 of the M.R.P.

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

Respectfully,



Dan W. Guy  
Manager of Permitting and Compliance

DWG/sb

Enclosures

cc: M.P. Watson  
K.S. Fleck  
File  
IBM D1



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 9, 1985

Mr. Dan W. Guy, Manager  
Permitting and Compliance  
Beaver Creek Coal Company  
P. O. Box 1378  
Price, Utah 84501

Dear Mr. Guy:

RE: Special Condition #1, Huntington #4 Mine, INA/015/004, #2,  
Emery County, Utah

Thank you for your response to Special Condition #1 of the Huntington #4 permit. The soil analyses provided in the August 5, 1985 submittal has satisfied the requirements of Special Condition #1.

Sincerely,

A handwritten signature in cursive script that reads "John J. Whitehead".

John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

EH/btb

cc: Allen Klein  
Robert Hagen  
Tom Munson  
Tom Wright

9946R-9



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 8, 1985

Mr. Allen D. Klein, Administrator  
Western Technical Center  
Office of Surface Mining  
Brooks Towers  
1020 Fifteenth Street  
Denver, Colorado 80202

Dear Mr. Klein:

RE: Operator Response to MRP Approval, Special Condition #1,  
Beaver Creek Coal Company, Huntington #4 Mine, INA/015/004,  
#2, Emery County, Utah

Enclosed please find eight (8) copies of Beaver Creek Coal Company's response to Special Condition #1 for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files. Should your office wish to provide comments, please do so (or call us directly) by August 23, 1985. The Division anticipates completing its review by this date.

If you have any questions or need additional information, please contact me or John Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-78



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 8, 1985

Mr. Dan W. Guy, Manager  
Permitting and Compliance  
Beaver Creek Coal Company  
P. O. Box 1378  
Price, Utah 84501

Dear Mr. Guy:

RE: Special Conditions #5 and #6, Final Permit Approval,  
Huntington #4 Mine, INA/015/004, #2 and #4, Emery County,  
Utah

The Division has reviewed the revised seed list for the riparian area and revised tree seedling stocking rate required by Special Conditions #5 and #6 for the Huntington #4 permit. The material you have submitted is adequate to respond to these stipulations.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads "John J. Whitehead".

John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

btb

cc: Allen Klein  
Robert Hagen  
Tom Munson  
Tom Wright

9294R-41

**Beaver Creek Coal Company**

P.O. Box 1078  
Price, Utah 84501  
Telephone 801 637-5050

Mine File  
LWB  
J. W. [Signature]



August 1, 1985

**RECEIVED**

**AUG 06 1985**

**DIVISION OF OIL  
GAS & MINING**

Mr. Lowell Braxton  
Administrator  
Division of Oil, Gas, and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

RE: Special Condition No. 1  
Huntington Canyon No. 4 Mine  
ACT/015/004;UT-0004  
Emery County, Utah

#2

Dear Mr. Braxton:

Enclosed are 14 copies of the soils information required by Special Condition No. 1 of the Huntington Canyon No. 4 Mine Approval.

The sheets are numbered and should be added to the end of Appendix 8 of the M.R.P.

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

Respectfully,

Dan W. Guy  
Manager of Permitting and Compliance

DWG/sb

Enclosures

cc: M.P. Watson  
K.S. Fleck  
File  
IBM D1



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 1, 1985

Mr. Allen D. Klein, Administrator  
Western Technical Center  
Office of Surface Mining  
Brooks Towers  
1020 Fifteenth Street  
Denver, Colorado 80202

Dear Mr. Klein:

RE: Response to MRP Special Condition #2, Beaver Creek Coal  
Company, Huntington #4 Mine, INA/015/004, #2, Emery  
County, Utah

Enclosed please find eight (8) copies of Beaver Creek Coal Company's plans in response to MRP Special Condition #2 for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files. Should your office wish to provide comments, please do so (or call us directly) by August 16, 1985. The Division anticipates completing its review by this date.

If you have any questions or need additional information, please contact me or John Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-63



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 1, 1985

Mr. Reed C. Christensen  
Forest Supervisor  
U. S. Forest Service  
Manti-LaSal National Forest  
599 West Price River Drive  
Price, Utah 84501

Dear Mr. Christensen:

RE: Response to MRP Special Condition #2, Beaver Creek Coal  
Company, Huntington #4 Mine, INA/O15/OO4, #2, Emery  
County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal Company's plans in response to MRP Special Condition #2 for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files. Should your office wish to provide comments, please do so (or call us directly) by August 16, 1985. The Division anticipates completing its review by this date.

If you have any questions or need additional information, please contact me or John Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-67



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 1, 1985

Mr. Kenneth Alkema, Director  
Department of Health  
Division of Environmental Health  
P. O. Box 45500  
Salt Lake City, Utah 84145-0500

Dear Mr. Alkema:

RE: Response to MRP Special Condition #2, Beaver Creek Coal  
Company, Huntington #4 Mine, INA/015/004, #2, Emery  
County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal Company's plans in response to MRP Special Condition #2 for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files. Should your office wish to provide comments, please do so (or call us directly) by August 16, 1985. The Division anticipates completing its review by this date.

If you have any questions or need additional information, please contact me or John Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-64



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 1, 1985

Mr. Robert L. Morgan  
State Engineer  
Division of Water Rights  
1636 West North Temple  
Salt Lake City, Utah 84116

Dear Mr. Morgan:

RE: Response to MRP Special Condition #2, Beaver Creek Coal Company, Huntington #4 Mine, INA/015/004, #2, Emery County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal Company's plans in response to MRP Special Condition #2 for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files. Should your office wish to provide comments, please do so (or call us directly) by August 16, 1985. The Division anticipates completing its review by this date.

If you have any questions or need additional information, please contact me or John Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-65



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 1, 1985

Mr. Larry Dalton  
Regional Resource Analyst  
Division of Wildlife Resources  
Southeastern Regional Office  
455 West Railroad Avenue  
Price, Utah 84501

Dear Mr. Dalton:

RE: Response to MRP Special Condition #2, Beaver Creek Coal Company, Huntington #4 Mine, INA/015/004, #2, Emery County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal Company's plans in response to MRP Special Condition #2 for their Huntington #4 Mine in Emery County, Utah. This material is for your review, information and files. Should your office wish to provide comments, please do so (or call us directly) by August 16, 1985. The Division anticipates completing its review by this date.

If you have any questions or need additional information, please contact me or John Whitehead.

Sincerely,

A handwritten signature in cursive script, reading "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btt  
Enclosures  
0341R-66



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 31, 1985

Mr. Robert L. Morgan  
State Engineer  
Division of Water Rights  
1636 West North Temple  
Salt Lake City, Utah 84116

Dear Mr. Morgan:

RE: Response to MRP Special Conditions #5 and #6, Beaver Creek Coal Company, Huntington #4 Mine, INA/015/004, #2, Emery County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal Company's response to MRP Special Conditions #5 and #6 for their Huntington #4 Mine in Emery County, Utah. This material is provided for your review, information and files.

If you have any questions or need additional information, please contact me or John J. Whitehead.

Sincerely,

A handwritten signature in black ink that reads "D. Wayne Hedberg". The signature is written in a cursive style with a long, sweeping underline.

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-56



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 31, 1985

Mr. Kenneth Alkema, Director  
Department of Health  
Division of Environmental Health  
P. O. Box 45500  
Salt Lake City, Utah 84145-0500

Dear Mr. Alkema:

RE: Response to MRP Special Conditions #5 and #6, Beaver Creek  
Coal Company, Huntington #4 Mine, INA/015/004, #2, Emery  
County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal  
Company's response to MRP Special Conditions #5 and #6 for  
their Huntington #4 Mine in Emery County, Utah. This material  
is provided for your review, information and files.

If you have any questions or need additional information,  
please contact me or John J. Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-55



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 31, 1985

Mr. Reed C. Christensen  
Forest Supervisor  
U. S. Forest Service  
Manti-LaSal National Forest  
599 West Price River Drive  
Price, Utah 84501

Dear Mr. Christensen:

RE: Response to MRP Special Conditions #5 and #6, Beaver Creek  
Coal Company, Huntington #4 Mine, INA/O15/004, #2, Emery  
County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal  
Company's response to MRP Special Conditions #5 and #6 for  
their Huntington #4 Mine in Emery County, Utah. This material  
is provided for your review, information and files.

If you have any questions or need additional information,  
please contact me or John J. Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-58



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 31, 1985

Mr. Allen D. Klein, Administrator  
Western Technical Center  
Office of Surface Mining  
Brooks Towers  
1020 Fifteenth Street  
Denver, Colorado 80202

Dear Mr. Klein:

RE: Response to MRP Special Conditions #5 and #6, Beaver Creek  
Coal Company, Huntington #4 Mine, INA/015/004, #2, Emery  
County, Utah

Enclosed please find eight (8) copies of Beaver Creek Coal Company's response to MRP Special Conditions #5 and #6 for their Huntington #4 Mine in Emery County, Utah. This material is provided for your review, information and files.

If you have any questions or need additional information, please contact me or John J. Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-54



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 31, 1985

Mr. Larry Dalton  
Regional Resource Analyst  
Division of Wildlife Resources  
Southeastern Regional Office  
455 West Railroad Avenue  
Price, Utah 84501

Dear Mr. Dalton:

RE: Response to MRP Special Conditions #5 and #6, Beaver Creek  
Coal Company, Huntington #4 Mine, INA/015/004, #2, Emery  
County, Utah

Enclosed please find one (1) copy of Beaver Creek Coal Company's response to MRP Special Conditions #5 and #6 for their Huntington #4 Mine in Emery County, Utah. This material is provided for your review, information and files.

If you have any questions or need additional information, please contact me or John J. Whitehead.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

btb  
Enclosures  
0341R-57

**Beaver Creek Coal Company**

P.O. Box 1373  
Price, Utah 84301  
Telephone 801 537-5050



**RECEIVED**

July 23, 1985

JUL 29 1985

**DIVISION OF OIL  
GAS & MINING**

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

RE: Final Reclamation  
Huntington Canyon #4 Mine  
Final Permit Approval, UT-0004  
ACT/015/004, #2 & #4  
Emery County, Utah

Dear Mr. Braxton:

Please be advised that Beaver Creek Coal Company will initiate the earthwork and revegetation portion of final reclamation at the Huntington Canyon #4 Mine on August 12, 1985.

The project is scheduled for completion by October 15, 1985.

Mr. Ken Fleck will be the Beaver Creek Coal Company representative on this project. If you have any questions, please contact Ken (or me if he is not available).

Respectfully,

Dan W. Guy  
Manager Permitting and Compliance

DWG/sb

cc: K.S. Fleck  
M.P. Watson  
File 4-P-6-1  
IBM D2

**Beaver Creek Coal Company**

P.O. Box 1378  
Price, Utah 84501  
Telephone 801 637-5050



**RECEIVED**

JUL 22 1985

DIVISION OF OIL  
GAS & MINING

July 18, 1985

Mr. Lowell P. Braxton, Administrator  
UTAH DIVISION OF OIL, GAS & MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Special Conditions #5 & #6  
Final Permit Approval, UT-0004  
Huntington Canyon No. 4 Mine  
ACT/015/004, #2 & #4  
Emery County, Utah

Dear Mr. Braxton:

Pursuant to the request made by Mr. Whitehead in his letter of July 9, 1985, please find enclosed fourteen (14) copies of a revised seed list for the riparian area and a revised tree seedling stocking rate as required by Special Conditions 5 and 6 respectfully. The copies are numbered and pre-punched, and will replace the same numbered pages submitted on June 24, 1985.

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

Respectfully,

Dan W. Guy  
Mgr. Permitting/Compliance

DWG:sb

cc: 4-P-6-1  
4-P-6-1-6-1  
IBM D1



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 9, 1985

CERTIFIED RETURN RECEIPT REQUESTED  
(P402 457 202)

Mr. Dan W. Guy, Manager  
Permitting and Compliance  
Beaver Creek Coal Company  
P. O. Box 1378  
Price, Utah 84501

Dear Mr. Guy:

RE: Inadequate Response to Special Conditions #5 and #6, Final Permit Approval, Huntington Canyon #4 Mine, INA/015/004, Emery County, Utah

Your June 24, 1985 response to Special Conditions #5 and #6 of the Final Permit Approval for the Huntington Canyon #4 Mine has been received and reviewed. Neither condition has been adequately addressed.

Condition #5 required the addition of two forb species to the riparian seed mixture. The response received appears to be merely a retyping of the old seed mixture with no changes.

Condition #6 required replacement of pinyon and juniper seedlings by an equal number of woody shrub seedlings of species native to the area. The proposal to replace pinyon-juniper with ponderosa pine is not acceptable. Ponderosa pine is not a woody shrub and not a species which would enhance the reclaimed community for wildlife.

Page 2

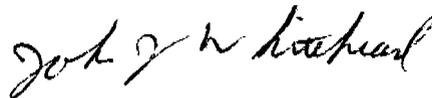
Mr. Dan W. Guy, Manager

INA/015/004

July 9, 1985

The Division strongly urges that Beaver Creek Coal Company give careful attention to future responses in order to avoid any further delay in responding to these conditions. Please respond by July 23, 1985.

Sincerely,



John Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

SC/btb

cc: Allen Klein  
Robert Hagen  
Tom Munson  
Tom Wright

8974R-22 & 23

Beaver Creek Coal Company

P.O. Box 1378  
Price, Utah 84501  
Telephone 801 637-5050

file  
Act/015/004  
#2



June 24, 1985

Mr. Lowell P. Braxton, Administrator  
UTAH DIVISION OF OIL, GAS & MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED

JUN 25 1985

RE: Special Conditions #5 & #6  
Final Permit Approval, UT-0004  
Huntington Canyon No. 4 Mine  
ACT/015/004, #2 & #4  
Emery County, Utah

DIVISION OF OIL  
& GAS & MINING

Dear Mr. Braxton:

Please find enclosed fourteen (14) copies of a revised seed list for the riparian area and a revised tree seedling stocking rate as required by Special Conditions 5 and 6 respectfully. The copies are numbered and pre-punched, and will replace corresponding pages in the M.R.P.

Soil samples have been taken as required by Special Condition No. 1. We are presently waiting for the analysis results, and will forward the required information to you as soon as it is available.

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

Respectfully,

Dan W. Guy  
Mgr. Permitting/Compliance

DWG:ae

cc: 4-P-6-1  
4-P-6-1-6-1  
IBM D1

Table 3-2

TREE SEEDLING STOCKING RATES

<u>Species</u>	<u>Common Name</u>	<u>Stocking Rate (Plants/Ac.)</u>
<u>Cercocarpus ledifolius</u>	Mountain Mahogany	250
<u>Pinus ponderosa</u>	Ponderosa Pine	60
	Total	<hr/> 310

RIPARIAN AREA  
GRASSES (seed)

<u>Scientific Name</u>	<u>Common Name</u>	<u>lbs./acre</u>
Agropyron smithii	Western Wheatgrass	3
Agropyron trachycaulum	Slender Wheatgrass	2
Bromus carinatur	Mountain Brome	2
Carex Spp.	Sedge	2
Poa pratensis	Kentucky Bluegrass	2

---

11# PLS

Trees and Shrubs

Mohonia repens	Creeping Oregon Grape	.25
Rosa woodii	Woods Rose	.5
Rubus idaeus		
sachalinensis	American Red Raspberry	.25
Salix rigida	Yellow (Watson) Willow	
(cuttings on 3' centers along channel & pond)		.25

---

1.25# PLS

TOTAL SEED      12.25# PLS per acre

NOTE: Insert in Appendix 8

6/24/85

**Beaver Creek Coal Company**

P.O. Box 1378  
Price, Utah 84501  
Telephone 801 637-5050



June 24, 1985

Mr. Lowell P. Braxton, Administrator  
UTAH DIVISION OF OIL, GAS & MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

*ACT/015/004  
#2*

**RECEIVED**

RE: Special Conditions #5 & #6  
Final Permit Approval, UT-0004  
Huntington Canyon No. 4 Mine  
ACT/015/004, #2 & #4  
Emery County, Utah

**JUN 25 1985**

**DIVISION OF OIL  
GAS & MINING**

Dear Mr. Braxton:

Please find enclosed fourteen (14) copies of a revised seed list for the riparian area and a revised tree seedling stocking rate as required by Special Conditions 5 and 6 respectfully. The copies are numbered and pre-punched, and will replace corresponding pages in the M.R.P.

Soil samples have been taken as required by Special Condition No. 1. We are presently waiting for the analysis results, and will forward the required information to you as soon as it is available.

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

Respectfully,

Dan W. Guy  
Mgr. Permitting/Compliance

DWG:ae

cc: 4-P-6-1  
4-P-6-1-6-1  
IBM D1

RIPARIAN AREA  
GRASSES (seed)

<u>Scientific Name</u>	<u>Common Name</u>	<u>lbs./acre</u>
Agropyron smithii	Western Wheatgrass	3
Agropyron trachycaulum	Slender Wheatgrass	2
Bromus carinatur	Mountain Brome	2
Carex Spp.	Sedge	2
Poa pratensis	Kentucky Bluegrass	2

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11# PLS

Trees and Shrubs

Mohonia repens	Creeping Oregon Grape	.25
Rosa woodii	Woods Rose	.5
Rubus idaeus		
sachalinensis	American Red Raspberry	.25
Salix rigida	Yellow (Watson) Willow	
(cuttings on 3' centers along channel & pond)		.25

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1.25# PLS

TOTAL SEED            12.25# PLS per acre

NOTE: Insert in Appendix 8

6/24/85

Mining and Reclamation Plan  
Huntington Canyon No. 4 Mine Permit Application

Table 3-2

TREE SEEDLING STOCKING RATES

<u>Species</u>	<u>Common Name</u>	<u>Stocking Rate (Plants/Ac.)</u>
<u>Cercocarpus ledifolius</u>	Mountain Mahogany	250
<u>Pinus ponderosa</u>	Ponderosa Pine	60
	Total	<hr/> 310



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 21, 1985

CERTIFIED RETURN RECEIPT REQUESTED  
(P402 457 179)

Mr. J. A. Herickhoff, President  
Beaver Creek Coal Company  
P. O. Box 1378  
Price, Utah 84501

Dear Mr. Herickhoff:

RE: Replacement Permit, ACT/015/004, 4/85, Beaver Creek Coal Company, Huntington #4 Mine, INA/015/004, #2 and #4, Emery County, Utah

The Division has never received the signed permit which we transmitted to you in our April 16, 1985 letter. Apparently, the signed original permit was lost in the mail. The Division records do require an original signed copy, therefore, we are transmitting two copies of a replacement permit identical to the first. The original dates of signature appear on the replacement permit to avoid any confusion on the date of issuance of the permit. Please sign both permits and return one signed copy to the Division at your earliest convenience.

Thank you very much for your cooperation in this matter. Should you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "John J. Whitehead".

John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

btb

cc: Allen Klein  
Robert Hagen  
Lowell Braxton  
Joe Helfrich  
John Whitehead

9294R-19

FEDERAL  
(February 1985)

Permit Number ACT/015/004 , 4/85

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  
(801) 538-5340

This permit, ACT/015/004 , which incorporates the Office of Surface Mining (OSM) Permit UT-0004 , is issued for the state of Utah by the Utah Division of Oil, Gas and Mining (DOGM) to:

Beaver Creek Coal Company  
P. O. Box 1378  
Price, Utah 84501

for the Huntington #4 Mine. Beaver Creek Coal Company is the lessee of federal coal leases U-33454 and SL-064903, the lessee of state coal leases NA , and/or the lessee/owner of certain fee-owned parcels 717.5 acres . The permit is not valid until a performance bond is filed with the DOGM in the amount of \$360,104.00 (1989 \$), payable to the state of Utah, Division of Oil, Gas and Mining and OSM, and the DOGM has received a copy of this permit signed and dated by the permittee.

- Sec. 1 STATUTES AND REGULATIONS - This permit is issued pursuant to the Utah Coal Mining and Reclamation Act of 1979, Utah Code Annotated (UCA) 40-10-1 et seq, hereafter referred to as UCMRA.
- Sec. 2 The permittee is authorized to conduct surface coal mining and reclamation operations on the following described lands (as shown on ownership map) within the permit area at the Huntington #4 Mine situated in the state of Utah, Emery County, and located:

Township 16 South, Range 7 East, SLBM

Section 8: S1/4 SE1/4  
Section 16: NW1/4 NE1/4, N1/2 NW1/4, SW1/4 NW1/4, NW1/4 SW1/4  
Section 17: NE1/4

Township 16 South, Range 7 East, SLBM

Section 16: NE1/4 SW1/4, NW1/4 SE1/4, SE1/4 NW1/4, SW1/4 NE1/4

Township 16 South, Range 7 East, SLBM

Section 9: SW1/4 SE1/4, SE1/4 SW1/4, SW1/4 SW1/4

Township 16 South, Range 7 East, SLBM

Section 17: W1/2 SE1/4

This legal description is for the permit boundary (as shown on the permit area map) of the Huntington #4 Mine. The permittee is authorized to conduct surface and reclamation operations connected with mining on the foregoing described property subject to the conditions of the leases, the approved mining plan, and OSM permit UT-0004, to be issued April 10, 1985, including all conditions and all other applicable conditions, laws and regulations.

- Sec. 3 This permit is issued for a term of five (5) years commencing on the date the permit is signed by the permittee, except that this permit will terminate if the permittee has not begun the surface coal mining and reclamation operations covered herein within three (3) years of the date of issuance.
- Sec. 4 The permit rights may not be transferred, assigned or sold without the approval of the Director, DOGM. Request for transfer, assignment or sale of permit rights must be done in accordance with applicable regulations including but not limited to 30 CFR 740.13(e) and UMC 788.17-.19.
- Sec. 5 The permittee shall allow the authorized representative of the DOGM, including but not limited to inspectors, and representatives of the Office of Surface Mining, without advance notice or a search warrant, upon presentation of appropriate credentials, and without delay to:
- A. have the rights of entry provided for in 30 CFR 840.12, UMC 840.12, 30 CFR 842.13 and UMC 842.13; and,
  - B. be accompanied by private persons for the purpose of conducting an inspection in accordance with UMC 842.12 and 30 CFR 842, when the inspection is in response to an alleged violation reported by the private person.
- Sec. 6 The permittee shall conduct surface coal mining and reclamation operations only on those lands specifically designated as within the permit area on the maps submitted in the mining plan and permit application and approved for the term of the permit and which are subject to the performance bond.

- Sec. 7 The permittee shall minimize any adverse impact to the environment or public health and safety including but not limited to:
- A. accelerated monitoring to determine the nature and extent of noncompliance and the results of the noncompliance;
  - B. immediate implementation of measures necessary to comply; and
  - C. warning, as soon as possible after learning of such noncompliance, any person whose health and safety is in imminent danger due to the noncompliance.
- Sec. 8 The permittee shall dispose of solids, sludge, filter backwash or pollutants in the course of treatment or control of waters or emissions to the air in the manner required by the approved Utah State Program and the Federal Lands Program which prevents violation of any applicable state or federal law.
- Sec. 9 The lessee shall conduct its operations:
- A. in accordance with the terms of the permit to prevent significant, imminent environmental harm to the health and safety of the public; and
  - B. utilizing methods specified as conditions of the permit by DOGM and OSM in approving alternative methods of compliance with the performance standards of the Act, the approved Utah State Program and the Federal Lands Program.
- Sec. 10 The permittee shall provide the names, addresses and telephone numbers of persons responsible for operations under the permit to whom notices and orders are to be delivered.
- Sec. 11 The permittee shall comply with the provisions of the Water Pollution Control Act (33 USC 1151 et seq,) and the Clean Air Act (42 USC 7401 et seq), UCA 26-11-1 et seq, and UCA 26-13-1 et seq.
- Sec. 12 Upon expiration, this permit may be renewed for areas within the boundaries of the existing permit in accordance with the Act, the approved Utah State Program and the Federal Lands Program.

- Sec. 13 If during the course of mining operations, previously unidentified cultural resources are discovered, the applicant shall ensure that the site(s) is not disturbed and shall notify the state Regulatory Authority (RA). The state RA, after coordination with OSM, shall inform the operator of necessary actions required.
- Sec. 14 APPEALS - The lessee shall have the right to appeal: (a) under 30 CFR 775 from actions or decisions of any official of OSM; (b) under 43 CFR 3000.4 from an action or decision of any official of the Bureau of Land Management; (c) under 30 CFR 290 from an action, order or decision of any official of the Minerals Management Service; or (d) under applicable regulations from any action or decision of any other official of the Department of the Interior arising in connection with this permit. In addition, the lessee shall have the right to appeal as provided for under UMC 787.
- Sec. 15 SPECIAL CONDITIONS - In addition to the general obligations and of performance set out in the leases, OSM permit UT-0004 and this permit, the permittee shall comply with the special conditions of OSM permit UT-0004 and the conditions appended hereto as Attachment A.

The above conditions (Secs. 1-15) are also imposed upon the permittee's agents and employees. The failure or refusal of any of these persons to comply with these conditions shall be deemed a failure of the permittee to comply with the terms of this permit and the lease. The permittee shall require his agents, contractors and subcontractors involved in activities concerning this permit to include these conditions in the contracts between and among them. These conditions may be revised or amended, in writing, by the mutual consent of the grantor and the permittee at any time to adjust to changed conditions or to correct an oversight. The grantor may amend these conditions at any time without the consent of the permittee in order to make them consistent with any new federal or state statutes and any new regulations.

THE STATE OF UTAH

By: \_\_\_\_\_

Date: \_\_\_\_\_

Liam R. Nielson  
April 10, 1985

I certify that I have read and understand the requirements of this permit and any special conditions attached.

\_\_\_\_\_  
Authorized Representative of  
the Permittee

Date: April 29, 1985

APPROVED AS TO FORM:

By: *Barbara W Roberts*  
Assistant Attorney General

Date: April 10, 1985

Attachment A

SPECIAL CONDITIONS

1. Results from soil analysis, identification of the best available topsoil substitute materials, estimates of material volumes for final reclamation, and a commitment to selectively place the best suitable topsoil substitute material during final reclamation of the pumphouse must be submitted to the regulatory authority for approval no later than June 1, 1985. At a minimum, the analyses must include data on soil texture, pH, EC, SAR, N, P, and K. A sufficient number of samples must be taken to adequately characterize this material.
  
2. The regulatory authority is willing to grant a variance to the requirements of UMC 817.44(b)(2) if the permittee can adequately demonstrate to the regulatory authority that these cross-sections represent a conclusive demonstration of comparable, adjacent drainage. The following parameters will have to be demonstrated in order to assess the comparability of the two watershed systems.
  1. Similar drainage area and channel capacity.
  2. Similar slopes and aspects.
  3. Cross-sections must be located in an area which gives comparable channel configurations.
  4. Natural armoring or riprap size must be noted, as well as natural energy dissipators (i.e., large boulders, log jams, drops and eddies, etc.) so they can be engineered into the new designs.

These requirements must be met during the site visit in the spring of 1985 and the permittee must submit within 30 days of this site visit adequate plans for the proposed stream channel reclamation plans. These plans must include the following engineering designs at a minimum:

1. Energy dissipators within the channel at crucial points; namely where flows come onto the upper pad and drop off the cliff area below the upper pad onto the lower pad.
2. A design flow and channel configuration criteria compatible with this condition and 817.44(d)(1) (2)(3).

3. The permittee shall sample on a quarterly basis until bond release any discharges from the underground workings which occur after mining. Sampling will assess if discharges are in compliance with the effluent standards of UMC 817.42 and all other applicable State and Federal regulations. The permittee will provide treatment, if necessary, of any discharges to achieve compliance with applicable standards during the period of discharge.
4. The permittee shall provide, within 60 days of the effective date of this permit, documentation of assignment or transfer of 800 shares in the Huntington-Cleveland Irrigation Company from the Hardy Coal Company to Beaver Creek Coal Company.
5. Within 15 days of the effective date of this permit, the operator must revise the permanent seed mixture for the riparian area by including at least two forb species. The species must meet all the requirements of this section and UMC 817.97.
6. Within 15 days of the effective date of this permit, the operator must revise the tree seedling stocking rate for the pinyon-juniper-curl leaf-mountain mahogany vegetation type (Table 3-2) by replacing the pinyon and juniper seedlings with an equal number of seedlings of woody shrub species native to the area. The species must meet all the requirements of this section and UMC 817.97.
7. Before any site redisturbance occurs, the permittee must conduct a survey, under the supervision of the regulatory authority, of the areas to be redisturbed. The survey shall identify and record locations of individuals and populations of Hedysarum occidentale var. canone (canyon sweet-vetch). If canyon sweet-vetch is found in portions of the permit area to be redisturbed, the permittee must develop and submit a mitigation plan for regulatory authority approval and after approval implement this plan before redisturbance occurs.
8. The entrance gate to the mine facilities must not be dismantled until after reclamation operations are completed and permanent self regenerating vegetation is established on the reclaimed mine site. The gate should remain locked to prevent public vehicle access to the reclaimed area. Written permission must be obtained from the Forest Supervisor of the Manti-LaSal National Forest prior to removal of the gate.

9. If existing raptor nests are affected by mine related subsidence, the permittee shall replace or otherwise mitigate the nest loss in consultation with the U.S. Fish and Wildlife Service and the Utah Division of Wildlife Resources according to the requirements of UMC 784.21 and UMC 817.97. Notification of the loss to the above agencies and the regulatory authority must take place within two working days of the permittee's discovery of the loss.