

PERMIT CHANGE TRACKING FORM

DATE RECEIVED	7/02/93	PERMIT NUMBER	ACT/007/022
Title of Proposal: ADDITION OF BTCA AREA		PERMIT CHANGE #	93B
Description:		PERMITTEE	MOUNTAIN COAL
		MINE NAME	C V SPUR

	DATE DUE	DATE DONE	RESULT
<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION			<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED
<input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee.			Permit Change Classification
<input type="checkbox"/> Request additional review copies prior to Division/Other Agency review.			<input type="checkbox"/> Significant Permit Revision
<input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.)			<input type="checkbox"/> Permit Amendment
<input type="checkbox"/> Notice of request to modify proposed permit change prior to approval.			<input type="checkbox"/> Incidental Boundary Change

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> Administrative _____						
<input type="checkbox"/> Biology _____						
<input type="checkbox"/> Engineering _____						
<input type="checkbox"/> Geology _____						
<input type="checkbox"/> Soils _____						
<input type="checkbox"/> Hydrology _____						
<input type="checkbox"/> Bonding _____						
<input type="checkbox"/> AVS Check _____						

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> OSMRE						
<input type="checkbox"/> US Forest Service						
<input type="checkbox"/> Bureau of Land Management						
<input type="checkbox"/> US Fish and Wildlife Service						
<input type="checkbox"/> US National Parks Service						
<input type="checkbox"/> UT Environmental Quality						
<input type="checkbox"/> UT Water Resources						
<input type="checkbox"/> UT Water Rights						
<input type="checkbox"/> UT Wildlife Resources						
<input type="checkbox"/> UT State History						
<input type="checkbox"/> Other						

<input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)	<input type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied.
<input type="checkbox"/> Copies of permit change marked and ready for MRP.	<input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.
<input type="checkbox"/> Special Conditions/Stipulations written for approval.	<input type="checkbox"/> Copy of Approved Permit Change to File.
<input type="checkbox"/> TA and CHIA modified as required.	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.
<input type="checkbox"/> Permit Change Approval Form ready for approval.	<input type="checkbox"/> Copies to Other Agencies and Price Field Office.

PERMIT AMENDMENT APPROVAL

Title: ADDITION OF BTCA AREA	PERMIT NUMBER: ACT/007/022
Description:	PERMIT CHANGE #: 93B
	MINE: C V SPUR
	PERMITTEE: MOUNTAIN COAL

WRITTEN FINDINGS FOR PERMIT APPLICATION APPROVAL

YES, NO or N/A

1.	The application is complete and accurate and the applicant has complied with all the requirements of the State Program.	
2.	<p>The proposed permit area is not within an area under study or administrative proceedings under a petition, filed pursuant to R645-103-400 or 30 CFR 769, to have an area designated as unsuitable for coal mining and reclamation operations, unless:</p> <p>A. The applicant has demonstrated that before January 4, 1977, substantial legal and financial commitments were made in relation to the operation covered by the permit application, or</p> <p>B. The applicant has demonstrated that the proposed permit area is not within an area designated as unsuitable for mining pursuant to R645-103-300 and R645-103-400 or 30 CFR 769 or subject to the prohibitions or limitations of R645-103-230.</p>	
3.	For coal mining and reclamation operations where the private mineral estate to be mined has been severed from the private surface estate, the applicant has submitted to the Division the documentation required under R645-301-114.200.	
4.	The Division has made an assessment of the probable cumulative impacts of all anticipated coal mining and reclamation operations on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.	
5.	The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et.seq.).	
6.	The Division has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Division has determined that no additional protection measures are necessary.	
7.	The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	
8.	The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	
9.	The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	
10.	The Applicant has satisfied the applicable requirements of R645-302.	
11.	The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.	

SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL

YES NO

1.	Are there any variances associated with this permit amendment approval? If yes, attach.		
2.	Are there any special conditions associated with this permit amendment approval? If yes, attach.		
3.	Are there any stipulations associated with this permit amendment approval? If yes, attach.		

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed _____

Director, Division of Oil, Gas and Mining

EFFECTIVE DATE _____

PERMIT TRACKING FORM

Title of Proposal:

Enforcement Action Involved:

MRP AMENDMENT
 MRP REVISION _____
 EXPLORATION _____
 I. B. C. _____

TDN/L #X _____, # _____ of _____
 NOV #N _____, # _____ of _____
 CO #C _____, # _____ of _____
 (Incidental Boundary Change)

Title of Proposal:

Addition of DICA Area

Company Name:

Mtn. Coal - C.V. Spur

#: (INA / PRO / ACT / CEP) *002022* - 93 *B* # New Acres: _____

<u>Discipline</u>	<u>Priority</u>	<u>Reviewers</u>	<u>Due</u>	<u>Completed</u>	<u>Tech Memo Drafted</u>	
					Yes	No
HYDROLOGY	_____	<i>Wyatt</i>	<i>8/7</i>	_____	()	()
GEOLOGY	_____	_____	_____	_____	()	()
CIVIL ENGINEER	_____	_____	_____	_____	()	()
PLANS	_____	_____	_____	_____	()	()
LOGISTICS	_____	_____	_____	_____	()	()

Notes:

Initial Plan Received	<i>7/2</i>	(4)	Operator Resubmission	_____
Tech Review Due	_____		Tech Review Due	_____
Tech Review Complete	_____		Tech Review Complete	_____
DOGM Response Sent	_____		DOGM Response Sent	_____
Operator Response Due	_____		Operator Response Due	_____
Operator Response Rcd	_____	(5)	Operator Response Rcd	_____
Tech Review Due	_____		Tech Review Due	_____
Tech Review Complete	_____		Tech Review Complete	_____
DOGM Response Sent	_____		DOGM Response Sent	_____
Operator Response Due	_____		Operator Response Due	_____
Operator Response Rcd	_____	(6)	Conditional Approval	_____
Tech Review Due	_____		Stipulations Due	_____
Tech Review Complete	_____		Stipulations Received	_____
DOGM Response Sent	_____		DOGM Response Sent	_____
Operator Response Due	_____		Final Approval	_____
			Filed in MRP	_____
			Author	_____
			Transmitted	_____

Other Agency Involvement:

<u>Agency</u>	<u>Transmittal Date</u>	<u>Sign-off</u>	<u>Comments:</u>
OSMRE	_____	_____	_____
USFS	_____	_____	_____
BLM	_____	_____	_____
USFWS	_____	_____	_____
NPS	_____	_____	_____
HEALTH	_____	_____	_____
UDWR	_____	_____	_____
H ² O RGTS	_____	_____	_____
HISTORY	_____	_____	_____



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

July 18, 1993

Ms. Kathleen G. Welt
Environmental Supervisor
Mountain Coal Company
P.O. Box 591
Somerset, Colorado 81434

Dear Ms. Welt:

Re: BTCA Area 5 Amendment, Mountain Coal Company, C.V. Spur,
ACT/007/022-93B, Folder #3, Carbon County, Utah

The above-noted amendment submitted July 2, 1993 is conditionally approved with the condition that the permittee commit to monitoring water quality as discharged through the silt fence. Please submit this commitment by August 2, 1993.

If you have any questions, please call me. _

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

July 16, 1993

93B

TO: Pamela Grubaugh-Littig, Permit Supervisor ✓
FROM: Ken Wyatt, Reclamation Hydrologist KW
RE: BTCA Area 5 Amendment Review, Mountain Coal Company, C.V. Spur, ACT/007/022, Folder #2, Carbon County, Utah

SYNOPSIS

Mountain Coal Company submitted a proposed amendment to add an area within their permit area as a BTCA area in response to a request from Mr. Bill Malencik of the Division. This proposal was received by the Division on July 2, 1993, and will be reviewed in the memo.

ANALYSIS

The proposal included revised MRP pages 7-87a through 7-87b. These pages describe five BTCA areas within the C.V. Spur facility. BTCA Area 5 has been added to this list. Area 5 is described as encompassing 0.86 acres which drains the slopes of the railroad tracks below culvert C-1 down to the Y in the railroad tracks. Using the OSM's TIPS programs the area digitized at 0.72 acres.

I used input data from the MRP and this submittal to calculate peak flow and runoff volumes as follows: Area = 0.86 acres; Curve number = 87; SCS type 2 storm; 10 year 24 hour event = 1.7 inches; Slope = 2.4%; Channel length = 1650 feet. Based on this information the peak flow calculated to 0.04 CFS (18 GPM) with a total runoff volume of .05 acre feet. According to the hydrographs produced, these areas fall within the Division's guidelines for permitting BTCAs. The operator should describe how they plan to monitor effluent water quality through the silt fence structure.

RECOMMENDATION

I recommend that this proposal be approved with the condition that the operator commit to monitoring water quality as discharged through the silt fence.





BLACKHAWK ENGINEERING, CO.

Rt. 1, Box 146-H5 - Helper, Utah 84526 - Telephone (801) 637-2422

June 24, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

JUL 02 1993

DIVISION OF
OIL GAS & MINING

Re: Mountain Coal Company
Proposed Amendment
Addition of BTCA Area
C.V. Spur Permit
ACT/007/022
Carbon County, Utah

Dear Ms. Littig:

Enclosed are 3 copies of a proposed addition of a B.T.C.A. area for the C.V. Spur Permit, as requested by Mr. Bill Malencik. The B.T.C.A. Area is designated Area No. 5, and consists of the outslope of the railroad loop south of the refuse pile which does not drain to a sediment pond. The area is approximately 0.86 acres, and is treated by a silt fence prior to leaving the property. I have also clarified the location of the disturbed area perimeter on the map (Plate 3-2).

Revised maps and pages are numbered, and should replace corresponding numbers in the plan upon approval.

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

Respectfully,

Dan W. Guy
President

cc: Bill Malencik - DOGM
Kathy Welt - MCC
File



BLACKHAWK ENGINEERING, CO.

Rt. 1, Box 146-H5 - Helper, Utah 84526 - Telephone (801) 637-2422

June 24, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Mountain Coal Company
Proposed Amendment
Addition of BTCA Area
C.V. Spur Permit
ACT/007/022
Carbon County, Utah

Dear Ms. Littig:

Enclosed are 3 copies of a proposed addition of a B.T.C.A. area for the C.V. Spur Permit, as requested by Mr. Bill Malencik. The B.T.C.A. Area is designated Area No. 5, and consists of the outslope of the railroad loop south of the refuse pile which does not drain to a sediment pond. The area is approximately 0.86 acres, and is treated by a silt fence prior to leaving the property. I have also clarified the location of the disturbed area perimeter on the map (Plate 3-2).

Revised maps and pages are numbered, and should replace corresponding numbers in the plan upon approval.

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

Respectfully,

Dan W. Guy
President

cc: Bill Malencik - DOGM
Kathy Welt - MCC
File

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

7.2.3.5 B.T.C.A. Areas

There are 5 small areas located at the northeast corner and south edge of the property, which do not drain to the sedimentation ponds. These areas have been designated as "Best Technology Currently Available" or "B.T.C.A." Areas, and are shown on Plate 3-2 of this M.R.P. The following is a description of each area along with the treatment used for sediment control:

(1) B.T.C.A. Area #1 - This is an area of approximately 0.69 acres located between the pump house access road and the railroad tracks. The area is blocked off by a berm and is mostly vegetated. The area drains to the north-east corner of the property where it joins the sediment pond #6 outlet ditch. A silt fence is maintained at the edge of the area for additional sediment control. The only runoff from this area is from direct rainfall, which is calculated to be 0.098 acre feet for a 10 year-24 hour event (1.7 inches, NOAA, 1973). Treatment of runoff is by vegetative filter and silt fence.

(2) B.T.C.A. Area #2 - This is a small area of approximately 0.28 acres located between the railroad loop and loadout tracks. The area has minimal vegetation, and is covered mostly by railroad ballast (slag). The top of the ballast is approximately 1.25 feet at the low end. Based on the slight slope, approximately 1/2 of the area or 0.14 acres will contain runoff at an average depth of 0.625 feet, giving the area a potential storage volume of 0.088 acre feet. Since the only runoff to this area will be from direct precipitation, a 10 year-24 hour event would result in approximately 0.040 acre feet of runoff. The area is more than adequate to contain the expected runoff; therefore, the only treatment used for this area is total containment.

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

(3) B.T.C.A. Area #3 - This is an area along the east edge of the property between the main railroad spur track and the silo loadout track. The area contains approximately 0.85 acres, and slopes to the north, where any runoff is contained between the two sets of tracks. The track (ballast) height is approximately 1.50' on the low end. Due to the slope, only 1/4 of the area (0.22 acres) will contain runoff. This calculates to a potential storage volume of 0.165 acre feet for this area. Since the runoff from a 10 year-24 event on this area is only 0.120 acre feet, the potential storage volume is more than adequate. Total containment is therefore the only treatment proposed for this area.

(4) B.T.C.A. Area #4 - This is an area of approximately 0.521 acres surrounding the pumphouse at the northeast corner of the site. A ditch on the west side intercept runoff and directs it into Pond #6. The area is in a slight depression, and is protected by berms to contain runoff. B.T.C.A. for this area is total containment, since the only runoff here is from direct rainfall. The potential runoff from a 10 year -24 hour event on this area is approximately 0.074 acre feet. The potential containment area is calculated to be a minimum of 0.26 acre feet, which is based on 1/2 the area at a depth of 1 foot (due to the slight slope). The area is therefore more than adequate to contain expected runoff.

(5) B.T.C.A Area #5 - This is an area of approximately 0.86 acres, consisting of the outslope of the railroad loop south of the refuse pile from culvert C-1 to the "Y" in the railroad. This area drains along the toe of the railroad and passes through a silt fence and a vegetated area for treatment prior to entering the 24" CMP beneath the main railroad spur track. The potential runoff from a 10-year, 24-hour event is approximately 0.12 acre-feet. Treatment is by vegetation and a silt fence as mentioned above.



BLACKHAWK ENGINEERING, CO.

Rt. 1, Box 146-H5 - Helper, Utah 84526 - Telephone (801) 637-2422

June 24, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

JUL 02 1993

DIVISION OF
OIL GAS & MINING

Re: Mountain Coal Company
Proposed Amendment
Addition of BTCA Area
C.V. Spur Permit
ACT/007/022
Carbon County, Utah

Dear Ms. Littig:

Enclosed are 3 copies of a proposed addition of a B.T.C.A. area for the C.V. Spur Permit, as requested by Mr. Bill Malencik. The B.T.C.A. Area is designated Area No. 5, and consists of the outslope of the railroad loop south of the refuse pile which does not drain to a sediment pond. The area is approximately 0.86 acres, and is treated by a silt fence prior to leaving the property. I have also clarified the location of the disturbed area perimeter on the map (Plate 3-2).

Revised maps and pages are numbered, and should replace corresponding numbers in the plan upon approval.

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

Respectfully,

Dan W. Guy
President

cc: Bill Malencik - DOGM
Kathy Welt - MCC
File

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

7.2.3.5 B.T.C.A. Areas

There are 5 small areas located at the northeast corner and south edge of the property, which do not drain to the sedimentation ponds. These areas have been designated as "Best Technology Currently Available" or "B.T.C.A." Areas, and are shown on Plate 3-2 of this M.R.P. The following is a description of each area along with the treatment used for sediment control:

- (1) B.T.C.A. Area #1 - This is an area of approximately 0.69 acres located between the pump house access road and the railroad tracks. The area is blocked off by a berm and is mostly vegetated. The area drains to the north-east corner of the property where it joins the sediment pond #6 outlet ditch. A silt fence is maintained at the edge of the area for additional sediment control. The only runoff from this area is from direct rainfall, which is calculated to be 0.098 acre feet for a 10 year-24 hour event (1.7 inches, NOAA, 1973). Treatment of runoff is by vegetative filter and silt fence.
- (2) B.T.C.A. Area #2 - This is a small area of approximately 0.28 acres located between the railroad loop and loadout tracks. The area has minimal vegetation, and is covered mostly by railroad ballast (slag). The top of the ballast is approximately 1.25 feet at the low end. Based on the slight slope, approximately 1/2 of the area or 0.14 acres will contain runoff at an average depth of 0.625 feet, giving the area a potential storage volume of 0.088 acre feet. Since the only runoff to this area will be from direct precipitation, a 10 year-24 hour event would result in approximately 0.040 acre feet of runoff. The area is more than adequate to contain the expected runoff; therefore, the only treatment used for this area is total containment.

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

(3) B.T.C.A. Area #3 - This is an area along the east edge of the property between the main railroad spur track and the silo loadout track. The area contains approximately 0.85 acres, and slopes to the north, where any runoff is contained between the two sets of tracks. The track (ballast) height is approximately 1.50' on the low end. Due to the slope, only 1/4 of the area (0.22 acres) will contain runoff. This calculates to a potential storage volume of 0.165 acre feet for this area. Since the runoff from a 10 year-24 event on this area is only 0.120 acre feet, the potential storage volume is more than adequate. Total containment is therefore the only treatment proposed for this area.

(4) B.T.C.A. Area #4 - This is an area of approximately 0.521 acres surrounding the pumphouse at the northeast corner of the site. A ditch on the west side intercept runoff and directs it into Pond #6. The area is in a slight depression, and is protected by berms to contain runoff. B.T.C.A. for this area is total containment, since the only runoff here is from direct rainfall. The potential runoff from a 10 year -24 hour event on this area is approximately 0.074 acre feet. The potential containment area is calculated to be a minimum of 0.26 acre feet, which is based on 1/2 the area at a depth of 1 foot (due to the slight slope). The area is therefore more than adequate to contain expected runoff.

(5) B.T.C.A Area #5 - This is an area of approximately 0.86 acres, consisting of the outslope of the railroad loop south of the refuse pile from culvert C-1 to the "Y" in the railroad. This area drains along the toe of the railroad and passes through a silt fence and a vegetated area for treatment prior to entering the 24" CMP beneath the main railroad spur track. The potential runoff from a 10-year, 24-hour event is approximately 0.12 acre-feet. Treatment is by vegetation and a silt fence as mentioned above.



BLACKHAWK ENGINEERING, CO.

Rt. 1, Box 146-H5 - Helper, Utah 84526 - Telephone (801) 637-2422

June 24, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

JUL 02 1993

DIVISION OF
OIL GAS & MINING

Re: Mountain Coal Company
Proposed Amendment
Addition of BTCA Area
C.V. Spur Permit
ACT/007/022
Carbon County, Utah

Dear Ms. Littig:

Enclosed are 3 copies of a proposed addition of a B.T.C.A. area for the C.V. Spur Permit, as requested by Mr. Bill Malencik. The B.T.C.A. Area is designated Area No. 5, and consists of the outslope of the railroad loop south of the refuse pile which does not drain to a sediment pond. The area is approximately 0.86 acres, and is treated by a silt fence prior to leaving the property. I have also clarified the location of the disturbed area perimeter on the map (Plate 3-2).

Revised maps and pages are numbered, and should replace corresponding numbers in the plan upon approval.

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

Respectfully,

Dan W. Guy
President

cc: Bill Malencik - DOGM
Kathy Welt - MCC
File

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

7.2.3.5 B.T.C.A. Areas

There are 5 small areas located at the northeast corner and south edge of the property, which do not drain to the sedimentation ponds. These areas have been designated as "Best Technology Currently Available" or "B.T.C.A." Areas, and are shown on Plate 3-2 of this M.R.P. The following is a description of each area along with the treatment used for sediment control:

- (1) B.T.C.A. Area #1 - This is an area of approximately 0.69 acres located between the pump house access road and the railroad tracks. The area is blocked off by a berm and is mostly vegetated. The area drains to the north-east corner of the property where it joins the sediment pond #6 outlet ditch. A silt fence is maintained at the edge of the area for additional sediment control. The only runoff from this area is from direct rainfall, which is calculated to be 0.098 acre feet for a 10 year-24 hour event (1.7 inches, NOAA, 1973). Treatment of runoff is by vegetative filter and silt fence.
- (2) B.T.C.A. Area #2 - This is a small area of approximately 0.28 acres located between the railroad loop and loadout tracks. The area has minimal vegetation, and is covered mostly by railroad ballast (slag). The top of the ballast is approximately 1.25 feet at the low end. Based on the slight slope, approximately 1/2 of the area or 0.14 acres will contain runoff at an average depth of 0.625 feet, giving the area a potential storage volume of 0.088 acre feet. Since the only runoff to this area will be from direct precipitation, a 10 year-24 hour event would result in approximately 0.040 acre feet of runoff. The area is more than adequate to contain the expected runoff; therefore, the only treatment used for this area is total containment.

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

(3) B.T.C.A. Area #3 - This is an area along the east edge of the property between the main railroad spur track and the silo loadout track. The area contains approximately 0.85 acres, and slopes to the north, where any runoff is contained between the two sets of tracks. The track (ballast) height is approximately 1.50' on the low end. Due to the slope, only 1/4 of the area (0.22 acres) will contain runoff. This calculates to a potential storage volume of 0.165 acre feet for this area. Since the runoff from a 10 year-24 event on this area is only 0.120 acre feet, the potential storage volume is more than adequate. Total containment is therefore the only treatment proposed for this area.

(4) B.T.C.A. Area #4 - This is an area of approximately 0.521 acres surrounding the pumphouse at the northeast corner of the site. A ditch on the west side intercept runoff and directs it into Pond #6. The area is in a slight depression, and is protected by berms to contain runoff. B.T.C.A. for this area is total containment, since the only runoff here is from direct rainfall. The potential runoff from a 10 year -24 hour event on this area is approximately 0.074 acre feet. The potential containment area is calculated to be a minimum of 0.26 acre feet, which is based on 1/2 the area at a depth of 1 foot (due to the slight slope). The area is therefore more than adequate to contain expected runoff.

(5) B.T.C.A Area #5 - This is an area of approximately 0.86 acres, consisting of the outslope of the railroad loop south of the refuse pile from culvert C-1 to the "Y" in the railroad. This area drains along the toe of the railroad and passes through a silt fence and a vegetated area for treatment prior to entering the 24" CMP beneath the main railroad spur track. The potential runoff from a 10-year, 24-hour event is approximately 0.12 acre-feet. Treatment is by vegetation and a silt fence as mentioned above.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 3, 1993

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Ken Wyatt, Reclamation Hydrologist *KW*

RE: BTCA Area 5 Amendment Review, Mountain Coal Company, C.V. Spur, ACT/007/022, Folder #2, Carbon County, Utah

SYNOPSIS

Mountain Coal Company submittal a proposed amendment to add an area within their permit area as a BTCA area in response to a request from Mr. Bill Malencik of the Division. This proposal was received by the Division on July 2, 1993, and was reviewed in a memo dated July 16, 1993 memo.

ANALYSIS

The first submittal was conditionally approved but requested that the operator provide a commitment to monitor runoff from this area. A second submittal was received by the Division on July 30, 1993. This submittal included a commitment to monitor water quality through the silt fence during storm events.

RECOMMENDATION

I recommend that this proposal be approved and incorporated into the permit.



Mountain Coal Company
West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015
Fax 303 929-5595



July 23, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: B.T.C.A. Area 5 Amendment
C.V. Spur Permit
ACT/007/022-93B; #3
Carbon County, Utah

Dear Ms. Littig:

Enclosed are 3 copies of a revised page for the C.V. Spur Permit. This page was revised to incorporate the commitment to monitor discharge from the silt fence as requested in your conditional approval letter of 7/18/93.

If you have any questions, or need any further information, please contact me or Kathy Welt.

Respectfully,

Dan W. Guy
(for Kathy Welt)

cc: Bill Malencik - DOGM
Kathy Welt - MCC
File

RECEIVED

JUL 30 1993

DIVISION OF
OIL, GAS & MINING

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

(3) B.T.C.A. Area #3 - This is an area along the east edge of the property between the main railroad spur track and the silo loadout track. The area contains approximately 0.85 acres, and slopes to the north, where any runoff is contained between the two sets of tracks. The track (ballast) height is approximately 1.50' on the low end. Due to the slope, only 1/4 of the area (0.22 acres) will contain runoff. This calculates to a potential storage volume of 0.165 acre feet for this area. Since the runoff from a 10 year-24 event on this area is only 0.120 acre feet, the potential storage volume is more than adequate. Total containment is therefore the only treatment proposed for this area.

(4) B.T.C.A. Area #4 - This is an area of approximately 0.521 acres surrounding the pumphouse at the northeast corner of the site. A ditch on the west side intercept runoff and directs it into Pond #6. The area is in a slight depression, and is protected by berms to contain runoff. B.T.C.A. for this area is total containment, since the only runoff here is from direct rainfall. The potential runoff from a 10 year -24 hour event on this area is approximately 0.074 acre feet. The potential containment area is calculated to be a minimum of 0.26 acre feet, which is based on 1/2 the area at a depth of 1 foot (due to the slight slope). The area is therefore more than adequate to contain expected runoff.

(5) B.T.C.A Area #5 - This is an area of approximately 0.86 acres, consisting of the outslope of the railroad loop south of the refuse pile from culvert C-1 to the "Y" in the railroad. This area drains along the toe of the railroad and passes through a silt fence and a vegetated area for treatment prior to entering the 24" CMP beneath the main railroad spur track. The potential runoff from a 10-year, 24-hour event is approximately 0.12 acre-feet. Treatment is by vegetation and a silt fence as mentioned above. The silt fence will be checked during or shortly after large storm events, and if water is discharging through the

fence, a water quality sample will be taken. The sample will be analyzed for operational parameters as outlined in Chapter 7 of this permit, and results will be submitted to the Division with quarterly monitoring reports.

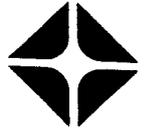
7.2.3.6 Refuse Pile Drainage

The refuse pile was surveyed in November 1991, and a new, "As-Constructed" map has been included as Plate 3-3B. In response to a Division Order, the drainage from the refuse pile has been upgraded to accommodate a 100 year-6 hr. event (1.91 inches).

As a result of the revised storm design requirements, 2 ditches and one culvert have been re-designed. Collection ditch CD-13 is on the north end of the pile parallel to the road, and drains the north and west slopes of the pile. Collection ditch CD-7 is along the south and east side of the pile, between the pile and the railroad. This is generally a broad, well vegetated area, and drains the south and east slopes of the pile. A concrete catch basin and temporary 10" flexible culvert are placed at the northeast corner of the pile to collect the drainage from the top area. Drainage from the top of the pile is controlled by berms, which prevent drainage down the slope, and direct it to the extreme northeast corner. The 10" flexible culvert will be replaced with a 24" culvert (C-22) based on the new calculations. This culvert is shown on page 7-88a "Culvert Design Specifications."

The following pages will summarize the methodology used in the ditch and culvert design. All refuse ditches and culverts are shown on new Plate 3-3B and have been added to Plate 3-2.

Mountain Coal Company
West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015
Fax 303 929-5595



July 23, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: B.T.C.A. Area 5 Amendment
C.V. Spur Permit
ACT/007/022-93B; #3
Carbon County, Utah

Dear Ms. Littig:

Enclosed are 3 copies of a revised page for the C.V. Spur Permit. This page was revised to incorporate the commitment to monitor discharge from the silt fence as requested in your conditional approval letter of 7/18/93.

If you have any questions, or need any further information, please contact me or Kathy Welt.

Respectfully,

A handwritten signature in black ink, appearing to read "Dan W. Guy". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Dan W. Guy
(for Kathy Welt)

cc: Bill Malencik - DOGM
Kathy Welt - MCC
File

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

(3) B.T.C.A. Area #3 - This is an area along the east edge of the property between the main railroad spur track and the silo loadout track. The area contains approximately 0.85 acres, and slopes to the north, where any runoff is contained between the two sets of tracks. The track (ballast) height is approximately 1.50' on the low end. Due to the slope, only 1/4 of the area (0.22 acres) will contain runoff. This calculates to a potential storage volume of 0.165 acre feet for this area. Since the runoff from a 10 year-24 event on this area is only 0.120 acre feet, the potential storage volume is more than adequate. Total containment is therefore the only treatment proposed for this area.

(4) B.T.C.A. Area #4 - This is an area of approximately 0.521 acres surrounding the pumphouse at the northeast corner of the site. A ditch on the west side intercept runoff and directs it into Pond #6. The area is in a slight depression, and is protected by berms to contain runoff. B.T.C.A. for this area is total containment, since the only runoff here is from direct rainfall. The potential runoff from a 10 year -24 hour event on this area is approximately 0.074 acre feet. The potential containment area is calculated to be a minimum of 0.26 acre feet, which is based on 1/2 the area at a depth of 1 foot (due to the slight slope). The area is therefore more than adequate to contain expected runoff.

(5) B.T.C.A Area #5 - This is an area of approximately 0.86 acres, consisting of the outslope of the railroad loop south of the refuse pile from culvert C-1 to the "Y" in the railroad. This area drains along the toe of the railroad and passes through a silt fence and a vegetated area for treatment prior to entering the 24" CMP beneath the main railroad spur track. The potential runoff from a 10-year, 24-hour event is approximately 0.12 acre-feet. Treatment is by vegetation and a silt fence as mentioned above. The silt fence will be checked during or shortly after large storm events, and if water is discharging through the

fence, a water quality sample will be taken. The sample will be analyzed for operational parameters as outlined in Chapter 7 of this permit, and results will be submitted to the Division with quarterly monitoring reports.

7.2.3.6 Refuse Pile Drainage

The refuse pile was surveyed in November 1991, and a new, "As-Constructed" map has been included as Plate 3-3B. In response to a Division Order, the drainage from the refuse pile has been upgraded to accommodate a 100 year-6 hr. event (1.91 inches).

As a result of the revised storm design requirements, 2 ditches and one culvert have been re-designed. Collection ditch CD-13 is on the north end of the pile parallel to the road, and drains the north and west slopes of the pile. Collection ditch CD-7 is along the south and east side of the pile, between the pile and the railroad. This is generally a broad, well vegetated area, and drains the south and east slopes of the pile. A concrete catch basin and temporary 10" flexible culvert are placed at the northeast corner of the pile to collect the drainage from the top area. Drainage from the top of the pile is controlled by berms, which prevent drainage down the slope, and direct it to the extreme northeast corner. The 10" flexible culvert will be replaced with a 24" culvert (C-22) based on the new calculations. This culvert is shown on page 7-88a "Culvert Design Specifications."

The following pages will summarize the methodology used in the ditch and culvert design. All refuse ditches and culverts are shown on new Plate 3-3B and have been added to Plate 3-2.

Mountain Coal Company
West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015
Fax 303 929-5595



July 23, 1993

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: B.T.C.A. Area 5 Amendment
C.V. Spur Permit
ACT/007/022-93B; #3
Carbon County, Utah

Dear Ms. Littig:

Enclosed are 3 copies of a revised page for the C.V. Spur Permit. This page was revised to incorporate the commitment to monitor discharge from the silt fence as requested in your conditional approval letter of 7/18/93.

If you have any questions, or need any further information, please contact me or Kathy Welt.

Respectfully,

Dan W. Guy
(for Kathy Welt)

cc: Bill Malencik - DOGM
Kathy Welt - MCC
File

Mining and Reclamation Plan
Castle Valley Spur Coal Processing and
Loadout Facility Permit Application

(3) B.T.C.A. Area #3 - This is an area along the east edge of the property between the main railroad spur track and the silo loadout track. The area contains approximately 0.85 acres, and slopes to the north, where any runoff is contained between the two sets of tracks. The track (ballast) height is approximately 1.50' on the low end. Due to the slope, only 1/4 of the area (0.22 acres) will contain runoff. This calculates to a potential storage volume of 0.165 acre feet for this area. Since the runoff from a 10 year-24 event on this area is only 0.120 acre feet, the potential storage volume is more than adequate. Total containment is therefore the only treatment proposed for this area.

(4) B.T.C.A. Area #4 - This is an area of approximately 0.521 acres surrounding the pumphouse at the northeast corner of the site. A ditch on the west side intercept runoff and directs it into Pond #6. The area is in a slight depression, and is protected by berms to contain runoff. B.T.C.A. for this area is total containment, since the only runoff here is from direct rainfall. The potential runoff from a 10 year -24 hour event on this area is approximately 0.074 acre feet. The potential containment area is calculated to be a minimum of 0.26 acre feet, which is based on 1/2 the area at a depth of 1 foot (due to the slight slope). The area is therefore more than adequate to contain expected runoff.

(5) B.T.C.A Area #5 - This is an area of approximately 0.86 acres, consisting of the outslope of the railroad loop south of the refuse pile from culvert C-1 to the "Y" in the railroad. This area drains along the toe of the railroad and passes through a silt fence and a vegetated area for treatment prior to entering the 24" CMP beneath the main railroad spur track. The potential runoff from a 10-year, 24-hour event is approximately 0.12 acre-feet. Treatment is by vegetation and a silt fence as mentioned above. The silt fence will be checked during or shortly after large storm events, and if water is discharging through the

fence, a water quality sample will be taken. The sample will be analyzed for operational parameters as outlined in Chapter 7 of this permit, and results will be submitted to the Division with quarterly monitoring reports.

7.2.3.6 Refuse Pile Drainage

The refuse pile was surveyed in November 1991, and a new, "As-Constructed" map has been included as Plate 3-3B. In response to a Division Order, the drainage from the refuse pile has been upgraded to accommodate a 100 year-6 hr. event (1.91 inches).

As a result of the revised storm design requirements, 2 ditches and one culvert have been re-designed. Collection ditch CD-13 is on the north end of the pile parallel to the road, and drains the north and west slopes of the pile. Collection ditch CD-7 is along the south and east side of the pile, between the pile and the railroad. This is generally a broad, well vegetated area, and drains the south and east slopes of the pile. A concrete catch basin and temporary 10" flexible culvert are placed at the northeast corner of the pile to collect the drainage from the top area. Drainage from the top of the pile is controlled by berms, which prevent drainage down the slope, and direct it to the extreme northeast corner. The 10" flexible culvert will be replaced with a 24" culvert (C-22) based on the new calculations. This culvert is shown on page 7-88a "Culvert Design Specifications."

The following pages will summarize the methodology used in the ditch and culvert design. All refuse ditches and culverts are shown on new Plate 3-3B and have been added to Plate 3-2.