

0002



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

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801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

October 11, 1995

**FIELD(001)**

Re: Water Monitoring Amendment, Gordon Creek #3 & #6 Mines, Mountain Coal Company, ACT/007/017-95A, Folder #2, Emery County, Utah

Dear Mr. **FIELD(002)**:

Enclosed is a copy of Mountain Coal Company's permit modification (Amendment 95A) to change the water monitoring Station 3-3-W from a UPDES Discharge Point to a regular monitoring station.

The Division anticipates approving this permit change on October 31, 1995. If you have any questions or need additional information, please contact me or Joseph C. Helfrich, Permit Supervisor, at your earliest convenience.

Sincerely,

A handwritten signature in cursive script that reads "Susan M. White".

Susan M. White  
Sr. Reclamation Biologist

Enclosure  
cc: Dan W. Guy  
Paige Beville  
TRANLTR.95A



**James Fulton, Chief  
Denver Field Division  
Office of Surface Mining  
Reclamation and Enforcement  
Western Regional Coordinating Center  
1999 Broadway, Ste. 3320  
Denver, CO 80202-5733**

**Mark Page, Regional Engineer  
Utah Division of Water Rights  
Southeastern Regional Office  
453 S. Carbon Avenue  
P. O. Box 718  
Price, UT 84501-0718**

**Dave Ariotti, District Engineer  
Southeastern Utah Health Dept.  
28 South 100 East  
P. O. Box 800  
Price, UT 84501**

**Bill Bates, Habitat Manager  
Utah Division of Wildlife Resources  
455 West Railroad Avenue  
Price, UT 84501**

**Price Field Office (1 official copy)  
Division of Oil, Gas and Mining  
451 East 400 North  
Price, UT 84501-2699**

**Division/ SLO - (1 official copy)**

**Permittee (1 official copy)**

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**\* Distributed only for new areas (surface or subsurface) involved in permitting actions, otherwise the "new" copies are review copies.**

**Revised October 12, 1995**

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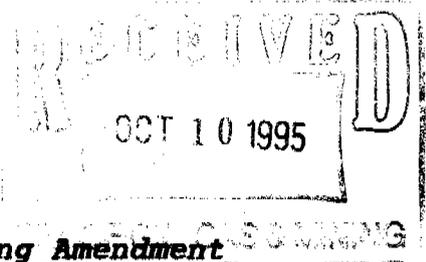
Mountain Coal Company  
West Elk Mine  
Post Office Box 591  
Somerset, Colorado 81434  
Telephone 303 929-5015

Copy Susan  
original to file (Library)



Copy for here  
October 2, 1995

**Susan White**  
**Reclamation Specialist**  
**Utah Division of Oil, Gas and Mining**  
**355 West North Temple**  
**3 Triad Center, Suite 350**  
**Salt Lake City, Utah 84180-1203**



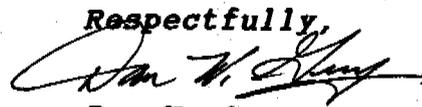
Re: **Water Monitoring Amendment**  
**Gordon Creek No. 3-6 Mines**  
**INA/007/017**  
**Carbon County, Utah** *File #2*

Dear Susan:

Enclosed are 8 copies of a proposed water monitoring amendment for the Gordon Creek No 3-6 Mines. The proposal is to change Station 3-3-W from a UPDES Discharge Point to a regular monitoring station.

The minesite has received Phase II Bond Release, and the UPDES permit has been cancelled effective August 30, 1995. A copy of the letter cancelling the permit is also enclosed.

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

Respectfully,  
  
Dan W. Guy  
for  
Paige B. Beville

cc: Scot Anderson  
Paige Beville  
File

# APPLICATION FOR PERMIT CHANGE

Title of Change: *WATER MONITORING AMENDMENT*

Permit Number: *JNA 10071017*

Mine: *GORDON CREEK 3/6*

Permittee: *Mountain Coal Co.*

Description, include reason for change and timing required to implement:

*Elimination of UPDES Discharge.*

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 1. Change in the size of the Permit Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.               |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 2. Change in the size of the Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.            |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 4. Will permit change include operations in hydrologic basins other than currently approved?   |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?                                  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6. Does permit change require or include public notice publication?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 7. Permit change as a result of a Violation? Violation # _____   |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 8. Permit change as a result of a Division Order? D.O.# _____  |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9. Permit change as a result of other laws or regulations? Explain: <i>Cancelled UPDES Permit.</i>                                       |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 10. Does permit change require or include ownership, control, right-of-entry, or compliance information?                                 |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 11. Does the permit change affect the surface landowner or change the post mining land use?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 12. Does permit change require or include collection and reporting of any baseline information?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?                                |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 14. Does permit change require or include soil removal, storage or placement?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 15. Does permit change require or include vegetation monitoring, removal or revegetation activities?                                     |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 16. Does permit change require or include construction, modification, or removal of surface facilities?                                  |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 17. Does permit change require or include water monitoring, sediment or drainage control measures?                                       |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 18. Does permit change require or include certified designs, maps, or calculations?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 19. Does permit change require or include underground design or mine sequence and timing?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 20. Does permit change require or include subsidence control or monitoring?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?                                  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?                           |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 23. Is this permit change coal exploration activity <input type="checkbox"/> inside <input type="checkbox"/> outside of the permit area? |

Attach 8 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

*Dana Ballard for George B. Ferrell 10/10/95*  
Signed - Name Position Date

Subscribed and sworn to before me this 2 day of OCT, 19 95

*Dana Ballard*  
Notary Public



**DANA BALLARD**  
NOTARY PUBLIC - STATE OF UTAH  
865 EAST 2800 SOUTH  
PRICE, UTAH 84501  
COMM. EXP. 9-27-97

My Commission Expires:  
Attest: STATE OF  
COUNTY OF

9-27- 19 97  
UT  
CANJON

Received by Oil, Gas & Mining  
OCT 10 1995  
DIV. OF OIL, GAS & MINING  
ASSIGNED PERMIT CHANGE NUMBER







State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WATER QUALITY

- original to Paige  
- copy to Dan G.  
- MCC - Utah file

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August 30, 1995

Dan W. Guy  
Mountain Coal Company  
P.O. Box 591  
Somerset, CO 81434

Dear Mr. Guy:

Subject: UPDES Permits No. ~~UTG040014~~ - Gordon Creek and UTG040015 - Huntington Canyon

Your recent letter states that you have discontinued two of your discharges into waters of the State and that the above referenced permits to discharge are no longer needed. Therefore, on the basis of your request, your discharge permits will be removed from our active files and will be considered as no longer in effect.

If you plan to have any future discharge into waters of the State, please submit an application for a permit to our office at least 180 days before the date the discharge is to begin. If you have any questions, please contact Steven McNeal at (801) 538-6075.

Sincerely,

Donald A. Hilden, Ph.D., Manager  
Permits and Compliance Section

KC/kc

cc: Judy Kobus-Fisk, U.S. EPA Region VIII  
Claron D. Bjork, Southeastern Utah District Health Dept.  
Dave Ariotti, District Engineer



**SECTION 3.2**

**SOWBELLY CANYON**

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water capacity and rock fragments. A total of 9 random soil samples will be taken from the disturbed area in Sowbelly Canyon, equivalent to one sample for every 2.3 acres. Appropriate soil amendments will be added according to the results of tests performed on these samples. Areas which will not revegetate to support the intended land use of wildlife habitat will be covered with 6 inches of resoiling material from Gravel Canyon.

If borrow material is used, the area will be dry and scarified to a depth of 6 inches prior to placement of the borrowed material.

Scarification of the graded soils will be accomplished prior to seeding or placement of borrow material in order to reduce compaction on all graded areas and to improve vegetation establishment. See Section 3.2-5(4) for scarification methods.

**Seeding and Mulching** - The seed mix defined by Species List #1, as described in Chapter 9, will be used on the majority of the disturbed area in Sowbelly Canyon. The cut slopes to remain will receive special treatment as described in Chapter 9. The areas within 25 feet of the centerline of intermittent reclamation drainage channels (SBRD-1, SBRD-8, SBRD-9) will be seeded with the seed mix defined by Species List #5. In all cases, the seed will be mixed with a small amount of wood fiber mulch, used as tracer, and water to form a slurry. The slurry will be applied to the reclaimed surfaces using a hydroseeder. The balance of the mulch, mixed with a tackifier and the fertilizer in a second slurry, will then be sprayed over the same area. The total coverage of the mulch will be at the rate of 2,000 pounds per acre. In areas inaccessible to the hydroseeder, the seed will be broadcast by mechanical means. Areas inaccessible to the hydromulcher will be mulched with straw and tacked with a nylon or other suitable netting. The rate of application for the straw will be 2,000 pounds per acre.

The reclamation treatments for the reclaimed areas in Sowbelly Canyon are shown on Exhibit 3.2-5. The revegetation will be evaluated for bond release according to the plan described in Chapter 9. Any deviation from this procedure will be performed in accordance with Chapter 9.

**3.2-10 As-Built Reclamation Features**

Reclamation improvements are scheduled for the fall of 1995. Improvements will include the placement of additional fill against the highwall/cutslope in the vicinity of the sealed No. 5 Fan portal, filling a low area adjacent to SBRD-1C, riprap repair in various channels, and reseeding of low-density vegetation areas. In conjunction with this effort, Cyprus/Amax proposes to implement the final reclamation topography plan, as shown on permit Exhibit 3.2-4, by filling in Ponds 016 and 017. The berm diversions directing precipitation runoff to the ponds will also be filled and regraded. The areas disturbed by regrading will be deep gouged using an excavator, and 2 tons/acre of hay mulch will be incorporated into the top 18 inches of the soil. Seeding will immediately follow, and straw mulch will be applied at the rate of 1 ton/acre. The straw will be lightly crimped in place using the teeth of an excavator bucket. Removal of the ponds negates the need for a maintenance road; and thus, temporary road A-2 will also be removed. Again, the redisturbed area will be gouged, mulched, and seeded. Implementation of the final reclamation topography plan will eliminate the need to redisturb the canyon in several years once vegetation is established.

Upon completion of these reclamation improvements, all required as-built and design information will be submitted to the Division for their review and initiation of the Phase I bond release process.

**3.2-11 References**

Barfield, B.J., R.C. Warner, and C.T. Haan. 1981. Applied Hydrology and Sedimentology for Disturbed Areas. Oklahoma Technical Press. Stillwater, Oklahoma.

Linsley, Ray K. and Joseph B. Frazini. 1979. Water Resources Engineering. McGraw-Hill Book Company. New York.

Geocomp Corporation. 1988. GEOSLOPE, Version 4.2. Concord, MA.

Hoek, Evert and John Bray. 1981. Rock Slope Engineering. Third edition. The Institute of Mining and Metallurgy. London.

Israelson, C. Earl, Joel E. Fletcher, Frank W. Haws, and Eugene K. Israelson. Erosion and Sedimentation in Utah: A Guide for Control. February 1984. Utah State University. Logan, Utah.

Miller, J.F., R.H. Frederick, and R.J. Tracey. 1973. Precipitation-Frequency Atlas of the Western United States. Volume VI-Utah. National Oceanic and Atmospheric Administration. National Weather Service. Silver Spring, Maryland.

U.S. Department of Transportation. 1967. Use of Riprap for Bank Protection. Hydraulic Engineering Circular No. 11. Washington, D.C..

Simons, Li & Associates, Inc. Design of Sediment Control Measures for Small Areas in Surface Coal Mining. 1983. Prepared for the Office of Surface Coal Mining, Washington, D.C..

Simons, Li and Associates, Inc. September 1982. OSM/TR-82/2. Surface Mining Water Diversion Design Manual. Prepared for the Office of Surface Mining. Washington, D.C..

State of Utah. R645 - Coal Mining Rules. August 23, 1991. Department of Natural Resources. Division of Oil, Gas and Mining.

U.S. Department of Agriculture. Soil Conservation Service. July 1977. Preliminary Guidance for Estimating Erosion on Areas Disturbed by Surface Mining Activities in the Interior Western United States.

U.S. Soil Conservation Service. 1972. National Engineering Handbook, Section 4: Hydrology. U.S. Government Printing Office. Washington, D.C.

TABLE 3.2-1

SOWBELLY CANYON OPERATIONAL HYDROLOGY STORM RUNOFF  
 SUMMARY FOR THE 10-YEAR, 24-HOUR STORM

WATERSHED (SBWS- )	CURVE NUMBER	TIME OF CONCENTRATION (HR)	DRAINAGE AREA (MI <sup>2</sup> )	RUNOFF DEPTH (IN)	PEAK DISCHARGE (cfs)
U2	73	0.166	0.023	0.277	3.44
U4	73	0.091	0.006	0.277	1.03
U3 & U4	68	0.306	0.183	0.162	8.17
U2, U3 & U4	68	0.306	0.206	0.162	9.19
U1 THRU U4	74	0.523	1.757	0.304	173.6
U5	73	0.043	0.003	0.277	0.57
U6	73	0.126	0.020	0.277	3.22
U7	73	0.231	0.197	0.277	26.1
U8	73	0.076	0.004	0.277	0.71
U9	75	0.076	0.003	0.333	0.66
U10 & U11	75	0.172	0.063	0.333	11.8
U11	75	0.029	0.001	0.333	0.24
U12	75	0.092	0.006	0.333	1.28
U12 & U13	75	0.120	0.032	0.333	6.55
U14	75	0.068	0.003	0.333	0.66
U14 & U15	75	0.058	0.007	0.333	1.58
U16	75	0.199	0.072	0.333	12.95
U16 & U17	75	0.201	0.128	0.333	22.97
D1	90	0.163	0.007	1.009	4.24
D2	90	0.141	0.008	1.009	4.90
D3	90	0.047	0.003	1.009	1.94