



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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July 23, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *DORZ*

FROM: Robert Davidson, Soils Reclamation Specialist *RAD*

RE: Sediment Pond and Topsoil Storage Amendment, Genwall Resources, Inc., Crandall Canyon, ACT/015/032-97B, Folder #2, Emery County, Utah

SYNOPSIS

On July 18, 1997, Genwall submitted an amendment for revising the Major Permit Modification to expand across Crandall Canyon Creek. The amendment contained information for expanding and changing the configuration of the sediment pond, and for establishing a new topsoil storage pile (Stockpile #4) located in the mouth of Crandall Canyon.

ENVIRONMENTAL RESOURCE INFORMATION

SOILS RESOURCE INFORMATION

Regulatory Reference: 30 CFR Sec. 783.21, 817.200(c); R645-301-220, -301-411.

Analysis:

The Amendment adequately presents environmental resource information as follows:

- Soil resources for the Stockpile-4 area are described in the soil survey information presented in Appendix 2-3A.

Soil resources for the Stockpile-#4 area are described in the soil survey information presented in Appendix 2-3A. Stockpile #4 will be located across the road and

north of stockpile #3. Soils in Crandall Canyon were previously mapped (Order III) by the US Forest Service; information is presented in Appendix 2-3A.

Findings:

The requirements of this section of the regulations are considered adequate.

OPERATION PLAN

TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-230.

Analysis:

Soil salvage and stockpiling operations are adequately described for Topsoil Stockpile #4 as follows:

- Topsoil and substitute topsoil salvaged from the expansion area will be stored in Stockpile #4.

Topsoil and substitute topsoil salvaged from the expansion area will be stored in Stockpile #4. Topsoil, subsoil and substitute topsoil materials associated with the culvert expansion will be removed and stored in Stockpile #4 which is located across the road and north of Stockpile #3 in the mouth of Crandall Canyon. The pile encompasses 0.50 acres and is designed to hold 4200 cubic yards of soil with 3:1 side slopes and a top elevation of 6997'. Therefore, the pile will accommodate an excess of 700 cubic yards of soil if more than the projected 3500 cubic yards of soil is salvaged from culvert expansion area. Refer to Plates 2-5, 2-5A and 2-5B for stockpile design details.

The stockpiled soil will be protected from erosion by establishing vegetation. Two tons per acre of organic mulch and an approved seed mix as specified by the Division will be incorporated and placed on the topsoil stockpile in the early fall. The pile will be protected from sediment loss by installing silt fences around the perimeter.

Findings:

The requirements of this section of the regulations are considered adequate.

RECLAMATION PLAN

TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-240.

Analysis:

The amendment includes reclamation plans for soil restoration and as follows:

- Soil stockpile areas will be reclaimed with in-place soils.
- Soil nutrients and amendments will be applied to the soils after soil redistribution and during final reclamation.
- Soil stabilization practices will include surface roughening techniques, such as gouging and/or deep pocking, to help minimize compaction.

Soil stockpile areas will be reclaimed with in-place soils. The 1.40 acres comprising the four soil stockpile locations will not require soil redistribution since the native topsoil is still in place beneath the stockpiles. These in-place soils will be used to reclaim the stockpile areas.

Soil nutrients and amendments will be applied to the soils after soil redistribution and during final reclamation. Two soil samples per acre will be submitted to a lab for assessment of nutrient requirements. All lab work will be conducted by a Division approved and qualified laboratory. Results of the samples, along with consultation with the Division, will determine the necessary nutrients and amendments to the soil.

Soil stabilization practices will include surface roughening techniques, such as gouging and/or deep pocking, to help minimize compaction. Surface roughening techniques, such as gouging and/or deep pocking, will be used to minimize compaction. These techniques will also control surface runoff and erosion, help harvest water, and provide micro-conditions that promote plant establishment.

Findings:

The requirements of this section of the regulations are considered adequate.

PERMIT AMENDMENT APPROVAL

Title: <u>Sediment Pond + Topsoil Storage Change</u>	PERMIT NUMBER: <u>ACT/015/032</u>
Description: <u>Expand permit area to allow for storage of Topsoil + expansion of Sediment pond.</u>	PERMIT CHANGE #: <u>97B</u>
	MINE: <u>Crandall Canyon</u>
	PERMITTEE: <u>Genwall Resources Inc.</u>

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.	Yes
2.	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:	
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	
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.	Yes
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.	Yes
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.	Yes
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.).	Yes
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.	Yes
7.	The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	Yes
8.	The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	Yes
9.	The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	Yes
10.	The Applicant has satisfied the applicable requirements of R645-302.	Yes
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.	NA

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

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 *Dan A. Haddock*
 Division of Oil, Gas and Mining

7/30/97
 EFFECTIVE DATE