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State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 19, 2019

Karin Madsen, Resident Agent
Genwal Resources Inc.
P.O. Box 910
East Carbon, Utah 84520-0910

Subject: Drainage Revision, Genwal Resources, Inc., Crandall Canyon Mine, C/015/0032, Task #5938

Dear Ms. Madsen:

The Division has reviewed your application. The Division has identified deficiencies that must be addressed before final approval can be granted. The deficiencies are listed as an attachment to this letter.

The deficiencies authors are identified so that your staff can communicate directly with that individual should questions arise. The plans as submitted are denied. Please resubmit the entire application by no later than August 19, 2019.

If you have any questions, please call me at (801) 538-5350.

Sincerely,

Steve Christensen
Permit Supervisor

SKC/sqs
O:\015032.CRA\WG5938 DRAINAGE\Deficiencies.doc





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Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0150032
TaskID: 5938
Mine Name: CRANDALL CANYON MINE
Title: DRAINAGE REVISION (N21216)

Operation Plan

Road System Other Transportation Facilities

Analysis:

The amendment meets the State of Utah R645 requirements for Road Systems and Other Transportation Facilities.

The amendment satisfies the requirements of R645-301-527.210 because of changes made to the drainage plan in response to NOV 21216 which required the drainage facilities along FR 0248 be repaired and reinforced in the area of the sediment pond. In May of this year, a failure occurred wherein the shoulder and Gabion support structures along FR 0248 failed. The pavement was relatively unaffected, but the shoulder and road base needed to be rebuilt and the drainage structures reset. The failure was due in large part to the drainage plan not being built to original specifications which resulted in poor drainage and ponding along FR 0248. To address the ineffective drainage throughout this section of FR 0248, several structures were installed in the rebuilt section of road. In addition to resetting culvert C-3, drainage ditch DD-7 was armored with a thick layer of concrete and a concrete swale was built to replace the previously inadequate slot culvert C-15.

jeatchel

Hydrologic General

Analysis:

The application does not meet the State of Utah R645 requirement for Hydrology.

An explanation was add to page 11 of the Crandall Canyon Mine, Sedimentation and Drainage Control Plan explaining drainage control issues related to the 2018 Trail Mountain Fire that effected the vegetation in Crandall Canyon surrounding the mine site. A very minor berm was placed near the inlet to undisturbed culvert UD-1 that would prevent a debris flow coming off the burn scar from hitting the Crandall Canyon Mine buildings (directing the debris to an unused section of the site facility) in case UD-1 were to become blocked by debris during a mud slide. This is not a permanent feature and as indicated by the Permittee, it will be removed when the burn scar has been re-vegetated. The explanation of this feature in the drainage control plan should include a specific statement that the berm will be removed when no longer necessary. This berm feature was called out in Plate 7-5, but should be removed due to the fact that it is not a hydrologic drainage feature, simply a small temporary berm to direct potential mud and debris.

Deficiencies Details:

The amendment does not meet the State of Utah R645 requirements for Hydrology. The following deficiency must be addressed prior to final approval:

R645-301-731.720, R645-301-732 The Permittee must update the added note in the Sedimentation and Drainage

Control Plan of the MRP to indicated that the small berm near the UD-1 inlet will be removed as soon as vegetation on the Trail Mountain burn scar has been re-established. This berm feature must also be removed from Plate 7-5 as it is not a drainage control feature.

adaniels

Hydrologic Diversion General

Analysis:

The application has met the State of Utah R645 requirement for Hydrologic Diversion General.

Following NOV 21216 a retaining wall was re-built near the sedimentation pond in compliance with the enforcement action. To prevent future problems with water pooling behind this newly re-built wall, Slot Culvert C-15 was removed and replaced by a concrete swale. The previous slot culvert had frequently caused drainage problem and the installed swale should prevent future drainage issues in this area. Table 5 of the Sedimentation and Drainage Control Plan in the MRP was updated to contain this information. This is a minor change and should not contribute to any changes in the disturbed area drainage.

adaniels