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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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INSPECTION REPORT

INSPECTION DATE & TIME: 7/26/91
10:00 a.m. - 2:30 p.m.

Permittee and/or Operator's Name: Genwal Coal Company
Business Address: P O Box 1201, Huntington Ut 84528; (687-9813)
Mine Name: Crandall Canyon Permit Number: ACT/015/032
Type of Mining Activity: Underground X Surface Other
County: Emery Company Official: Jay Marshall, Jim Pruitt
State Official: Priscilla Burton
Federal Official(s): None Partial: X Complete:
Date of last Inspection: 6/27/91
Weather Conditions: Sunshine, 80°'s F
Acreage: Permitted 527.4 Disturbed 5.6 Regraded 0.5
Seeded 0.5 Bonded 5.6 Enforcement Action: None

COMPLIANCE WITH PERMITS AND PERFORMANCE STANDARDS

	YES	NO	N/A	COMMENTS
1. PERMITS	(X)	()	()	(X)
2. SIGNS AND MARKERS	()	()	()	()
3. TOPSOIL	(X)	()	()	(X)
4. HYDROLOGIC BALANCE:				
a. STREAM CHANNEL DIVERSIONS	()	()	()	()
b. DIVERSIONS	()	()	()	()
c. SEDIMENT PONDS AND IMPOUNDMENTS	(X)	()	()	(X)
d. OTHER SEDIMENT CONTROL MEASURES	(X)	()	()	(X)
e. SURFACE AND GROUNDWATER MONITORING	(X)	()	()	(X)
f. EFFLUENT LIMITATIONS	()	()	()	()
5. EXPLOSIVES	()	()	()	()
6. DISPOSAL OF DEVELOPMENT WASTE & SPOIL	()	()	()	()
7. COAL PROCESSING WASTE	()	()	()	()
8. NONCOAL WASTE	()	()	()	()
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	()	()	()	()
10. SLIDES AND OTHER DAMAGE	()	()	()	()
11. CONTEMPORANEOUS RECLAMATION	()	()	()	()
12. BACKFILLING AND GRADING	()	()	()	()
13. REVEGETATION	()	()	()	()
14. SUBSIDENCE CONTROL	()	()	()	()
15. CESSATION OF OPERATIONS	()	()	()	()
16. ROADS				
a. CONSTRUCTION	(X)	()	()	(X)
b. DRAINAGE CONTROLS	()	()	()	()
c. SURFACING	(X)	()	()	(X)
d. MAINTENANCE	()	()	()	()
17. OTHER TRANSPORTATION FACILITIES	(X)	()	()	(X)

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(Numbers correspond to items listed on page 1)

1. PERMITS

Genwal Coal Company was issued an approval dated 6/28/91 for haulroad and surface expansion (amendment 91B). The approval was contingent upon compliance with the following: 1) sampling waste rock and storage of same at an approved, permitted site 2) submittal of As-Built maps within 30 days of completion of the construction 3) stream monitoring for turbidity at mid-day, daily during construction and weekly analysis of pH, EC, TSS, and temperature 4) updating the site description in the MRP and 5) salvaging all topsoil. A letter from Jay Marshall to Daron Haddock dated June 27, 1991 (received July 17, 1991) delineates in more detail the understanding of the activities to occur onsite during the haulroad and surface expansion.

Genwal Coal Company was issued a permit dated 4/22/91 for the State Lease Additions ML-21568 and ML-21569. This permit carries 6 stipulations all due within 60 days (attachment A listing the stipulations is included with this report). Response to the stipulations was received in the form of a revised Chapter 14 (received June 21, 1991) and a revised Chapter 3 (received July 3, 1991). The response is being reviewed by the Division staff.

On June 28, 1991, Allen Childs requested approval for the temporary storage at Wellington Preparation Plant of rock waste from the surface expansion activity at Crandall Canyon Mine. The approval was granted on July 3, 1991 by Daron Haddock. The approval letter specifies that the Temporary Spoil Storage Area Amendment (ACT/007/012-91B) is inserted into the MRP by August 2, 1991 (Copies of the the approval and request were faxed (July 30) to Jay Marshall, who was unaware of the condition of approval at the time of inspection.) The operator was advised to have a permanent waste disposal plan submitted for Crandall Canyon on Aug 2, 1991 as well as the modification to the Wellington Prep Plant plan for receipt of temporary spoil storage. **On August 2, 1991, the Division must receive both temporary and permanent rock waste disposal plans as requirements of compliance with the Mining and Reclamation Permit dated 4/22/91 and the approval dated 7/3/91.**

3. TOPSOIL

The approval for haulroad and surface expansion involved disturbing a small area (approximately 5 X 10 ') that was not previously disturbed. The operator requested an exception for topsoil salvage, since the area was of limited size and the topsoil was of questionable value. The request was approved.

During my inspection May 22, 91, I sampled the middle and upper topsoil piles for contamination from plowing of the road base onto the pile during snow removal. A sample of the middle

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pile's contaminant-free topsoil was taken for comparison. The samples were analyzed for pH, EC and SAR. Sample results are included with this report. Although a thorough analysis was not performed, the material has a low electrical conductivity and a pH of 8.5 (the pH of the topsoil was 8.1). The most obvious form of contamination from the road base is textural (clays and gravel) and visual. Although the road is presently paved with asphalt, the snowplow will continue to be a source of contamination from oil, grease, diesel and salts. **The operator must protect the topsoil from all contamination in the future.**

4. b. DIVERSIONS

The culvert diverting SP30 around the mine portal is no longer serviceable. Mr. Marshall stated that the maintenance of this culvert has been suspended because there is no flow emanating from the spring. Although Mr. Marshall has verbally discussed this matter with the Rick Summers (Division hydrologist) and Daron Haddock (Permit Supervisor), **I advised Mr. Marshall to submit an amendment to the plan, prior to the next inspection, stating the argument for removing the culvert.**

The disturbed diversion culvert carrying runoff from the west side of the haulroad truck turn-around has been modified. This culvert is now enclosed and flows into a dropdrain at the site of the expanded oil storage facility.

4. c. SEDIMENT PONDS AND IMPOUNDMENTS

The outslope of the haulroad above the sediment pond has been replaced with a gabion structure. The pond receives drainage from two culverts that carry water from both sides of the haulroad above the pond; these culverts were extended through the gabion structure, approximately 3 feet.

The berm directing flow from the haulroad down to the sediment pond must be redefined to direct rain, snow and ice melt to the pond rather than down slope into the undisturbed drainage. Likewise, the pond access road must be sloped to force run-off into the pond. **The operator will accomplish the reconstruction of the berm and redefine the slope of the pond access road prior to the next inspection.**

The sediment pond is receiving water from a leak in the Mine Water pumping system. According to Mr. Pruitt, accumulations of water in the mine during the miners holiday were being pumped to a storage tank, when the surface fire-suppression line (a Tee off the main pumping line) sprung a leak. Approximately 2,000 gallons (Mr. Pruitt's estimate) leaked out of the line before it was plugged. A portion of this water is flowing down the 12" PVC pipe from the Fan House to the Sediment Pond (see Plate 3-1). Enough water accumulated, that

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the Fan Housing was flooded and seepage is occurring from the fan housing. The water has ponded on the lowest elevation around the Fan House drainage culvert. At present, the water was approximately 5" deep. No evidence of water flowing outside of the disturbed area boundary was seen. The water is entering the sediment pond at a rate of approximately 15 to 20 gallons per hour (Division estimate). The level of water in the sediment pond is low, with capacity to contain this water. The operator realizes that the pond is not sized to contain any mine water on a permanent basis. **The operator is cautioned to prevent any further unauthorized additions to the pond.**

4. d. OTHER SEDIMENT CONTROL MEASURES

The operator and contractor (Nielson Construction) have complied with the terms of construction as stipulated by the Forest Service and the Division for sediment control (as described in the June 27, 1991 letter from Jay Marshall to Daron Haddock).

Work commenced on July 2, 1991. Unfortunately, Crandall Canyon received two storm events on July 3 and July 4. A technical site visit by Rick Summers occurred on July 16, 1991. The gabion and Hilfiker retaining walls were complete by July 22, 1991.

4. e. SURFACE AND GROUND H₂O MONITORING

Water monitoring of turbidity in Crandall Canyon was performed daily during construction. The Creek was sampled once a week for pH, EC, and temperature characteristics. The field sheets are available at the mine office, but were not seen during this inspection.

16. ROADS

The road has been widened at two points. Outside of the permit boundary, between the middle and lower topsoil piles, the road was widened with a Hilfiker retaining wall. Inside the disturbed area boundary, by the sediment pond, the road was widened with a gabion structure. The length of the road from the mine site to the junction with State Highway 31 has been paved with 6" of asphalt.

17. OTHER TRANSPORTATION FACILITIES

The crusher at the top of the coal silo has been replaced with a new crushing facility at the conveyor portal. The operator blasted the sandstone ledged to provide firm footings for mounting the crusher. Mr. Marshall stated that the new facility has operating crushers. When the primary crusher is in operation, the crushed coal is conveyed out to the silo. The secondary crusher is placed into operation when the primary

crusher malfunctions. The secondary crusher allows crushed coal to free-fall to a storage pile on the ground.

At the time of this inspection, the secondary crusher was in operation. The crushed coal was free-falling approximately 50' down to a pile which was being loaded into the conveyor feed-bin with a front-end loader.

Item number one of the September 1988 Air Quality Approval Order allows two crushing facilities at the mine site. The Bureau of Air Quality is not yet in receipt of the Notice of Intent describing the new facilities at the mine (telephone conversations with C. Broadhead, J. Dean, and D. Robinson).

Copy of this Report:

Mailed to: Brian Smith (OSM); Jay Marshall (Genwal Coal Co)

w/o encl: Jeff Dean (Utah Bur of Air Quality)

Given to: Daron Haddock and Joe Helfrich (DOGM)

Inspector's Signature & Number:

Date:

Orville Burton #37
7/31/91