GARY R. HERBERT
Governor
GREG BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Inspection Report

Permit Number:	C0150032
Inspection Type:	COMPLETE
Inspection Date:	Tuesday, June 23, 2020
Start Date/Time:	6/23/2020 2:45:00 PM
End Date/Time:	6/23/2020 4:30:00 PM
Last Inspection:	Tuesday, May 19, 2020

Representatives Present During the Inspection:	
OGM	Justin Eatchel
Company	Karin Madsen

Inspector: Justin Eatchel,
Weather: Sunny, clear. 79F
InspectionID Report Number: 6705
Accepted by:

Permitee: **GENWAL RESOURCES INC**
Operator: **GENWAL RESOURCES INC**
Site: **CRANDALL CANYON MINE**
Address: **PO BOX 910, EAST CARBON UT 84520-0910**
County: **EMERY**
Permit Type: **PERMANENT COAL PROGRAM**
Permit Status: **INACTIVE**

Current Acreages

1,257.75	**Total Permitted**
34.23	**Total Disturbed**
11.89	**Phase I**
	Phase II
	Phase III

Mineral Ownership

- [x] **Federal**
- [ ] **State**
- [ ] **County**
- [ ] **Fee**
- [ ] **Other**

Types of Operations

- [x] **Underground**
- [ ] **Surface**
- [ ] **Loadout**
- [ ] **Processing**
- [ ] **Reprocessing**

Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

The Division met with Karin Madsen on the afternoon of June 23 to conduct a Complete inspection. Overall, the site appeared stable and no structural damage was apparent on FR 0248 in the gabion enforced section adjacent to the sediment pond. Water continues to flow from the sealed portals, and samples were taken from the inlet and outlet of the water treatment pond.

Inspector's Signature: Justin Eatchel

Date Thursday, June 25, 2020

Justin Eatchel,
Inspector ID Number: 73

Note: This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining.

telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

1. *Substantiate the elements on this inspection by checking the appropriate performance standard.*
   a. *For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.*
   b. *For PARTIAL inspections check only the elements evaluated.*
2. *Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.*
3. *Reference any narratives written in conjunction with this inspection at the appropriate performace standard listed below.*
4. *Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.*

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	☑	☐	☑	☐
2. Signs and Markers	☑	☐	☑	☐
3. Topsoil	☑	☐	☑	☐
4.a Hydrologic Balance: Diversions	☑	☐	☑	☐
4.b Hydrologic Balance: Sediment Ponds and Impoundments	☑	☐	☑	☐
4.c Hydrologic Balance: Other Sediment Control Measures	☑	☐	☐	☐
4.d Hydrologic Balance: Water Monitoring	☑	☐	☑	☐
4.e Hydrologic Balance: Effluent Limitations	☐	☐	☐	☐
5. Explosives	☐	☑	☐	☐
6. Disposal of Excess Spoil, Fills, Benches	☐	☑	☐	☐
7. Coal Mine Waste, Refuse Piles, Impoundments	☑	☐	☑	☐
8. Noncoal Waste	☑	☐	☑	☐
9. Protection of Fish, Wildlife and Related Environmental Issues	☑	☐	☐	☐
10. Slides and Other Damage	☑	☐	☑	☐
11. Contemporaneous Reclamation	☑	☐	☑	☐
12. Backfilling And Grading	☐	☑	☐	☐
13. Revegetation	☑	☐	☑	☐
14. Subsidence Control	☑	☐	☑	☐
15. Cessation of Operations	☑	☐	☑	☐
16.a Roads: Construction, Maintenance, Surfacing	☑	☐	☑	☐
16.b Roads: Drainage Controls	☑	☐	☑	☐
17. Other Transportation Facilities	☐	☑	☐	☐
18. Support Facilities, Utility Installations	☑	☐	☐	☐
19. AVS check	☑	☐	☑	☐
20. Air Quality Permit	☑	☐	☑	☐
21. Bonding and Insurance	☑	☐	☑	☐
22. Other	☐	☐	☐	☐

1. Permits, Change, Transfer, Renewal, Sale

The existing DOGM permit was renewed on May 13, 2018, and will expire on May 13, 2023. The current UPDES permit was renewed on January 27, 2018, and will expire at midnight, January 31, 2023. The active Stormwater Pollution Prevention Plan (SWPPP) for this site is up to date.

2. Signs and Markers

The permit identification sign at the entrance contains all of the necessary information. Topsoil signs are posted and visible on all topsoil piles, and disturbed area perimeter signs are in place as mandated by State of Utah regulation R645-301-521.200 through -521.250.

3. Topsoil

Topsoil piles on site are all thickly vegetated with native grasses and shrubs. Topsoil signs are erected on all topsoil piles as per R645-301-521.270.

4.a Hydrologic Balance: Diversions

Most diversions on site appear to be in good condition and are free of debris. The C-6 culvert behind the main office is open and unobstructed, although silt is beginning to build at the inlet and might require removal if it continues to build. Culverts that run beneath FR 0248 appear clear and unobstructed after having been recently cleared out.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

No appearance of instability or other structural weakness were observed at the time of this inspection. The pond is currently impounding a small amount of murky water. The sediment markers are standing and in good condition and sediment levels are several inches beneath the 60% cleanout elevation of 7769.0'. The pond is currently not discharging and appears as though it has not discharged in quite some time.

4.d Hydrologic Balance: Water Monitoring

Water continues to discharge from the mine. Flowrate at the time of inspection = 268gpm. Flocculant and coagulant are not being applied to the mine water at this time. Samples were taken at 002 and pre-002 and delivered to the Utah State Health Laboratory in Taylorsville for processing. Samples were delivered on Wednesday, June 24, the day following this inspection.

7. Coal Mine Waste, Refuse Piles, Impoundments

Several small piles of silt and other debris have been deposited at the base of the coal silo. These piles were placed there last year following cleanup from several large rain events that caused silt to wash down into the mine offices from adjacent burn scarred areas.

8. Noncoal Waste

Aside from the small piles of silt and organic material at the base of the coal silo the site appears clean and free of other non-coal waste.

10. Slides and Other Damage

The rebuilt block wall beside the lower sediment pond appears to be stable and no signs of movement were visible. Gabion baskets appeared stable and in good operating condition.

11. Contemporaneous Reclamation

The Division is currently reviewing Division Order DO19B (Task# 6142) which proposes to update to the reclamation procedures within the Mining and Reclamation plan.

13. Revegetation

The slopes between the main office and culvert C-6 were treated with seed several months ago in March and some grasses and forbes are exhibiting varying degrees of growth along this slope. This area was disturbed with heavy equipment last year when culvert C-6 was cleaned and an earthen berm built to divert burn scar debris flows away from the culvert inlet.

14. Subsidence Control

A differential level subsidence survey was completed by Ware Surveying & Engineering on September 19, 2019. The accompanying report documents the vertical displacement for dozens of points located at various locations above the main mine workings as well as the East Mountain Reclaimed Slide Area. Most of the surveyed locations do not display any movement but a few show evidence of having moved very slightly. The maximum subsidence was 2.28 inches above station 10 within the East Mountain slide area. Several additional points displayed subsidence of 1 - 2 inches. The report states that stations 4 and 5 in the East Mountain Slide Area have been destroyed.

15. Cessation of Operations

The tragic Crandall Canyon Mine disaster that claimed the lives of six miners and three rescuers occurred in August 2007. The mine has been in cessation ever since.

16.a Roads: Construction, Maintenance, Surfacing

Forest road FR 0248 that leads into the site appeared to be in good operating condition. There did not appear to be any cracks or other signs of instability in the vicinity of the slide that occurred in April, 2019.

16.b Roads: Drainage Controls

Undisturbed drainage culverts that conduct runoff beneath FR 0248 were unobstructed and appeared to be in good operating condition.

19. AVS check

An AVS check was ran on Thursday, June 25, and four violations were discovered. All four violations are coded conditional indicating a settlement agreement, payment plan, or pending challenge. Aside from these, there are no outstanding violations.

20. Air Quality Permit

Air quality approval order for permit DAQE - AN0225003-03 was approved and issued on March 20, 2003. It allows for 4,300,000 tons of coal to be stored per rolling 12 month average. This permit has no expiry.

21. Bonding and Insurance

Liability insurance is provided through Lloyd's Underwriters at London. Policy number PC304000O is valid until June 1, 2021. A reclamation bond in the amount of $2,082,910 is currently held through Indemnity National Insurance Co.

ATTACHMENT A – Crandall Canyon Complete Inspection, June 23, 2020

PHOTO 1 – WATER TREATMENT FACILITY
Overlooking the water treatment pond. Water sampling location Pre-002 is from the end of the white PVC left of center.

PHOTO 2 – TREATMENT POND OUTFALL
The water flowing through the trash rack is sampling point for UPDES discharge #002.

PHOTO 3 – WEEPING HIGHWALL
The face of the highwall overlooking the water treatment facility. No recent spalling or sloughing is evident. There appeared to be less seepage than usual.

PHOTO 4 – ARMORED DRAINAGE DITCH
Drainage ditch DD-7 and culvert C-3.

ATTACHMENT A – Crandall Canyon Complete Inspection, June 23, 2020

PHOTO 5 – CRANDALL CREEK
The outfall of the 72” culvert beneath the main site.

PHOTO 6 – LOWER SEDIMENT POND
Looking north. Gabion wall in background.

PHOTO 7 – USFS 0248 REINFORCED SECTION
Blocks and Gabions appear stable.

PHOTO 8 – USFS 0248 REINFORCED SECTION
Close up of repaired section.

ATTACHMENT A – Crandall Canyon Complete Inspection, June 23, 2020

PHOTO 9 – USFS 0248
No sloughing or cracking apparent.

PHOTO 10 – CULVERT C-6
Silt starting to collect at the mouth of the culvert.

PHOTO 11 – TOPSOIL STOCKPILE
This stockpile is located on the south of FR 0248 on the way to the surface facilities. Stockpile is thickly vegetated.

PHOTO 12 – TOPSOIL STOCKPILE
This stockpile is on the north of FR0 248 a few hundred feet from the entrance to the site. Native vegetation is abundant.

ATTACHMENT A – Crandall Canyon Complete Inspection, June 23, 2020

PHOTO 13 – BURMA POND
Pond is completely dry.