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:	PARTIAL
Inspection Date:	Thursday, May 23, 2019
Start Date/Time:	5/23/2019 12:00:00 PM
End Date/Time:	5/23/2019 2:30:00 PM
Last Inspection:	Tuesday, April 16, 2019

Inspector: Justin Eatchel,

Weather: Overcast and lightly snowing, 33F

InspectionID Report Number: 6432

Accepted by:

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

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 to take water samples and assess the status of a slope failure that was discovered during the partial inspection on Tuesday, April 16. Notice of Violation #21216 was issued as a result of this failure, and repairs are currently underway. The slope has not been completely repaired yet, but barricades are in place to divert public access around the damaged area, and no off-site impacts have been produced. SCAMP Construction was on site and engaged in repairs at the time of this inspection.

Inspector's Signature: Justin Eatchel

Justin Eatchel,
Inspector ID Number: 73

Date Tuesday, May 28, 2019

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	☐	☐	☐	☐

4.a Hydrologic Balance: Diversions

The drainage ditch DD-7 adjacent to USFS Road 0248 has been partially dredged and slightly extended to promote adequate drainage. Runoff that would ordinarily be impounded here is now flowing along the drainage ditch beside the USFS road and away from the damaged area.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

Sediment pond 001 is completely thawed and holding a modest amount of water - approximately a third full.

4.d Hydrologic Balance: Water Monitoring

Water flowing from the sealed adits fluctuates according to the barometric pressure. The current low pressure system that is producing rain and snow in this area also promotes higher mine water flow rates. Today's observed flow = 402gpm. The mine water treatment facility is not currently treating the water with flocculant or coagulant.

10. Slides and Other Damage

The outslope failure of USFS Road 0248 has been completely excavated in preparation for extensive repairs. Originally, the Gabion wall that had failed was going to be restored to pre failure specifications, but Gabion baskets could not be acquired sooner than six weeks out so other arrangements were made. The alternate outslope restoration requires a concrete base be poured beneath where the slide occurred, and the backfill installed in lifts. Each lift will be reinforced with steel mesh and concrete blocks instead of Gabion baskets. Culvert C-3 will be reestablished as construction progresses, and the placement of the steel mesh will provide additional drainage channels through the backfill. Once the road and the outslope have been restored, drainage ditch DD-7 will be lined with concrete to ensure that runoff will be promptly conveyed off site and not allowed to impound and saturate the road base. Currently the biggest construction hindrance is the weather since it has either rained or snowed almost daily since construction got underway.

ATTACHMENT A – Crandall Canyon Partial Inspection, May 23, 2019

PHOTO 1 – WATER TREATMENT FACILITY
Karin collecting water from sampling location Pre-002.

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

PHOTO 3 – DRAINAGE DITCH DD-7
This view is looking west – notice the toe of the slope has been cut and pulled back to allow ditch DD-7 to drain during construction.

PHOTO 4 – CRANDALL CREEK
The discharging culvert at center is the 72” bypass that runs beneath the main mine site.

ATTACHMENT A – Crandall Canyon Partial Inspection, May 23, 2019

PHOTO 5 – ROAD REPAIRS
The section of road that failed has been excavated and the backfill set aside until concrete can be poured.

PHOTO 6 – SAFETY BARRIERS
The Jersey barriers have been in place since the failure was discovered last month.

PHOTO 7 – SEDIMENT POND
The sediment pond is currently completely thawed. Gabion basket failure at center.

PHOTO 8 – ROAD REPAIRS
Gabion baskets and other support structures have been excavated and the loose road base dug back.

ATTACHMENT A – Crandall Canyon Partial Inspection, May 23, 2019

	
PHOTO 9 – CONSTRUCTION CREW Heavy machinery mobilized to repair the road failure.	**PHOTO 10 – CONSTRUCTION CREW** This trackhoe is removing steel mesh from the flatbed truck.