



# 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:	Tuesday, July 31, 2018
Start Date/Time:	7/31/2018 1:00:00 PM
End Date/Time:	7/31/2018 3:30:00 PM
Last Inspection:	Wednesday, June 20, 2018

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

Inspector: Justin Eatchel

Weather: Sunny, Hazy, 88F

InspectionID Report Number: 6209

Accepted by: DHADDOCK  
8/7/2018

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	<b>Total Permitted</b>
34.23	<b>Total Disturbed</b>
11.89	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

#### Mineral Ownership

- Federal
- State
- County
- Fee
- Other

#### Types of Operations

- 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 review various issues at the Crandall Canyon mine site. Many of these issues were in response to the Trail Mountain fire - a large forest fire that was started by the USFS earlier this year as a prescribed burn that got out of control. The fire had burned all of the way down to the surface structures, and threatened a topsoil stockpile at the entrance to the site. Fire crews established a fire line behind the main office, and erected a network of sprinklers and rain birds around the site to protect the miner's memorial and other structures from the encroaching flames. The trash racks at the entrance to the two undisturbed culverts were beefed up with 6" welded steel pipes in anticipation of debris flows which may be washed down out of the burned areas.

As a result of the large size of the burn scar at the head of Crandall Canyon, the Crandall Canyon hiking trail has been temporarily closed to all traffic. Additionally, a large diversion structure will be built within the course of the stream channel that flows past the Miner's Memorial. The purpose of the diversion structure is to redirect mudflows around the Miner's Memorial in the event of a catastrophic post-fire flood event. This structure will be 14 feet high, with 5 feet of freeboard extending above the stream bank to the west of the memorial. Engineering is to be completed by Johansen & Tuttle Engineering out of Castle Dale, Utah, and is expected to be funded by the Permittee, Emery County, and the USFS.

Scamp Construction was on site at the time of this inspection, cleaning the freshwater intake tank within the treatment facility, as well as cell #1 within the treatment pond.

Inspector's Signature: \_\_\_\_\_

Justin Eatchel,

Inspector ID Number: 73

Date

Monday, August 6, 2018



**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 performance 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **2. Signs and Markers**

Permit identification sign is readily visible at the entrance to the mine. Topsoil piles are staked and posted with topsoil signs, and signs designating the disturbed area perimeter are in place.

## **3. Topsoil**

The forest fire that burned through Crandall Canyon approached a large topsoil pile on the USFS road, near the junction with State Highway 31. Since the burned area stopped within feet of the topsoil pile, it did not appear that the topsoil pile had been affected by the fire.

### **4.a Hydrologic Balance: Diversions**

The trash racks that are located at the intake of the undisturbed culverts were beefed up in anticipation of a potential debris flow from the burned out areas at the head of Crandall Canyon. The old trash racks were left in place, and newer, larger trash racks were installed over the top of the old ones. The jersey barriers in the Miner's Memorial parking lot to were moved and oriented such that if a large surge of debris overflowed the banks of Crandall Creek that the flow would be directed away from the mine office and other related structures.

### **4.b Hydrologic Balance: Sediment Ponds and Impoundments**

Three new sediment markers were installed in the bottom of the relatively dry sediment pond. The 60% cleanout level on the markers was designated with a nut and/or blue paint.

### **4.d Hydrologic Balance: Water Monitoring**

The flowrate of the water discharging from the mine was 275 gpm, and no treatment was applied to the water. The water is allowed to flow through the treatment pond, although coagulant and flocculant are not being applied. Since the forest fire knocked out power to the treatment plant, the discharging mine water has been treatment free for over a month. Water samples were taken at the intake to the treatment pond, and again at the outfall. At the time of this inspection, Scamp was on site cleaning sludge out of the freshwater intake tank and cell #1 in the pond. Additionally, the entire treatment system had been disassembled and reassembled in order to apply updates and upgrades.

## **10. Slides and Other Damage**

The jersey barriers at the entrance to the sediment pond that had been leaning precariously at a 45 degree angle were recently repaired and reset by Scamp Construction.

**ATTACHMENT A – Photos July 31, 2018 partial inspection**



**PHOTO 1 – CULVERT C-6**

The reinforced trash rack at the intake of culvert C-6 is constructed of welded 6" steel pipes. This is behind the main office.  
July 31, 2018



**PHOTO 2 – CRANDALL CREEK CULVERT**

The trash rack at the intake to the 72" undisturbed Crandall Creek culvert.  
July 31, 2018



**PHOTO 3 – CRANDALL CREEK CULVERT**

This culvert runs under the Memorial walkway and feeds directly into Crandall Creek at the entrance to the main 72" culvert.  
July 31, 2018



**PHOTO 4 – TRAIL CLOSURE**

The Crandall Canyon hiking trail has been temporarily closed to all traffic.  
July 31, 2018

**ATTACHMENT A – Photos July 31, 2018 partial inspection**



**PHOTO 5 – JERSEY DIVERSIONS**

Jersey barriers were reset and oriented such that if Crandall Creek should overflow that flows would be directed away from structures.  
July 31, 2018



**PHOTO 6 – TREATMENT POND INTAKE**

Mine water discharging into the treatment pond.  
July 31, 2018



**PHOTO 7 – TREATMENT POND INTAKE**

Also showing cells #1 and #2.  
July 31, 2018



**PHOTO 8 – TREATMENT POND OUTFALL**

July 31, 2018

**ATTACHMENT A – Photos July 31, 2018 partial inspection**

**PHOTO 9 – SEDIMENT POND**

Mostly dry except for a small puddle in the bottom.  
July 31, 2018


**PHOTO 10 - SEDIMENT MARKER**

60% cleanout level designated with nut and blue paint.  
July 31, 2018


**PHOTO 11 – SEDIMENT MARKER**

60% cleanout level designated with nut and blue paint.  
July 31, 2018


**PHOTO 12 – RESET JERSEY BARRIERS**

These barriers along the sed pond access road used to lean at a precarious 45 degree angle towards Crandall Creek.  
July 31, 2018

## ATTACHMENT A – Photos July 31, 2018 partial inspection



**PHOTO 13 – CHAR FREE TOPSOIL STOCKPILE**

The forest fire stopped just short of this topsoil stockpile. Notice burned bushes and grass on the left.  
July 31, 2018



**PHOTO 14 – ROAD CLOSED**

The Road Closed sign left over from firefighting efforts remains in place.  
July 31, 2018



**PHOTO 15 – MINER'S MEMORIAL**

A robust wall will be built just beyond this memorial in the streambed of Crandall Creek.  
July 31, 2018



**PHOTO 16 – MEMORIAL WALL SITE**

The bottom of the stream channel here is where a wall will be built to protect the memorial from a potential flood surge.  
July 31, 2018

**ATTACHMENT A – Photos July 31, 2018 partial inspection**



**PHOTO 17 – MEMORIAL WALL SITE**

Offset stakes designate the location and cut for the wall footings.  
July 31, 2018



**PHOTO 18 – MEMORIAL WALL SITE**

Offset stakes designate the location and cut for the wall footings.  
July 31, 2018



**PHOTO 19 – CRANDALL CREEK**

Crandall Creek exiting the 72" undisturbed culvert.

July 31, 2018



**PHOTO 20 – CRANDALL CREEK**

Crandall Creek exiting the 72" undisturbed culvert.

July 31, 2018