



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:	C0150009
Inspection Type:	COMPLETE
Inspection Date:	Thursday, March 16, 2017
Start Date/Time:	3/16/2017 10:00:00 AM
End Date/Time:	3/16/2017 12:30:00 PM
Last Inspection:	

Representatives Present During the Inspection:	
OGM	Keenan Storrar
Company	Vicky Miller

Inspector: Keenan Storrar

Weather: Sunny

InspectionID Report Number: 5826

Accepted by: DHADDOCK
4/26/2017

Permittee: **FOSSIL ROCK RESOURCES, LLC**
 Operator: **FOSSIL ROCK RESOURCES, LLC**
 Site: **FOSSIL ROCK MINE**
 Address: **225 North 5th Street, 9th Floor, CO 81501**
 County: **EMERY**
 Permit Type: **PERMANENT COAL PROGRAM**
 Permit Status: **ACTIVE**

Current Acreages

3,564.83	Total Permitted
27.83	Total Disturbed
	Phase I
	Phase II
	Phase III

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 Fossil Rock Waste Rock site was idle at the time of the inspection. Multiple sorted piles of coal and waste rock were placed on the upper lift. The waste rock pond was impounding water.

The main mine site had a couple patches of snow remaining on the parking lot. Snow melt was reporting to the pond.

Inspector's Signature:

Keenan Storrar,
Inspector ID Number: 71

Date: Tuesday, April 25, 2017



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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input checked="" 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Permits, Change, Transfer, Renewal, Sale

No amendments were received or were being processed by the Division at the time of the inspection.

2. Signs and Markers

The waste rock site and the main mine site had correct signage.

3. Topsoil

Topsoil recovery was discussed during the inspection. Topsoil placed on the southern face of the lifts must be recovered prior to re-mining the lift. There appears to be 1 to 1½ feet of topsoil placed on the reclaimed face of the lift (Photos 1 - 5). A pile of recovered topsoil was placed on the southeastern most corner of the lift (Photo 6).

Measures to stabilize the subsoil pile had been implemented since the last inspection. Straw wattles are placed across the top of the subsoil pile and in the gullies (Photos 7, 8). This treatment will help reduce and prevent further erosion of the subsoil pile discussed in prior inspection reports.

4.a Hydrologic Balance: Diversions

Diversions have been adjusted to accommodate the changing shape of the waste rock pile. Ditch DA has been lowered and reformed along its lower end to effectively drain the southwestern edge of the waste rock pile (Photos 9 - 12). The upper end of the ditch transitions to the new lower section through a steeper section of ditch. This transition ramp has been rip-rapped to prevent erosion or downcutting during runoff events (Photos 13, 14).

4.b Hydrologic Balance: Sediment Ponds and Impoundments

The mine site waste rock pond was discharging at the time of the inspection. The discharge was from snow melt runoff. Vicky Miller sampled the discharge for water quality during the inspection (Photos 15, 16).

4.d Hydrologic Balance: Water Monitoring

Water monitoring data has been uploaded to the DOGM water database.

7. Coal Mine Waste, Refuse Piles, Impoundments

Large piles of sorted waste rock are piled across the lift (Photos 17 - 22).

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21. Bonding and Insurance

The mine holds adequate liability insurance with an effective policy period starting on 02/01/2017 and expiring on 02/01/2018.

The mine holds a surety bond in the amount of \$1,154,000 with Ironshore Indemnity Inc.

ATTACHMENT A – Photos March 16, 2017 site visit	
	
<p>PHOTO 1 Topsoil placed on lift during lift construction. March 16, 2017</p>	<p>PHOTO 2 Topsoil placed on lift during lift construction. March 16, 2017</p>
	
<p>PHOTO 3 Outslope face of reclaimed lift covered with topsoil. March 16, 2017</p>	<p>PHOTO 4 Outslope face of reclaimed lift covered with topsoil. March 16, 2017</p>

ATTACHMENT A – Photos March 16, 2017 site visit



PHOTO 5

March 16, 2017



PHOTO 6

Topsoil pile southeast corner of lift.
March 16, 2017



PHOTO 7

Straw wattles placed on subsoil pile.
March 16, 2017



PHOTO 8

Straw wattles placed in gullies of subsoil pile.
March 16, 2017

ATTACHMENT A – Photos March 16, 2017 site visit



PHOTO 9

Lower reformed section of Ditch DA.
March 16, 2017



PHOTO 10

Lower reformed section of Ditch DA.
March 16, 2017



PHOTO 11

Lower end of Ditch DA tying into the rip-rapped drop to the waste rock pond.
March 16, 2017



PHOTO 12

Lower reformed section of Ditch DA.
March 16, 2017

ATTACHMENT A – Photos March 16, 2017 site visit



PHOTO 13
Rip-rapped transition ramp.
March 16, 2017



PHOTO 14
Rip-rapped transition ramp.
March 16, 2017



PHOTO 15
Main mine site pond.
March 16, 2017



PHOTO 16
Main mine site pond outlet discharging.
March 16, 2017

ATTACHMENT A – Photos March 16, 2017 site visit



PHOTO 17
Coal fines pile.
March 16, 2017



PHOTO 18
Lump coal pile.
March 16, 2017



PHOTO 19
Coal fines pile.
March 16, 2017



PHOTO 20
Waste rock piles.
March 16, 2017

ATTACHMENT A – Photos March 16, 2017 site visit



PHOTO 21

Coal and waste rock piles placed on top lift.
March 16, 2017



PHOTO 22

Waste rock placed on top lift.
March 16, 2017