



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:	C0150015
Inspection Type:	PARTIAL
Inspection Date:	Monday, March 06, 2017
Start Date/Time:	3/6/2017 10:30:00 PM
End Date/Time:	3/6/2017 1:30:00 PM
Last Inspection:	Thursday, February 16, 2017

Representatives Present During the Inspection:	
OGM	Priscilla Burton
Company	Seth McCourt
Company	Adrien Childs

Inspector: Priscilla Burton
 Weather: strong West wind, 25 F
 InspectionID Report Number: 5790

Accepted by: DHADDOCK
 3/8/2017

Permittee: **BRONCO UTAH OPERATIONS, LLC**
 Operator: **BRONCO UTAH OPERATIONS, LLC**
 Site: **EMERY DEEP MINE**
 Address: **PO BOX 527, EMERY UT 84522**
 County: **EMERY**
 Permit Type: **PERMANENT COAL PROGRAM**
 Permit Status: **ACTIVE**

Current Acreages	Mineral Ownership	Types of Operations										
<table border="1" style="width: 100%;"><tr><td style="width: 20%;">473.80</td><td>Total Permitted</td></tr><tr><td>85.90</td><td>Total Disturbed</td></tr><tr><td></td><td>Phase I</td></tr><tr><td></td><td>Phase II</td></tr><tr><td></td><td>Phase III</td></tr></table>	473.80	Total Permitted	85.90	Total Disturbed		Phase I		Phase II		Phase III	<input checked="" type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Underground <input type="checkbox"/> Surface <input type="checkbox"/> Loadout <input type="checkbox"/> Processing <input type="checkbox"/> Reprocessing
473.80	Total Permitted											
85.90	Total Disturbed											
	Phase I											
	Phase II											
	Phase III											

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

The access road to the water tank pad is roughed in, but is not at final grade. Topsoil and subsoil has been salvaged from this road and is in place in a windrow. The water tank pad has been roughed in, but is not at final grade. Topsoil surrounds the pad in a windrow. Construction of the access road to the boxcut is in progress. A drill with "John Henry" attachment is drilling into large boulders for blasting. Electricians are working on the crusher facility. I observed the construction from the Emery 2 water tank pad and discussed the progression of construction and soils handling plans with Leland Sasser, Soils Consultant; Shane Campbell, Scamp Excavation, and mine personnel. Appendix VII-5 dated October 2016 provides the operations soils handling plan. An Order 1 soil survey of the canyon was completed in December which provides more detailed information on soil salvage from the canyon than that approved February 8, 2017. It also changes the soils handling operation plan. That information will be provided to the Division promptly and incorporated into the MRP with a C1C2 form.

Inspector's Signature: Priscilla Burton

Digitally signed by Priscilla Burton
 DN: cn=Priscilla Burton, o, ou,
 email=priscillaburton@utah.gov, c=US
 Date: 2017.03.10 13:45:02 -07'00'

Date Tuesday, March 07, 2017

Priscilla Burton,
 Inspector ID Number: 37



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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input 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"/>

1. Permits, Change, Transfer, Renewal, Sale

The permit for Emery 2 mine was issued February 8, 2017 (Outgoing folder 2102017.pdf.) There are four conditions on the permit listed in Attachment A. The fourth is to provide a "clean" revised copy of the MRP within 30 days (March 12th). Appendix VII-5 dated October 2016 provides the operations soils handling plan. However, an Order 1 soil survey of the canyon was completed in December which provides more detailed information on soil salvage from the canyon than that approved February 8, 2017. It also changed the soils handling operation plan. That information will be provided to the Division promptly and incorporated into the MRP with a C1C2 form.

2. Signs and Markers

Topsoil signs on topsoil berms and stockpiles (topsoil and subsoil) were discussed. Topsoil sign on stockpile T2 was replaced with a new sign.

3. Topsoil

Appendix VII-5 Table 20 (page 56) describes the potential for 11,600 cubic yards (CY) of topsoil and 7,992 CY of subsoil salvage from the entire Emery 2 disturbance, for a total of 19,592 CY. This table provides a good summary of where topsoil and subsoil can be salvaged.

Bronco Coal has already completed salvage from the Road and Facilities on Emery Mine and the Road and Facilities on Emery 2 locations. Mollen soil was salvaged along the length of the water tank pad access road (Figure 2 App. VII-5). It is windrowed in a berm on the uphill side of the road. Branf soil salvaged from the pad area is stockpiled in a berm around the edge of the pad. It is protected on the undisturbed side with excelsior logs. Excelsior logs will continue around the topsoil berm on the inside of the disturbed area. The depth to sandstone is quite shallow so that at some locations, the logs cannot be staked, but are weighted down with rocks. Table 20 suggests that 2,381 CY of topsoil and 1,521 CY of subsoil (total 3,902 CY) could be stored in the berms along that road and on the water tank pad. As built information will confirm the final tally.

Topsoil salvage has created an undulating pad that will be brought level with fill. The possibility of consolidating the topsoil berm into a single pile on the pad was discussed as a feasible option. The pile would be kept at a low height with 2h:1v or less slopes and surrounded by excelsior logs. The water tank pad is a very windy location, so low profile is best for this stockpile. If this option is followed, both Plate VI-10E and Plate II-1 will require as-built revision.

Topsoil salvage from the Emery 2 boxcut access road will begin this week, after boulders are removed. Table 9 of the Order 1 Soil Survey of the Canyon Disturbance Area (dated January 18, 2017) states that the canyon area should produce 4,706 CY topsoil and 5,432 CY subsoil (total 10,138 CY). Mr. Sasser will be on site to conduct field sampling of pH and EC to evaluate suitability given the parameters in Table 9. Soils with a pH less than or equal to 8.5 and EC less than or equal to 8.0 dS/m will be salvaged. He will coordinate the topsoil and subsoil salvage following Figure 1 Order 1 Soils Map of the canyon, dated January 18 2017. The data that generated this new map was collected in accordance with the commitment found in the soil testing plan in App. VII-5 p. 58 and Table 22. The data and resulting map must be provided to the Division and incorporated into the MRP with a C1C2 form.

Topsoil will be collected and placed on Topsoil pile T2, shown on Plate II-1. Topsoil pile T2 was observed and photographed. This stockpile pile has been in existence for many years. The current volume of this pile will be surveyed. The vegetation observed on this pile was exclusively low growing shrubs, such as *Atriplex canescens*.

Suitable subsoil is also expected to be salvaged and may be stockpiled at T2 or on the temporary waste rock pad.

Unsuitable topsoil and subsoil will not be salvaged (Canyon Disturbance Area Order 1 Soil Survey, January 18, 2017).

5. Explosives

Blasting of the cliff ledge and smaller blasts of boulders is contracted out to 3 Rivers, Cedar City. A blast of boulders in the canyon was scheduled for later in the day.

13. Revegetation

We reviewed the seed mix found in App. VIII-8, Table A-1 Revegetation Seed Mixture for the Emery 2 Study Area which will be used on the topsoil and subsoil stockpiles.

16.a Roads: Construction, Maintenance, Surfacing

The access road to the water tank pad is roughed in, but is not at final grade. The final configuration will not have two switchbacks as shown on Plate IV-8a. An as-built of the road construction will be submitted.

An excavator outfitted with a "John Henry" drill was drilling boulders at approximately Station 11+00 (shown on Plate IV-8a). The road had been roughed in on the East side of the drainage to this point.

17. Other Transportation Facilities

Bodec Electrical was on site to install the crusher wiring.



Emery 2 Access
Road to water tank

Access to box cut
in drainage

Fill from blasted sandstone ledge





Access from mine

blocked access
from Hwy 10





Blasted ledge

Canyon Disturbance Area



Topsoil pile T2