



State of Utah

DEPARTMENT OF NATURAL RESOURCES

BRIAN STEED
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 8th, 2019

Mr. Byant Bunnell
Fossil Rock Resources, LLC
9815 South Monroe, Suite 203
Sandy, Utah 84070

Subject: WRS As-Built Information, Fossil Rock Resources, Inc., Fossil Rock Mine, C/015/0009, Task ID #5973

Dear Mr. Bunnell:

The Division has reviewed the recently submitted as-built information for the Fossil Rock waste rock site and has recommended conditional approval. Final approval will be granted upon receipt of two clean hard-copies prepared for incorporation into the approved Fossil Rock Mining and Reclamation Plan (MRP). A stamped incorporated copy will be returned to you for insertion into your copy of the MRP.

Please submit the two clean hard-copies and by September 6th, 2019. If you have any questions, please call me at (801) 538-5350.

Sincerely,

A handwritten signature in blue ink, appearing to read "Steve Christensen", is written over a white background.

Steve Christensen
Coal Program Manager

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GARY R. HERBERT
Governor
SPENCER J. COX
Lieutenant Governor

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Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0150009
TaskID: 5973
Mine Name: FOSSIL ROCK MINE
Title: WRS AS-BUILT INFORMATION

Summary

The former Cottonwood Waste Rock site had been in temporary cessation since 2001 (0150009/2014/Incoming/3272015.4699). The waste rock site was transferred from the Cottonwood mine to the Trail Mountain Mine permit in 2015 (0150009/2015/Incoming/05282015.4790). The Trail Mountain Mine transferred ownership to Fossil Rock Resources LLC (Outgoing 0150009/Outgoing/2015/10082015).

Remining of the Fossil Rock site began in 2016. Soils were removed from the face of the contemporaneously reclaimed waste pile and 42,198 Tons of waste were removed from the site in the first quarter of 2016. The site was inactive in 2017. Temporary cessation of the Fossil Rock Waste Rock site was declared October 15, 2018. There was no activity at the site in 2018.

MRP Volume 4 Chapter 2 states a commitment to provide an as-built drawing of the re-mining work, including soil salvage volumes (p. 3 & 4 in Section R645-301-231.100).

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Topsoil and Subsoil

Analysis:

The application meets the requirements of R645-301-231 soil operations plan, because the volume of topsoil/subsoil salvaged during re-mining of the waste rock site was provided as required in Vol. 4, Chapter 2, p. 4.

Soils from the reclaimed outslope of the waste were salvaged prior to re-mining the refuse. There was approximately

0.5 acres of reclaimed refuse outslope. Not all of this area was re-disturbed however. The as built does not indicate the area of re-disturbance but it appears to be approximately 0.05 acres or a single reclamation lift (250 ft long X 10 foot outslope) as shown on the map in Chapter 2 Appendix D.

During soil salvage, fragments of coal were unavoidably mixed with the salvaged soils, consequently the mixture was deemed subsoil rather than topsoil. The as-built states that 680 CY of soil were salvaged and shows placement of the salvaged soil on the existing subsoil stockpile.

Sediment control logs were installed around the newly placed subsoil in the summer of 2019. Fertilizer/mulch and seeding will take place in the Fall 2019. Interim reclamation of the salvaged soil piles and cut slopes is described in Chap. 3, p.8 - 11. The seed mix is described in Table 300-5 on p. 10. Fertilizer ammonium nitrate 50 lbs/ac and triple superphosphate (75 lbs/acre) will be applied. Either an erosion control blanket or 2 tons/acre hay mulch will be applied (p. 11). There is a criteria stated for interim revegetation success which is 60% ground cover, to be determined during spring and fall inspections.

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