



State of Utah

DEPARTMENT OF NATURAL RESOURCES

BRIAN STEED
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

September 26th, 2019

Kirk Tatton, General Manager
Canyon Fuel Company, LLC
P.O. Box 1029
Wellington, Utah 84542

Subject: Conditional Approval Removal of Water Monitoring Sites, Canyon Fuel Company, LLC, Dugout Canyon Mine, C/007/0039, Task ID #5984

Dear Mr. Tatton:

The Division has reviewed the proposed reduction in water monitoring at the Dugout Canyon Mine and has recommended conditional approval. Final approval will be granted upon receipt of two clean hard-copies prepared for incorporation into the approved Dugout Canyon Mine 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 October 25th, 2019. If you have any questions, please call me at (801) 538-5350.

Sincerely,

Steve Christensen
Coal Program Manager

SKC

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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: C0070039
TaskID: 5984
Mine Name: DUGOUT CANYON MINE
Title: REMOVAL OF WATER MONITORING SITES

Summary

This is a response to deficiencies from Task ID 5928 regarding the removal of several water monitoring sites.

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General Contents

Permit Application Format and Contents

Analysis:

The application meets the State of Utah R645 requirements for Permit Application Format and Contents.
The Permittee corrected the information that had not been previously submitted in redline/strikeout format.

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Operation Plan

Hydrologic Ground Water Monitoring

Analysis:

The application meets the State of Utah R645 requirements for Groundwater Monitoring.

The Permittee has designated the following springs to be discontinued from their monitoring program: 321, 324, 259A, 203, SC-116, SC-65, and SC-100. To justify the removal of these sites from the monitoring program a description of the nearest mining was provided in addition to Appendix 7-14, which provides a report and analysis of data collected at each of these sites. Of the springs proposed for discontinued monitoring, only springs SC-116 and 260 have been mined beneath. SC-116 was longwall mined beneath in 2008 and has been monitored from 1998 through 2019. Spring 260 lies over an underground mine entry with an unmined coal pillar of approximately 670 feet in width between the spring and the closest mined longwall panel to the south. The other 5 springs are outside of lease areas and are not planned to be mined under or near.

Graphs and flow data were provided in Appendix 7-14 as part of this amendment to support the conclusion that these springs were not impacted by mining activities.

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Hydro Surface Water Monitoring

Analysis:

The application meets the State of Utah R645 requirements for Surface Water Monitoring.

Table 7-5 of the MRP was updated to discontinue the monitoring at stream locations PC-1A and RC-1. Appendix 7-14 gives monitoring data analysis of the two sites. PC-1A is located on Pace Creek upstream of mining activity. Mining has not occurred upstream of or beneath site PC-1A and flows have been monitored at the site quarterly since 1999. RC-1 is located downstream of any planned mining activities. The creek on flows during snow melt of heavy rain. Rock Creek has never been subsided.

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Maps Monitoring and Sampling Locations

Analysis:

The application meets the R645 requirement for Maps Monitoring and Sampling Locations.

Plate 7-1 of the MRP was updated to reflect the proposed changes to the groundwater and surface water monitoring sites. The map appears to have been updated correctly and corresponds with monitoring plan in Chapter 7 of the MRP.

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