



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 13, 2017

Corey Heaps, Mine Manager  
Canyon Fuel Company, LLC  
HC 35 Box 380  
Helper, Utah 84526

Subject: 1 East Panel, Canyon Fuel Company, LLC, Skyline Mine, C/007/0005, Task #5462

Dear Mr. Heaps:

The Division has reviewed your application. The Division has identified deficiencies that must be addressed before final approval can be granted. The deficiencies are listed as an attachment to this letter.

The deficiencies authors are identified so that your staff can communicate directly with that individual should questions arise. The plans as submitted are denied. Please resubmit the entire application.

If you have any questions, please call me at (801) 538-5325.

Sincerely,

Daron R. Haddock  
Coal Program Manager

DRH/sqs  
O:\007005.SKY\WG5462 EAST PANEL\Deficiencies.doc



GARY R. HERBERT  
Governor  
GREG BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Technical Analysis and Findings

### Utah Coal Regulatory Program

**PID:** C0070005  
**TaskID:** 5462  
**Mine Name:** SKYLINE MINE  
**Title:** 1 EAST PANEL

### General Contents

#### Right of Entry

##### Analysis:

The revised map meets the requirements of Right of Entry, R645-301-114. The map adds 2018 mining of Winter Quarters panel 1E in Section Sec 1 R6E, T13S, within an existing Carbon County lease. It removes the 2018 mining of 16R panel from existing Winter Quarters lease UTU-67939-1 in Section Sec 25, R6E, T12S. The map shows completion of the underground access to the Swen 39 Canyon facility in existing lease U-044076. The map modifies the timing of projected future mining.

pburton

#### Maps and Plans

##### Analysis:

This application does not meet the requirements of R645-301-141, Maps and Plans, because the separation of Township 12, 13 and 14 must be shown on the map (just as the separation between Range 6 and 7 East is shown). Map 3.3-2, Lower O 39 Connor A Flat Canyon Lower O 39 Connor B Five Year Projected Mine Map, shows the lease areas and projected mining through 2021.

##### Deficiencies Details:

The application does not meet the requirements of R645-301-141, Maps and Plans. The following deficiency must be addressed prior to final approval:

R645-301-141, The separation of Township 12, 13 and 14 must be shown on the map (just as the separation between Range 6 and 7 East is shown).

pburton

### Environmental Resource Information

#### Historic and Archeological Resource Information

##### Analysis:

The MRP does not meet the State of Utah R645 requirements for Historic and Archeological Information at R645-301-411. The following deficiency must be addressed prior to final approval: Personal conversation with Charmane Thompson (Archaeologist for the Manti La-Sal National Forest) dated July 5, 2017 noted that an archaeological survey for the area above the first East panel had been recently completed. The report needs to be

submitted to the Division for concurrence with the SHPO.

*Deficiencies Details:*

The MRP does not meet the State of Utah R645 requirements for Historic and Archaeological Information at R645-301-411. The following deficiency must be addressed prior to final approval: Personal conversation with Charmane Thompson (Archaeologist for the Manti La-Sal National Forest) dated July 5, 2017 noted that an archaeological survey for the area above the first East panel had been recently completed. The report needs to be submitted to the Division for concurrence with the SHPO.

jhelfric

## **Fish and Wildlife Resource Information**

*Analysis:*

*Deficiencies Details:*

The MRP does not meet the State of Utah R645 requirements for Fish and Wildlife Resource Information Information at R645-301-322. The following deficiency must be addressed prior to approval:

"E" mail from Gregg Galecki noted that a second or more recent raptor survey was being conducted and that the previous survey did not indicate there were any nests in the area. The results of the survey need to be submitted to the Division.

jhelfric

## **Operation Plan**

### **Hydrologic General**

*Analysis:*

The application meets the State of Utah R645 requirements for Hydrologic General.

The Permittee proposes to cancel plans to mine panel 16L due to geologic conditions. As mining is not planned, there are no expected hydrologic impacts in this section.

In addition, the Permittee proposes to reorient the 1 East Panel and extend further eastward in lieu of southern extension. The Permittee will still undermine an intermittent tributary to Winter Quarters Canyon, a perennial stream. The portion to be undermined has largely stayed equivalent to the original mine plan. However, in the new plan, a small portion of the headwaters will not be undermined, with the entire portion downstream ahead of the entries to be undermined. In the original proposal, the headwaters were to be undermined and a small portion of the stream ahead of the entries was not to be undermined. These changes are not expected to have additional hydrologic impacts in excess of what has already been discussed in the PHC.

The intermittent tributary that is proposed to be undermined has a water right, as indicated on Plate 2.3.5.1-1. Overburden in this area ranges from 400 to 800 feet (Plate 2.2.7-2). The surficial geology is the Blackhawk Formation which generally consists of localized perched aquifers and the regional Star point aquifer potentiometric surface at 7900 feet (Plate 2.3.4-2), with surface elevation between 8800 and 8300 feet. A monitoring well exists for the Starpoint (8-1-5) in proximity to the tributary to be undermined, and a stream monitoring location exists both upstream (CS-20) and downstream (CS-26) on the Winter Quarters Canyon stream, with a quarterly (2nd, 3rd, 4th) monitoring commitment at all sites (Plate 2.3.6-1). The area does not intersect any faults as indicated by Plate 2.2.1-1.

aumarva

### **Hydrologic Ground Water Monitoring**

*Analysis:*

The amendment meets the State of Utah R645 requirements for Hydrologic Ground Water Monitoring.

The Permittee provides sufficient groundwater monitoring with a well located in the Star Point Sandstone regional

aquifer. The well, 8-1-5, is located in close proximity to the 1 East Panel. The well is scheduled to be monitored during the 2nd, 3rd, and 4th quarter for water level.

aumarva

## Hydro Surface Water Monitoring

### *Analysis:*

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

The Permittee provides sufficient surface water monitoring with two monitoring locations, one located upstream (CS-20), and one located downstream (CS-26) on the Winters Quarters Canyon perennial stream. The 1 East Panel reorientation plans to undermine an intermittent tributary. The monitoring locations will be analyzed for Lab and Field parameters during the 2nd, 3rd and 4th quarters.

aumarva

## Maps Mine Workings

### *Analysis:*

The amendment meets the State of Utah R645 requirements for Mine Workings Maps.

DWG 3.3-2 was updated to illustrate the reconfiguration of the longwall panel parallel to East Mains. Projected mining dates were also added to the map along with a narrative stating that the 16-Right panel would not be mined due to geologic conditions.

jeatchel