

September 17, 2019

Permit Supervisor  
Utah Coal Regulatory Program  
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, UT 84114-5801

Re: Clean Copies of Revision to M&RP to Add Longwall Mining of the Pines East Panels, Task ID#5981,  
Canyon Fuel Company, LLC, Sufco Mine, C/041/002

Dear Sirs:

Please find enclosed with this letter two clean copies of an amendment to address the "longwall mining" of coal panels in the eastern region of the Pines Lease Tract (UTU-76195). The amendment for the proposed underground first-mining was previously submitted and approved.

If you have questions or need addition information, please contact Vicky Miller at (435)286-4481.

CANYON FUEL COMPANY  
SUFSCO Mine

  
for

Jacob Smith  
Engineering Manager

Encl.

cc: DOGM Correspondence File

RECEIVED

SEP 23 2019

DIV OF OIL, GAS & MINING

# APPLICATION FOR COAL PERMIT PROCESSING

Permit Change  New Permit  Renewal  Exploration  Bond Release  Transfer

**Permittee:** Canyon Fuel Company, LLC

**Mine:** Sufco Mine

**Permit Number:** C/041/002

**Title:** Clean Copies of Revision to M&RP to Add Longwall Mining of Pines East Panels, Task ID# 5981

**Description,** Include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- Yes  No 1. Change in the size of the Permit Area? Acres: \_\_\_\_\_ Disturbed Area: \_\_\_\_\_  increase  decrease.
- Yes  No 2. Is the application submitted as a result of a Division Order? DO# \_\_\_\_\_
- Yes  No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes  No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes  No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes  No 6. Does the application require or include public notice publication?
- Yes  No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes  No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes  No 9. Is the application submitted as a result of a Violation? NOV # \_\_\_\_\_
- Yes  No 10. Is the application submitted as a result of other laws or regulations or policies?  
*Explain:* \_\_\_\_\_
- Yes  No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes  No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes  No 13. Does the application require or include collection and reporting of any baseline information?
- Yes  No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes  No 15. Does the application require or include soil removal, storage or placement?
- Yes  No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes  No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes  No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes  No 19. Does the application require or include certified designs, maps or calculation?
- Yes  No 20. Does the application require or include subsidence control or monitoring?
- Yes  No 21. Have reclamation costs for bonding been provided?
- Yes  No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes  No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

**Please attach one (1) review copy of the application.**

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

John Byars  
Print Name

*[Signature]*

General Manager, 9/17/2019  
Sign Name, Position, Date

Subscribed and sworn to before me this 17<sup>th</sup> day of September, 2019

Jill White  
Notary Public

My commission Expires: 3/28, 2020  
Attest: State of Utah } ss:  
County of Sevier



<b>For Office Use Only:</b>	<b>Assigned Tracking Number:</b>	<b>Received by Oil, Gas &amp; Mining</b>  <span style="color: blue; font-size: 1.2em;">RECEIVED</span>  <span style="color: red; font-size: 1.2em;">SEP 23 2019</span>  <span style="color: blue; font-size: 1.2em;">DIV OF OIL, GAS &amp; MINING</span>
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## **CHAPTER 4**

### **LAND USE AND AIR QUALITY**

The monitoring, treatment plans and mitigation of the cultural resource sites will be in accordance with the Memorandum of Agreement (MOA) 00-MU-11041000-017, and any amendment to it, between the USFS - Manti-La Sal, USHPO, the Advisory Council on Historic Places, UDOG, and the SUFCA Mine located in Appendix 4-5.

Sufco intends to undermine portions of the East Fork of Box Canyon beginning in the Fall of 2003 as they extract coal from the 3LPE and 4LPE longwall panels. This change in the mining plan will change the required monitoring schedule in accordance with the Memorandum of Agreement for site 42SV2430/ML-3446 - Elusive Peacock which will be undermined under the 3LPE longwall panel. In accordance with pages 11-12 of the MOA the required monitoring schedule of this site will change from Monitor Schedule A (Sites in areas that will be mined using full-support methods) to Monitor Schedule B (Sites in areas which will be mined under and subsided) requiring the implementation of additional monitoring of the site. Monitoring results will be provided in DOGM Annual Reports. (2003, 2004, 2005, 2006, and indefinitely until movement ceases)

Historic properties documented in the Pines Tract area include 42SV2424, a sawmill, and site 42SV2391 a complex of trash scatters. Both sites are considered ineligible for the NRHP.

The Applicant agrees, however, to notify the regulatory authority and the Utah State Historical Preservation Office (SHPO) of previously unidentified cultural resources discovered in the course of mining operations. The Applicant also agrees to have any such cultural resources evaluated in terms of National Register of Historic Places eligibility criteria.

**Pines East Panels** - The area has been previously subject to many cultural resource inventories. Sites recorded within the search area are documented in inventories of the Pines Area located in Confidential-Appendix 4-2 (AERC, Pines Locality, 11/2/1997). SHPO clearance for the Pines East Panels is being sought in 2018/2019 following a review by the USFS and DOGM, see Appendix 4-2 for documentation of the clearance. During an inventory in 2019, a sparse prehistoric lithic scatter (42SV3888) was located on the rim of the plateau. The integrity of the site is considered low to non-existent and is not eligible per SHPO for inclusion on the NRHP (Appendix 4-2). Site 42SV2426 is the only prehistoric site in the immediate area of the panels and is considered insignificant. Site 42SV2426 consists of a lithic scatter of debitage (flakes, scraper, a projectile point fragment) on the rim of the Wasatch Plateau. As expected the artifacts scatter as encountered was isolated, sparse and of low complexity. In 2018 portions of Sections 13, 24 and 25 of T21S, R5E (Figure 2) were inventoried in association with an exploration drilling project, no artifacts or cultural resources were encountered. The inventory report has been incorporated into Appendix 4-2 (Tetra Tech July 2018).

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#### **Muddy Creek Coal Tract Area**

**Cultural and Historic Information.** Cultural resource information and maps identifying cultural and historical study areas are located in Appendix 4-2. Cirrus Ecological Solutions, LC conducted



**CHAPTER 5**

**ENGINEERING**

Upper Hiawatha coal seam. Overburden ranges approximately from 300-900 feet. The projected subsidence across the 4R4E panel ranges from 1 -5 feet and the projected average subsidence is approximately 2 feet. See the 4R4E Projected Subsidence Map in Appendix 6-4. No surface disturbance, new surface facilities or infrastructure will be associated with the mining of the 4R4E panel therefore no bonding will be needed.

### **Pines East Panel(s)**

Mining of these panels will occur in Lease UTU-76195 which is referred to as the Pines Tract throughout the M&RP in text, appendices and on drawings. This lease was issued to the permittee in October 1999 (Appendix 1-2), portions of the lease were relinquished in 2016 (Appendix 1-1). See Plate 5-6 and Plate 5-7 for the mine plan and respective timing. Mining will occur only in the Upper Hiawatha coal seam. Overburden ranges approximately from 750-1000 feet. The projected subsidence across the panels is 5 feet or less. Subsidence control points have been previously established near the panels (Table 5-2). No surface disturbance, new surface facilities or infrastructure will be associated with the mining of the panels.

#### **5.2.5.1 Subsidence Control Plan**

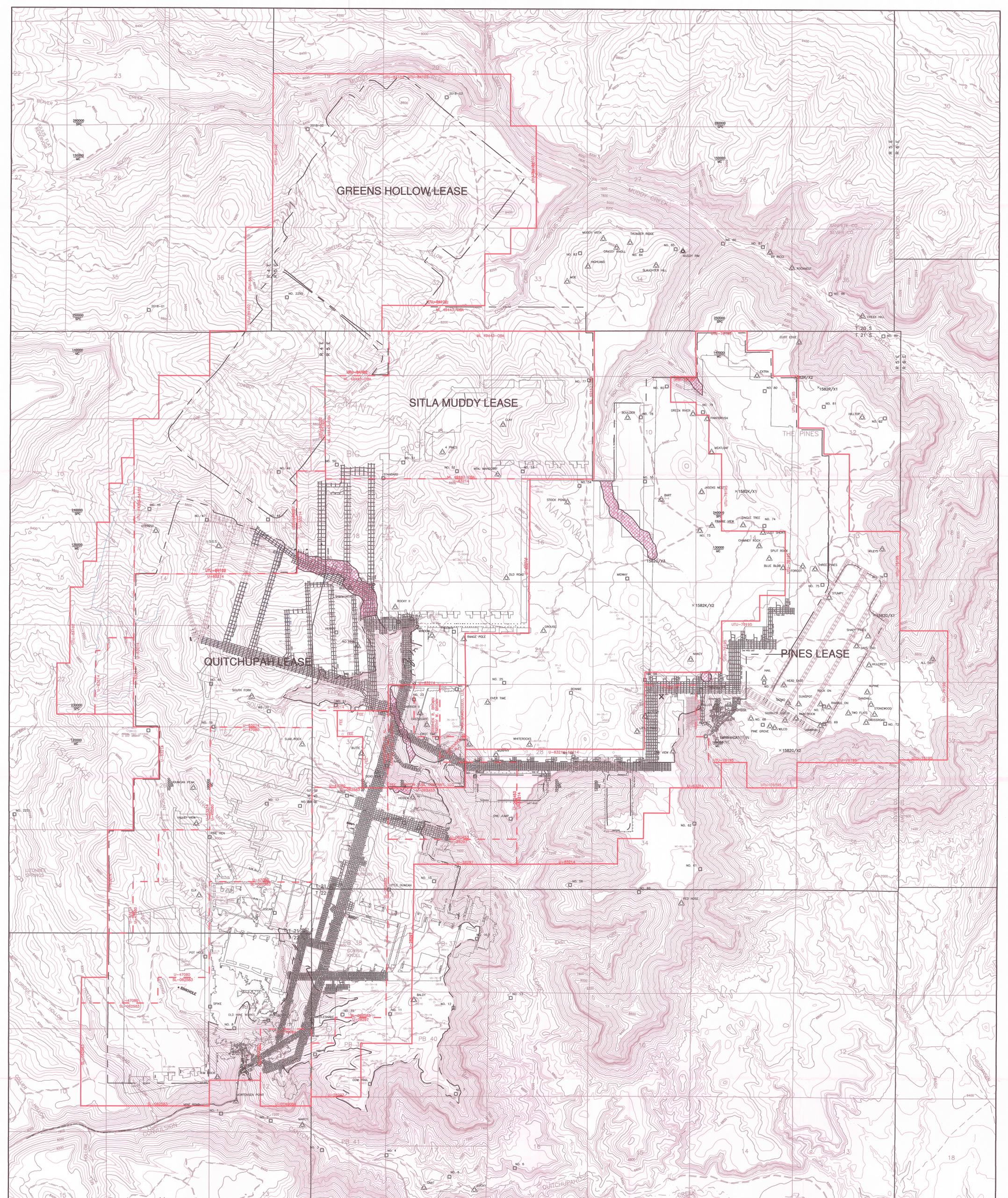
**Potential Areas of Subsidence.** Structures that are present above the existing or planned mine workings that may be affected by mining are shown on Plate 5-5. Renewable resource lands within the lease and permit areas are shown on Plates 4-1 A, B, C, 5-10C, 7-2 and 7-3. Two subsidence monitoring locations were added in 2017, one west of the Greens Hollow lease(#2251), the second is within the Greens Hollow lease (#2250), additional subsidence monitoring locations will be added as mining progresses to the north.

**Green Hollow.** Various information for the Greens Hollow Lease is located in Appendix 7-27 and the renewable resource lands plates listed above. The Greens Hollow area contains troughs, stock and natural ponds which may be affected by subsidence. They are shown on drawing in this appendix under divider "Natural and Stock Ponds" The area of the Greens Hollow lease is not known to contain non-commercial buildings; public buildings and facilities; churches; schools; hospitals; occupied residential dwellings or related structures. The Rough Brothers cabin the only one known of in the area was demolished in 2016 according the USFS personnel owners of the cabin. See "Subsidence Control Measures" for repair and protection commitments and "Subsidence Monitoring" commitments below in this section.

State appropriated water supply locations within the Greens Hollow Lease and adjacent area are shown on the Water Rights Plate 7-2. The water rights information is provided in Appendix 7-1.

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GREENS HOLLOW LEASE

SITLA MUDDY LEASE

QUITCHUPE LEASE

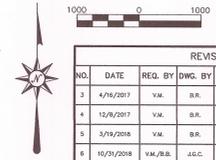
PINES LEASE

EXPLANATION

- SUFCO EXTERIOR LEASE BOUNDARY
- - - SUFCO INTERIOR LEASE BOUNDARY
- MINE COORDINATES
- STATE PLANE COORDINATES
- △ CONTROL POINT
- AERIAL TARGET
- - - LIMIT OF POTENTIAL SUBSIDENCE
- ▨ UNDERGROUND PERENNIAL STREAM AND PROTECTED CULTURAL SITE BUFFER CORRIDOR



I CERTIFY THE ITEMS SHOWN ON THIS DRAWING ARE ACCURATE TO THE BEST OF MY KNOWLEDGE



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Div. of Oil, Gas & Mining

REVISIONS				
NO.	DATE	REQ. BY	DRG. BY	REMARKS
3	4/7/2017	VM	B.R.	GREENS HOLLOW
4	12/8/2017	VM	B.R.	ADD 3RD & 4TH
5	3/15/2018	VM	B.R.	GREENS HOLLOW TECHNICAL ANALYSIS
6	10/21/2018	VM/B.R.	J.G.C.	SUB LIMITS FOR PINES EAST & SOUTH FORK
7	1/15/2019	VM	J.G.C.	REVISED SUB LIMITS FOR PINES EAST
8	8/7/2019	VM	J.G.C.	ADDED ARCH SITE

**Canyon Fuel Company, LLC**  
**SUFCA Mine**  
 597 South SR 24 - Safford, UT 84654  
 (435) 286-4580 Phone  
 (435) 286-4499 Fax

**POTENTIAL SUBSIDENCE LIMITS**

SCALE: 1" = 1000'  
 DATE: 08/13/09  
 DRAWN BY: JMB  
 ENGINEER: [Signature]  
 SHEET NO.: [Blank]  
 FILE NAME: H:\DRAWINGS\MPR\PLATES\PLATE 5-10.dwg  
 CHECKED BY: WKS

PLATE 5-10