

May 3, 2018

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: Extension of Concrete at 4th East Fan- Amendment, Canyon Fuel Company, LLC, Sufco Mine, Permit Number C/041/0002

Dear Sirs:

Please find enclosed with this letter a copy of an amendment to the Sufco Mine Permit to provide revisions to the reclamation bond to accommodate the concrete extension of the 4th East Fan foundation pad. In addition to the bond revision, a drawing of the extension (highlighted) is included. Table 5-4 has been revised to include the date for the construction of the concrete extension.

We appreciate your cooperation in completing the review and final approval of this project. If you have questions or need additional information please contact Vicky Miller at (435)286-4481.

CANYON FUEL COMPANY
SUFSCO Mine



Jacob Smith
Technical Services Manager

Encl.

cc: DOGM Correspondence File

RECEIVED

MAY 04 2018

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/041/0002

Title: Amendment to MRP to Address the Extension of the Concrete at the 4th East Fan

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 four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you. (These numbers include a copy for the Price Field Office)

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.

Jacob D. Smith
Print Name

JOB #15, Engr Mgr, 5/3/18
Sign Name, Position, Date

Subscribed and sworn to before me this 3 day of May, 2018

Jacquelyn Nebeker
Notary Public

My commission Expires: _____, 20____ }
Attest: State of _____ } ss:
County of _____



JACQUELYN NEBEKER
Notary Public
State of Utah
My Commission Expires 03/24/2019
COMMISSION NUMBER 681827

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CHAPTER 5

ENGINEERING

TABLE 5-4 (Continued)
 Description of Existing Structures

Structure	Construction Date	Construction Materials
Tipple Office Building	Fall 1977	Concrete Block
Transfer Building	Fall 1977	Structural Steel
Truck Loader Bin	Fall 2002	Structural Steel
Truck Scale	1975 / 1982 / 1996	Structural Steel
Warehouse and Shop	Summer 1976	Pre-Engineered Steel
Warehouse Annex	Spring 2014	Pre-Engineered Steel
Water Tanks - Lower	Summer 1975/Summer 2002	Steel & Plastic
Water Tank - Upper	Summer 1975	Steel
Link Canyon Facilities		
Link Canyon Portals	Spring 2003	Steel
Link Canyon Substation	Summer 2000	Steel Skid
Four East Facilities		
Fan Generator Building	Fall 2003	Pre-Engineered Steel
4 East Fan	Spring 1996, Spring 2018*	Structural Steel

* Concrete foundation extension (Drawing located in Appendix 5-9)

The sedimentation ponds and appurtenant structures have been constructed as discussed in Chapter 7 and are used and maintained as discussed in Section 5.3.3.7. Sanitary sewage is routed by gravity through a pipeline from the mine surface facility to the leach field at the location in Convulsion Canyon shown on Plate 5-2B. The sewage facilities were designed for a projected total employment of 300 to 330 persons. A special-use permit has been obtained from the U.S. Forest Service and an operational permit has been obtained from the Utah Department of Health for use of the leach field. Copies of these permits are provided in Appendix 5-6.

APPENDIX 5-9

Reclamation Bond Estimate

Direct Costs

Subtotal Demolition and Removal	\$1,735,252	
Subtotal Backfilling and Grading	\$1,511,267	
Subtotal Revegetation	\$165,427	
Direct Costs	\$3,411,946	<i>2014 Dollars</i>

Indirect Costs

Mob/Demob	\$341,195	10.0%
Contingency	\$170,597	5.0%
Engineering Redesign	\$85,299	2.5%
Main Office Expense	\$232,012	6.8%
Project Maignement Fee	\$85,299	2.5%
Subtotal Indirect Costs	\$914,402	26.8%

Total Cost	\$4,326,348.00	<i>2014 Dollars</i>
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<i>Escalation factor for 2014</i>	<i>0.019</i>
<i>Number of years to next midterm</i>	<i>5</i>
<i>Escalation Amount</i>	<i>\$354,219.00</i>
<i>Reclamation Cost Escalated</i>	<i>\$ 4,680,567 2019 Dollars</i>

Bond Amount (rounded to nearest \$1,000) 2019 Dollars	\$4,681,000.00
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Posted Bond 2017 \$4,680,000.00

Difference Between Cost Estimate and Bond
Percent Difference

Item	Description	Materials	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Unit	Cost 2014 Dollars
Main Facilities																	
2	Ambulance Garage																\$3,483.00
3	Annex Building																\$32,463.00
4	Blast Channels A																\$152,004.00
5	Blast Channels B																\$56,770.00
6	Bulk and Used Oil Storage																\$3,372.00
7	Cap Magazine																\$760.00
8	Chlorinator Bld																\$785.00
9	Diesel Tank - 16,900 Gal																\$2,938.00
10	Drainage Culverts																\$31,195.00
11	Electrical Bld																\$1,176.00
12	Fan																\$7,063.00
13	Fire Water Tank 300,000 Gal																\$15,841.00
14	Fuel Dock																\$1,420.00
15	Guard House																\$535.00
16	Loadout Belt																\$4,209.00
17	Lower Stacker Coal Storage																\$3,498.00
18	Lump Coal Belt																\$1,545.00
19	Lump Coal Storage																\$2,337.00
20	Mine 1 Pad																\$18,588.00
21	No 1 Belt																\$4,760.00
22	Office Building																\$113,323.00
23	Pavement Removal																\$183,257.00
24	Powder Magazine																\$790.00
25	Pump Houses																\$1,906.00
26	Riprap Filter Fabric																\$356,602.00
27	Rock Dust Bin																\$4,852.00
28	ROM Coal Storage																\$1,457.00
29	ROM MCC Bld																\$115,388.00
30	Sampler Building																\$1,851.00
31	Sand and Salt Storage																\$3,167.00
32	Seal Portals																\$69,600.00
33	Sediment Trap																\$2,358.00
34	Septic Tanks																\$12,234.00
35	Shelves																\$5,696.00
36	Shop and Warehouse																\$109,669.00
37	Shop Garage																\$16,117.00
38	Shop Office																\$3,166.00
39	Side Release Tank																\$1,857.00
40	Steam Cleaner Building																\$10,744.00
41	Stoker Belt																\$2,009.00
42	Stoker Bin																\$11,600.00
43	Stoker Coal Storage																\$3,411.00
44	Stoker Oil Tanks																\$4,866.00
45	Storage Trailers																\$2,142.00
46	Substation Lower*																\$75,387.00
47	Ticket Printers																\$862.00
48	Tipple Building																\$77,804.00
49	Tipple MCC Building																\$5,652.00
50	Tipple Office Building																\$4,371.00
51	Trash Pit																\$822.00
52	Transfer Building																\$14,034.00
53	Truck Loader Bin																\$3,037.00
54	Truck Scale																\$49,354.00
55	Water Tank Lower																\$1,050.00
56	Water Tank Upper																\$1,050.00
57	West Lease Tunnels																\$45,811.00
58	Yard Hoist																\$1,630.00
Link Canyon Facilities																	
60	Link Canyon Portals																\$366.00
61	Link Canyon Substation																\$24,055.00
Fourth East Facilities																	
63	Fan Generator Building																\$4,007.00
64	Four East Fan																\$22,905.00
Mitigation																	
66	Northwater Mitigation																\$18,217.00
Total																	\$1,735,252.00

Ref.	Description	Materials	Material Reference Number	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Four East Fan																		
	Structure's Demolition Cost	Fan Removal	SUF002	7000 IEA										1 EA	CY		1 EA		7000
	Structure's Vol. Demolished	Seal Portals	AML1	5200 EA.										2 EA	CY		2 EA		10400
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Transportation Cost Steel Truck & Driver	Nelson Construction, 12 CY dump truck	Truck and driver	760 day															760
	Subtotal																		18160
	Equipment's Disposal Cost																		
	Dismantling Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition	Foundations <15"	Nelson 14	13.75 CY						36									485
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 JCY															78
	Transportation Cost	F.E loader 80HP 50' haul	31 23 23 14 2000	1.2 LCY															56
	Disposal Costs	On site disposal	02 41 16 17 4200	6.65 JCY															407
	Subtotal																		1036
	Concrete Demolition	Backfill Trench Min haul 2 1/4 CY	31 23 16 13 3080	1.77 CY						150									266
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		266
	Concrete Demolition	Foundations <15"	Nelson 14	13.75 CY						115									1581
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 JCY															251
	Transportation Cost	F.E loader 80HP 50' haul	31 23 23 14 2000	1.2 LCY															180
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 JCY															1298
	Subtotal																		3576
	Total																		22905

Assumptions

6 inch thick concrete slab with no rebar

