

May 29, 2013

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

Re: Sediment Overflow Pond As-Built Drawings, Canyon Fuel Company, LLC, Sufco Mine, Permit  
Number C/041/0002

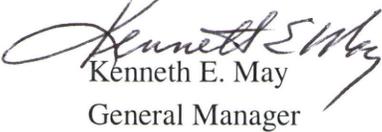
Dear Permit Supervisor:

Please find enclosed with this letter a Sufco Mine permit revision amendment to update the existing Sediment Overflow Pond expansion as-built drawings. We have included three copies of the as-built modified text and plates in redline/strike-through format along with completed C1 and C2 forms.

Two clean copies of the pages with modifications have also been included with this submittal for inclusion in the permit once the modification is approved.

If you have any questions regarding the information contained in this letter or within the permit modification, please give Mike Davis a call at (435) 286-4421.

Sincerely,  
CANYON FUEL COMPANY, LLC  
SUFCO Mine

  
Kenneth E. May  
General Manager

Encl.

cc: DOGM Correspondence File

Sufpub\GOVT2013\DOGM MRP\Sed Overflow Pond As-Built ltr.doc

RECEIVED  
JUN 03 2013  
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:** Sediment Overflow Pond As-Built Drawings

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

**Sediment Overflow Pond As-Built Drawings.**

**Instructions:** If you answer yes to any of the first eight 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?
- Yes  No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

**Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) 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.

KENNETH E. MAY

GENERAL MANAGER

5/30/13

*Kenneth E. May*  
Signature (Right-click above choose certify then have notary sign below)

Print Name

Position

Date

Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 30 day of May, 2013

Notary Public: *Jacquelyn Nebeker*, state of Utah.

My commission Expires: \_\_\_\_\_

Commission Number: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

} ss:



**JACQUELYN NEBEKER**

**Notary Public  
State Of Utah**

**My Commission Expires 3/24/2015  
Commission# 606049**

**For Office Use Only:**

**Assigned Tracking  
Number:**

**Received by Oil, Gas & Mining**

RECEIVED

JUN 03 2013

DIV. OF OIL, GAS & MINING



0.167 ft X 49,950 sq ft = 8,342 cu ft (~309 cy) horizon A

0.833 ft X 49,950 sq ft = 41,608 cu ft (~1,541 cy) horizon B

Total 309 cy + 1,541 cy = 1,850 cy

A site specific soil survey will be completed for the Overflow Pond prior to disturbance and this information will be utilized in determining topsoil salvage depth. ~~Actual volume of topsoil will be reported with the overflow pond as-built addendum.~~ During topsoil removal observations and measurements in the field will be conducted by the site construction supervisor or a trained representative. **Actual volume of topsoil removed and stockpiled for the Overflow Pond was 1,488 cubic yards.**

During the topsoil removal operation for the temporary access road for the construction of the bypass culvert portion of the overflow pond, the total depth of soil removal will be based upon the color change between the upper most and underlying layer and the use of a tape measure. For calculation purposes, the upper layer of soils was assumed to average 12-inches. Therefore, the total material removed prior to excavating the bypass culvert trench is:

13000 sq ft X 1.0 ft = 13000 cubic feet or approximately 482 cubic yards.

The 482 yards of salvaged soils will be removed and placed adjacent to the new bypass culvert trench location. The remaining material, C2 horizon, will be excavated from the trench and temporarily stored adjacent to the excavation but not mixed with the 482 cubic yards of salvaged soil. After the culvert is placed, the excavated C2 material will be replaced in the trench and any remaining material will be evenly spread over the disturbed trench area. The salvaged 482 cubic yards of soils will then be spread over the disturbed area. The surface will be left in a roughened state to reduce erosion. Reseeding of the area will take place as soon as practical.

### **2.3.1.2 Suitability of Topsoil Substitutes/Supplements**

See Section 2.3.3.2

Table 7-6 for a list of all disturbed and undisturbed subwatershed areas and curve numbers within the facilities area. Based on the curve numbers presented above, the storm runoff volume from the 10-year, 24-hour storm event to the overflow pond is 57,898 cubic feet (1.33 acre-feet). The maintenance runoff rate of 0.046 cfs adds 3,975 cubic feet (0.0913 acre-feet) to this volume during a 24-hour period, resulting in a combined required runoff storage volume of 61,873 cubic feet (1.42 acre-feet) without sediment storage. The calculations, presented in Appendix 7-23, are based on hydrologic design methods described in Appendix 7-10. As presented above, the maximum sediment storage volume is 24,211 cubic feet. In order to fully contain the runoff from the 10-year, 24-hour storm event and the maximum sediment storage, the primary spillway elevation for the overflow pond is 7252.5 (2.14 acre-feet), from the stage-capacity table contained in Table 7-8A. The required minimum elevation for the primary spillway with a volume of 24,211 cubic feet is 7,252.26, for ease of construction the primary spillway elevation will be 7,252.50 feet. **The actual overflow pond is 3.15 acre-feet.**

Several drainage areas, identified on Plate 7-6, contribute runoff to the primary sedimentation pond. The disturbed drainage areas contributing to the pond are DIS-1, DIS-2, DIS-3, DIS-4, and DIS-5. The undisturbed drainage area contributing to the pond is CBW-1. The undisturbed drainage CBW-1 is discharged to the pond because it was determined that construction of a diversion ditch along the top of the cut slope from the trash pit north to Mud Spring Hollow may cause some stability problems with the cut slope.

The curve numbers used to determine the runoff volumes were based on information presented in Appendix 7-9. The average curve number for the disturbed area is 80. The curve number assumed for the undisturbed watershed CBW-1 is 72. The curve number for the pond area (watershed DIS-5) was assumed to be 100. Refer to Table 7-6 for a list of all disturbed and undisturbed subwatershed areas and curve numbers within the facilities area.

Based on the curve numbers presented above, the storm runoff volume from the 10-year, 24-hour storm event is 57,898 cubic feet (1.329 acre-feet). The calculations, presented in Appendix 7-14, are based on hydrologic design methods described in Appendix 7-10. As presented above, the maximum sediment storage volume is 24,211 cubic feet. Thus, the minimum capacity of the pond at the elevation of the primary spillway must be 82,109 cubic feet (1.885 acre-feet), assuming the spillway does not spill during the 10-year, 24-hour storm.

# M&RP TEXT PAGES

## CLEAN FORMAT

(Without redline and strikeout)

INSERT ONLY  
THESE NEW TEXT PAGES  
IN M&RP

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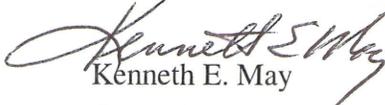
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KENNETH E. MAY

GENERAL MANAGER

5/30/13

Kenneth E. May  
Signature (Right-click above choose certify then have notary sign below)

Print Name

Position

Date

Subscribed and sworn to before me this 30 day of May, 2013

Notary Public: Jacquelyn Nebeker, state of Utah.

My commission Expires: \_\_\_\_\_

Commission Number: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip: \_\_\_\_\_

SS: \_\_\_\_\_



**JACQUELYN NEBEKER**

Notary Public  
State Of Utah

My Commission Expires 3/24/2015  
Commission# 606049

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#### **2.3.1.3 Testing of Topsoil Handling and Reclamation Procedures Regarding Revegetation**

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