

C/041/002 Incoming



A Subsidiary of Bowie Resource Holdings, LLC

#4798

**Sufco Mine**

Kenneth E. May  
General Manager  
597 South SR24  
Salina, Utah 84654  
(435) 286-4400  
Fax (435) 286-4499

February 6, 2014

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: Amendment in Response to Deficiencies for Task ID No. 4767, Sufco Mine, Canyon Fuel Company, LLC, Permit Number C/041/0002

Dear Sirs:

Please find enclosed with this letter an amendment to the Sufco Mine Permit to address deficiencies For Task ID No 4767. We have included two redline/strikeout copies of the text and of the figure associated with this amendment.

An explanation of the history of the Notice of Violation associated with amendment is attached to this letter. The history provides an explanation concerning how the deficiencies were addressed in the amendment.

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

CANYON FUEL COMPANY, SUFCO Mine

*Vicky S Miller  
for*

Kenneth May  
General Manager

Encl.

cc: DOGM Correspondence File

**RECEIVED**

**FEB 09 2015**

**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 in Response to Deficiencies for Task ID No 4767

**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.

- |   |   |
|---|---|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ <input type="checkbox"/> increase <input type="checkbox"/> decrease. |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 2. Is the application submitted as a result of a Division Order? DO# _____  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?                                     |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 4. Does the application include operations in hydrologic basins other than as currently approved?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. Does the application require or include public notice publication?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. Does the application require or include ownership, control, right-of-entry, or compliance information?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. Is the application submitted as a result of a Violation? NOV # <u>vacated 13148 and vacated 13150</u>  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 10. Is the application submitted as a result of other laws or regulations or policies?<br><i>Explain:</i> _____                                   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 11. Does the application affect the surface landowner or change the post mining land use?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)                                |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 13. Does the application require or include collection and reporting of any baseline information?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15. Does the application require or include soil removal, storage or placement?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 16. Does the application require or include vegetation monitoring, removal or revegetation activities?  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 17. Does the application require or include construction, modification, or removal of surface facilities?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 18. Does the application require or include water monitoring, sediment or drainage control measures?  |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 19. Does the application require or include certified designs, maps or calculation?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 20. Does the application require or include subsidence control or monitoring?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 21. Have reclamation costs for bonding been provided?   |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

John D. Byers  
Print Name

J. D. Byers, Mgr. Security 2-6-15  
Sign Name, Position, Date

Subscribed and sworn to before me this 6 day of February, 2015

Jacquelyn Nebeker  
Notary Public

My commission Expires: \_\_\_\_\_, 20\_\_\_\_ }  
Attest: State of \_\_\_\_\_ } ss:  
County of \_\_\_\_\_



<b>For Office Use Only:</b>   	<b>Assigned Tracking Number:</b>  	<b>Received by Oil, Gas &amp; Mining</b> <span style="font-size: 1.5em; color: blue; font-weight: bold;">RECEIVED</span>  <span style="color: red; font-weight: bold;">FEB 09 2015</span>  <span style="color: blue; font-weight: bold;">DIV. OF OIL, GAS &amp; MINING</span>
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## **HISTORY**

**Amendment provided to address NOV 13148 stipulations and NOV 13150 stipulations on 12/18/14**

### **NOV 13148 - Upheld 11/20/14 - Vacated 1/12/15**

*Stipulation A: Show that pooled surface drainage and stormwater runoff that had been visually observed at the time of the complete inspection has been eliminated or properly conveyed to the sediment pond.*

Previously provided in amendment on 12/18/14 for inclusion in - WRDS Appendix V

*Stipulation B: Correct the information in the approved MRP to accurately describe the future methods and the structural configuration to convey surface drainage and stormwater runoff to the sediment pond.*

Previously provided in amendment on 12/18/14 for inclusion in - WRDS Section 3.1.1

NOV Vacated -Therefore no additional information will be provided

### **NOV 13149 - Vacated 11/20/14**

### **NOV 13150 - Vacated 11/20/14 with stipulations**

*Stipulation - Submit Map of topsoil storage piles 1A and 1B at a scale of 1"=25' with line types more clearly distinguishing berms, ditches, silt fences and the disturbed area boundary.*

Provided in amendment on 12/18/14 for inclusion in - WRDS Appendix V as Figure 1

### **NOV 13151- Upheld 11/20/14 - Vacated 1/12/15**

### **NOV 13153 - Vacated 11/20/14**

January 22, 2015 - Task ID 4767, Technical Analysis and Findings for Amendment addressing stipulations for NOV 13148 and NOV 13150

Deficiencies Details:

The revised text on page WRDS 3-1 is acceptable. The permittee should also identify where at the mine this equipment is located since the waste rock site is at a remote location.

The application needs to include a certified map that clearly depicts the boundary of the .54 acre waste rock expansion area.

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**VOLUME 3**  
**WASTE ROCK DISPOSAL SITE**

## **PART 3      OPERATION PLAN**

### **3.1 Development Plan**

#### **3.1.1 Runoff Control**

Based on the size, configuration, and open graded structure of the waste rock fill and its location at the site, no underdrains or rock core chimney drains will be required. There were no springs or seeps within the proposed fill area at the time of the investigation which would require special treatment.

All surface precipitation falling directly on and infiltrating the underground development waste fill shall be channeled to a sedimentation pond located down gradient from the toe of the disposal area fill. The pad area where active occurs will have a berm constructed around the outside edge about 2 ft high to comply with MSHA requirements. This active pad will be sloped at about 2% to the east and south. **If, during the placement of development waste a portion of the surface cannot immediately be configured to drain at the proper slope and direction and runoff become ponded, the ponded runoff will be pumped to the appropriate interception ditch/sediment pond as soon as possible. Alternatively a portion of the pad surface may be graded to temporarily form a swale-like structure to convey the runoff to the interception ditch/sediment pond.** Thus precipitation falling on the pad will drain to the southeast corner where it will be routed down the slope of the fill. in an interception ditch with a trapezoidal cross section. The bottom width of the ditch will be 2 ft with 1v:2h side slopes. Riprap with a  $D_{50}$  of 10 inches will be used to line the ditch. This ditch will be a minimum of 0.7 ft deep, such that it can convey the 100 year, 6 hour event with 0.5 ft freeboard. This configuration will not allow any impounding of water on the surface of the fill. Another interception ditch will be cut about 20 ft to the west of the active fill slope. This ditch will have a triangular cross section with 1v:2h side slopes with a minimum depth of 0.9 ft. This interception ditch will route 100 year, 6 hour runoff to Ditch No. 2 which empties into the sedimentation pond. Designs for these temporary interception ditches are in Appendix III, Engineering Calculations. The sedimentation pond is designed to handle the 10 year, 24 hour precipitation event. Design criteria for the sedimentation pond are presented in Section 2.4.2.

All Surface drainage from the areas above the site should be diverted around the disposal area. from the point where it enters the site through the roadway embankment culverts. Surface drainage from the county road above the site must be controlled by a shoulder ditch and

### 3.2.4 Topsoil Handling

After vegetative matter has been removed from the site, topsoil shall be removed and stockpiled, and properly protected for future reclamation purposes. The topsoil storage piles will be located on site and will be protected as necessary with silt fences to help prevent erosion of the topsoil. The topsoil that is expected to be stored for less than two years, will not be revegetated.

The sediment pond topsoil stockpile will be revegetated with the grasses and forbs of the standard seed mix to help control erosion. A berm that will contain a 10 year, 24 hour precipitation event was built around the sediment pond topsoil pile. This stockpile will have runoff controlled by alternate sediment controls as described above. This stockpile is designated as an Alternate Sediment Control Area (ASCA).

The in-place topsoil/growth medium located between the south end of the No. 5 refuse pile expansion and the sediment pond is protected by existing berms except on a portion of the south eastern edge which allows storm runoff from the topsoil/growth medium area to report to the sediment pond. During future expansion of the waste rock site, this topsoil/growth medium will be collected and placed in a stockpile, if not redistributed on a regraded area during contemporaneous reclamation.

Two additional soil stockpile storage areas will be established in a portion of the waste rock disposal area away from the areas of initial use.

For reclamation purposes it is proposed that the top 45 inches of should be removed for stockpiling. Samples for lab analysis will be collected from the mixture in the stockpile. The soil pits sampled demonstrate an A horizon about 4 inches in thickness underlain by 12-14 inches of stratified C horizon material. Below that is a prominent buried A horizon. Present vegetation indicates that this is a very fertile soil on a slightly eroded landscape but present conditions suggest that this has been a stable landscape for several decades with slow runoff but which is subject to periods of erosional deposition during high storm runoff events. Present erosion hazard is slight (Class I) with existing vegetation but could be moderate to severe if vegetation is removed. This soil is moderately well drained, has moderate permeability and medium available water within 3 feet but has low water holding capacity within the C horizon material from 4-18 inches. Because there is a prominent buried A horizon starting at 16-20 inches, with excellent chemical and physical properties for plant

**Waste Rock Disposal Site**  
**Appendix V**  
**Soils Report**

# Waste Rock Disposal Site

## Appendix V

### Photographs of Waste Rock #5 Cell Expansion

September 26, 2014

October 24, 2014

November 13, 2014

December 16, 2014

**Illustrating Abatement for NOV 13148(a)**

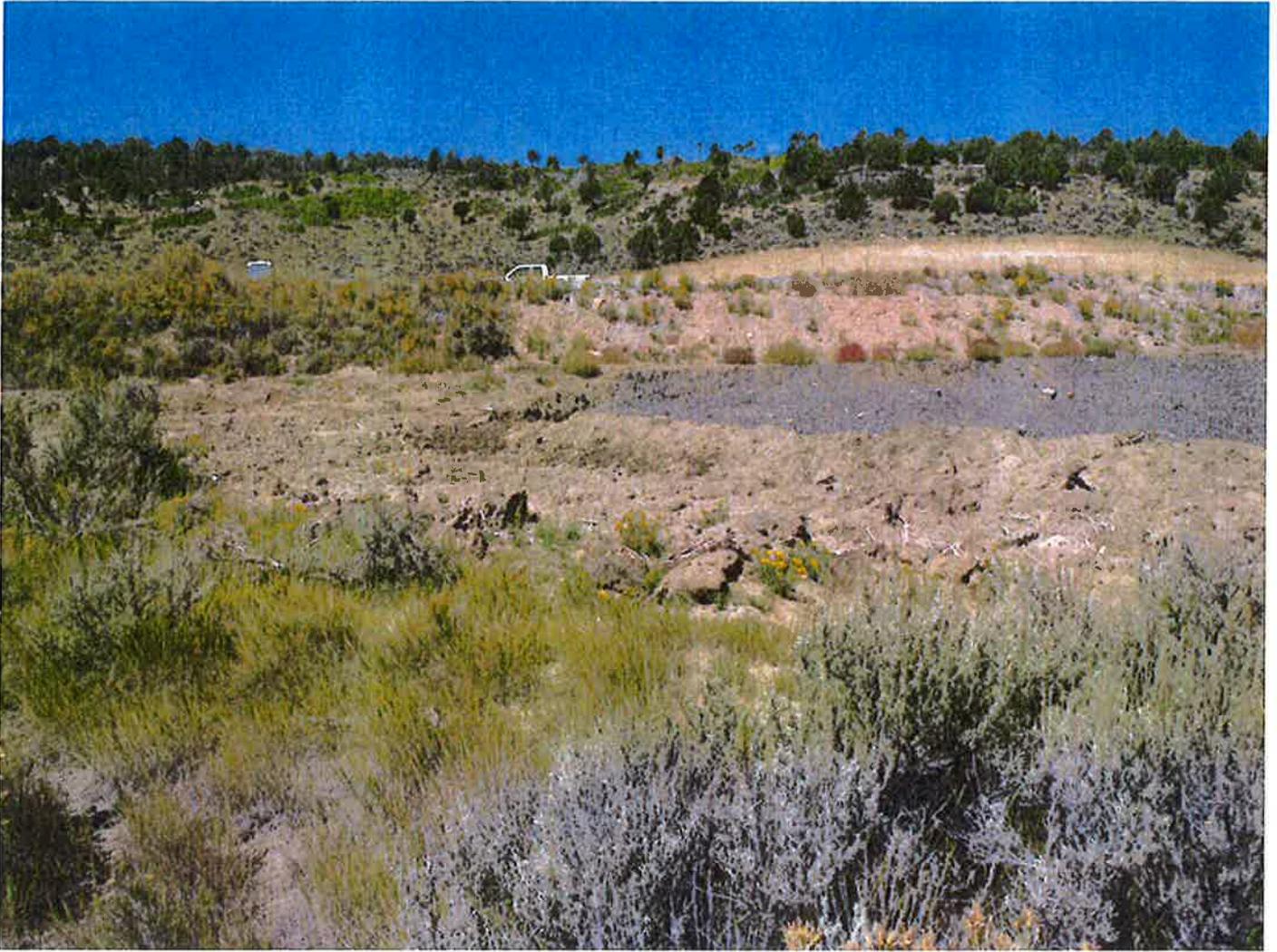


Photo taken 9/26/2014 of Sufco's Waste Rock #5 Cell Expansion, Southwest corner, looking West. No water in cell at time of photo.

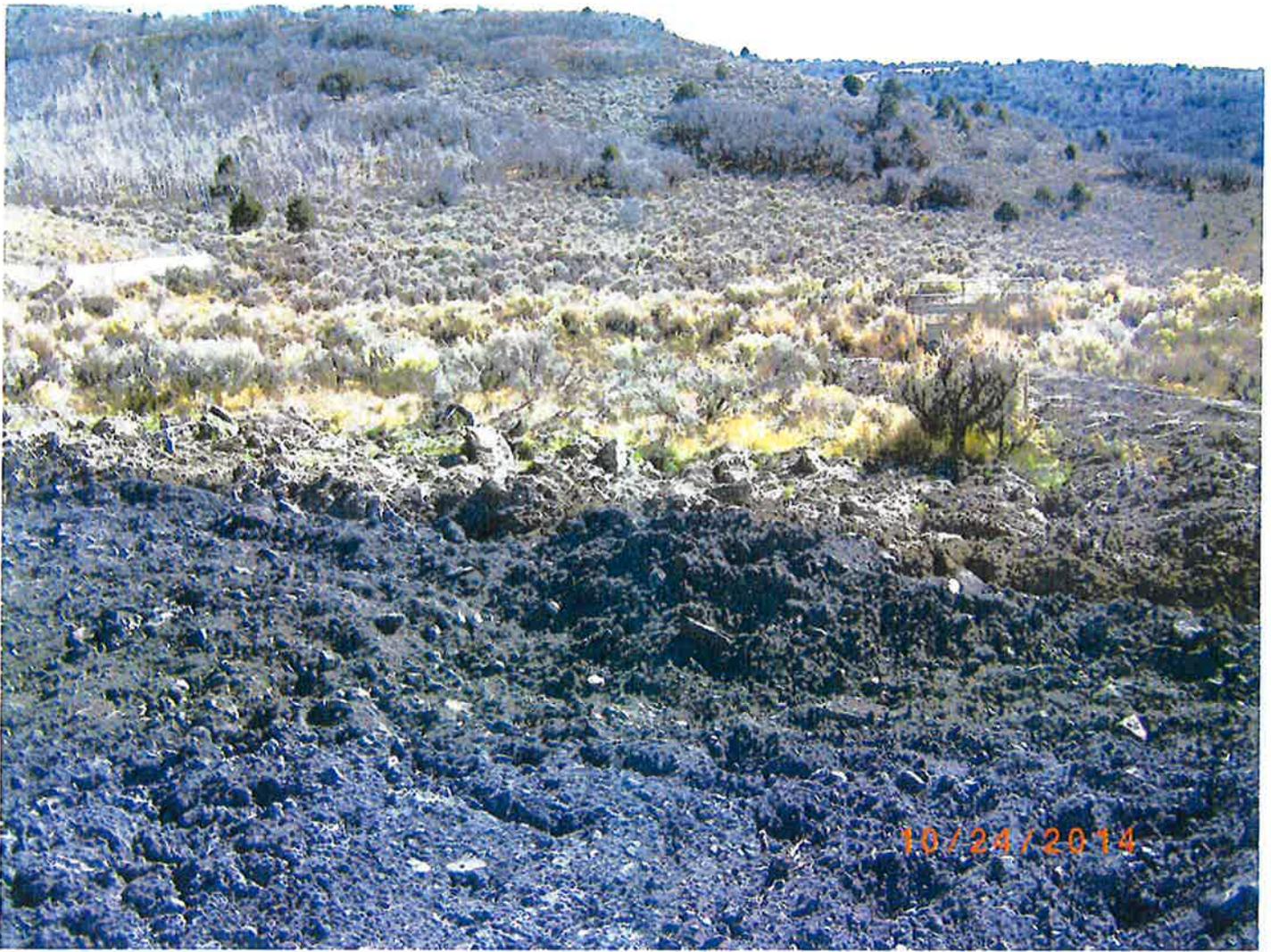
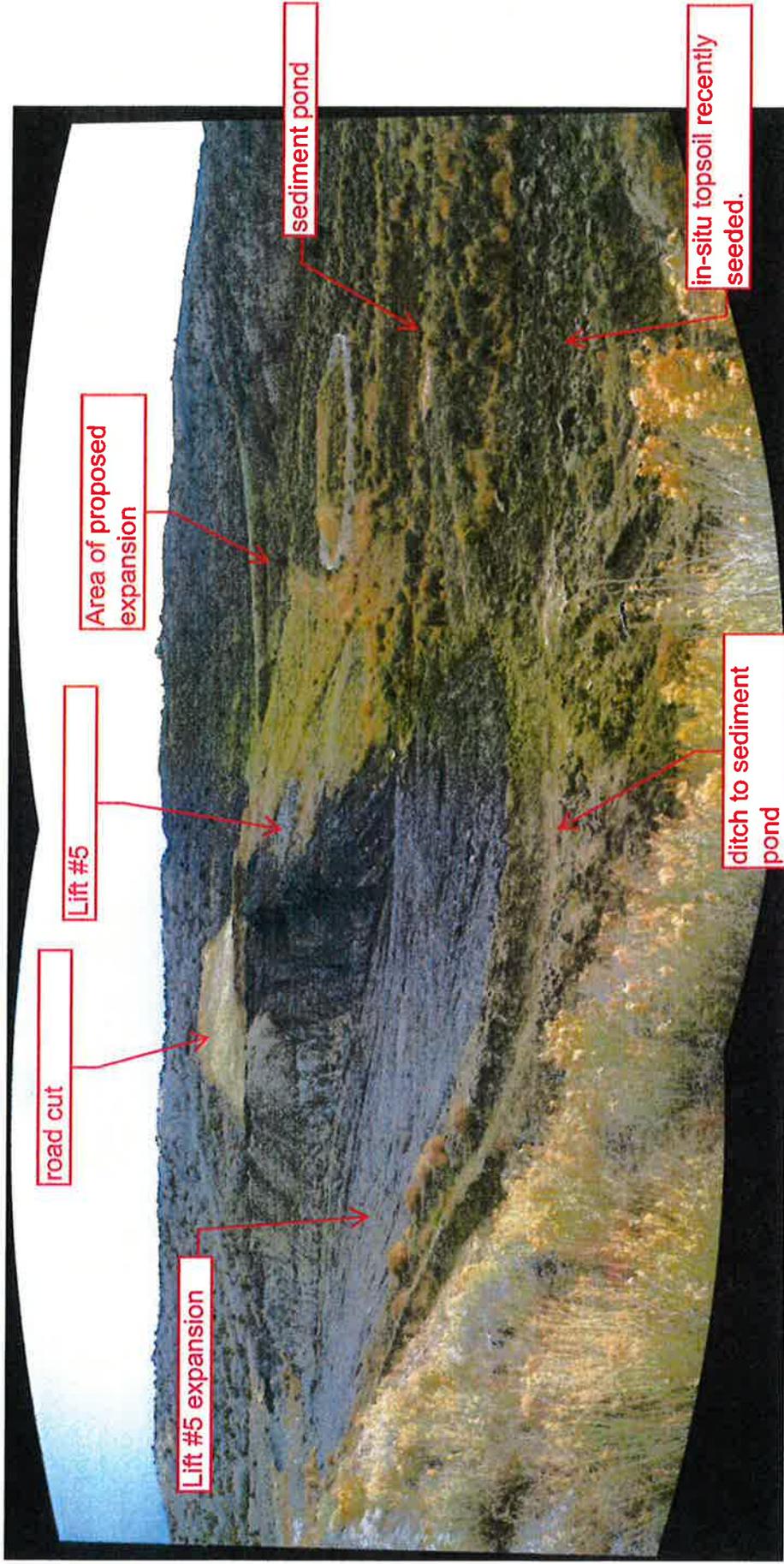


Photo taken 10/24/2014 of Sufco's Waste Rock #5 Cell Expansion, Southwest corner, looking Southeast. No water in cell at time of photo.



Looking west at the SUFCO waste rock site.



Looking east at the Lift #5 expansion area on left. Fenced circular Sediment pond topsoil pile on right.



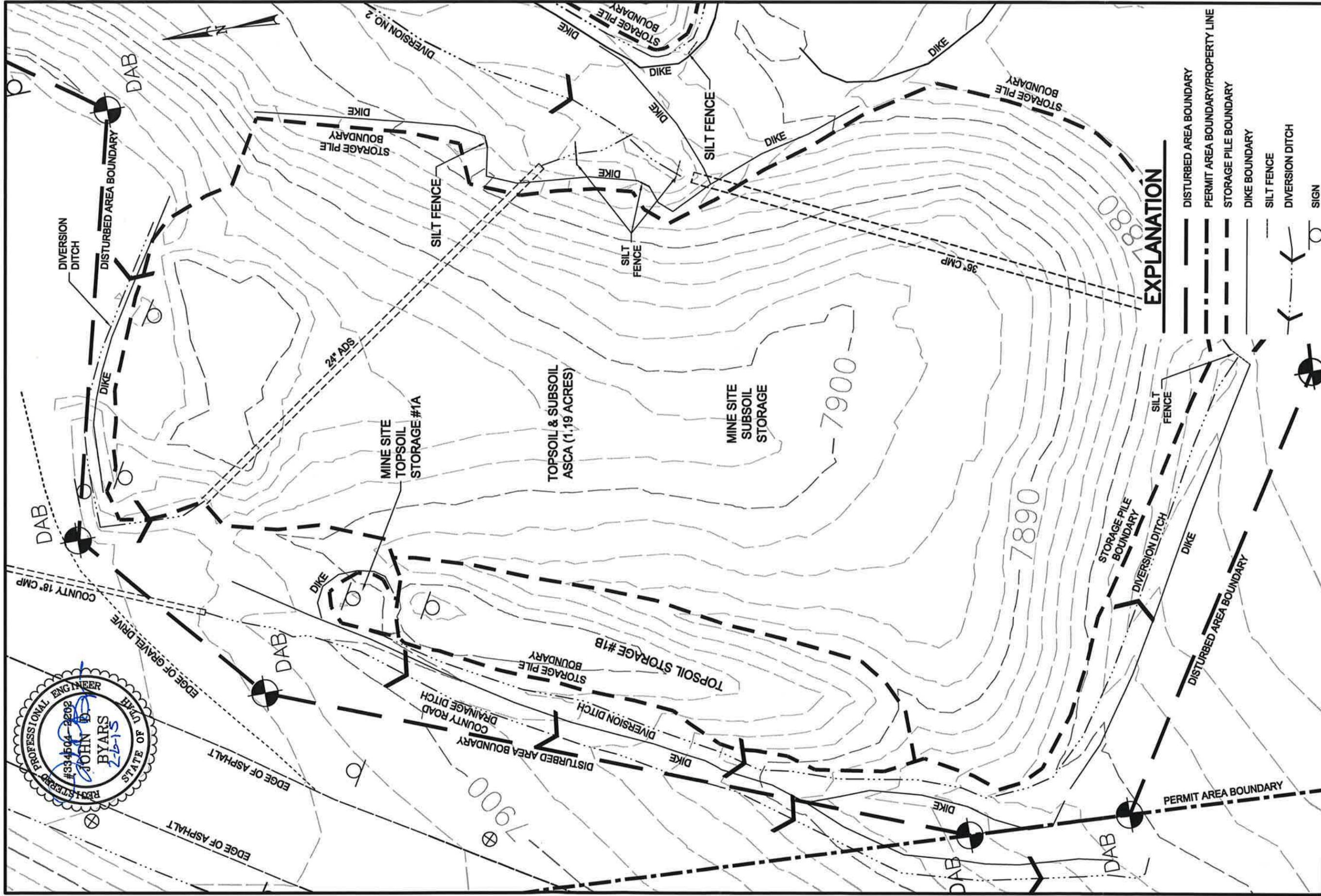
Photo taken 12/16/2014 of Sufco's Waste Rock #5 Cell Expansion, Southwest Corner and Southern end, looking East. No water in cell at time of photo.

Canyon Fuel Company, LLC

Mining and Reclamation Plan

Sufco Mine

**Waste Rock Disposal Site**  
**Map of Topsoil Piles 1A & 1B**  
**@ 1" = 25'**



**EXPLANATION**

- DISTURBED AREA BOUNDARY
- PERMIT AREA BOUNDARY/PROPERTY LINE
- STORAGE PILE BOUNDARY
- DIKE BOUNDARY
- SILT FENCE
- DIVERSION DITCH
- SIGN



**Canyon Fuel Company, LLC**  
**SUFCO Mine**  
 597 South SR 24 - Salina, UT 84654  
 (435) 286-4880 Phone  
 (435) 286-4499 Fax

SHEET NO. **SUFCO WASTE DISPOSAL SITE**

**MINE SITE SALVAGED SOIL PILES**

SCALE: 1" = 25' DATE: 12/18/2014 DRAWN BY: T.R.B.  
 ENGINEER: J.D.B. CHECKED BY: V.L.M. PROJ: ###

FILE NAME: H:\DRAWINGS\MRP\PLATES\WRDS APP\_5\_FIG1.dwg