



# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

# Inspection Report

Permit Number:	C0410002
Inspection Type:	TECHNICAL
Inspection Date:	Wednesday, May 01, 2013
Start Date/Time:	5/1/2013 9:30:00 AM
End Date/Time:	5/1/2013 11:30:00 AM
Last Inspection:	Tuesday, April 16, 2013

Inspector: Priscilla Burton,

Weather:

InspectionID Report Number: 3472

Accepted by: jhelfrich

6/12/2013

Representatives Present During the Inspection:	
OGM	Priscilla Burton
OGM	April Abate
OGM	Joe Helfrich
OGM	Amanda Daniels
Company	Vicky Miller
Company	Mike Davis

Permitee: **CANYON FUEL COMPANY**  
 Operator: **CANYON FUEL COMPANY**  
 Site: **SUF CO MINE**  
 Address: **597 SOUTH SR24, SALINA UT 84654**  
 County: **SEVIER**  
 Permit Type: **PERMANENT COAL PROGRAM**  
 Permit Status: **ACTIVE**

#### Current Acreages

720.48	<b>Total Permitted</b>
48.43	<b>Total Disturbed</b>
	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

#### Mineral Ownership

- Federal
- State
- County
- Fee
- Other

#### Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

#### Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

Division staff took a look at the Waste Rock site in conjunction with the review of Task 4327, As-Builts. Please refer to As built Map 4v.2 for the Waste Rock site.

Inspector's Signature

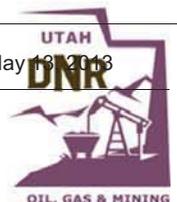
Priscilla Burton,

Inspector ID Number: 37

Digitally signed by Priscilla Burton  
 DN: cn=Priscilla Burton, o,ou,  
 email=priscillaburton@utah.gov, c=US  
 Date: 2013.06.14 14:37:52 -06'00'

Date

Monday, May 13, 2013



**REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS**

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
  - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
  - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **1. Permits, Change, Transfer, Renewal, Sale**

As-builts for the topsoil and subsoil stockpiles at the waste rock site are under review as Task 4327. The additional material was generated from the development of the west lease portals (Task 3739, Incoming 3222011.pdf). Map 4v2 was field checked, although extremely cold wind was discouraging.

## **2. Signs and Markers**

Signs mark six piles at the site (5 topsoil and 1 subsoil).

## **3. Topsoil**

Five topsoil stockpiles exist at the waste rock site: Topsoil pile 1A & 1B, new topsoil stockpiles 2 & 3, and the sediment pond topsoil. (Topsoil stockpile 1A is not labeled on Map 4v2, but is assumed to be the topsoil signed and stockpiled on top of Lift #4. This topsoil pile formerly was formerly adjacent to Lift #5 as shown on Map 4 version 1, but was moved to the horizontal surface of reclaimed Lift #4, in 2011, refer to Insp. Rpt. # 2774, June 7, 2011 for further information.) The berm that protects the subsoil pile at the waste rock site varies in width depth and slope and the adequacy of protection from soil loss resulting from a precipitation event is questionable. Therefore the Division requested representatives from the mine, (Mike Davis, Amanda Richard, Vicky Miller), to develop sizing criteria for the berm based on a design storm event, typically the 10year /24 hour event.

Task 4327 revised Vol 3. Section 3.1.6 states that the volume of the subsoil stockpile was increased by 5X to hold 11,364 cy and the subsoil pile has slopes of 1.25h:1v. These steep slopes are protected with berms that have failed in the past. During the site inspection, the berms were in tact.

The topsoil and subsoil stockpiles were seeded in the fall, however additional subsoil was added to the subsoil stockpile after seeding. The topsoil and subsoil stockpiles were hydromulched. The new topsoil piles 2 & 3 have a lot of vegetative growth. Topsoil pile 1A, 1B and the subsoil pile did not look as vigorous. The seed mix is described in Table 4.6.1.1, (Volume 3, Part 4 of the MRP)

### **4.a Hydrologic Balance: Diversions**

The outlet of the 36 inch CMP below the subsoil storage pile had experienced a minor amount of erosion. Vicky Miller indicated that rip rap would be added to guard the outlet from further damage.

### **4.c Hydrologic Balance: Other Sediment Control Measures**

Reinforced geotextiles were placed at the outlets to the diversion ditches surrounding the subsoil storage. They appear to be working effectively and holding up well.



Waste Rock site subsoil stockpile is on the left. Topsoil pile 1B is on the right.

sediment pond topsoil stockpile is in the center right.



Topsoil stockpile (1A..?) on top of Lift 4.



Looking north. County road on left. Topsoil stockpile on left. Subsoil stockpile on right.



Topsoil Stockpile 2 was hydromulched and seeded last fall .



Subsoil stockpile in center left of the photo. Waste Rock Lift 5 is on the right. The round



Topsoil stockpile 3.



Gray and tan subsoil color reflects varying source and quality of stockpiled subsoil.



Rock filled ditch at base of east side of subsoil stockpile.



Diversion No 2 ditch reporting to the 36 inch culvert beneath subsoil stockpile.



Exit of 36 inch culvert from beneath south end of subsoil stockpile.



east side of subsoil stockpile showing vegetation "filter " on berm.



Silt fence treats run off from south toe of topsoil and subsoil stockpiles.