



# 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:	<b>C0150019</b>
Inspection Type:	COMPLETE
Inspection Date:	Thursday, May 21, 2015
Start Date/Time:	5/21/2015 10:40:00 AM
End Date/Time:	5/21/2015 2:45:00 PM
Last Inspection:	Friday, April 24, 2015

Representatives Present During the Inspection:	
OGM	Lisa Reinhart
OGM	Pete Hess
Company	Kerry Larsen

Inspector: Lisa Reinhart

Weather: 70ish and cloudy

InspectionID Report Number: 4197

Accepted by: JHELFRIC

5/27/2015

Permitee: **PACIFICORP**  
 Operator: **ENERGY WEST MINING CO**  
 Site: **COTTONWOOD/ WILBERG**  
 Address: **PO BOX 310, HUNTINGTON UT 84528**  
 County: **EMERY**  
 Permit Type: **PERMANENT COAL PROGRAM**  
 Permit Status: **ACTIVE**

#### Current Acreages

4,088.33	<b>Total Permitted</b>
27.88	<b>Total Disturbed</b>
21.29	<b>Phase I</b>
21.29	<b>Phase II</b>
21.29	<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:

Kerry Larsen joined Pete Hess and myself. DMRs, bond info, permit status, and impoundment reports were verified as submitted to the Division.

Waste Rock Site: All sediment controls and impoundments were inspected. For the most part, sediment control structures are in good repair. Waddles and silt fences at the base of topsoil #1 and 2 should be reinforced as they are at capacity in several areas. Due to recent cleaning of the sediment pond during muddy conditions, the access road is a little rough in spots and could impede designed water flow. The road should be regraded to ensure drainage from the road flows into the sediment pond as designed. Although it is not in the MRP, a silt fence or sediment control on the east side of the subsoil pile could be installed to prevent subsoil from migrating into the sediment pond.. NOTE: This is the last time the Waste Rock Site will be inspected as part of the Cottonwood/Wilberg Mine permit. From this point forward, the Waste Rock Site will be inspected as part of the Trail Mountain Mine permit. Almost all of the scrap and concrete are gone from the Silo yard. Concrete has been broken up and placed in the lower storage yard and also backfilled into portals along Rhino Run. All the buildings in the upper storage yard are gone and at the time of inspection there were 2 workers continuing removal of concrete and scrap. Drains and culverts are clear and ditches are maintained. We did not travel beyond the loading/unloading area due to the stage of reclamation and demolition. However, we walked Rhino Run and inspected all the portals and the conveyer and fan pads from a distance. The Cottonwood Fan Portal site has been completely reclaimed with the last augmented seeding taking place in the Spring of 2015. The site looks exceptionally well. Although it's early in the season, it was apparent that seeds have germinated and grass/forb seedlings are sprouting on the newly regraded site. Minor slumping is obvious above the

#### Inspector's Signature:

Lisa Reinhart,

**Lisa Reinhart**

Inspector ID Number: 69

Digitally signed by Lisa Reinhart **Date** Tuesday, May 26, 2015  
 DN: cn=Lisa Reinhart, o=DOGM Coal,  
 ou=2410, email=lreinhart@utah.gov, c=US  
 Date: 2015.05.27 15:21:47 -06'00'

Tuesday, May 26, 2015



**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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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**

Final approval to remove Volume 10, Waste Rock Site (Task 4789) and update of the Legal & Financial Volume (Task 4790) was granted May 18, 2015. The Waste Rock Site is now part of the Trail Mountain Permit C/015/0009

The 5-year plan review and evaluation was certified by Guy Davis, Mine Analyst, on 11/11/2013. The plan did not need to be amended.

Air quality permit issued 1991 and subsequent approval for additional of Trail Mountain Mine and Overland Belt to Existing Cottonwood Mine dated 8/9/1995

The mine has 3 USFS special use permits under permit No. 2307 (164). They are all combined and located together in Section 27 T.17S R7E. covering 4.78 acres. They include 8" waste water line issued 11/9/76, Road, sewer & water line issued 4/16/1978, and Sediment Ponds issued 2/16/78. They are active until relinquished. The DOGM issued permit C0150019 expires July 6, 2019 and has a special condition that requires PacifiCorp to submit water quality data through the website. Data submission has been verified and there are no concerns.

## **2. Signs and Markers**

Top soil, storage areas, perimeter, and, reference areas are all posted and clearly identified.

Signs are located at each point of access. Since the Waste Rock Site has been transferred from the Cottonwood Wilberg Permit C0150019 to Trail Mountain Permit C0150009, the sign should also be changed to reflect said transfer of permit.

## **3. Topsoil**

All top soil piles are located at the Waste Rock Site. Topsoil piles are signed and stable with adequate vegetative cover for the location. Waddles and sediment control structures should be maintained/repared in areas near capacity.

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

All ditches and culverts are functioning as designed with no obvious rilling or cutting. On-site water is diverted to the northern and southern sediment ponds and off-site water is diverted into grimes wash. According to Plate 3-16, the design was certified by Mark Reynolds, PE

### **4.b Hydrologic Balance: Sediment Ponds and Impoundments**

The 2nd Quarter Impoundment Inspection and Certified Report was submitted to the Division on 5/6/2015. The Waste Rock Site sediment pond was cleaned in April 2015. Current sediment pond volume is at 1.31 AF @6762.8 ft. with 60% design storage capacity at 1.45 A.F. @ 6763.6 ft and 100% capacity at 2.42 A.F. at 6765.3ft. The South Pond is dry and the North pond has a couple feet of water in it. The orange hue to the northern sed pond is fading. There has been no discharge of the North Pond and therefore, there is little concern about the orange color of the water. It is presumed that during demolition of the facilities, the water off rusty metal was introduced into the drainage system which resulted in the rust in the pond.

**4.d Hydrologic Balance: Water Monitoring**

1st quarter discharge reports were submitted to the division on 4/27/15. All parameters were in compliance with UPDES permits. The Division received a copy of the updated UPDES Permit No. UT0022896 in which outfall 005 (waste rock site) was removed. The permit became effective on 4/14/14 and will expire 3/31/19.

**4.e Hydrologic Balance: Effluent Limitations**

DMR's for UPDES UT0022896 were submitted on 4/27/15 with no discharge. All parameters were in compliance.

**5. Explosives**

N/A. The site is undergoing reclamation and blasting is not taking place.

**6. Disposal of Excess Spoil, Fills, Benches**

N/A. The Cottonwood/Wilberg mine is undergoing reclamation and the Trail Mountain Mine is in cessation. There is no disposal of excess spoil/fills/benches.

**7. Coal Mine Waste, Refuse Piles, Impoundments**

2nd Quarter 2014 Engineering Inspection Reports were submitted 5/6/2015. The reports are signed and dated by Mark Reynolds, Licensed Professional Engineer, No. 5049079-2202 and dated 12-29-19.

Old Cottonwood Waste Rock Site: The site is constructed according to plan. All surfaces are at their final configuration and drainage established. This site is complete and at capacity. Site is reclaimed and vegetation has been established. There were no appearances of instability, structural weakness, and other hazardous conditions. The site will continued to be inspected until MSHA confirms the Refuse site has been abandoned.

**8. Noncoal Waste**

The Cottonwood/Wilberg mine is undergoing reclamation and a demolition contractor is on-site.

**9. Protection of Fish, Wildlife and Related Environmental Issues**

Reclamation plans are occurring according to plan and there is minimal disturbance to wildlife and the biological environment.

**11. Contemporaneous Reclamation**

The Cottonwood/Wilberg Mine facility is undergoing reclamation according to plan. Surface facilities have been dismantled and removed from the permit area.

**12. Backfilling And Grading**

The permittee states that earth work is anticipated for late fall 2015 into winter and spring. Backfilling and grading of the Trail Mountain Access /Cottonwood fan portal is being has been conducted and appears to meet approximate original contour. Appropriate sediment controls are in place.

**13. Revegetation**

Seed tags for the Cottonwood fan portal and grimes wash leach field have been submitted to the Division.

**14. Subsidence Control**

NA. The mine is in the reclamation phase and there is no subsidence from mining.

**15. Cessation of Operations**

NA. The mine is in the active reclamation phase.

**16.a Roads: Construction, Maintenance, Surfacing**

Roads are within the disturbed area and are built as depicted on the surface facilities map. However, roads at the upper portions of the main facility are in disrepair due the ongoing reclamation activities. Asphalt was hauled to the landfill while the concrete is buried on-site. The access road around the subsoil pile at the Waste Rock Facility could be graded to facilitate drainage.

**16.b Roads: Drainage Controls**

The access road around the subsoil pile at the Waste Rock Facility could be graded to facilitate drainage.

**18. Support Facilities, Utility Installations**

The mine is in the active reclamation phase and all support facilities have been dismantled and removed.

**19. AVS Check**

An AVS check was performed on February 6, 2015. There were no violations retrieved by the system. Need to add corporate structure status, Suzanne can help

**20. Air Quality Permit**

Air quality permit issued 1991 and subsequent approval for additional of Trail Mountain Mine and Overland Belt to Existing Cottonwood Mine dated 8/9/1995.

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**21. Bonding and Insurance**

Certificate of Liability Insurance Policy No. X15194003P Insured by Associated Electric and Gas for period from 10/1/14 to 10/1/15 with Excess liability for \$35,000,000. According to midterm review (March 2012) bond posted is \$2,964,000.00 and excess bond is \$212,000.00.

Certificate of liability insurance was reviewed. Effective until 10/01/15.

# Cottonwood Inspection 05/21/15 Main Mine Site



# Cottonwood Inspection 05/21/15

## Rhino Run



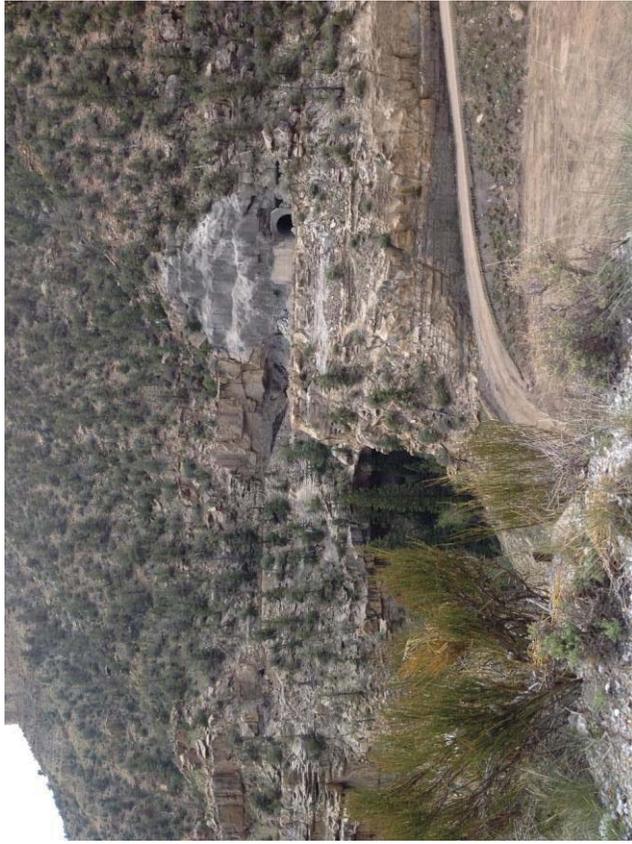
# Cottonwood Inspection 05/21/15

## Rhino Run



# Cottonwood Insptation 05/21/15

## Cottonwood Portals from Rhino Run



# Cottonwood Inspection 05/21/15 Parking and Storage Area



Cottonwood Insntpection 05/21/15  
Wilberg Portal and Fan Pad



# Cottonwood Inspection 05/21/15 Mine Pad Sediment Control

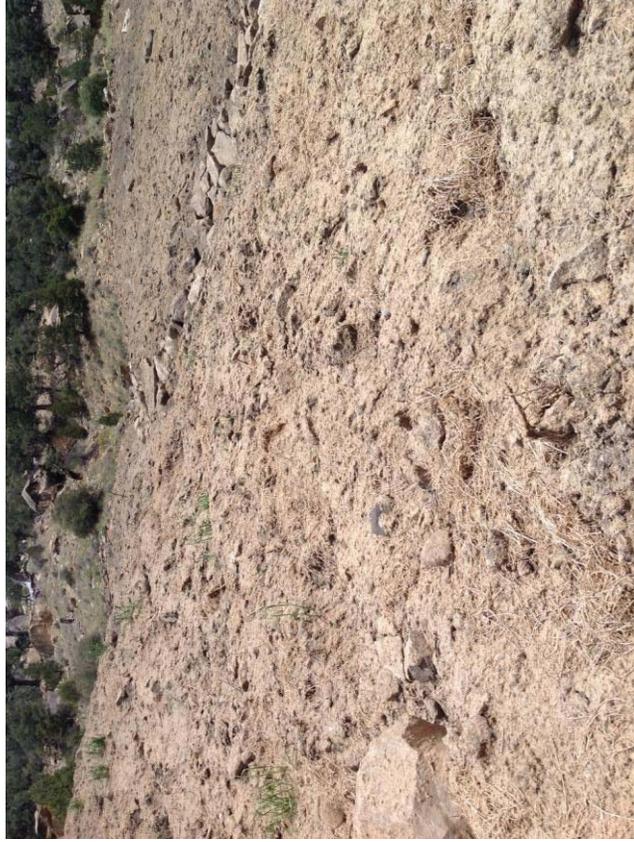


# Cottonwood Inspection 05/21/15 Cottonwood Fan Portal (Trail Mountain Access)



# Cottonwood Inspection 05/21/15

## Cottonwood Fan Portal (Trail Mountain Access) Veg Growth



# Cottonwood Inspection 05/21/15 Waste Rock Site Top Soil Pile # 1



# Cottonwood Inspection 05/21/15 Waste Rock Site Top Soil Pile # 2 and drainage



# Cottonwood Inspection 05/21/15

## Waste Rock Site Access Road

