



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:	C0150019
Inspection Type:	PARTIAL
Inspection Date:	Thursday, August 04, 2016
Start Date/Time:	8/4/2016 9:45:00 AM
End Date/Time:	8/4/2016 2:00:00 PM
Last Inspection:	Monday, July 18, 2016

Inspector: Lisa Reinhart

Weather: Calm, clear, 80's

InspectionID Report Number: 5598

Accepted by: DHADDOCK
8/24/2016

Representatives Present During the Inspection:	
Company	Dennis Oakley
Company	Kenneth Fleck
OSM	Jeremy Spangler
OGM	Lisa Reinhart
OGM	Priscilla Burton
OGM	Steve Christensen
OGM	Keenan Storrar
Company	Chuck Semborski
OSM	Christine Belka

Permitee: **PACIFICORP**
 Operator: **INTERWEST 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	Total Permitted
27.83	Total Disturbed
21.30	Phase I
21.30	Phase II
21.30	Phase III

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:

Representatives from the Division, OSMRE, and Interwest (company) conducted a field visit to further discuss the use of Deep Gouging as Best Technology Currently Available for Sediment Control. A site visit to Des Bee Dov Mine, Cottonwood/Wilberg Mine, and Cottonwood Fan Portal was conducted.

After the field visits were complete, a close-out meeting was held at the company's office. In general, the Division and OSMRE agreed that deep gouging, as demonstrated at the Des Bee Dov Mine has controlled sedimentation. However, before the Division or OSMRE can approve deep gouging as BTCA and also allow the removal of the sediment ponds at the time of final reclamation, the amendment would need to clearly demonstrate that deep gouging as proposed would adequately control sediment and prevent any offsite impacts during the first two years post reclamation. Additional maps with topography overlaid on the watersheds and pocking areas (large pocks around transitional areas and small pocks in between) are also requested with a revised amendment.

Digitally signed by Lisa Reinhart

DN: cn=Lisa Reinhart, o=DOGM Coal, ou=2410, email=lreinhart@utah.gov, c=US

Date: 2016.08.26 10:24:17 -06'00'

Inspector's Signature:

Lisa Reinhart,

Inspector ID Number: 69

Date Monday, August 08, 2016



Permit Number: C0150019
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Inspection Continuation Sheet

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 type="checkbox"/>	<input type="checkbox"/>	<input 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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

The mine has proposed to modify the approved reclamation plan by removing the contour ditches and instead pocking reclaimed areas with deep gouges for sediment control. Additionally, the mine has proposed to reclaim the 2 sediment ponds at the end of reclamation rather than waiting an additional 2 years of reclamation for pond removal.

As a result of the changes in the proposed reclamation plan, the Division has requested the consideration of OSMRE in their findings. This inspection was conducted in conjunction with the field visit to inspect deep gouging as BTCA currently available for sediment control.

The Des Bee Dov mine site (phase III bond release) was visited by the Division, OSMRE, and Company as an example of similar reclamation techniques proposed. Thereafter, the Cottonwood/Wilberg mine site was inspected as part of this partial inspection. The group traversed all areas of the main mine area and then drove to the Cottonwood Fan Portal to inspect the reclamation that was conducted in the Winter 2015.

2. Signs and Markers

Storage areas, perimeter, and, reference areas are all posted and clearly identified. Signs are located at each point of access.

4.a Hydrologic Balance: Diversions

Ditches, diversions and culverts are constructed and functioning as designed. Due to the removal of all structures and road base, temporary gravel berms have been installed to divert water in lieu of curbing. At final reclamation, these berms will no longer be necessary. No abnormal erosion was observed in the diversions, outlets or downstream.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

The North Sediment Pond was holding water. Water level was not inspected but is well below visual limits on the cleanout marker (see photo).

4.c Hydrologic Balance: Other Sediment Control Measures

Deep gouging was inspected to evaluate if the practice is Best Technology Currently available for sediment control at final reclamation.

4.e Hydrologic Balance: Effluent Limitations

DMR for UT0022896 0001-A was submitted to the Division 07/27/2016. Discharge reports show all parameters within permit limits. UT0022896 003-A had no discharge.

13. Revegetation

Deep gouging over the slope at the Cottonwood Fan Portal has resulted in minimal to no sediment movement on the reclaimed site. There were no rills or cuts observed. Waddles line the drainage and they are in good condition and functioning as designed. Perennial vegetation is establishing on-site and appears to be vigorous and resilient to climatic conditions.

ATTACHMENT A – Cottonwood/Wilberg Mine 08/04/16



North Sediment Pond



Drain from storage yard to North Sediment Pond



North Sediment Pond

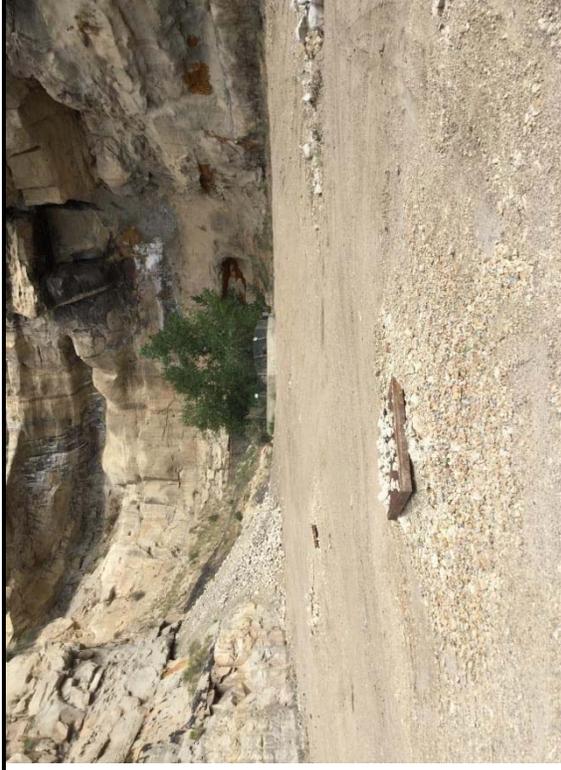


Sediment trap at parking and storage

ATTACHMENT A – Cottonwood/Wilberg Mine 8/4/16



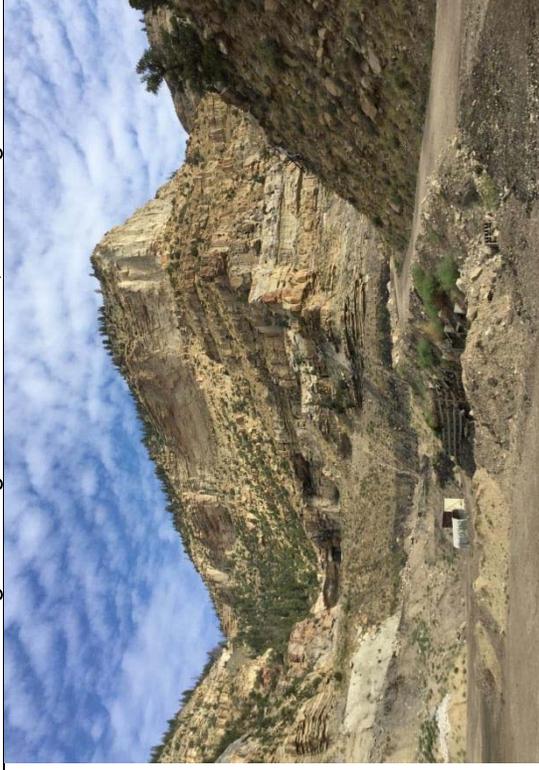
Cottonwood Tunnel (to fan pad) backfilled



Parking & Storage Yard / Loadout, Unloading area



Tamarisk on road (treatment planned for Fall 2016)



Mine Site Overview

ATTACHMENT A – Cottonwood/Wilberg Mine 8/4/16



Bin Wall (fill to be used during backfill/grading)



Storage Yard Area



Left Fork Grimes undisturbed culvert



Rhino Run/Wilberg Portal (left) Storage Area (right)

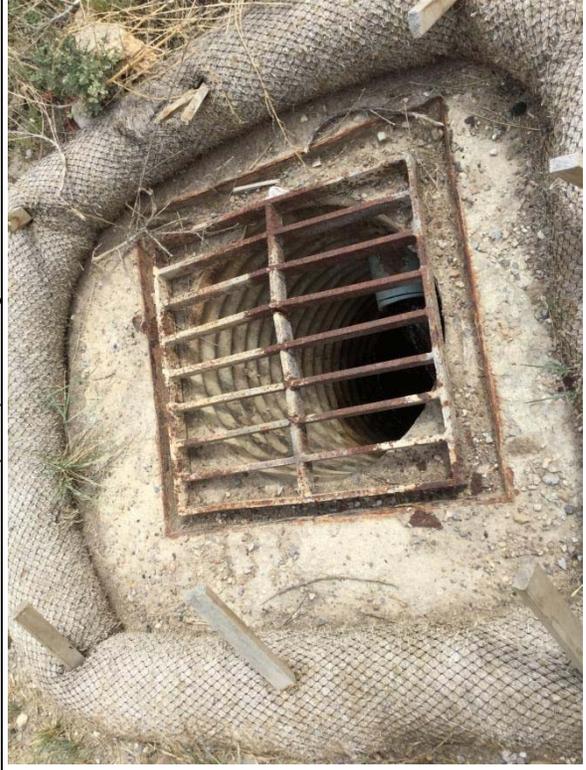
ATTACHMENT A – Cottonwood Fan Portal, Reclaimed Winter 2015. 8/4/16



Rip Rap Drainage



Established Vegetation & Pocking



Manhole/ UPDES UT0022896 0001-A



Reclaimed Drainage at Cottonwood Fan Portal (TMA)