



# 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:	Wednesday, October 26, 2016
Start Date/Time:	10/26/2016
End Date/Time:	10/26/2016
Last Inspection:	

Representatives Present During the Inspection:
OGM Keenan Storrar

Inspector: Keenan Storrar

Weather: Sunny, 60 F

InspectionID Report Number: 5690

Accepted by: DHADDOCK  
11/16/2016

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	<b>Total Permitted</b>
27.83	<b>Total Disturbed</b>
21.30	<b>Phase I</b>
21.30	<b>Phase II</b>
21.30	<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:

The Division of Oil, Gas and Mining (the Division) conducted a partial inspection at the Cottonwood mine on October 26, 2016. There were no mine representatives present during the inspection. The full site was walked beginning at the gate and ending on the upper road pad in the left fork of Grimes wash. The items inspected included diversions, ponds, the temporary placement of road base, and undisturbed contributing hillslopes.

Inspector's Signature:

Keenan Storrar,  
Inspector ID Number: 71

Date: Monday, November 14, 2016



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

The Division is processing the permit area adjustment for the Cottonwood breakout portals in Cottonwood Canyon. The Permittee must revisit the mine reclamation plan for the continuous mine water discharge at these breakouts before the permit adjustment can be approved.

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

The mine site has experienced one or multiple large storm events over the last couple months. Considering the severity of the storms the diversions have largely remained intact. The Permittee must focus on repairing two areas diverting runoff that have been damaged by recent storms. The first area is the road base temporarily placed at the edge of the upper road pad in the left fork. This road base has been relatively stable over the summer, however undisturbed runoff flowing over the material has formed a large gully through the fill (Photo 1). I spoke with Dennis Oakley of Pacificorp over the phone and he informed me they are working to restabilize the fill. The second area in need of maintenance is a drop culvert. The drop culvert is located along the inner bend of the access road as it passes the lower pad in the right fork of Grimes wash. Runoff is designed to drop into the culvert inlet and conveyed to the sediment ponds. Instead, it appears the berm acting as a backstop behind the drop culvert has failed (Photo 2). Runoff now flows past/over the drop culvert and is scouring a large gully on the hillslope down below the culvert. The culvert must be repaired to properly convey water the gully on the hillslope must be stabilized.

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

The south pond was dry and the north pond contained a couple feet of standing water (Photos 3 and 4).

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

The rock/straw bale check dam directly below the south pond must be cleaned out (Photo 5). The check dam is full and is no longer able to capture sediment prior to leaving the mine site. The check dam/silt fence to the east of the entrance gate is in need of maintenance as well (Photo 6). This sediment control structure is about half full and appears to need additional settling time before runoff is allowed to exit the permit area.

The undisturbed hillslope to the east of the sediment ponds was walked. The vegetation appeared to be stable and dense enough to prevent the formation of rills across the entire hillslope. Instead, it appears runoff is limited to sheet flow (Photos 7 – 10).

ATTACHMENT A – Photos October 26, 2016 site visit	
 <p><b>PHOTO 1</b> Runoff has gullied the road base from recent events. October 26, 2016</p>	 <p><b>PHOTO 2</b> Failed drop culvert and gullied hillslope down below. October 26, 2016</p>
 <p><b>PHOTO 3</b> South pond was dry. October 26, 2016</p>	 <p><b>PHOTO 4</b> North pond contained a couple feet of water. October 26, 2016</p>

**ATTACHMENT A – Photos October 26, 2016 site visit**



**PHOTO 5**  
Check dam below ponds is full. Must be cleaned out.  
October 26, 2016



**PHOTO 6**  
Check dam to the east of the entrance gate in need of maintenance.  
October 26, 2016



**PHOTO 7**  
Rocks, grasses, and woody vegetation limit the concentration of runoff on undisturbed hillslopes above the mine site.  
October 26, 2016



**PHOTO 8**  
Rocks, grasses, and woody vegetation limit the concentration of runoff on undisturbed hillslopes above the mine site.  
October 26, 2016

**ATTACHMENT A – Photos October 26, 2016 site visit**



**PHOTO 9**

Rocks, grasses, and woody vegetation limit the concentration of runoff on undisturbed hillslopes above the mine site.  
October 26, 2016



**PHOTO 10**

Rocks, grasses, and woody vegetation limit the concentration of runoff on undisturbed hillslopes above the mine site.  
October 26, 2016