



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, July 26, 2017
Start Date/Time:	7/26/2017 10:00:00 AM
End Date/Time:	7/26/2017 11:30:00 AM
Last Inspection:	

Inspector: Keenan Storrar,
 Weather: Partly cloudy
 InspectionID Report Number: 5929

Accepted by: DHADDOCK
 8/31/2017

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:

The Permittee is beginning to reclaim the Cottonwood mine site. Rick Cullum was the company representative present during the site inspection. W. W. Clyde is the contractor that will be reclaiming the site. Equipment was mobilizing to the site at the time of the inspection (Photo 3).

Inspector's Signature:

Keenan Storrar,
 Inspector ID Number: 71

Date Thursday, August 17, 2017



Note: This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining. telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

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 type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

4.a Hydrologic Balance: Diversions

In mid- to late-July a high intensity short duration rain event (Graph 1) passed over the Right Fork of Grimes wash causing extensive erosion and flooding within the drainage. The rain event and subsequent peak runoff exceeded the design storm for the sediment control structures in the right fork. This caused the bypass culvert inlet to be blocked by rocks, sediment, and large woody debris (Photos 1 and 2). The excess runoff from the watershed was then routed down the main access road and into the undisturbed ditch on the eastern edge of the mine site (Photos 4, 5, 8). Runoff conveyed along this path was able to bypass the site safely while only causing minimal damage to the road bed. The majority of the mine site was unaffected or functioned as designed during the large rain event.

4.b Hydrologic Balance: Sediment Ponds and Impoundments

The North and South sediment ponds were full of water and discharging. During a follow up conversation with Dennis Oakley, I was informed the sediment pond discharge was sampled the following day (July 27, 2017). The ponds were functioning properly by treating and discharging excess runoff as designed.

18. Support Facilities, Utility Installations

Survey pin #40 with a known NEZ was located during the inspection. The pin was installed and used regularly when the mine was active. The pin is located on top of a rock sitting just off of the upper portal access road (Photos 9, 10, 11). On Surface Facilities Map 3-16, its position is shown as sitting across the access road from the westernmost office, adjacent to the 'Trash Chute'. This pin may be used for repeat surveys at the site.

ATTACHMENT A – Photos July 26, 2017 site visit	
	
<p>PHOTO 1 Right fork of Grimes Wash bypass culvert blocked by runoff event. July 26, 2017</p>	<p>PHOTO 2 Right fork of Grimes Wash bypass culvert blocked by runoff event. July 26, 2017</p>
	
<p>PHOTO 3 Reclamation equipment mobilizing to the site. July 26, 2017</p>	<p>PHOTO 4 Damage to road from excess runoff during a large rain event. July 26, 2017</p>

ATTACHMENT A – Photos July 26, 2017 site visit



PHOTO 5
Damage to road from excess runoff during a large rain event.
July 26, 2017



PHOTO 7
North pond full and discharging to south pond.
July 26, 2017



PHOTO 6
South pond full and discharging.
July 26, 2017



PHOTO 8
Undisturbed ditch carried a significant volume of runoff past the site.
July 26, 2017

ATTACHMENT A – Photos July 26, 2017 site visit	
	
<p>PHOTO 9 Survey Pin #40 with known NEZ. July 26, 2017</p>	<p>PHOTO 10 Survey Pin #40 with known NEZ. July 26, 2017</p>
	
<p>PHOTO 11 Rock with survey pin sits to the side of the portal access road. July 26, 2017</p>	<p>PHOTO 12 Left fork of Grimes wash. July 26, 2017</p>

ATTACHMENT A – Photos July 26, 2017 site visit



GRAPH 1

High intensity rain events that triggered massive runoff events at the Cottonwood Mine site in late July 2017.

