



GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

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:	C0150025
Inspection Type:	PARTIAL
Inspection Date:	Tuesday, January 23, 2018
Start Date/Time:	1/23/2018 10:00:00 AM
End Date/Time:	1/23/2018 12:30:00 PM
Last Inspection:	Wednesday, December 13, 2017

Representatives Present During the Inspection:	
OGM	Priscilla Burton
Company	Jaren Jorgensen
OGM	Joe Helfrich
OGM	Todd Miller

Inspector: Priscilla Burton,

Weather: sun, 20 F

InspectionID Report Number: 6057

Accepted by:DHADDOCK
2/5/2018

Permittee: **CASTLE VALLEY MINING LLC**

Operator: **CASTLE VALLEY MINING LLC**

Site: **BEAR CANYON MINE**

Address: **2352 NORTH 7TH STREET, UNIT B, GRAND JUNCTION CO 81501**

County: **EMERY**

Permit Type: **PERMANENT COAL PROGRAM**

Permit Status: **ACTIVE**

Current Acreages

10,991.83	Total Permitted
35.02	Total Disturbed
	Phase I
	Phase II
	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 purpose of this site visit was to conduct a partial inspection of the Bear Canyon facility.

Introduced Division biologist Todd Miller to the site.

Discussed the waste rock site plans. Field-checked the Wild Horse Ridge topsoil stockpile as-built Plate 2-2B under review.

Refer to Plates 5-2C for surface facilities, Plate 5-2B for Wild Horse Ridge topsoil stockpile location, and Plate 5-6A for Ball Park location.

Inspector's Signature: **Priscilla Burton**

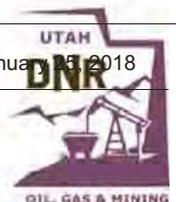
Priscilla Burton

2018.02.08 18:07:15 -07'00'

Date Thursday, January 23, 2018

Priscilla Burton,

Inspector ID Number: 37



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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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

Plate 2-2B as-built of the Wild Horse Ridge topsoil stockpile is under review as Task 5571. Plate 2-2B was revised, because the topsoil pile configuration was affected by construction of the #2 Belt Access road to the catch basin beneath the conveyor belt.

3. Topsoil

The Wild Horse Ridge stockpile was constructed in 2002. The stockpile is shown on Plates 2-2B and 5-2F. The outline of the stockpile shown on the as-built was walked with GPS. The GPS acreage of the footprint is 0.188 acres or 8,218 sq. ft. On plate 2-2B the topsoil outline approximates a triangle. The hypotenuse of the triangle is the #2 Belt access road. Two legs of the triangle are cross section A-A' = 120 ft. and cross section B-B' = 130 ft. The area calculated for this triangle ($1/2 \text{ hb}$) = 0.17 acre, which provides confirmation of the GPS track. Cross sections also indicate that at its apex, the topsoil is stockpiled 35 ft. deep, but the average depth is about 15 ft. Using these dimensions a volume of 4,333 CY is calculated, which is quite close to the surveyed volume of 3,900 CY.

During the #2 Belt construction topsoil was removed from the 7,228 - 7,240 ft elevation following the topsoil berm along the South toe of the pile. The topsoil removed for road construction was placed back on the top and North side of the pile, along the Lower Conveyor Belt Access Road, no topsoil was lost. However, the surveyed volume differs greatly from the volume reported in the MRP and on the previous as-built, dated 2005. Some of the lost topsoil may be accounted for by aligning the topsoil footprint with the West toe of the pile in the drainage. In addition, some topsoil may lie beneath the constructed road, extending to the 7,224 ft elevation (10 ft. from the stream channel). This might be confirmed by checking for the topsoil marker strips, although their placement is uncertain.*

Potential sources of topsoil were discussed to make up the deficit. A knob of soil below the #2 Belt Access road might serve as additional soil for reclamation, it was walked with a GPS track. Other possible sources of topsoil include the ball park, which holds 3,400 CY and which is not currently included in the mass balance calculations for reclamation (MRP Chap 2, p. 2-22). The ball park is shown on Plate 5-6A.

*MRP Section R645-301-231.400 describes marker strips being laid down before pile construction, however Mr. Jorgensen said no marker strips were encountered during topsoil removal in construction of the #2 Belt Access road.

7. Coal Mine Waste, Refuse Piles, Impoundments

The coal mine waste storage area is located at the loadout (Plate 5-2C). The waste storage area is small and also serves as access to the lump coal storage bin. Additional waste storage is needed and has been proposed in the vicinity of the ball park. The proposal was discussed.

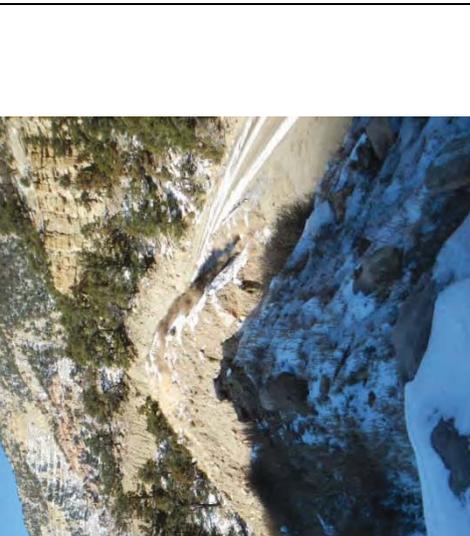
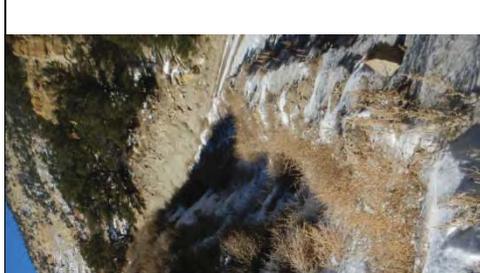
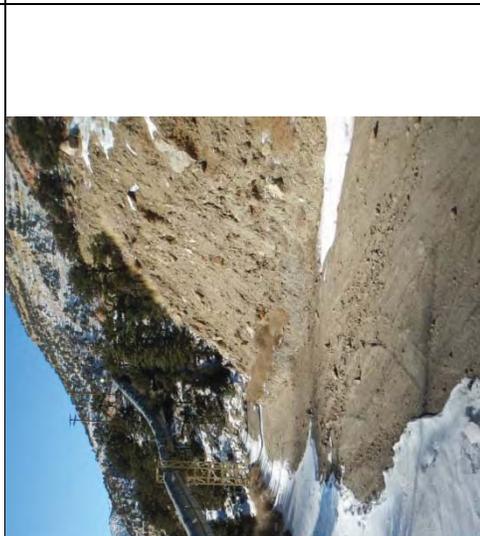
Photo Attachment		Bear Canyon Inspection January 23, 2018	
	<p>PHOTO 1 WHR Topsoil Pile in relation to conveyor</p>		<p>PHOTO 2 North side and apex of WHR Topsoil piles</p>
	<p>PHOTO 3 South side of WHR pile #2 Belt Access Road</p>		<p>PHOTO 4 North east toe WHR Topsoil pile</p>

Photo Attachment

Bear Canyon Inspection January 23, 2018

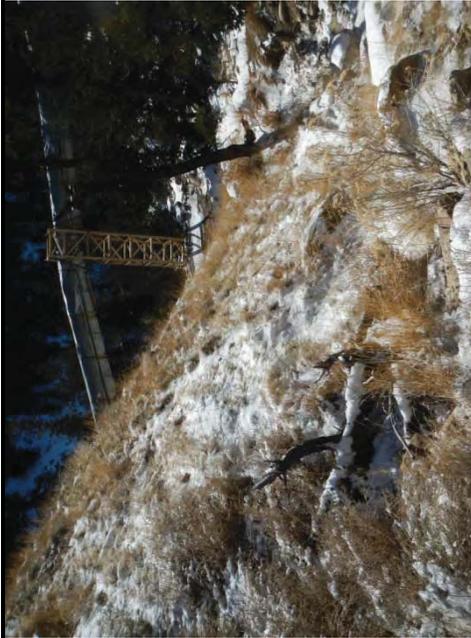


PHOTO 5 West toe WHR Topsoil pile

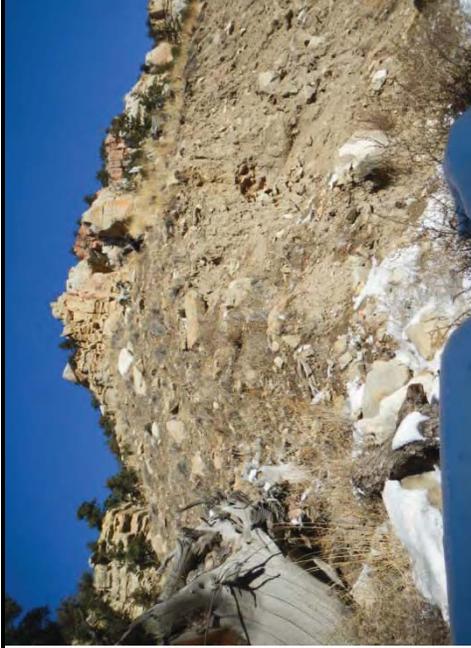


PHOTO 6 South side WHR topsoil pile cut for belt road



PHOTO 7

Conveyors sort coal . Car is at lump coal drop location



PHOTO 8

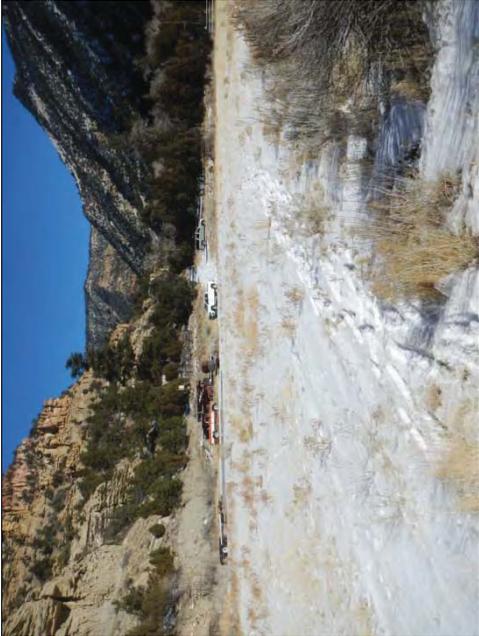
Coal Waste storage location



UTAH COAL PROGRAM

**Photo Attachment
2018**

Bear Canyon Inspection January 23,

	
<p>PHOTO 9 low ash coal</p>	<p>PHOTO 10 High ash coal</p>
	
<p>PHOTO 11 Bear Creek at Ball Park road is fed by mine water discharge</p>	<p>PHOTO 12 Ball Park location</p>