

Minerals Plan of Operations Inspection U.S. Department of the Interior Bureau of Land Management Royal Gorge Field Office



The BLM has conducted an inspection of your operations, which concludes whether the documented operations on file with BLM are compliant or non-compliant. Any non-compliance issues are reported in the Additional Actions Necessary section of this inspection.

Operation Type: □ 3600 □ 3809 w/ occupancy ☑ 3809 w/o occupancy

Operation Name: 1st Benttonite			
Case Number: COC51303			
CDRMS Number: M-1977-231			
General			
Operation (s) are in compliance with documentation on file			
\blacksquare Yes \Box No \Box N/A			
Operation(s) and disturbance on-site coincide with the			
operations and access on file			
\blacksquare Yes \square No \square N/A			

Inspection Purpose:	□ Pre-Operations	☑ General	□ Final	□ Trespass	□ Complaint

Inspection Items	Compliant	Non- Compliant	N/A		
1. Method of Operations					
Drilling, Trenching/Surface Excavation & Underground Excavation					
a. Drilling			\checkmark		
i. Pad Construction					
ii. Mud Pits					
iii. Borehole Abandonment/Monitoring Well Conversion					
\Box Complete \Box Incomplete					
iv. Pad Reclamation					
b. Trenching/Surface Excavation			\checkmark		
i. Trench/Excavation Construction					
ii. Trench/Excavation Stability					
iii. Trench/Excavation Reclamation					
c. Underground Excavation			\checkmark		
i. Portal Construction					
ii. Blasting Operations					
iii. Portal Reclamation/Conversion of Entry					
2. Site Conditions					
a. Material/Waste Rock Management			\checkmark		
b. Erosion & Stormwater Control			\checkmark		
c. Man-made Structures			\checkmark		
d. Weed Management			\checkmark		
e. Safety Conditions			\checkmark		
f. Interim Reclamation			\checkmark		

Inspection Items	Compliant	Non- Compliant	N/A		
3. Housekeeping					
a. Container Management			\checkmark		
b. Spills/Leaks Observed			\checkmark		
c. Hazardous Substances/POL Management			\checkmark		
d. General Housekeeping			\checkmark		
4. Access					
a. Road Management			\checkmark		
b. Berms			\checkmark		
c. Security			\checkmark		
d. Signage	\checkmark				
e. Surface Water Controls			\checkmark		
5. Quality Assurance/Quality Control					
a. Routine Site Conditions Monitoring			\checkmark		
b. Air, Water, Noise, Other Monitoring			\checkmark		
c. Monitoring Reporting			\checkmark		
d. Regulatory Submittals			\checkmark		
e. Other Agency/Entity Permits			\checkmark		
6. Final Reclamation	\checkmark				
a. Exploration/Sampling Location	\checkmark				
b. Access Roads/Trails					
c. Grading	\checkmark				
d. Revegetation					
e. Removal of Structures	\checkmark				
f. Free of Trash	\checkmark				

Additional Actions Necessary

Non-Compliance Issues to be addressed by Operator

6.b. & 6.d. Minimal vegetation along the access road, haul roads (trending east to west), staging area and detention pond. The lack of vegetation has caused an abundant amount of erosion (e.g. riles, gullies, etc.) along the banks of the detention pond and roads.

Final Notes

General Comments:

- Natural erosion can occur due to the type of geologic material (bentonite), however vegetation would aid in stabilizing the site's soils.
- The road was ripped and seeded in fall 2017 and reseeded March 2018. The operator said reseeding would also reseed in the fall 2018. *The haul road and staging area may need to be ripped or drill seeded to insure reseeding is successful.
- BLM will inspect the site in the spring to determine if all reclamation requirements have been completed and the above non-compliance items have been corrected.

Proprietary Information: None

Date inspection shared with CDRMS:

Date inspection shared with Operator:

Images Image 1: First Bentonite Colorado Mined Land Reclaimation Permit NQM77-231 NO TRESPASSING RECLAMATION **IN PROGRESS** KEEP OUT Comment: Final reclamation sign at the entrance of the site Images 2-3:

Comment: Site entrance and access road. Access road leading into the site and the haul roads, trending east to west still lack vegetation. **Image 2:** 11/02/18 inspection and **Image 3:** 06/22/18 inspection



Comment: **Image 4:** Natural drainage located to the west of the access road and **Image 5:** southern view of the access road located at the bottom of the T

Image 6:



Comment: Eastern view of the staging floor; erosion along the eastern portion of the haul road

Images

Image 7-10:



Comment: Water erosion such as riles, gullies and mud cracks along the staging area

Image 11-13:





Comment: Western section of the road leading to the detention pond. Abundant amount of large riles from storm/meltwater runoff

Image 14-15:



Comment: Eastern banks of the detention pond still contain massive gullies. More vegetation is present than the previous inspection. This erosion may be a natural occurrence due to the type of geologic material. **Image 16-18:**





Comment: SE/E view of road near the highwall. The areas north and south of the access roads are adequately vegetated. Image 19-21:





Image 26-28:

