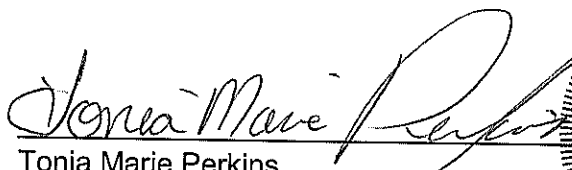


TRAPPER MINING INC.  
CRAIG, COLORADO

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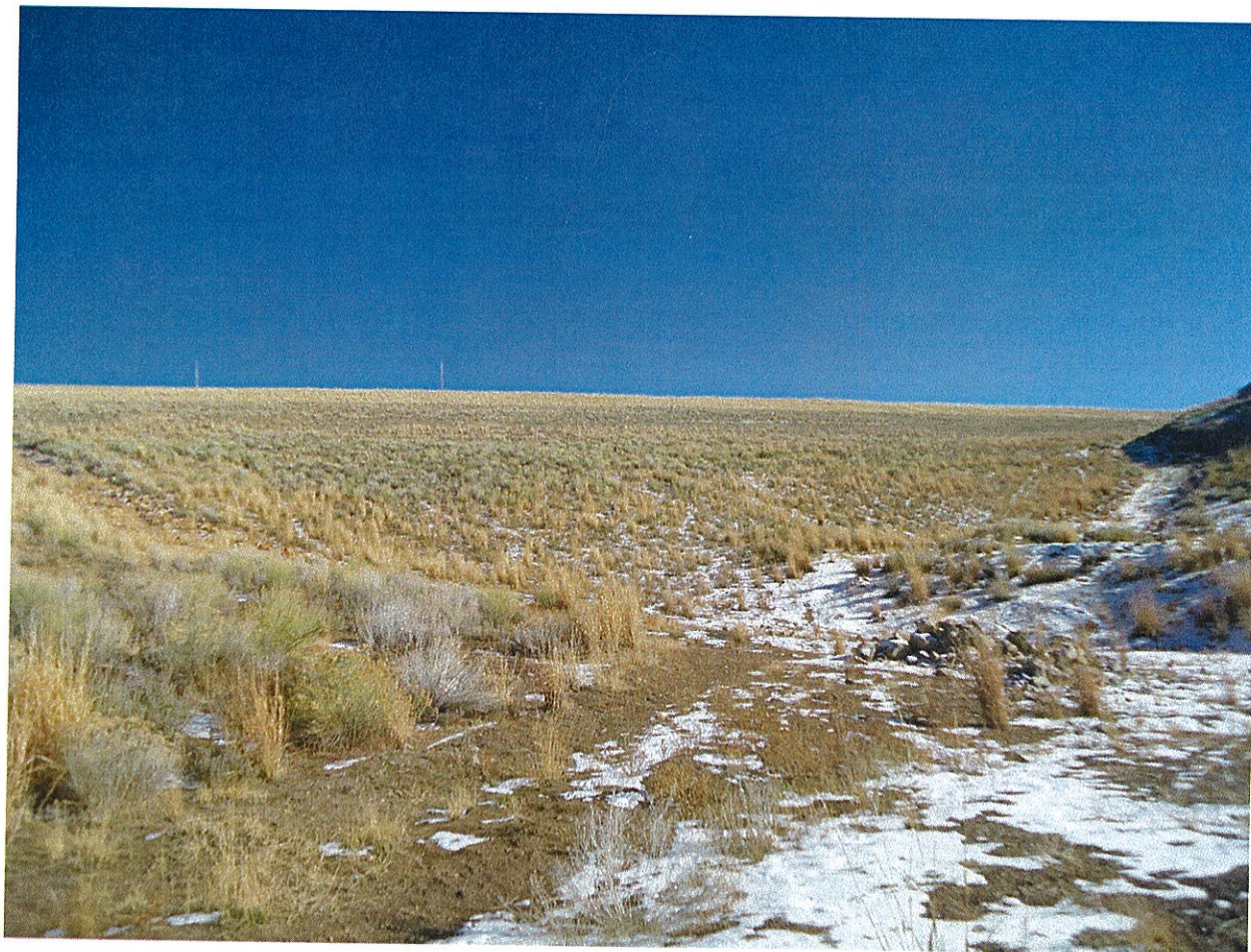
HORSE GULCH FILL  
QUARTERLY FILL CERTIFICATION

I, Tonia Marie Perkins, a Licensed Professional Engineer in the State of Colorado, in accordance with 2CCR407-2, Section 4.09.1(11), have conducted a quarterly inspection of the Horse Gulch Fill construction. This quarterly inspection was conducted on December 3, 2020. The fill was inspected for stability, and no appearance of instability, structural weakness, or other hazardous condition was observed during the inspection. Construction during this quarter has been under my supervision, and to the best of my knowledge and belief, has been consistent with the design approved by the Colorado Division of Reclamation, Mining, and Safety.

  
Tonia Marie Perkins  
CO PE 43864



12/7/2020  
Date



# **Horse Gulch Fill Quarterly Inspection Report**

**Fourth Quarter 2020**

**Trapper Mining Inc.**

**Trapper Mine**


**Craig, Colorado**

# Horse Gulch Fill Quarterly Inspection Report Fourth Quarter 2020

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I certify that this report was prepared by me.

  
Tonia Marie Perkins  
CO PE 43864  
Mining Engineer  
Trapper Mining, Inc.





## 1.0 Introduction

In compliance with Rule 4.09.1 (11) of the *Regulations of the Colorado Mined Land Reclamation Board for Coal Mining*, a quarterly inspection and report on the construction and associated activities of the Horse Gulch Fill (HGF) at Trapper Mine in Craig, Colorado has been completed. The quarterly inspection was conducted on December 3, 2020, by Tonia M. Perkins, a licensed professional engineer in the State of Colorado. Construction activity related to the fill has been consistent with the approved design. Details of this design can be found in Agapito Associates, Inc.'s (AAI) *Horse Gulch Fill Stability Analysis*, dated May 29, 2009.

At the time of the inspection, the snow depth on the fill was between 0 to 4 inches. No appearances of instability, structural weakness, or other hazardous conditions were observed. Both the south west side of the fill and the north east spoil side of the fill were inspected this quarter. The area where cracks were detected on the top south portion of the dump during the first quarter of 2013 inspection was checked. There was no additional cracking found.

The two spots above the 7350' elevation on the south side of the dump that showed some differential settling in the second quarter of 2013 were inspected and there was no additional settling (Photographs 1 and 2).

The area where a spring was discovered during the third quarter 2011 inspection was inspected. During the time of the inspection, the area was covered by snow and there were no signs of running or standing water.



Photograph 1: South Site above the 7350 Bench Elevation (12/3/2020)





*Photograph 2: North Site above the 7350 Bench Elevation (12/3/2020)*

## **2.0 Critical Construction Periods**

### **2.1 Removal of All Organic Material and Topsoil**

Topsoil and organic material removal activities were not conducted during the quarter.

### **2.2 Placement of Underdrainage Systems**

The underdrainage system was completed in the first quarter of 2010; additional work on this system is not anticipated. During the time of the inspection, there was approximately a 0.5 gallons per minute of water flow. (Photograph 3).

### **2.3 Installation of Surface Drainage Systems**

Both the north and south surface drains were inspected (Photographs 4 and 5). At the time of the inspection there was no water flow.

### **2.4 Placement and Compaction of Fill Materials**

There was no placement of material or contour work done on the fill this quarter. All of the required material for the fill has been placed and compacted. It's anticipated there will be no more additional fill material placed on the fill.

Photograph 6 depicts the west facing slope of the fill in the area where the slope of the fill is at 3H: 1V.



December 7, 2020



*Photograph 3: Water from the Underdrainage System (12/3/2020)*



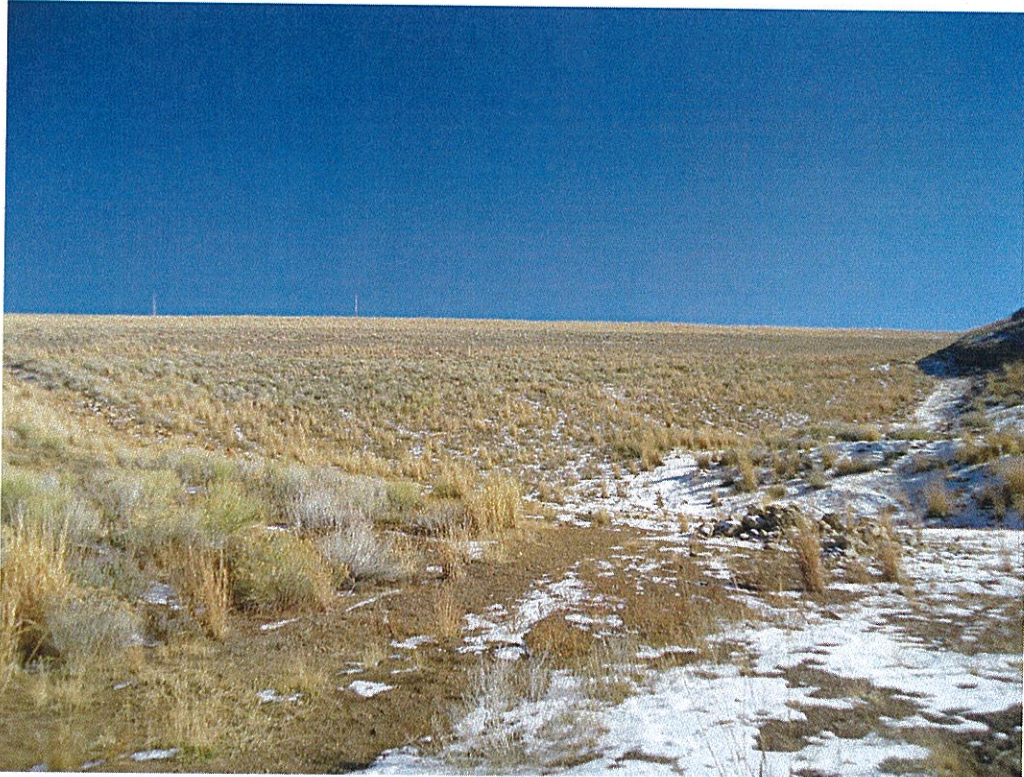
*Photograph 4: North Surface Drain Looking West (10/3/2020)*



December 7, 2020



*Photograph 5: South Surface Drain Looking East (12/3/2020)*



*Photograph 6: West Side Fill 3H: 1V Face Looking East (12/3/2020)*

*December 7, 2020*

## **2.5 Revegetation**

Seeding activities did not occur this quarter. There is one topsoil pile located on the fill. The only area on the fill that requires any topsoil and seeding is located under the topsoil pile.

## **3.0 References**

Agapito Associates, Inc. (2009), "Horse Gulch Fill Stability Analysis" submitted to Trapper Mining, Inc., May 29.

Colorado Division of Minerals and Geology (1980), "Regulations of the Colorado Mined Land Reclamation Board for Coal Mining," revised 9/14/05, Section 4.09.1.