




**MINERALS PROGRAM INSPECTION REPORT**  
**PHONE: (303) 866-3567**

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

<b>MINE NAME:</b> Roberts Quarry	<b>MINE/PROSPECTING ID#:</b> M-1977-301	<b>MINERAL:</b> Limestone (general)	<b>COUNTY:</b> Larimer
<b>INSPECTION TYPE:</b> Surety Release Inspection	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> December 19, 2018	<b>INSP. TIME:</b> 10:20
<b>OPERATOR:</b> Pete Lien & Sons, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Rob Kisner	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Surety Release Requested	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$308,500.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Windy	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> January 3, 2019	

**GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>NA</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>NA</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>NA</u>	

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

## **OBSERVATIONS**

This was an inspection of the Roberts Quarry, Division of Reclamation, Mining and Safety ("DRMS" or "Division") permit number M-1977-301, operated by Pete Lien Sons, Inc. ("PLS" or "Operator"). I, Jared Ebert with the DRMS conducted the inspection. Mr. Rob Kisner with PLS accompanied me during the inspection.

The Roberts Quarry is a 360-acre, 112c mining operation for limestone. On November 19, 2018 the Division received an acreage reduction request application ("AR01") for the release of 80 acres of the permit area. The approximate 15 acres of land affected within the 80 acre parcel has been reclaimed. This inspection was conducted to ascertain if the area was eligible for release. The approved post mining land use is designated as grazing and wildlife habitat.

### **Backfilling and Grading:**

The AR01 area has been backfilled and graded to blend in well with the surrounding topography.

The Operator has recently backfilled and graded a portion of the active mine area located within the Phase IV area on the western side of the site. Evidence of recent slot dozing was observed.

The Operator has backfilled and graded and is revegetating land within the Phase I and V mining area. These areas are depicted on PLS' annual report map submitted for the 2017-2018 reporting year. These areas have been graded to blend in well with the surrounding un-affected land.

### **Financial Warranty:**

The Division holds a financial warranty in the amount of \$308,500.00 in the form of a letter of credit. The Division has evaluated the currently held financial warranty and have found it to be adequate to complete reclamation of the current affected land at this time as well as some additional future mining.

### **Gen. Compliance With Mine Plan:**

Overall, mining appears to be occurring in accordance with the approved mine plan. The Operator is actively mining in the Phase I, IV and V mining areas as approved with Technical Revision No. 5 (TR05). The majority of the affected land is located in a large pit area located in the western most Phase IV area and Phase I area. A large amount of overburden is piled on the south side of the pit in two distinct mine benches. The upper bench appears to be 50 to 75 feet in height on average and the bottom, northern most bench is about 25 feet in height. A highwall daylights to the south in this area.

Two smaller pit excavations are located in what appears to be a portion of the eastern most Phase IV mining area and Phase V mining area. One pit is located on the south side of the access road that consists of a pit with a northern aspect with a near-vertical to vertical 20 to 25 foot highwall that daylights to the north and west. The second pit is located on the north side of the access road in the Phase V area. This is a small pit depression with 1H:1V ratio side slopes that is about 25 feet deep.

### **Reclamation Success:**

The 80 acre AR01 bond release area is located on the west side of the permit area. The affected land within the AR01 area is estimated to be about 15 acres and consisted of former Phase III and II mining areas. The affected land has been backfilled and graded to blend is very well with the adjacent un-affected land. The

graded slopes varied but were overall less than the required 2H:1V ratio. The graded area was stable and well vegetated with a diverse array of native grasses primarily. The landowner appears to have allowed cattle to utilize the area for grazing in 2018 but overall the reclaimed vegetation was dense and well established. It appears the approved post-mining land use as been implemented. Given this, the Division will approve the AR01 application. The Division's decision date will coincide with the date this report is sent. DRMS is required to wait 30 days for an appeal period before the final decision on the acreage reduction will be issued. Approval of the AR01 application will be addressed under a separate cover letter.

Topsoil:

Topsoil is stockpiled in large piles on the north side of the pits. These piles were stable and vegetated.

**PHOTOGRAPHS**



Figure 1. From the west end of the AR01 affected land looking east.



Figure 2. Recently backfilled portion of the western most Phase IV/Phase I pit. Looking north.





Figure 3. Near the center of the Phase IV/V western most pit looking east.



Figure 4. Eastern Phase IV and Phase V pit on the south side of the access road looking south east.



Figure 5. Small pit excavation on the north side of the access road looking northwest.

**Inspection Contact Address**

Michael Goliher  
Pete Lien & Sons, Inc.  
P.O. Box 440  
Rapid City, SD 57709

Enclosure: None

CC: Clint Beck, PLS [CBeck@petelien.com](mailto:CBeck@petelien.com)  
Rob Kisner, PLS [rkisner@petelien.com](mailto:rkisner@petelien.com)