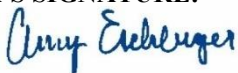




MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

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.

MINE NAME: Randy Shaw Pit	MINE/PROSPECTING ID#: M-1984-134	MINERAL: Sand and gravel	COUNTY: Prowers
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger	INSP. DATE: March 26, 2019	INSP. TIME: 14:20
OPERATOR: Prowers County	OPERATOR REPRESENTATIVE: Mark Dorenkamp	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$0.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: May 6, 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>NA</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>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>N</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 a normal monitoring inspection of the Randy Shaw Pit (Permit No. M-1984-134) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). The operator was represented by Mr. Mark Dorenkamp during the inspection. The site is located approximately 36 miles southeast of Lamar, Colorado in Prowers County. Access to the site is from the east off Co Rd 19. **Photos 1-4** taken during the inspection are included with this report.

This is a 112c operation permitted for 1,920 acres to mine sand and gravel for use in construction and maintenance of county roads. This site was originally permitted under a 110c permit called the Bernard Nine Pit, but was converted to a 112c permit in 1997. The new larger permit area encompasses portions of four sections along Two Butte Creek (Sections 13, 23, 24, and 27 in T27S, R45W of the 6th P.M.). The creek is dry most of the year, only flowing during high precipitation or snow melt events. This is a dry mine operation which does not mine the creek bed itself, but the alluvial deposits adjacent to the creek (point bars). The operation committed to keeping a 300 foot mining setback from the creek, and only mining during the dry season. The maximum mining depth is approximately 10 feet. Mined material is directly hauled off site for use or temporarily stored in the pit. A screening plant will operate on site as needed. Little to no salvageable topsoil is available in the areas mined.

The approved post-mining land use for the site is rangeland. For reclamation, all disturbed slopes will be graded to 3H:1V or flatter. The approved reclamation plan does not discuss topsoil replacement. Disturbed land will be revegetated with a native grass seed mixture. The existing ranch road that enters the pit from Co Rd 19 will remain after reclamation for use by the landowner. However, any haul roads within the pit area will be reclaimed.

The site was not active during the inspection, and no equipment was stored on site. According to the operator, mining activities in recent years have primarily included hauling off from stockpiled material. The operation was approved for intermittent status in 2014 to operate for less than 180 days per year. A permit sign was posted at the main site entrance off Co Rd 19. The operator has stated the entire permit area is delineated with fencing. However, the Division only inspected the active disturbance area in Section 13 which appears to be limited to the original 110c permit area (see enclosed Google Earth image of site). This disturbance consists of a circular excavation north of the creek, which is advancing very slowly to the west/southwest. The pit wall is approximately 1,400 feet in length, with slope gradients of 3H:1V to 5H:1V. A few material stockpiles remain on the pit floor. Native grasses, forbs, and shrubs have volunteered throughout the pit area. No standing water was observed on the pit floor besides a few small puddles from recent snow melt. The Division estimates the active pit to be located a minimum of 380 feet from the creek, which is greater than the 300 foot setback committed to in the permit. A washout with steep slopes exists directly east of the mine site which appears to have been created by water draining from a nearby draw (located northeast of the mine site). This area does not appear to have been disturbed by the operation and therefore, was not included in the disturbed area estimate.

While the permit area is very large in size, the operator is approved to disturb no more than 10 acres at any time. The Division estimates current disturbance to consist of 9.6 acres, which is slightly less than the maximum allowed. Prior to disturbing more than 10 acres, the operator will need to either complete final reclamation of current disturbance, or submit a Technical Revision to increase the maximum allowed disturbed acreage.

The operator appears to be following the approved mining and reclamation plans. No problems were observed.

This concludes the report.

PHOTOGRAPHS



Photo 1. View looking west from access road across northern portion of active pit. Note pit walls graded 3H:1V or flatter and stable.



Photo 2. View looking southwest from access road across central portion of active pit. Note material stockpiles stored on pit floor (in background).



Photo 3. View looking southeast from haul road across eastern portion of active pit. Note native grasses, forbs, and shrubs volunteering across site.



Photo 4. View looking east showing natural slope created by drainage of nearby draw and not by the operation.

Inspection Contact Address

Mark Dorenkamp
Prowers County
109 E. Sherman St.
Lamar, CO 81052

Encl: Google Earth image of site

CC: Michael Cunningham, DRMS

M1984-134 / Randy Shaw Pit / Prowers County

Blue Outline = 9.6 acres = Approximate Disturbed Area
Approved Permit Area = 1,920 acres (not shown)
(Image data from 6/12/2017)

