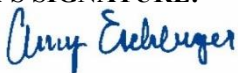




MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

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: Earl-Hoffman-Reyher Pit #3	MINE/PROSPECTING ID#: M-1991-086	MINERAL: Sand and gravel	COUNTY: Bent
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger	INSP. DATE: March 7, 2019	INSP. TIME: 15:30
OPERATOR: Bent County	OPERATOR REPRESENTATIVE: Curtis Sniff, Kevin Vanegmond	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>Y</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>Y</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 Earl-Hoffman-Reyher Pit #3 (Permit No. M-1991-086) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). The operator, Bent County was represented by Curtis Sniff and Kevin Vanegmond during the inspection. The site is located approximately 4.5 miles southeast of McClave, Colorado in Bent County. Access to the site is from the north off of Co Rd JJ, and by passing through an adjacent mine site permitted by another operator under Permit No. M-1985-014. The site is situated at the top of a gravel terrace just north of the Arkansas River. **Photos 1-16** taken during the inspection are included with this report.

This is a 112c operation permitted for 23.80 acres to mine sand and gravel (see enclosed Google Earth image of site). The county took over the permit from Carder, Inc in 1996. At that time, much of the eastern half of the permit area had been mined, and large material stockpiles remained on site. The mining plan includes mining the site in three phases at a maximum depth of approximately 16 feet. Material processing will occur in the western portion of the site as needed using mobile equipment. Topsoil is thin throughout much of the site, as the gravel deposit is exposed at the surface in many areas. Any salvaged topsoil will be stored at the western edge of the permit area. A draw exists at the southern edge of the permit area which will not be mined by the operation.

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 disturbed land will be retopsoiled at a depth of approximately 5 inches, and the land will be revegetated with a native grass seed mixture recommended by the Soil Conservation Service. It appears the haul road that loops through the western portion of the site will also be reclaimed.

The site was not active during the inspection and no equipment was stored on site. The operation was approved for intermittent status in 2013 to operate for less than 180 days per year. According to the operator, recent activities have primarily included hauling off from stockpiled material with very minor excavation. A permit sign was posted at the main site entrance. The corners of the permit boundary were marked by T-posts with tires around them. The active pit is located in the western portion of the permit area. A highwall approximately 10 feet in height and 630 feet in length exists along the northwestern edge of the permit area. The highwall daylights to the south with slope gradients of near vertical to 1H:1V. Several material stockpiles of various sizes are scattered across the pit floor, including a large sand stockpile stored at the southern edge of the pit. Topsoil is stored at the far western edge of the permit area. The topsoil stockpile appeared to be stable with good grass cover. An old grassed over overburden stockpile is stored at the north-central edge of the site.

Mining is complete in the eastern half of the permit area. Native grasses, forbs, and some shrubs have volunteered across this area. There are a few steeper slopes in this portion of the permit area that will need to be graded to 3H:1V and seeded for reclamation. The old pit at the far eastern edge of the site was graded to the approved final configuration and well vegetated. A low-lying earthen berm surrounds the perimeter of this area, which helps control erosion on its side slopes. The draw at the southern edge of the permit area appears to have been undisturbed by the operation.

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 southeast across active pit in western portion of permit area. Note several material stockpiles stored on pit floor (in background).



Photo 2. View looking north at highwall along northern edge of active pit. Highwall is approximately 10 feet in height with slopes of near vertical to 1H:1V.



Photo 3. View looking east across highwall along northern edge of active pit. Highwall is approximately 10 feet in height with slopes of near vertical to 1H:1V.



Photo 4. View looking south at several material stockpiles stored in active pit area.



Photo 5. View looking east showing material stockpile stored in active pit area.



Photo 6. View looking south showing large topsoil stockpile stored at western edge of permit area, stable with grass cover.



Photo 7. View looking west across southern edge of permit area. Note Arkansas River at left. Also note large sand stockpile stored at southern edge of active pit, visible in background.



Photo 8. View looking south across reclaimed central portion of permit area. Some steeper slopes in this area will need grading to 3H:1V and reseeding for reclamation.



Photo 9. View looking west across reclaimed central portion of permit area. Some steeper slopes in this area will need grading to 3H:1V and reseeding for reclamation.



Photo 10. View looking north across reclaimed central portion of permit area.



Photo 11. View looking west across reclaimed central portion of permit area.



Photo 12. View looking east across southern edge of permit area, showing T-post with tire around it (circled) marking southern boundary.



Photo 13. View looking west across reclaimed eastern portion of permit area. Note small rock pile left in this area (at top right).



Photo 14. View looking south across reclaimed eastern portion of permit area.



Photo 15. View looking south at southeastern corner of permit boundary marked by T-post with tire around it (circled).



Photo 16. View looking west across reclaimed eastern portion of permit area from top of low-lying berm.

Inspection Contact Address

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Encl: Google Earth image of site

CC: Michael Cunningham, DRMS

M1991-086 / Earl-Hoffman-Reyher Pit #3 / Bent County

Red Outline = 23.80 acres = Approved Permit Area (approximate location based on permit maps)
(Image data from 6/12/2017)

