



**COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY**  
**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> Enderson Pit	<b>MINE/PROSPECTING ID#:</b> M-1979-111	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Lincoln
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Amy Eschberger	<b>INSP. DATE:</b> December 10, 2015	<b>INSP. TIME:</b> 11:20
<b>OPERATOR:</b> Lincoln County	<b>OPERATOR REPRESENTATIVE:</b> John DeWitt, Mark McHone	<b>TYPE OF OPERATION:</b> 110c - Construction Limited Impact	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$0.00
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> <i>Amy Eschberger</i>	<b>SIGNATURE DATE:</b> December 29, 2015

**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>Y</u>	(SF) PROCESSING FACILITIES----- <u>NA</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>	(SW) STORM WATER MGT PLAN---- <u>Y</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	(ST) STIPULATIONS----- <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 a normal monitoring inspection of the Enderson Pit (Permit No. M-1979-111) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). Mr. John DeWitt and Mr. Mark McHone represented the operator, Lincoln County during the inspection. The site is located approximately 25 miles northeast of Genoa, Colorado. Access to the site is off of Co Rd 43. The site is situated on the South Fork of the Arickaree River, which only flows during heavy storm events. When carrying water, the river flows eastward. The affected land is owned by Ivan Enderson. The approved post-mining land use is rangeland.

This is a 110c operation permitted for 6.3 acres (see enclosed Google Earth image of site) to mine sand and gravel for use in county road maintenance. This is an intermittent operation. The approved permit area includes a section of the Arickaree River and a stockpiling area located north of the river. Material extracted from the river bed is pushed up the northern bank and stored there for load out. The approved reclamation plan for this site includes grading all disturbed slopes to a 3H:1V or flatter gradient, scarifying the disturbed land outside of the river bed, and revegetating that land with a rangeland seed mixture. Only the portion of the haul road inside the permit area is to be reclaimed. No topsoil is required for reclamation since no extraction occurs outside of the river bed.

A clay stockpile was left along the southern river bank (inside the permit area; **Photo 1**) by the previous operator, Colorado Department of Transportation (CDOT). The Division approved a permit transfer from CDOT to Lincoln County on 09/28/2012 (Revision No. SO-01). In the inspection report for 02/18/2011, the Division noted that to leave the clay stockpile after reclamation, the operator would need to revise the approved reclamation plan. On 03/30/2015, the Division approved Technical Revision No. 2 (Revision No. TR-02) submitted by the current operator, which addressed leaving the clay stockpile for the landowner's use. This revision updated the mining plan map and reclamation plan map to more accurately define the permit boundary using GPS coordinates. The revision was submitted as part of the county's recent initiative to make sure all of their permitted sites are in compliance with regards to properly delineating the approved permit boundaries.

At the time of the inspection, the weather was partly cloudy and breezy, and the ground was dry. No standing water was observed on site. A permit sign was posted at the main site entrance off of Co Rd 43 (**Photo 2**). The permit boundary was properly delineated with metal posts (**Photo 3**). The site was not active at the time of the inspection, and no equipment was present on site. However, according to the operator, this site is active every year, which is in compliance with its intermittent status.

The Division observed a shallow depression (approximately one foot in depth) in the river bed where material was pushed up to the northern bank (**Photos 4 and 5**). Outside of this depression, the river bed appeared to be relatively flat and even. Very little stockpiled material remained along the northern bank (**Photos 6 and 7**). The stockpiling area located north of the river had some native grasses (primarily blue grama and buffalograss) volunteering across the disturbed land (**Photo 8**). The clay stockpile stored along the southern river bank appeared to be stable with vegetative cover (see **Photo 1**).

The river channel upstream (**Photo 9**) and downstream (**Photo 10**) of the mining area appeared to be preserved, showing no evidence of erosion. Overall, the site appeared to be stable. No problems were observed.

## PHOTOGRAPHS



**Photo 1.** View looking south across river channel at clay stockpile stored along southern river bank. Note stockpile is stable with vegetative cover.



**Photo 2.** View of permit sign posted at main site entrance off of Co Rd 43.





**Photo 3.** View looking south, showing metal post marking northwestern corner of permit boundary.



**Photo 4.** View looking north, showing shallow depression left in river bed (at right) where material was pushed up northern river bank (at left).





**Photo 5.** View looking upstream in river channel (west), showing shallow depression left in river bed (at center) where material was excavated.



**Photo 6.** View looking northwest across river channel, showing material stockpiled along northern river bank (indicated) where it was pushed up from the river bed.





**Photo 7.** View of material stockpiled along northern river bank where it was pushed up from the river bed.



**Photo 8.** View looking east across stockpiling area located north of river. Note native grasses volunteering across the disturbed land.





**Photo 9.** View looking upstream (west) from mining area, showing river channel appears to be preserved with no evidence of erosion.



**Photo 10.** View looking downstream (east) from mining area, showing river channel appears to be preserved with no evidence of erosion.

**Inspection Contact Address**

John DeWitt  
Lincoln County  
P.O. Box 39  
Hugo, CO 80821

Enclosure(s): Google Earth image of site showing approved permit area

CC: Wally Erickson, DRMS



# M1979-111 / Enderson Pit / Lincoln County

Red Outline = 6.30 acres = Approved Permit Area



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