



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: Barnett Pit	MINE/PROSPECTING ID#: M-1991-074	MINERAL: Gravel	COUNTY: Kiowa
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger	INSP. DATE: October 10, 2018	INSP. TIME: 12:50
OPERATOR: Kiowa County	OPERATOR REPRESENTATIVE: Jack Howard	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: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: November 14, 2018	

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>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</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>N</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>N</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 Barnett Pit (Permit No. M-1991-074) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). Mr. Jack Howard represented the operator during the inspection. The site is located approximately 10 miles southwest of Eads, Colorado in Kiowa County. Access to the site is from the south off Co Rd N. **Photos 1-10** taken during the inspection are included with this report.

This is a 112c operation permitted for 35 acres to mine sand and gravel for use in county road construction and maintenance (see enclosed mining plan map, approved in 2006 with Amendment No. 2). No material processing occurs on site. Mined material is directly hauled off site for use or temporarily stockpiled on the pit floor until needed. The site was generally mined from southeast to northwest. An area of pre-law disturbance is located east of the approved permit area. As long as the operation does not re-disturb this area, it does not need to be included in the permit area. The operation committed to maintaining a 100 foot mining setback from the property fence present to the north.

The approved post-mining land use for the site is rangeland. Reclamation of the site will include grading all disturbed slopes to 3H:1V or flatter, replacing approximately 6 inches of topsoil across disturbed land, and seeding the land with a native grass mixture (see enclosed reclamation plan map, approved in 2006 with Amendment No. 2).

The site was not active during the inspection. However, annual reports submitted by the operator indicate the site is active every year. A permit sign was posted at the main site entrance. The permit boundary was delineated with berms. Active mining is taking place at the northern edge of the permit area. Pit highwalls are approximately 15-20 feet in height with near vertical slopes. Mined material was stockpiled on the pit floor. Salvaged topsoil was stored along the edges of the pit. The far northern strip of land within the permit area (approximately 3-1/2 to 4 acres in size) has been stripped of topsoil in preparation of pit advancement. This topsoil is stockpiled along the northern edge of the permit boundary, and is located 100 feet from the property fence to the north.

The pit floor had some ponded water during the inspection due to a recent storm event. The operator should be aware, the Division of Water Resources requires that all stormwater contained on site either infiltrate into the ground or be released to the natural stream system within 72 hours, or all work must cease until a substitute water supply plan or augmentation plan is obtained.

Disturbed areas located in the southern portion of the site were graded to slopes of 3H:1V or flatter, retopsoiled, and seeded in 2011/2012. Vegetative cover in these areas consists of a mixture of native grasses, forbs, and some annual weeds. Some portions of the reclaimed slopes have less vegetative cover at this time and may require reseeding.

The operation appears to be following the approved mining plan. However, the Division does recommend the operation exercise caution in the active mining area as current disturbances are very close to the eastern and western permit boundaries. No problems were observed.

This concludes the report.

PHOTOGRAPHS



Photo 1. View looking north across active pit. Note pit floor holding some water during inspection due to recent storm event.



Photo 2. View looking south, showing berm marking western permit boundary.



Photo 3. View looking east across active pit from its western edge. Note pit floor holding some water during inspection due to recent storm event.



Photo 4. View looking east across active pit area, showing mined material stockpiled on pit floor (in background).



Photo 5. View looking northwest across strip of land located north of active pit where topsoil was stripped in preparation for pit advancement (some years ago judging by the grasses volunteering into the area). The salvaged topsoil is stored along the northern permit boundary (visible in background).



Photo 6. View looking southeast at topsoil stockpile stored along northern permit boundary, which appeared to be stable with some vegetative cover.



Photo 7. View looking northwest across reclaimed southern portion of site. Slopes are graded to 3H:1V or flatter. Vegetative cover consists of native grasses, forbs, and annual weeds. Some portions of slopes may need to be reseeded.



Photo 8. View looking north across reclaimed southern portion of site. Slopes are graded to 3H:1V or flatter. Vegetative cover consists of native grasses, forbs, and annual weeds. (Active mining area visible in background)



Photo 9. View looking north across western reclaimed highwall. Slopes are graded to 3H:1V or flatter. Vegetative cover consists of native grasses, forbs, and annual weeds. Some portions of slopes may need to be reseeded.



Photo 10. View looking southeast across reclaimed southern portion of site. Slopes are graded to 3H:1V or flatter. Vegetative cover consists of native grasses, forbs, and annual weeds. Some portions of slopes may need to be reseeded.

Inspection Contact Address

Jack Howard
Kiowa County
P.O. Box 100
Eads, CO 81036

Enclosure: Mining Plan Map, approved in 2006 with Amendment No. 2
Reclamation Plan Map, approved in 2006 with Amendment No. 2

CC: Michael Cunningham, DRMS

HAIR SECTION LINE

Reclamation Plan

Scale 1" = 200'

BARNETT'S PIT

After Mining Process Is Completed
Working from Southeast to Northwest,
We will PLACE THE TOP SOIL
INTO PIT AT A AVERAGE Depth of 12 inches.
We will make THE SLOPES 3 to 1 OR LESS.

RECEIVED

JUN 01 2006

Division of Minerals and Geology

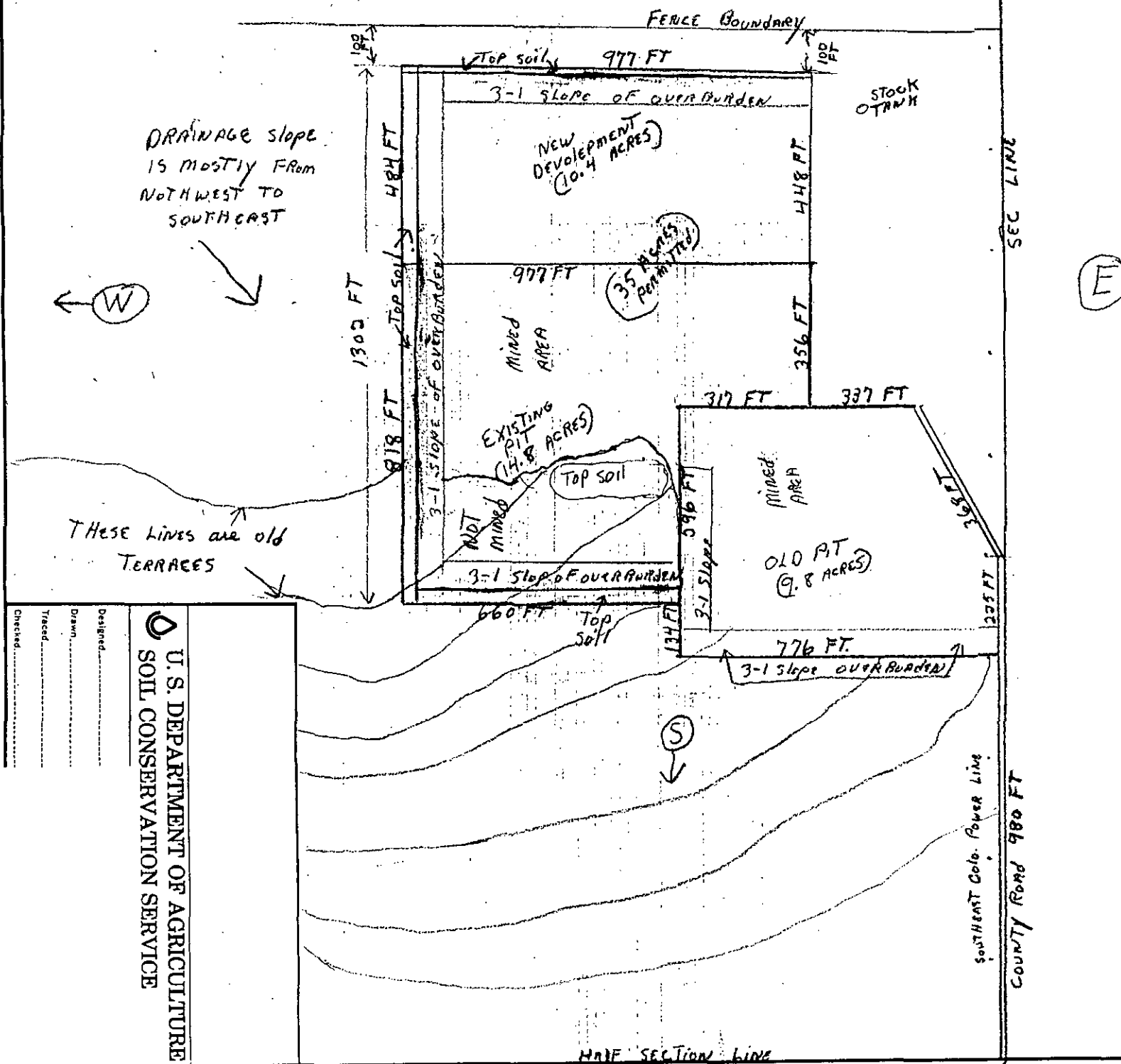
ESTIMATED COSTS FOR RECLAMATION

230 hrs DOZER = 2,300.00
230 hrs LOADER = 1,610.00
110 hrs GRADER = 6,600.00
Tillage & PLANTING = 500.00
SEED = 327.00
550 MAN HOURS = 5,500.00

16,837.00 using 2006 Costs + wages

PIT DEPTH

ESTIMATED
15 TO 20 FT DEEP



U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE