

July 29, 2008

Mr. Murray J. Balk, Chief
Surface Mining Section
Kansas Dept. of Health and Environment
4033 Parkview Drive
Frontenac, KS 66763

Re: Turner II Reclamation Project (KS-0065)
Linn County, KS,

Dear Murray:

I have reviewed the information that you sent to the Kansas Geological Survey concerning a proposed reclamation site titled the "Turner II Reclamation Project (KS-0065)", located mainly in east-central Linn County, Kansas. The proposed reclamation area (KS-0065) is located in a small part (approx. 5 acres) of the E/2, Sec. 25, T. 28 S., R. 25 E., Crawford Co., Kansas, and W/2, Sec. 7, T. 39 N., R. 33 W, Bates County, Missouri. This small area overlies portions of both states along the Stateline road and involves past strip-mine land disturbed by mining of the Mulberry coal. This coal bed is part of the Bandera Shale Formation of the Marmaton Group of rocks of Middle Pennsylvanian age.

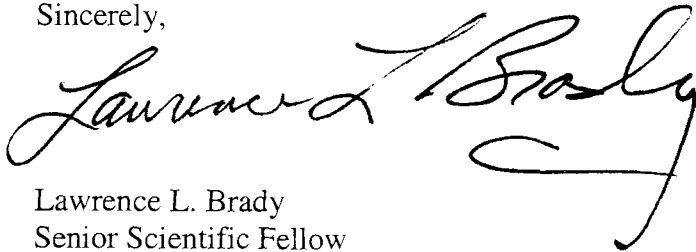
The proposed reclamation efforts would correct problems created by past strip-mining of the Mulberry coal, and the deterioration and failure of a large corrugated metal pipe placed during earlier reclamation efforts about 17 years ago. This reclamation effort involves additional earthwork from the earlier reclamation effort, and the replacement of the metal pipe with a plastic pipe of similar diameter size.

There are numerous coal beds underlying the Mulberry coal that are/or were extensively mined in southeast Kansas by surface and underground mining methods. However, all of the underlying coal beds are too deep for surface mining methods, and the Weir-Pittsburg coal that was extensively mined by both surface and underground methods in Crawford and Cherokee counties was never mined within Linn County—apparently due to depth, and coal quality and thickness. Basically, any future coal mining in the general project area would be of Mulberry coal, and that mining would be well outside the reclamation area and would not disturb the area outlined for reclamation of the proposed project.

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of the reclamation of this property.

Best wishes on completion of the reclamation project.

Sincerely,

A handwritten signature in cursive script, reading "Lawrence L. Brady". The signature is fluid and elegant, with a large, sweeping "L" and a long, horizontal stroke at the end.

Lawrence L. Brady
Senior Scientific Fellow



Kathleen Sebelius, Governor
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH
AND ENVIRONMENT

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Division of Environment

July 16, 2008

Dr. William E. Harrison, Director
Kansas Geological Survey
University of Kansas
1930 Constant Ave. - Campus West
Lawrence, Kansas 66047-3726

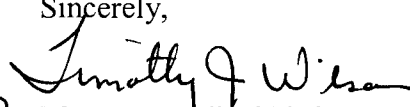
Re: Turner II Reclamation Project
Linn County, Kansas
KS-0065

Dear Dr. Harrison:

The Kansas Department of Health & Environment, Surface Mining Section, is currently performing design services for the reclamation of the Turner II reclamation project (KS-0065). The project consists of one area located in Section 25, T21S, R25E in Linn County, Kansas. Please refer to the attached map for the site location. Since the site borders on the State line, a similar request has been made to the Missouri Division of Geology and Land Survey.

Reclamation of the site is being considered by the Surface Mining Section to minimize the hazards typically associated with abandoned mining operations. Attached is a project description that briefly discusses each area. We are requesting a letter from the Kansas Geological Survey stating whether or not it is considered likely that the area of this project will be mined in the future.

We would appreciate a reply at your earliest convenience. If you have any questions, please feel free to contact us at (620) 231-8540.

Sincerely,

for Murray J. Balk, Chief
Surface Mining Section

Project file: B-6(1)

Turner II Reclamation Project (KS-0065)
Linn County, Kansas
Project Description
July 2008

The Turner II Reclamation Project is an Abandoned Mine Land Project located in Section 25, Township 21 South, Range 25 East, Linn County, Kansas. As the project is situated on the State Line, the adjoining Missouri location is Section 7, Township 39 North, Range 33 West, Bates County. The project site is approximately 4½ east of Pleasanton, Kansas or 1½ miles west of Worland, Missouri as shown on the accompanying location map. The reclamation site contains tracts owned by private individuals and includes a portion of the county road located on the State Line.

In 1991, construction work was undertaken to address dangerous highwalls that exposed the traveling public to safety hazards along the Kansas side of the State Line. A portion of a strip mining pit was backfilled and safety berms were installed in the remaining areas. In order to complete the installation of the safety berms, an existing corrugated metal pipe (CMP) culvert had to be extended.

In the seventeen years since the initial reclamation work, the CMP that was extended has now corroded and failed. The failure caused a portion of the safety berm to be washed out and the resulting erosion cut back into the county road creating a hazard.

The goal of the reclamation is to address the safety hazards while minimizing the impacts to existing vegetation and wildlife and aquatic habitats. The reclamation project is being administered by the Kansas Department of Health and Environment (KDHE), Surface Mining Section (SMS). It is being funded by the U.S. Department of Interior's Office of Surface Mining Reclamation and Enforcement through grants to KDHE.

Reclamation at the site calls for removing the existing corroded CMP and replacing with a similarly sized plastic pipe. In order to prevent erosion at the pipe outlet, a riprap plunge pool will be installed. The project will involve using local borrow to rebuild and restore the safety berm. All disturbed areas will be seeded and mulched except disturbances to the State Line road which will be repaired with appropriately sized road rock. A total of less than 5 acres will be disturbed on the project.

The disturbance on the area is to be limited as much as possible. Since the work will also involve working within the right of way of the State of Missouri, appropriate clearances from Missouri will be obtained. Application has been made with the Kansas Department of Agriculture, Division of Water Resources (DWR) for the culvert installation based on the size of the upstream watershed.

This Project will mainly benefit the public through the abatement of safety hazards along the State Line road near Pleasanton, Kansas and Worland, Missouri. The estimated construction cost is \$35,000.



KDHE - Surface Mining Section, Program Services

For: NEPA Compliance

Description: PROJECT LOCATION MAP - Worland, MO Quad.
In Kansas: E/2-S25; T21S; R25E, Linn County
In Missouri: W/2-Sec 7, T39N, R33W, Bates County

Project: Turner II Project Maintenance (KS-0065)

Date: July 11, 2008

By: FCF (mns modified)

Drawing: plstnqud.dwg; lincco_map