

January 27, 2020

Mr. Leigh D. Simmons
Colorado Division of Reclamation, Mining and Safety
Office of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203

**Re: Mountain Coal Company, LLC, West Elk Mine; Permit No. C-1980-007;
Quarterly Summary of Subsidence Observations; 4th Quarter 2019**

Dear Mr. Simmons:

Mountain Coal Company, LLC (MCC) began longwall mining the E-Seam in December 2008. MCC has completed longwall mining of longwall panels E1 through E8 and began preparations for moving the longwall equipment to panel LWSS1. At the end of 2019, MCC had mined out longwall panel E8 and was preparing to seal this panel.

There were no stock ponds within twice the angle-of-draw of the mined area during this quarter, and longwall mining did not occur within one mile of Monument Dam. Routine monthly inspections were conducted and inspection reports for Forest Service Roads, Stock Ponds, and Monument Dam are included with this letter report to document the inspection findings.

Please don't hesitate to contact me at (970) 929-2238 or by e-mail should you have questions regarding this submittal.

Sincerely,



Kathleen G. Welt
Environmental Engineer III

Enclosures: Monument Dam Inspections – Fourth Quarter 2019
US Forest Service Road Inspections – Fourth Quarter 2019
Stock Pond Inspections – Fourth Quarter 2019

cc: D. Gray - USFS
R. Munz – MCC
J. Poulos - MCC
Availability of Records File

Forest Service Roads
Inspection Form

Date: 10/23/2019

Time: 9 AM

Name of Inspector: Robert Munz

Current Panel and XC Being Mined: LW E8 Approximately 9xc in E8 H6

Road(s) Being Inspected: Dry Fork

Yes No

- ☐ ☒ Is the Forest Service road within the projected angle of draw of subsidence? If yes, which road(s):

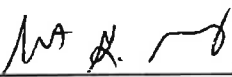
- ☐ ☒ Are there visible surface cracks on the road? If yes, describe (location, width, length, etc.):

- ☐ ☒ Is there any recent evidence of potential subsidence induced slope failure? If yes, describe:

- ☐ ☒ Are there any other potentially damaging, subsidence induced features on or near the road? If yes, describe:

- ☐ ☒ Is mitigation needed? If yes, list suggestions:

Notes:

Signature of Inspector: 

*** If any potential subsidence induced features are observed that could cause harm to the public or operations, notify John Poulos or Kathy Welt immediately.**

Forest Service Roads
Inspection Form

Date: 11/18/2019

Time: 11 AM

Name of Inspector: Robert Munz

Current Panel and XC Being Mined: LUEB Approximately 7 XC in E8 H6

Road(s) Being Inspected: Dry Fork

Yes No

☐ ☒ Is the Forest Service road within the projected angle of draw of subsidence? If yes, which road(s):

☐ ☒ Are there visible surface cracks on the road? If yes, describe (location, width, length, etc.):

☐ ☒ Is there any recent evidence of potential subsidence induced slope failure? If yes, describe:

☐ ☒ Are there any other potentially damaging, subsidence induced features on or near the road? If yes, describe:

☐ ☒ Is mitigation needed? If yes, list suggestions:

Notes:

Signature of Inspector: RA R. [Signature]

* If any potential subsidence induced features are observed that could cause harm to the public or operations, notify John Poulos or Kathy Welt immediately.

Forest Service Roads
Inspection Form

Date: 12/30/2019

Time: 12 PM

Name of Inspector: Robert Munz

Current Panel and XC Being Mined: LW E8, Approximately 3xc in E8 1+6

Road(s) Being Inspected: Dry Fork

Yes No

☐ ☐ Is the Forest Service road within the projected angle of draw of subsidence? If yes, which road(s):

☐ ☐ Are there visible surface cracks on the road? If yes, describe (location, width, length, etc.):

☐ ☐ Is there any recent evidence of potential subsidence induced slope failure? If yes, describe:

☐ ☐ Are there any other potentially damaging, subsidence induced features on or near the road? If yes, describe:

☐ ☐ Is mitigation needed? If yes, list suggestions:

Notes: Road Inaccessible due to snow accumulations & road conditions

Signature of Inspector: MA H. [Signature]

* If any potential subsidence induced features are observed that could cause harm to the public or operations, notify John Poulos or Kathy Welt immediately.

Monument Dam Inspection Form

Date: 10/24/2019

Time: 2:30 PM

Name of Inspector: Robert Munz

Current Panel Being Mined: LW E8

☐ Weekly Inspection ☒ Monthly Inspection

Yes No

- ☐ ☒ Is mining within 1 mile of Monument Dam?
- ☐ ☒ Are there visible surface cracks on the dam?
If yes, indicate length and size of crack. _____.
- ☐ ☒ Is there evidence of subsided areas on or around the dam?
If yes, indicate where and degree. _____.
- ☐ ☒ Are there bulges on the dam?
If yes, indicate where and degree. _____.
- ☐ ☒ Are there signs of seeps on the dam?
If yes, indicate where and estimated flow. _____.
- ☐ ☒ Are there any other potentially damaging features on the dam?
If yes, describe. _____.
- ☐ ☒ Are there any recent evidences of slope failure on the landside south of the dam (perform visual inspection and data analysis of inclinometers)?
If yes, describe. _____.

Notes:

Signature of Inspector: MA L. Munz

Inspections are performed under the direction of John Poulos, P.E.

If cracks or other potentially damaging features occur, notify John Poulos or Kathy Welt immediately.

Monument Dam Inspection Form

Date: 11/18/2019

Time: 12 PM

Name of Inspector: Robert Munz

Current Panel Being Mined: LE8

☐ Weekly Inspection ☒ Monthly Inspection

Yes No

- ☐ ☒ Is mining within 1 mile of Monument Dam?
- ☐ ☒ Are there visible surface cracks on the dam?
If yes, indicate length and size of crack. _____.
- ☐ ☒ Is there evidence of subsided areas on or around the dam?
If yes, indicate where and degree. _____.
- ☐ ☒ Are there bulges on the dam?
If yes, indicate where and degree. _____.
- ☐ ☒ Are there signs of seeps on the dam?
If yes, indicate where and estimated flow. _____.
- ☐ ☒ Are there any other potentially damaging features on the dam?
If yes, describe. _____.
- ☐ ☒ Are there any recent evidences of slope failure on the landside south of the dam (perform visual inspection and data analysis of inclinometers)?
If yes, describe. _____.

Notes:

Signature of Inspector: RA R. mb

Inspections are performed under the direction of John Poulos, P.E.

If cracks or other potentially damaging features occur, notify John Poulos or Kathy Welt immediately.

Monument Dam Inspection Form

Date: 12/30/2019

Time: 12 PM

Name of Inspector: Robert Munz

Current Panel Being Mined: E8 H6

☐ Weekly Inspection ☒ Monthly Inspection

Yes No

- ☐ ☐ Is mining within 1 mile of Monument Dam?
- ☐ ☐ Are there visible surface cracks on the dam?
If yes, indicate length and size of crack. _____.
- ☐ ☐ Is there evidence of subsided areas on or around the dam?
If yes, indicate where and degree. _____.
- ☐ ☐ Are there bulges on the dam?
If yes, indicate where and degree. _____.
- ☐ ☐ Are there signs of seeps on the dam?
If yes, indicate where and estimated flow. _____.
- ☐ ☐ Are there any other potentially damaging features on the dam?
If yes, describe. _____.
- ☐ ☐ Are there any recent evidences of slope failure on the landside south of the
dam (perform visual inspection and data analysis of inclinometers)?
If yes, describe. _____.

Notes: Dam not accessible due to road conditions and snow accumulations.

Signature of Inspector: Mr. R. Munz

Inspections are performed under the direction of John Poulos, P.E.

If cracks or other potentially damaging features occur, notify John Poulos or Kathy Welt immediately.

Stock Pond
Inspection Form

Date: 10/23/2019

Time: 9:30 AM

Name of Inspector: Robert Munz

Current Panel and XC Being Mined: LWE8 Approximately 9XC in E8 H6

Stock Pond(s) Being Inspected: DF30 & DF35

Yes No

☐ ☒ Is the stock pond within twice the projected angle of draw of subsidence? If yes, which pond(s):

☐ ☒ Are there visible surface cracks in or near the stock pond? If yes, describe (location, width, length, etc.):

☐ ☒ Is there any evidence of potential subsidence induced water loss? If yes, describe:

☐ ☒ Is there water in the pond? If yes, describe:

☐ ☒ Is mitigation needed? If yes, list suggestions:

Notes:

Signature of Inspector: *Robert Munz*

*** If any potential subsidence induced features are observed that could cause harm to the pond, notify John Poulos or Kathy Welt immediately.**

Stock Pond
Inspection Form

Date: 11/18/2019

Time: 11:30 AM

Name of Inspector: Robert Munz

Current Panel and XC Being Mined: LUE8 Approximately 7 XC in E6 H6

Stock Pond(s) Being Inspected: DF 30 & DF 35

Yes No

☐ ☒ Is the stock pond within twice the projected angle of draw of subsidence? If yes, which pond(s):

☐ ☒ Are there visible surface cracks in or near the stock pond? If yes, describe (location, width, length, etc.):

☐ ☒ Is there any evidence of potential subsidence induced water loss? If yes, describe:

☐ ☒ Is there water in the pond? If yes, describe:

☐ ☒ Is mitigation needed? If yes, list suggestions:

Notes:

Signature of Inspector: RM

* If any potential subsidence induced features are observed that could cause harm to the pond, notify John Poulos or Kathy Welt immediately.

Stock Pond
Inspection Form

Date: 12/30/19

Time: 12:00

Name of Inspector: Robert Munz

Current Panel and XC Being Mined: LW E8, Approximately 3XC in E8 H.G.

Stock Pond(s) Being Inspected: DF30 & DF35

Yes No

☐ ☐ Is the stock pond within twice the projected angle of draw of subsidence? If yes, which pond(s):

☐ ☐ Are there visible surface cracks in or near the stock pond? If yes, describe (location, width, length, etc.):

☐ ☐ Is there any evidence of potential subsidence induced water loss? If yes, describe:

☐ ☐ Is there water in the pond? If yes, describe:

☐ ☐ Is mitigation needed? If yes, list suggestions:

Notes:

Ponds currently inaccessible due to snow accumulations and road conditions.

Signature of Inspector: _____

Robert Munz

* If any potential subsidence induced features are observed that could cause harm to the pond, notify John Poulos or Kathy Welt immediately.