



Mountain Coal Company

Mountain Coal Company, LLC

West Elk Mine

5174 Highway 133

Somerset, CO 81434

Kathleen G. Welt

Environmental Engineer III

kwelt@archcoal.com

phone: 970.929.2238

January 02, 2018

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 2017**

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 E6 and continued mining of longwall panel E7 during the 4th Quarter of 2017. At the end of 2017, MCC had mined out longwall panel E7 almost to cross-cut 46.

There was one stock pond (Pond DF-30) 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,

A handwritten signature in blue ink that reads "Kathleen G. Welt".

Kathleen G. Welt
Environmental Engineer III

Enclosures: Monument Dam Inspections – Fourth Quarter 2017
US Forest Service Road Inspections – Fourth Quarter 2017
Stock Pond Inspections – Fourth Quarter 2017

cc: D. Gray - USFS
W. Norris – MCC
M. Peacock – MCC
Availability of Records File

Forest Service Roads
Inspection Form

Date: 10/17/17

Time: 2:00

Name of Inspector: MIKE PEACOCK

Current Panel and XC Being Mined: XC46, E7 Panel

Road(s) Being Inspected:

Dry Fork - None

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:

Mike Peacock

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

Forest Service Roads
Inspection Form

Date: 11/27/17

Time: 11:00 am

Name of Inspector: Mike Peacock

Current Panel and XC Being Mined: E 7 Panel, 42XC

Road(s) Being Inspected: Dry Fork Rd

Yes No

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

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☐ ☐ 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: Mike Peacock

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

Forest Service Roads
Inspection Form

Date: 12/21/17

Time: 11:00

Name of Inspector: Mike Peacock

Current Panel and XC Being Mined: E7 XC40

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 Mike Peacock or Kathy Welt immediately.

Stock Pond
Inspection Form

Date: 10/17/17

Time: 2:15

Name of Inspector: MIKE PEACOCK

Current Panel and XC Being Mined: Panel E7, XC 46

Stock Pond(s) Being Inspected:

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:
Water is STAGNANT Approx 3' deep in middle

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

Notes:

Signature of Inspector: Mike Peacock

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

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Stock Pond
Inspection Form

Date: 11/27/17
Time: 12:00 PM
Name of Inspector: MIKE PEACOCK
Current Panel and XC Being Mined: E7 Panel, XC42
Stock Pond(s) Being Inspected: DF30

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:
No water running in, water appears to be evaporating, lots of algae
- ☐ ☒ Is mitigation needed? If yes, list suggestions:

Notes:

Signature of Inspector: _____

Mike Peacock

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

**Stock Pond
Inspection Form**

Date: 12/20/17
Time: 11:30
Name of Inspector: Mike Peacock
Current Panel and XC Being Mined: E7, XC 40
Stock Pond(s) Being Inspected: DF-30

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: Pond Frozen

Signature of Inspector: Mike Peacock

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

Monument Dam Inspection Form

Date: 10/17/17

Time: 1:45

Name of Inspector: MIKE PEACOCK

Current Panel Being Mined: E7

☐ 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: Mike Peacock

Inspections are performed under the direction of Mike Peacock, P.E.

If cracks or other potentially damaging features occur, notify Mike Peacock or Kathy Welt immediately.

Monument Dam Inspection Form

Date: 11/27/12

Time: 10:45

Name of Inspector: MIKE PEACOCK

Current Panel Being Mined: E T Panel

☐ 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: Mike Peacock

Inspections are performed under the direction of Mike Peacock, P.E.

If cracks or other potentially damaging features occur, notify Mike Peacock or Kathy Welt immediately.

Monument Dam Inspection Form

Date: 12/20/17

Time: 10:45 am

Name of Inspector: Mike Peacock

Current Panel Being Mined: E7

☐ 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: 

Inspections are performed under the direction of Mike Peacock, P.E.

If cracks or other potentially damaging features occur, notify Mike Peacock or Kathy Welt immediately.