

Mountain Coal Company, LLC
A subsidiary of Arch Resources, Inc.
West Elk Mine
5174 Highway 133
Somerset, CO 81434

January 17, 2024

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 2023**

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 LWE1 through LWE8, LWE14, LWE15 and LWSS1 through 4. MCC is currently in a Longwall move in which we're moving to LWE12.

There were no stock ponds within the angle-of-draw of the mined area of LWE15 during this quarter. A portion of LWE15 was within a mile of Monument Dam, monitoring showed no movement. October and November inspections were done but winter weather and ground conditions did not permit inspections for December of this quarter. All inspections will continue when weather and ground conditions allow. Routine inspection reports for Monument Dam, Forest Service Roads and Stock Ponds are included with this letter report.

Please don't hesitate to contact me should you have questions regarding this submittal. I can be reached by phone at (970) 929-2226.

Sincerely,



Chase Hiatt
Mine Engineer Tech

cc: W. Norris
J. Wilczek

Monument Dam Inspection Form

Date: 10/20/23

Time: 12:00P

Name of Inspector: C. Hiatt

Current Panel Being Mined: LWE16

☐ 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: _____

Chase Hiatt

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.

Stock Pond
Inspection Form

Date: 11/21/23

Time: 11:30am

Name of Inspector: C. Haith

Current Panel and XC Being Mined: LWE14

Stock Pond(s) Being Inspected: Dryfork Deep Creek

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: _____

Chase Haith

* If any potential subsidence induced features are observed that could cause harm to the pond, notify Jessica Wilczek immediately.

Stock Pond
Inspection Form

Date: 12/15/23

Time: 7:31 am

Name of Inspector: Chase Hiatt

Current Panel and XC Being Mined: LWE16

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:

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

Notes: no access due to weather

Signature of Inspector:



* If any potential subsidence induced features are observed that could cause harm to the pond, notify Jessica Wilczek immediately.

Monument Dam Inspection Form

Date: 11/21/23

Time: 12:00p

Name of Inspector: Chase Hiett

Current Panel Being Mined: LWE15

☐ Weekly Inspection ☒ Monthly Inspection

- | Yes | No | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Is mining within 1 mile of Monument Dam? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Are there visible surface cracks on the dam?
If yes, indicate length and size of crack. _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Is there evidence of subsided areas on or around the dam?
If yes, indicate where and degree. _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Are there bulges on the dam?
If yes, indicate where and degree. _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Are there signs of seeps on the dam?
If yes, indicate where and estimated flow. _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Are there any other potentially damaging features on the dam?
If yes, describe. _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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: Chase Hiett

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: 10/20/23

Time: 11:45am

Name of Inspector: Chase Hiatt

Current Panel Being Mined: LWE15

☐ 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: Chase Hiatt

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: 12/15/23

Time: 8:00 am

Name of Inspector: Chase Hiett

Current Panel Being Mined: LWE15

☐ 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: Couldn't Perform Site Inspections Because of weather

Signature of Inspector: Chase Hiett

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.

Forest Service Roads
Inspection Form

Date: 10/20/23

Time: 11:30am

Name of Inspector: C. Hiatt

Current Panel and XC Being Mined: LWE16

Road(s) Being Inspected: Dryfork Deep Creek

Yes No

- ☒ ☐ Is the Forest Service road within the projected angle of draw of subsidence? If yes, which road(s):
Old Road
- ☐ ☒ 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 Jessica Wilczek immediately.

Forest Service Roads
Inspection Form

Date: 11/21/23

Time: 11:00 am

Name of Inspector: C. Hiatt

Current Panel and XC Being Mined: LWE16

Road(s) Being Inspected: Dry Fork Deep Creek

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 Jessica Wilczek immediately.

Forest Service Roads
Inspection Form

Date: 12/15/23

Time: 7:31am

Name of Inspector: Chase Hiatt

Current Panel and XC Being Mined: LW E16

Road(s) Being Inspected:

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: No access due to weather

Signature of Inspector: _____

Chase Hiatt

* If any potential subsidence induced features are observed that could cause harm to the public or operations, notify Jessica Wilczek immediately.