

April 24, 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; 1st Quarter 2024**

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, LWSS1-SS3 and LWE15. MCC is currently mining in LWE12 and will move to LWE16 later this year.

There were no stock ponds within twice the angle-of-draw of the mined area of LWE12 during this quarter. Mining was within a mile of Monument Dam and continuous survey data shows no movement. Winter weather and ground conditions did not permit inspections for 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.

Sincerely,



Jessica Wilczek, P.E.
Manager of Engineering and Environmental Affairs
Mountain Coal Company, L.L.C – West Elk Mine

Mountain Coal Company, L.L.C.
A subsidiary of Arch Resources, Inc.
West Elk Mine
5174 Highway 133
Somerset, CO 81434
(970) 929-2200
archrsc.com

Stock Pond
Inspection Form

Date: 1/15/24

Time: 7:30am

Name of Inspector: Chase Hiatt

Current Panel and XC Being Mined: LWE12

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: Chase Hiatt

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

Stock Pond
Inspection Form

Date: 2/12/24

Time: 8:00

Name of Inspector: Chase Hiett

Current Panel and XC Being Mined: LWE12

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: _____

Chase Hiett

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

Stock Pond
Inspection Form

Date: 3/15/24

Time: 8:15am

Name of Inspector: Chase Klint

Current Panel and XC Being Mined: LWE12

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: _____

Chase Klint

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

Forest Service Roads
Inspection Form

Date: 1/15/2024

Time: 7:30am

Name of Inspector: Chase Hiett

Current Panel and XC Being Mined: LW E12

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.):

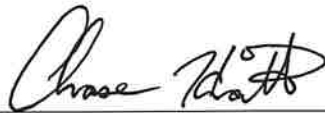
☐ ☐ Is there any recent evidence of potential subsidence induced slope failure? If yes, describe:

☐ ☐ 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:



* 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: *2/12/24*

Time: *8:30am*

Name of Inspector: *Chase Liatt*

Current Panel and XC Being Mined: *LWE12*

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 Liatt

* 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: 3/15/24

Time: 8:00am

Name of Inspector: Chase Hiatt

Current Panel and XC Being Mined: LWE12

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.

Monument Dam Inspection Form

Date: 1/15/24

Time: 8:00 am

Name of Inspector: Chase Hinth

Current Panel Being Mined: CWE12

☐ 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: NO access due to weather

Weekly Survey Monitoring is taking place

Signature of Inspector: Chase Hinth

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: 2/12/24

Time: 7:30am

Name of Inspector: Chase Hiatt

Current Panel Being Mined: LWE12

☐ 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: No access due to weather
Weekly Survey Monitoring is taking place

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: 3/15/24

Time: 8:30am

Name of Inspector: Chase Liatt

Current Panel Being Mined: LW512

☐ 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:

No access due to weather
Surveying for monument dam looks good

Signature of Inspector: Chase Liatt

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.