

Kathleen G. Welt

Environmental Engineer III kwelt@archrsc.com

Phone: 970.929.2238

Mountain Coal Company, LLC

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

April 22, 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; 1st Quarter 2021

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 and continued mining of longwall panel LWSS1 during the 1st Quarter of 2021. At the end of the 1st Quarter, MCC had mined out longwall panel LWSS1 up to crosscut 14 in the headgate.

There were no stock ponds within twice the angle-of-draw of the mined area of LWSS1 during this quarter, and mining was not within a mile of Monument Dam. Winter weather and ground conditions did not permit inspections 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 or Nicki Poulos should you have questions regarding this submittal.

Sincerely,

Kathleen G. Welt

Environmental Engineer III

Enclosures: Monument Dam Inspections – First Quarter 2021

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US Forest Service Road Inspections - First Quarter 2021

Stock Pond Inspections - First Quarter 2021

cc: D. Gray - USFS

R. Munz - MCC

N. Poulos - MCC

J. Wilczek - MCC

Availability of Records File

Monument Dam Inspection Form

Time Name Curre	e of Ins ent Pan	pector: Robert Munz el Being Mined: LW551 aspection M Monthly Inspection
Yes □	No X	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	s: Una	able to complete due to snow cover
Signa	ature of	Inspector: MA L. M
Inspe	ections (are performed under the direction of Jessica Wilczek, P.E.
	cks or e	other potentially damaging features occur, notify Jessica Wilczek

Monument Dam Inspection Form

Time: Name Curre	of Insp nt Pane	nector: Robert Mun 2 el Being Mined: Lussi spection 図 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.
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		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	: Unal	ole to complek inspection due to snow cour.
Signa	ture of	Inspector: M4 Z. ~6
Inspec	ctions a	re performed under the direction of Jessica Wilczek, P.E.
	cks or o diately.	ther potentially damaging features occur, notify Jessica Wilczek

Monument Dam Inspection Form

Time Name Curre	e of Insp ent Panel	ector: Robert Manz I Being Mined: Lwss1 spection 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
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Notes	s: Unob	e to complete inspection due to snow cover
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(W:\MCC-Engineering\ENV PERMITTING\REG AGENCIES\CDRMS\Monument Dam\Monument Dam Inspection Procedure\Monument Dam Inspection Form)

Forest Service Roads Inspection Form

Date: 1/29/2021 Time: Name of Inspector: Robert Munz Current Panel and XC Being Mined: LWSSI Approx. 16 XC in SSI HG Road(s) Being Inspected: Dry Fork and Deer 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	i: Unabl	le to complete inspection due to snow cover.	
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: 2/26/2021 Time: Name of Inspector: Robert Munz Current Panel and XC Being Mined: LW 551 Approx 16 XC in 551 HG Road(s) Being Inspected: Dry Fork and Decr 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: Unable to complete inspection due to snow cover		
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: 3/26/2021 Time: Name of Inspector: Robert Munz Current Panel and XC Being Mined: Lw SSI Approx 15xc in SSI HG Road(s) Being Inspected: Dry Fork and Deer 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: Unable to inspect due to snow cover.		
Signature of Inspector:		

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Stock Pond Inspection Form

Date:	1/29/2	021
Name	of Insp	pector: Robert Munz
		el and XC Being Mined: LWSSI Approx 16xc in SSI HG Being Inspected: 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	: Unal	ble to complete inspection due to snow covy
Signa	ture of	Inspector:

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

Stock Pond Inspection Form

Time Name Curre	e of Insp ent Pane	pector: Robert Munz el and XC Being Mined: Lw SSI Approx 16 XC in SSI 146 s) Being Inspected: 0 F 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:
Notes	□ 5: Wabl	Is mitigation needed? If yes, list suggestions:
		Inspector: M. A.

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

Stock Pond Inspection Form

Time: Name Curre	of Insp ent Pane	pector: Robert Munz el and XC Being Mined: LWSSI approx 15 xc in SSI HG s) Being Inspected: 0f35
Yes	No	
	X	Is the stock pond within twice the projected angle of draw of subsidence? If yes, which pond(s):
141		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	s: Uhal	de to complete inspection due to snow cover.
Signa	ature of	Inspector: Mt L. 6

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