

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, 2021

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

### Re: Mountain Coal Company, LLC - West Elk Mine, CDRMS Permit No. C-1980-007 Pond and Mine Site Quarterly Self-Inspection Reports – 1st Quarter 2021

Dear Mr. Simmons:

Attached are Mountain Coal Company, LLC's (MCC) Pond, Refuse Pile and Mine Site quarterly self-inspection reports for the 1<sup>st</sup> Quarter of 2021.

No lifts of waste rock material were added to the RPEE during the 1<sup>st</sup> quarter. As such, no compaction tests, nor a professional engineer's certification are provided.

Should you have questions or require additional information, please contact me at (970) 929-2238.

Sincerely,

attleen I. West

Kathleen G. Welt Environmental Engineer III

Enclosures: Inspection Reports – 1<sup>st</sup> Quarter 2021

cc: N. Poulos J. Wilczek Availability of Records File

1st/ 2021
Quarter/ Year
N. Poulos/ R. Gillenwater
Inspector

Features	Problems		Maintenance		Repairs		Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		х		Х		X	
Vegetation		Х		Х		X	
Other		X		Х		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		Х		Х		X	
Berms		Х		Х		X	
Linings		Х		Х		X	
BMPs		х		Х		X	
Culverts		Х		Х		X	
Other		Х		Х		X	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		x		х		x	
Cracks or Settling		Х		Х		X	
Seepage		Х		Х		X	
Other		Х		Х		X	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		Х		Х		X	
Subsoil		X		Х		X	
Vegetation		Х		Х		X	
Mulch		Х		Х		X	
Other		Х		Х		X	
General Compliance & Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		Х		X	
Roads		X		Х		X	
Other		X		Х		X	
Additional Comments:							
No issues observed.							
Action Required or Need	ed:						

3/18/20211st/ 2021DateQuarter/YearTopsoil pile by ST 1-3N. Poulos/ R. GillenwaterLocationInspector

Features	Prob	lems	Maint	enance	Rep	pairs	Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		Х		X	
Other		X		Х		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X	0	X		X	
Linings		X		Х		X	
Temp. Structures		X		X		X	
Culverts		Х		X		X	
Other		Х		X		X	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		х		x		x	
Cracks or Settling		X		X		X	
Seepage		Х		X		X	
Monitoring-Visual		X		Х		Х	
Other		X		X		Х	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		Х	
Mulch		Х		X		Х	
Other		X		X		X	
General Compliance & Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		Х		X	
Other		Х		X		X	
Additional Comments:							
No issues observed.							
						_	
Action Required or Mood	ed:						
Action Required or Need None							

3/18/2021	1st/ 2021
Date	Quarter/Year
General Mine Site	N. Poulos/ R. Gillenwater
Location	Inspector

Features	Prob	lems	Mainte	enance	Rep	pairs	Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		Х		X		X	
Vegetation		X		X		X	-
Other		Х		X		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		Х		X		X	
Berms	1	х		X		X	
Linings		Х		Х		Х	
BMPs		х		Х		X	
Culverts		х		Х		X	
Other		х		Х		Х	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		х		х		x	
Cracks or Settling		Х		Х		Х	
Seepage		х		Х		X	
Monitoring-Survey		Х	[	Х		X	
Other		х	-	Х		X	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		Х		Х		Х	
Subsoil		х		Х		X	
Vegetation	ĺ	х		Х		X	
Mulch		Х		Х		X	
Other		Х		Х		Х	
Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		Х		Х		Х	
Spontaneous		х		х		x	
Combustion							
Roads		X		х		X	
Other		Х		X		X	
Additional Comments:							
No issues observed							
Action Required or Need	ed:						
None							

3/18/2021

Date

Material Storage Bench, Topsoil Pile #5

Location

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1st/ 2021

Quarter/Year

N. Poulos/ R. Gillenwater

Inspector

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Features	Prot	olems	Maint	enance	Rep	pairs	Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		x		x		x	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Other		X		X		X	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		Х		X	
Vegetation		X		X		X	
Mulch	5	X		Х		X	
Other		X		Х		X	
Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		Х		X	
Roads		Х		Х		X	
Other		X		X		X	
Additional Comments:					e		
Monitoring of the slum quarter.	ip- on tł	ne north	slope o	f the MS	B contir	nues. Lit	tle to no movement occurred th
Action Required or Need	ed:						
None							

3/18/2021	1st/ 2021
Date	Quarter/Year
RPE & RPEE	N. Poulos/ R. Gillenwater
Location	Inspector

Features	Prob	lems	Mainte	enance	Rep	pairs	Comments
Erosion:	Yes	No	Yes	No	Yes	No	
<b>Rills and Gullies</b>		Х		Х		X	
Vegetation		Х		X		X	
Other		х		Х		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		Х		Х		X	
Berms		Х		Х	Î	X	
Linings		Х		Х		X	
BMPs		Х		Х		X	
Culverts		х		Х		X	
Other		Х		Х		X	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		х		х		x	
Compaction		Х		Х		X	
Underdrains		Х		Х		X	
Cracks or Settling		Х		Х		X	
Seepage		х		Х		X	
Monitoring-Survey		Х		Х		X	
Other		Х		Х		X	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		Х		Х		X	
Subsoil		Х		Х		X	
Vegetation		Х		Х		Х	
Mulch		Х		Х		Х	
Other		Х		Х		Х	
Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		Х		Х		Х	
Spontaneous Combustion		х		х		х	
Roads		х		х		x	
Other		X		X		X	
Additional Comments:							
No lifts were added to							overed and not utilized to haul
refuse. Some reject co	al stocl	cpiled o	n the RP	E was re	cycled t	o produ	ce coal product for shipment.
Action Required or Need	ed:						

3/18/2021

Date

Sylvester Gulch Facilities Area

Location

1st/ 2021

Quarter/Year

N. Poulos/ R. Gillenwater

Inspector

Features	Prob	lems	Mainte	enance	Rep	pairs	Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		Х		Х		X	
Vegetation		X		Х		X	
Other		Х		Х		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		Х		X	
Berms		X		Х		X	
Linings		X		Х		X	
BMPs		X		Х		X	
Culverts		X		Х		X	
Other		Х		Х		X	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		х		х		x	
Cracks or Settling		Х		Х		X	
Seepage		х		Х		X	
Monitoring-Survey		X		Х		X	
Other		Х		Х		X	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		Х		Х		X	
Subsoil		Х		Х		X	
Vegetation		Х		Х		X	
Mulch		Х		Х		X	
Other		X		Х		X	
General Compliance & Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		Х	Х			X	Re-hung Topsoil sign @ 23-08
Roads		Х		Х		X	
Other		Х		Х		Х	
Additional Comments:							M
Topsoil sign fell off pos	st. Reat	tached					
Action Required or Need	ed:						

3/18/2021

Date North Soils Storage Area (NSSA) Location

#### 1st/ 2021

Quarter/Year

N. Poulos/ R. Gillenwater

Inspector

Features	Prob	lems	Mainte	enance	Rep	pairs	Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		Х		Х	
Vegetation		X	X			X	Weeds are emerging
Other		X		X		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		Х		Х	
Berms		X		Х		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		Х		X	
Other		X		Х		X	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		x		x		x	
Cracks or Settling		Х		Х		X	
Seepage		Х		Х		Х	
Other		X		Х		Х	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		Х		X	
Subsoil		X		Х		X	
Vegetation		X		Х		X	
Mulch		X		Х		X	
Other		X		Х		X	
General Compliance & Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		x		х		Х	
Roads		X		Х		X	
Other		Х		Х		X	
Unici			<u> </u>				

3/18/2021

Date Lower Refuse Pile (Prep Plant) Location

#### 1st/ 2021

Quarter/Year

N. Poulos/ R. Gillenwater

Inspector

Features	Prob	lems	Mainte	enance	Rep	oairs	Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		х		Х		X	
Vegetation		x		Х		X	
Other		x		Х		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		х		Х		X	
Berms		х		Х		X	
Linings		х		Х		X	
BMPs		Х		Х		X	
Culverts		х		х		X	
Other		х		Х		х	
Structural:	Yes	No	Yes	No	Yes	No	
		х		х		х	
Sideslopes and Stability		^		^		^	
Compaction		х		Х		Х	
Underdrains		х		Х		Х	
Cracks or Settling		х		Х		Х	
Seepage		Х		Х		Х	
Monitoring-Survey		Х		Х		Х	
Other		Х		Х		Х	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		Х		Х		Х	
Subsoil		Х		Х		Х	
Vegetation		Х		Х		Х	
Mulch		Х		Х		Х	
Other		Х		Х		Х	
General Compliance & Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		Х		х		х	
Spontaneous Combustion		Х		х		x	
Roads		Х		х		х	
Other		Х		х		x	
Additional Comments:				· · · · ·			
No issues observed.							
Action Required or Need	ed:						
None	24						

3/18/2021	1st/ 2021	
Date	Quarter/Year	
Upper Sly Gulch Road	N. Poulos/ R. Gillenwater	
Location	Inspector	

Features	Prob	olems	Maintenance		Repairs		Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		Х		X	
Vegetation		X		Х		X	
Other		X		Х		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		Х		X	
Berms		X		Х		X	
Linings		X		Х		X	
BMPs		X		Х		X	
Culverts		Х		Х		X	
Other		X		Х		X	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		х		х		х	
Cracks or Settling		X		Х		Х	
Seepage		X		Х		Х	
Monitoring-Survey		Х		Х		Х	
Other		Х		Х		Х	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		Х		Х	
Subsoil		X		Х		Х	
Vegetation		X		Х		Х	· · · · · · · · · · · · · · · · · · ·
Mulch		X		Х		Х	
Other		X		Х		Х	
General Compliance & Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		Х		Х		Х	
Roads		X		Х		Х	
Other		X		Х		Х	
Additional Comments:							
No issues observed.							
Action Required or Need	led:						
None							

3/18/2021	1st/ 2021
Date	Quarter/Year
Deer Creek Shaft & Monument Dam Borrow Area	N. Poulos/ R. Gillenwater
Location	Inspector

Features	Prob	olems	Maintenance		Repairs		Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		Х		Х	
Vegetation		X		Х		Х	· · · · · · · · · · · · · · · · · · ·
Other		X		Х		Х	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		Х		Х	
Berms		X		Х		Х	
Linings		X		Х		Х	
BMPs		X		Х		Х	
Culverts		X		Х		Х	
Other		X		Х		Х	
Structural:	Yes	No	Yes	No	Yes	No	
Sideslopes and Stability		x		х		х	
Cracks or Settling		X		Х		Х	
Seepage		X		Х		х	
Monitoring-Survey		X		Х		Х	
Other		X		Х		Х	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		Х		Х	
Subsoil		X		Х		Х	
Vegetation		Х		Х		Х	
Mulch		X		Х		Х	
Other		X		Х		Х	
Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		Х		Х	
Roads		X		Х		Х	
Other		X		Х		Х	
Additional Comments:							
No issues observed.							
Action Required or Need	led:						
None							

3/18/2021

Date

1st/ 2021

Quarter/Year

N. Poulos/ R. Gillenwater Inspector

Pond ID	FW-1	SG-1	RPE West RPE East		NSSA	MWTP
	Fresh Water	Sediment	Sediment	Sediment	Sediment	Fault
Pond Type	TTESH Water	Jediment	Seament	Seument	Seument	Water
Sediment Level %	N/A	<15%	<10%	<10%	0	N/A
Water Level (Approx.)	80%	40%	10%	15%	0	20%
Discharge? Y/N	N/A	N	N	N	N	N

Features	Problems?*		Maintenance?*		Rep	airs?*	Comments
* If Yes add comments							
Erosional:	Yes	No	Yes	No	Yes	No	
Rill & Gullies		х		Х		X	
Inadequate Vegetation		x	- 1	х		x	
<b>Outlet Channel Erosion</b>		х		Х		x	
Burrows		X		X		X	
Other		x		х		X	
Structural:	i , u						
Differential Settling		x		Х		x	
Cracks and Slides		X		X		x	
Seepage		X		X		x	
Other		x		X		x	
Appurtenant Structures				24.3	-		
Defective Spillways		x		х		x	
De-Watering Device clogged		x		x		x	
Faulty Gates, Baffles, Pumps		x		x		x	
Other		x		X		X	
Additional Comments:	Water is recycled from the sediment ponds for use as dust control on roadways, as well as pumped to the CPP (as needed) and/or into the sealed area of the mine for storage and later use per MCC's adjudicated water storage						
Action Needed:				5			

3/18/2021

Date

1st/ 2021

Quarter/ Year N. Poulos/ R. Gillenwater

Inspector

Pond ID	FW-2 North	FW-2 South	MB-3	MB-4	MB-5 North	MB-5 South
Pond Type	Fresh Water	Fresh Water	Sediment	Sediment	Sediment	Sediment
Sediment Level %	N/A	N/A	<15%	<10%	<10%	<15%
Water Level (Approx.)	Full	Full	15%	15%	15%	60%
Discharge? Y/N	N/A	N/A	N	N	N	N

Features	Probl	lems?* Maintenance?*		Repairs?*		Comments	
* If Yes add comments			-				
Erosional:	Yes	No	Yes	No	Yes	No	
Rill & Gullies		х		Х		Х	
Inadequate Vegetation		X	-	Х		X	
Outlet Channel Erosion		х		х		X	
Burrows		х		Х		X	
Other		х		х		X	
Structural:				1.1.1			
Differential Settling		х		Х		X	
Cracks and Slides		x		X		x	
Seepage		х		x		X	
Other		х		X		X	
Appurtenant Structures							
Defective Spillways		х		Х		X	
De-Watering Device clogged		х		x		x	
Faulty Gates, Baffles, Pumps		х		x		x	
Other		x		Х		X	
Additional Comments:	pumped	to the C	PP (as ne		or into		dust control on roadways, as well as d area of the mine for storage and later use
Action Needed:							