

Ridley - DNR, Hunter < hunter.ridley@state.co.us >

Inspection Report, Foidel Creek Mine, C-1982-056

1 message

Ridley - DNR, Hunter < hunter.ridley@state.co.us>

Tue, Sep 26, 2023 at 1:57 PM

To: "Kawcak, Miranda" < mkawcak@peabodyenergy.com>

Miranda,

Please find attached the Division's report for the September coal complete inspection of Foidel Creek Mine. Let me know if you have any questions.

Kind regards, Hunter Ridley (she/her/hers) Environmental Protection Specialist



COLORADO

Division of Reclamation, Mining and Safety

Department of Natural Resources

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Sept_CC_Foidel.pdf

6159K



PERMIT INFORMATION

Permit Number: C-1982-056 Mine Name: Foidel Creek Mine Operator: Twentymile Coal, LLC Operator Address: Ms Miranda Kawcak 29515 Routt County Road No. 27 Oak Creek, CO 80467	County: Routt Operation Type: Underground Permit Status: Active Ownership: Private Operator Representative Present:
Operator Representative Signature: (Field Issu	ance Only)

INSPECTION INFORMATION

Inspection Start Date: September Inspection End Date: September Inspection End Time: 12:30			Inspection Type: Coal Compl Inspection Reason: Normal I& Weather: Clear	•
Joint Inspection Agency:		Joint	Inspection Contacts:	
None				
Post Inspection Agency:		Post	Inspection Contacts:	
None				
Inspector(s):	Inspecto	r's Sig	gnature:	Signature Date:
Hunter Ridley	Hunter 1	Ridley		9/26/2023

Inspection Topic Summary

NOTE: Y=Inspected N=Not Inspected R=Comments Noted V=Violation Issued NA=Not Applicable

N - Air Resource Protection R - Roads

R - Availability of Records

R - Reclamation Success

N - Backfill & Grading
N - Revegetation
R - Excess Spoil and Dev. Waste
N - Subsidence

N - Explosives
 Y - Fish & Wildlife
 R - Hydrologic Balance
 N - Slides and Other Damage
 Y - Support Facilities On-site
 R - Signs and Markers

R - Gen. Compliance With Mine Plan

N - Support Facilities Not On-site

N - Other N - Special Categories Of Mining

N - Processing Waste R - Topsoil

COMMENTS

This was a complete inspection of the Foidel Creek Mine; DRMS Permit No. C-1982-056, operated by Twentymile Coal, LLC. (TC). This inspection was conducted by Hunter Ridley with the Colorado Division of Reclamation, Mining, and Safety (Division). Miranda Kawcak of TC accompanied an initial the inspection. **Please address the Bold items below.**

In an effort to ensure that all reclamation tasks are appropriately bonded for, the Division is currently in the process of collecting field data in an effort to ground truth and update on-site conditions at the Foidel Creek Mine. Data collection began during this inspection and will continue to be collected over a number of inspections. Final data collection and recalculation of the financial warranty will be completed by July of 2024.

Permit Renewal 8 (RN-08) was issued by the Division on 9/9/2023. The next renewal will not be due to the Division until 2028.

AVAILABILITY OF RECORDS – Rule 5.02.4(1): Records were checked at the mine office. See details at the end of report. Records can be made available to the public through paper or electronic copy. Currently, records located at the mine office are in both forms. However, in the event that the computer which holds the files is not accessible, e.g. the operator is not present to login and access records, Rule 5.02.4 would not be able to be followed. **Therefore, the Division requests that all records be made available in paper form.** Exceptionally large reports and records, delineated by three asterisks on the records form, have been allowed to be kept digitally. **Please update items highlighted on the attached records form.**

SIGNS AND MARKERS—Rule 4.02

Mine identification markers were observed throughout the site (Photo 1). All information for compliance was present across all signs.

ROADS – Rule 4.03 Construction 4.03.1(3)/4.03.2(3), Drainage 4.03.1(4)/4.03.2(4), Surfacing and Maintenance 4.03.1(5) and (6)/4.03.2(5) and (6), Reclamation 4.03.1(7)/4.03.2(7):

Haul roads across the site were maintained and water trucks were noted in the main facilities area. MR322 was issued by the Division on 10/25/2022 and approved the relocation of an internal road. The construction of this new road continues in the 6MN area (Photo X). Construction here is mostly completed, with only final grading and seeding of the topsoil pile left to be done.

HYDROLOGIC BALANCE - Rule 4.05

Drainage Control 4.05.1, 4.05.2, 4.05.3; Siltation Structures 4.05.5, 4.05.6; Discharge Structures 4.05.7, 4.05.10; Diversions 4.05.4; Effluent Limits 4.05.2; Ground Water Monitoring 4.05.13; Surface Water Monitoring 4.05.13; Drainage – Acid and Toxic Materials 4.05.8; Impoundments 4.05.6, 4.05.9; Stream Buffer Zones 4.05.18:

All ponds were checked for discharge and culverts were inspected for function. Most main culverts appear to be functioning, however culverts in some of the less used areas, such as the Fish Creek Borehole and Tipple Area, are in need of cleaning (Photos 16). Continue to clean out culverts when vegetation and sediment hinders function. Ponds and discharge points are represented in Photos 2, 6 - 8, 10, 13, 15 and 20.

Location	Holding water	discharging	source	goes to	notes
6MN Reservoir	Y	N	mine water	Recirculates mine water. Does not have a discharge pt.	
6MN ventilation shaft sed pond	Y	N	pad runoff		Usually not flowing
6MN wetlands	Y	Y	Underground dewatering	6MN reservoir	Water from ponds is pumped to the 6MN reservoir, no discharge is currently approved at this site. Wetlands do not operate in Winter months
Fish Creek Tipple pond	Y	Y	Reclaimed tipple	Fish creek	Usually always flowing
Fish Creek Borehole	Y	N	mine water (w/ flock added)	Fish creek (site 115)	3 cell pond, discharge at site 115 triggers additional sampling requirements.
18LT vent shaft ponds	N	N	pad		Pad is not active
Pond F	Y	N	runoff from facilities	Foidel creek	
Pond G	Y	N	Surface Runoff from laydown Area	Foidel creek	Generally dry except in the Spring

Pond E	Y	Y	Facilities and roads	Foidel creek	Stoker building will drain here after it has been sealed
Area No. 1 Pond (Pit Pond)	Y	N	mine, sumps, diversion dich	Pond D	
Pond D	Y	Y	Wash plant facilities, pit pond	Foidel creek	Catches overflow from adjacent Pit Pond, is a discharge point for mine water
Pond B	Y	Y	Bob pile, road	Foidel creek	Cleaned Fall 2022
Pond C	Y	N	facilities		Generally dry
Pond T	N	N	laydown area	Foidel creek	v-notch weir, culvert under railway always trickling
Facility Treatment ponds	Y	N	facilities water	GW discharge	Currently approved to go to the million gallon tank. Revision is needed to update PAP.
Stream buffer zone @ train load-out	NA	NA	Buffer marked by barrels and sign.		Buffer zone was being maintained at Feb 2023 inspection. Buffer zone needs to continue to be protected from winter plowing, mag chloride, and coal overflow from train.

Main Facilities Area

Several ponds across the main facilities area are in in need of cleanout in order to maintain long-term proper function. The Operator stated that these ponds are scheduled to be cleaned out the week of 9/18/2023. Only culverts directly connected to ponds in the main facilities area were checked during this inspection. A representative sample of all main facilities culverts will be checked during a future inspection.

In the inspection report dated 8/23/23 the Division requested that BMPs around the stoker coal loadout facility be repaired and added to areas which are still having issues with sediment control and erosion down the northwestern slope behind the facility (Photo 3). The Division requires that these tasks be completed by 9/30/23 and that photos of the new and repaired BMPs be submitted to the Division by this date. The Operator stated that the stoker building was scheduled to be sprayed with a leak proof liner the week of 9/18/23 and that photos of this and the improved BMPs would be sent to the Division by the 9/30/23 due date. The stoker loadout area was free of coal spills at the time of inspection.

The buffer zone for Foidel Creek is being maintained at the train loadout facility (Photos 4-7). Berms here are well maintained and buffer zone signs are in place. As noted in the 6/28/23 report, CDPHE has restricted the use spraying of de-icer on incoming trains in the winter season in an effort to mitigate runoff to the nearby Foidel Creek buffer zone. TC is still working with the Town of Hayden and CDPHE to address the situation.

6MN and Passive Treatment System Project Areas

Facilities and ponds in the 6MN area were noted to be functioning properly and as usual (Photo 13). The weather station set up near the 6MN Reservoir was still present. Culverts in this area were clean and functioning (Photos 11 and 12).

The Passive Treatment System Project in this area was fully vegetated and functioning at the time of inspection (Photo 14). This water does not currently discharge to Foidel Creek. Instead it is circled back to the 6MN reservoir. This wetland area will be closed during the winter season.

Western Boreholes

Boreholes located in the western portion of the permit boundary, including the Fish Creek Borehole, were inspected and found to be free of any issues.

The 18L Area (Photo 19) is currently unused. Two ponds, which are mostly dry throughout the year except for in snowmelt, are located in this area as well (Photo 20). This area has not yet been reclaimed as TC will use the area's facilities to tie into Peabody Sage Creek Mine operations in the future.

Tipple Area

The Tipple Area is generally unused with some areas having already been reclaimed. Roads and the Tipple Pond were maintained and free of erosion (Photo 15). Several culverts in this are in need of cleanout (Photo 16). In order to maintain proper function, please ensure that cleanout is completed before the winter season.

The 9 East Exhaust Blower Pad and reclaimed 18 Right borehole were also inspected in this area and found to be free of any issues. (Photos 17 and 18).

TOPSOIL - Rule 4.06

Topsoil piles were checked for proper vegetation, stability, and appropriate markers. All piles are properly vegetated and free of disturbance.

EXCESS SPOIL AND DEV. WASTE - Rule 4.09 Placement; Drainage Control; Surface Stabilization:

Compaction of refuse material piled throughout the winter continues (Photos 9 and 21). Lifts three and four are under construction, with plans to face and seed these two lifts in the current season. Lifts are built facing downslope to encourage proper drainage into Pond D. Clay overburden material is then taken from the

southern portion of the refuse area to cover the pile before adding topsoil from the nearby stockpile to the northeast.

Compaction reports are conducted quarterly. As per the last inspection request (dated April 25, 2023), the Division received the most recent compaction report (1st Q 2023) and the compaction report prior to that (4th Q 2022). These were received May 10, 2023. Before this submittal, the last noted compaction report received by the Division was for the 4th Quarter 2016. In order to complete the public record, please submit all missing compaction reports through e-permitting from 1st Quarter 2017 to 3rd Quarter 2022 to the Division and continue to submit these reports on a timely basis.

RECLAMATION SUCCESS and REVEGETAION - Rule 4.15, Rule 3:

The 13 Left Outby Gate Road Utility Borehole has been nearly fully reclaimed. This reclaimed area is scheduled to be seeded in the fall of 2023.

GENERAL MINE PLAN COMPLIANCE:

Cattle grazing, which occurs annually across several locations of the Foidel Creek Mine permit area, has mostly ended for the season. Fences and topsoil piles will need to continue to be protected from cattle in the next season.

Ongoing Maintenance Items:

- Repair silt fence located behind the stoker loadout building
- Protect topsoil piles from cattle
- Spray weeds and Reseed the waste pile topsoil pile
- Protect topsoil piles along the 6MN road during maintenance and snow plowing activities during the winter months
- Seal support building near Wash Plant (2023)

ENFORCEMENT ACTIONS/COMPLIANCE

No enforcement actions were initiated as a result of this inspection, nor are any pending.

PHOTOGRAPHS



Photo 1: Appropriate signage located at the mine entrance.



Photo 2: Discharge and water sampling collection point for Pond D.



Photo 3: View north of the stoker coal loadout facility. Foidel Creek is located downslope to the west.



Photo 4: Train loadout facility.



Photo 5: Buffer zone signage and berms are in place.



Photo 6: Water sampling collection point for Ponds B.



Photo 7: View south of Ponds B and rail line.



Photo 8: Eastern half of Pond D, currently at a low water level.



Photo 9: View south of the refuse pile from Pond D.



Photo 10: Pond G, nearly completely dry.



Photo 11: Example of two culverts located near the 6MN Reservoir.



Photo 12: Example of two culverts located near the NW Mains Ventilation Shaft.



Photo 13: View west of the 6MN reservoir.



Photo 14: View northwest of the Passive Treatment System area.



Photo 15: View east of the Tipple Pond and Culvert 6.



Photo 16: Culvert 5 in the northwestern Tipple Area, in need of cleanout.



Photo 17: View south of the 9E Exhaust Blower Pad.



Photo 18: View west of the reclaimed 18R borehole.



Photo 19: View west of the unused 18L borehole area.



Photo 20: Two ponds, mostly dry year round, are located in the 18L area. Number of Partial Inspection this Fiscal Year: 2 Number of Complete Inspections this Fiscal Year: 1



Photo 21: View south of the refuse pile from CR 27.

AVAILABILITY OF RECORDS

Permit Application w/Revisions Findings Document Findings Documents Findings Documents Findings Documents Findings Documents Findings Documents Findings Stormwater Management Plan Documents Findings Findings Documents Findings Stormwater Management Plan Documents Findings Documents Findings Docume	PERMIT RECORDS	F= 5/02/20200	HYDROLOGIC RECORDS	
Findings Document MR323	DRMS Permit	Exp 5/25/2028??	NPDES Permit	**In review, OK
Stormwater Management Plan	Permit Application w/Revisions	-	NPDES Records	*** August 2022
Insurance Certificate Exp 08/01/2024 SPCC Plan 3Q 2021	Findings Document	***Update with	Stormwater Management Plan	updated w/new
Phased Bond Release Documents/Findings Air Emission Permits Exp 8/26/2024 Ouarterly Pond Inspections Phased Bond Release SL1 NA	Insurance Certificate	Exp 08/01/2024	SPCC Plan	
State Engineer's Pond Inspection	Bond Document		MSHA Pond Inspections	
State Engineer's Pond Inspection	Phased Bond Release	SL1		NA
Air Emission Permits County Special Use Permits UG Mining Landowner Notification Subsidence Monitoring Reports Subsidence Monitoring Data Subsidence Monitoring Data Annual On 3/1 Subsidence Monitoring Data Subsidence Monitoring Data Annual On 3/1 Subsidence Monitoring Data Subsidence Monitoring Data Subsidence Monitoring Data Annual On 3/1 Subsidence Monitoring Data Subsidence Monitoring Data Annual On 3/1 Subsidence Monitoring Data Annual Monitoring Data Annual Meater Discharge Monitoring AHR Mine Water Discharge Monitoring Midtern Review Documents Well Permits Permits BLASTING RECORDS Blasting Publication NA Blasting Publication NA ATFE Explosives Permit Exp 9/1/2023 Annual Certifications for Large Impoundments Fill Certifications for Large Impoundments Fill Certifications for Excess Spoil or Underground Development Waste Quarterly Inspections 4Q2022 ADDITIONAL RECORDS Stormwater Annual CLR permit Feb 2022 (due			State Engineer's Pond Inspection	1112
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	Quarterly Inspections	4Q2022	Colo. 811-02 CO Radioactive	Exp. 10/31/23
	Compaction Testing	4Q2022	Stormwater Annual CLR permit	

• Final Certification	NA	County special use permit	Exp. 8/2024
Coal Processing Waste Banks	4Q2022	PP2014-035	
Haul Road Certifications	***OK	_	
Access Road Certifications	NA		

COMMENTS:

^{* –} Air Emissions Permit is issued dated January 31st 2019 and expires in 5 years from date (2024) APEN received by the CDPHE.

^{** -} Discharge Permits – COG850051 exp 6/30/2013, COG850054 exp 6/30/2013, COG0042161 exp 6/30/2012, CO0027154 exp 8/31/2012, CO0036684 exp 4/30/2012 New permits (2022 updates) comments in CDPHE review

^{***}A majority of larger records documents are kept digitally in a publically available computer at the site office.