




COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY COAL PROGRAM INSPECTION REPORT



PERMIT INFORMATION

Permit Number: C-1982-056 Mine Name: Foidel Creek Mine Operator: Twentymile Coal, LLC Operator Address: Mr Jerry Nettleton 29515 Routt County Road No. 27 Oak Creek, CO 80467	County: Routt Operation Type: Underground Permit Status: Active Ownership: Federal
Operator Representative Present: Brian Watterson	
Operator Representative Signature: (Field Issuance Only) 	

INSPECTION INFORMATION

Inspection Start Date: May 8, 2013 Inspection Start Time: 08:00 Inspection End Date: May 9, 2013 Inspection End Time: 13:00	Inspection Type: Coal Complete Inspection Inspection Reason: Normal I&E Program Weather: Raining
Joint Inspection Agency: None	Joint Inspection Contacts:
Post Inspection Agency: None	Post Inspection Contacts:
Inspector(s): Jason D. Musick	Inspector's Signature:  Signature Date: 5/14/2013

Inspection Topic Summary	
NOTE: Y=Inspected N=Not Inspected R=Comments Noted V=Violation Issued NA=Not Applicable	
Y - Air Resource Protection R - Availability of Records NA - Backfill & Grading NA - Excess Spoil and Dev. Waste R - Explosives Y - Fish & Wildlife R - Hydrologic Balance R - Gen. Compliance With Mine Plan N - Other R - Processing Waste	R - Roads R - Reclamation Success Y - Revegetation Y - Subsidence NA - Slides and Other Damage Y - Support Facilities On-site R - Signs and Markers NA - Support Facilities Not On-site NA - Special Categories Of Mining R - Topsoil

COMMENTS

This was a complete coal inspection of the Foidel Creek Mine conducted by Jason Musick of CDRMS. Brian Watterson of TCC accompanied the inspection. The weather was cloudy and raining sporatically during the inspection and the site was wet throughout..

AVAILABILITY OF RECORDS – Rule 5.02.4(1):

All records were located at the TCC office and up to date. See attached DRMS Availability of Records.

EXPLOSIVES – Rule 4.08

Distance Prohibitions 4.08.4; Warnings 4.08.4; Control of Adverse Effects 4.08.4:

The explosives storage area was wet throughout and stable at the time of the inspection. TC was in the process of repair work to the explosive bunker doors to provide a more secure environment due to wildlife entry.

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:

Ponds B, C, D, E, F, G, 6NM, 18LT, 6NM sediment pond, the Fish Creek borehole ponds, the Fish Creek Tipple pond and the Pit Pond were observed during the inspection. Discharge was noted at Ponds D, B, E, F, G, Fish Creek Borehole, and the Fish Creek Tipple pond. All pond embankments were well vegetated and stable with no problems noted with the exception of the following:

- Non-coal waste (old culvert) in the ditch between the emergency and primary spillways of Pond F should be removed.
- The silt fence at the Pond D outlet will require re-established as designed.
- The south embankment of the 6MN Sediment pond is bare with rills beginning to form. This embankment will require seeding and monitoring for rill and gully development.

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Fish Creek Tipple Pond



6MN Sediment Pond



6MN Sediment Pond Embankment Slope



6MN Diversion Ditch to 6MN Sediment Pond



Material in 6MN Diversion Ditch

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At the time of the inspection TC was discharging to Fish Creek at Site 115, the Fish Creek Borehole site. The discharge is due to a failed pump, which has forced TC to tie into the water pipe from 18 LT and send the water underground at the Fish Creek Borehole. The construction of the 18 LT pipe is currently bonded under the Foidel Creek Mine Permit.

Ditches and culverts throughout the mine site were functioning as designed. No problems were noted with the exception of the following:

- The containment ditch west of the Fish Creek Tipple Pad has been breached. In addition, erosion features were observed on the out slopes of the ditch that will require maintenance.



Fish Creek Tipple Ditch Damage

- The outlet of third culvert from the northern most end of the 18RT access road is blocked and will require maintenance.
- The 18RT access roadside ditch continues to cut into the road. The ditch will need to be addressed to ensure stability of the road.



18RT Access Road Ditch



18RT Access Road Blocked Culvert

- An unidentified culvert along the 6MN access road was blocked at the outlet. This culvert required

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maintenance. In addition, this culvert is not identified on the currently approved Map 24.



Culvert at 6MN Access Road



Culvert at Rock Dust Access

- Three ~ 8" pipes are identified under the 6MN access road to aid in the drainage of water in the area. These pipes are not identified on Map 24 and no designs for these pipes exist.
- Heavy down-cutting was observed at the 6MN Pad diversion ditch to the 6MN sediment pond, with gullies on the slopes of the 6MN pad to the collection ditch. This area will need to be address to repair erosion features.
- Material has been spilled or dumped in the 6MN diversion ditch at the Rock dust tank at 6MN pad. This material will need to be removed from the ditch to ensure flow.
- The sump at the rock dust tank along RCR 27 contains non-coal waste (hose, concrete). All non-coal waste will require removal.
- The culvert under the rock dust tank from RCR 27 is blocked at the outlet.
- The culvert to the old Fish Creek Vent shaft at the Fish Creek Borehole area is blocked at the outlet and exposed at the top. The culvert should be cleared and appropriate cover over the culvert.

GENERAL MINE PLAN COMPLANCE:

The longwall miner is currently operating in the 13 LT panel with continuous miners in the 12 Left and near the

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gate road of 13 LT. Three coal trains were observed during the inspection. TR81, PR9, and SL1 are currently in the permitting process with the Division.

PROCESSING WASTE/COAL MINE WASTE PILES – Rule 4.10 and 4.11

Drainage Control; Surface Stabilization; Placement:

Refuse material continues to be placed in the RDA expansion area. Material was in the process of stockpiling at the time of the inspection. The RDA was well compacted and stable at the time of the inspection. The refuse material had not yet reached the head of the under-drain of the RDA. The first lift of the RDA Expansion has been completed. The exposed under-drain was stable and constructed as designed. Phase 1 of the RDA expansion is nearing completion. TR67 was approved with a stipulation that future bonding for each phase of construction will be required prior to the initiation of the next Phase. No problems were noted at the RDA.



RDA Outslope

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):

Roads throughout the mine site were wet but stable at the time of the inspection. All roads were in good condition with no problems noted.

RECLAMATION SUCCESS - Rule 4.15, Rule 3:

The reclaimed Fish Creek Tipple area, 18RT vent shaft area, and the bleeder shaft are stable with no problems noted, with the exception of the ditches at the Fish Creek Tipple identified and noted in the Hydrologic balance section.

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Fish Creek Tipple Pad

SIGNS AND MARKERS – Rule 4.02:

All mine identification signs, topsoil markers, stream buffer signs, and disturbed area markers observed were in the correct location and displayed the required information. No problems were noted with the exception of the following:

- Disturbance area markers will need to be installed along the approved disturbance along the RDA haul Road
- The Topsoil identification marker on the topsoil storage pile along the Fish Creek Borehole access road was not bolted to the T-Post
- No topsoil identification markers were observed on the topsoil piles at the 15LT Pad.
- Topsoil at the excavated waterline at the Fish Creek Borehole was not marked.
- The Topsoil identification marker on the topsoil storage pile along the 16 LT pad access road was not bolted to the T-Post.
- The Topsoil identification marker on the topsoil storage pile at the entrance to the 16LT access road from RCR27 was not bolted to the T-Post

TOPSOIL – Rule 4.06

Removal 4.06.2; Substitute Materials 4.06.4(4); Storage and Protection 4.06.3; Redistribution 4.06.4:

Topsoil piles on site were stable and well vegetated with no problems noted with the exception of the following:

- The topsoil pile at the Rock Dust Tank at RCR 27 displayed little vegetation and a substantial amount of rock dust covering the pile. The pile will need to be revegetated and the rock dust removed.



Rock Dust Tank Topsoil Pile

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ENFORCEMENT ACTIONS/COMPLIANCE

No enforcement actions are pending and none were taken as a result of this inspection.
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AVAILABILITY OF RECORDS**PERMIT RECORDS**

DRMS Permit	Exp 5/23/2013
Permit Application w/Revisions	OK
Findings Document	RN5
Insurance Certificate	Exp 11/11/13
Bond Document	SB-008 \$10,056,089
Phased Bond Release	Note 1
Documents/Findings	
Air Emission Permits	93RO1204 Note2
County Special Use Permits	Exp 8/24/14
UG Mining Landowner Notification	11/09/07
Subsidence Monitoring Reports	2012 ARR
Subsidence Monitoring Data	OK
Rill & Gully Survey	NA
Vegetation Monitoring Data	NA
Specific Variance Approvals	NA
Annual Reclamation Reports	2012
Midterm Review Documents	2010
DRMS/OSM Inspection	Through 3/2013
Reports/Enforcement Actions (3 Years)	
Transfers/Succession of Operator	NA
Temporary Cessation Notification	NA
Reclamation Cost Estimate	2010 Midterm
CERTIFICATIONS	
Pond Certifications	PAP
Annual Certifications for Large Impoundments	OK
Fill Certifications for Excess Spoil or Underground Development Waste	1Q 2013
• Quarterly Inspections	1Q 2013
• Compaction Testing	1Q 2013
• Final Certification	NA
Coal Processing Waste Banks	1Q 2013
Haul Road Certifications	PAP ex 25
Access Road Certifications	PAP ex 25

HYDROLOGIC RECORDS

NPDES Permit	Note 3
NPDES Records	1Q 2013
Stormwater Management Plan	2012
SPCC Plan	2011
MSHA Pond Inspections	3/27/2013
	NA
State Engineer's Pond Inspection	
Quarterly Pond Inspections	1Q 2013
Annual Hydrology Reports	2012
• Ground Water Monitoring	AHR
• Surface Water Monitoring	AHR
• Spring & Seep Monitoring	AHR
• Mine Water Discharge Monitoring	AHR
• Mine Inflow Study	AHR
• Water Consumption Records	AHR
Well Permits	OK

BLASTING RECORDS

Blasting Publication	NA
Blasting Records (3 years)	NA
ATFE Explosives Permit	Exp 8/1/2013
Blasting Variances	NA
Pre-Blast Surveys	NA

ADDITIONAL RECORDS (specify)

COMMENTS: 1 – Bond Release Application SL1 is currently under review by the Division 2 – Air Emissions Permit is currently in the renewal process 3 – COG85000 exp 6/30/2013, COG85004 exp 6/30/2013, COG0042161 exp 6/30/2012, CO0027154 exp 8/31/2012, CO0036684 exp 4/30/2012 All expired permits are in the process of renewal with CDPHE

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