



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

PERMIT INFORMATION

Permit Number: C-1981-028 Mine Name: Keenesburg Strip Mine Operator: Coors Energy Company Operator Address: Mr. Danny Kipp 1801 California Street Suite 4600 Denver, CO 80202	County: Weld Operation Type: Surface Permit Status: Active Ownership: Private
	Operator Representative Present: Danny Kipp
Operator Representative Signature: (Field Issuance Only)	

INSPECTION INFORMATION

Inspection Start Date: May 19, 2020 Inspection Start Time: 07:25 Inspection End Date: May 19, 2020 Inspection End Time: 10:30		Inspection Type: Coal Complete Inspection Inspection Reason: Normal I&E Program Weather: Clear	
Joint Inspection Agency: None		Joint Inspection Contacts:	
Post Inspection Agency: None		Post Inspection Contacts:	
Inspector(s): Robert Zuber, P.E.	Inspector's Signature: <i>Robert D. Zuber</i>		Signature Date: 5/19/2020

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

NA - Explosives

Y - Fish & Wildlife

R - Hydrologic Balance

R - Gen. Compliance With Mine Plan

N - Other

NA - Processing Waste

NA - Roads

R - Reclamation Success

Y - Revegetation

NA - Subsidence

Y - Slides and Other Damage

R - Support Facilities On-site

R - Signs and Markers

NA - Support Facilities Not On-site

NA - Special Categories Of Mining

R - Topsoil

COMMENTS

A complete inspection was conducted by Rob Zuber of DRMS. Danny Kipp and Mark Quimby of Coors Energy Company (CEC) were on site, but did not accompany Rob on the inspection. They were performing final grading of the area south of the facilities area (A-1 and B-1 Topsand Piles) and cutting weeds along the edge of the recent reclamation (areas not yet seeded).

The weather was clear and warm. The ground was mostly dry.

Measuring topsand depths took the majority of the time for this inspection.

AVAILABILITY OF RECORDS – Rule 5.02.4(1):

The 2019 AHR/ARR was not seen in the office. Otherwise, the records were in good shape as listed at the end of this report.

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:

Significant volumes of water were observed in the two ponds, but levels were well below spillways, and neither pond was discharging during the inspection. There were no signs that they had discharged recently. As usual, they both contained large amounts of riparian vegetation. No problems were observed with the two ponds.

GENERAL MINE PLAN COMPLIANCE:

Much of the northern boundary of the site (down gradient) was observed, and no signs of pollutant loading from the mine site were seen.

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Number of Complete Inspections this Fiscal Year: 3

RECLAMATION SUCCESS - Rule 4.15, Rule 3:

No problems were observed at the reclaimed areas, other than the usual issues with cheat grass. However, this is a prevalent species on the adjacent lands around the permit area. The cheat grass and other species were very green on the reclaimed areas.

SUPPORT FACILITIES - Rule 4.04:

No problems were seen at the facilities area.

SIGNS AND MARKERS – Rule 4.02:

The entrance sign was in place and contained the necessary information.

TOPSOIL – Rule 4.06

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

To determine if CEC is complying with Rule 4.06.4 and Section 2.05 of the Keenesburg Mine Permit Application Package (PAP), the Division measures the depths of topsand in the reclaimed areas. Page 114b in the PAP states that minimum required depths of topsand are 15 inches at the Long Term Spoil Area, 24 inches at B Pit, and 6 inches at the reclaimed areas that were used for the topsand piles themselves.

The procedure used by the inspector was as follows:

1. Prior to the inspection, GIS computer software (ArcGIS Online) was used to site the desired locations of holes for checking depths on a map of the Keenesburg Mine parcels (based on a map from a recent Annual Hydrology Report).
2. Using Collector for ArcGIS software, the map with the hole locations was uploaded to an iPhone.
3. During the inspection, the iPhone was used to navigate to the locations.
4. Using a hand auger, holes were dug to the approximate required depth, or until the end of the topsand was reached.
5. The depth of the hole was measured with a yardstick.
6. The sand was pushed back in the hole.

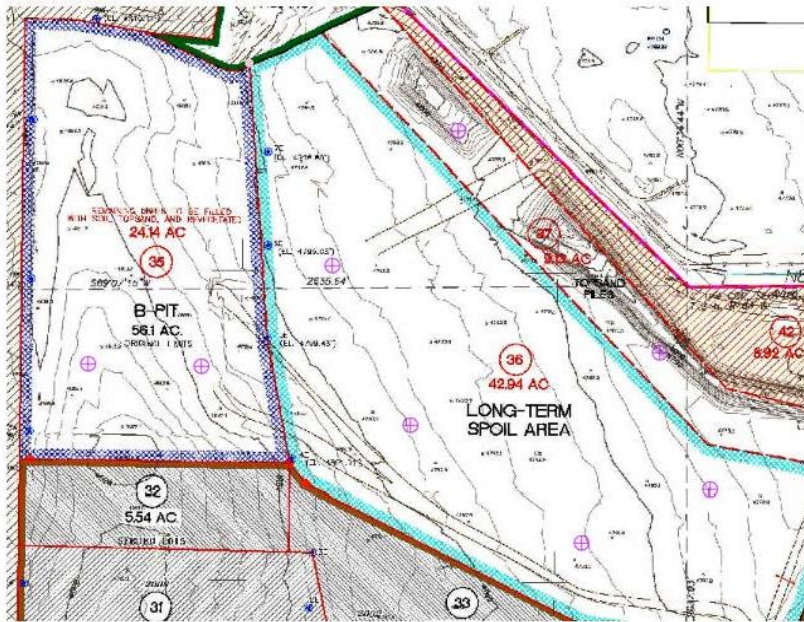
Topsand depths were measured at 10 locations (shown on the figures below):

- The topsand depths at four locations within the Long Term Spoil Area were all found to be greater than 15 inches.
- The topsand depths at two locations within the B Pit were both found to be greater than 24 inches.
- The topsand depths at four locations within the topsand pile areas were all found to be greater than 6 inches.

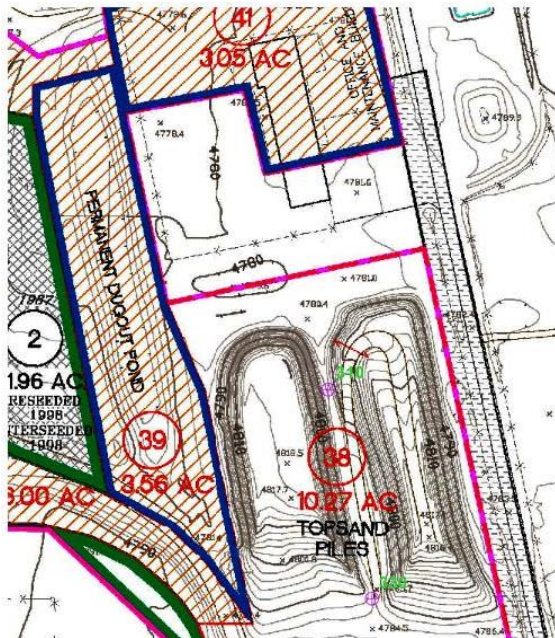
NO PROBLEMS WITH TOPSAND DEPTHS WERE IDENTIFIED.

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**West Map – Locations of holes for checking topsand depths (pink cross-hair symbol)
(two in B Pit area, four in Long Term Spoil Area, and two in topsand pile area)**



**East Map – Locations of holes for checking topsand depths
(two in topsand pile area)**

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ENFORCEMENT ACTIONS/COMPLIANCE

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

PHOTOGRAPHS



Final grading at area where topsand was stockpiled (pile A-1)



Dugout Pond

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Reclaimed road south of Sediment Pond #2



Northeast corner of permit boundary, with Sediment Pond #2 on left

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AVAILABILITY OF RECORDS**PERMIT RECORDS**

DRMS Permit	Exp. Nov 2021
Permit Application w/Revisions	Yes
Findings Document	RN-07 (Aug 2017)
Insurance Certificate	Exp. 11/1/2020
Bond Document	\$1,197,459 (March 2016)
Phased Bond Release Documents/Findings	SL-09 (August 2018)
Air Emission Permits	123008803
County Special Use Permits	Weld #1160, #386
UG Mining Landowner Notification	NA
Subsidence Monitoring Reports	NA
Subsidence Monitoring Data	NA
Rill & Gully Survey	NA
Vegetation Monitoring Data	2018 ARR
Specific Variance Approvals	NA
Annual Reclamation Reports	2018
Midterm Review Documents	MT-07 (April 2019)
DRMS/OSM Inspection Reports/Enforcement Actions (3 Years)	Through February 2020
Transfers/Succession of Operator	NA
Temporary Cessation Notification	NA
Reclamation Cost Estimate	MT-07 (April 2019)
CERTIFICATIONS	
Pond Certifications	Yes
Annual Certifications for Large Impoundments	NA
Fill Certifications for Excess Spoil or Underground Development Waste	NA
• Quarterly Inspections	NA
• Compaction Testing	NA
• Final Certification	NA
Coal Processing Waste Banks	NA
Haul Road Certifications	NA
Access Road Certifications	NA

HYDROLOGIC RECORDS

NPDES Permit	NA
NPDES Records	NA
Stormwater Management Plan	NA
SPCC Plan	Updated 2012
MSHA Pond Inspections	NA
State Engineer's Pond Inspection	NA
Quarterly Pond Inspections	Through 2020 Q1
Annual Hydrology Reports	2018
• Ground Water Monitoring	yes
• Surface Water Monitoring	NA
• Spring & Seep Monitoring	NA
• Mine Water Discharge Monitoring	NA
• Mine Inflow Study	NA
• Water Consumption Records	NA
Well Permits	*1

BLASTING RECORDS

Blasting Publication	NA
Blasting Records (3 years)	NA
ATFE Explosives Permit	NA *2
Blasting Variances	NA
Pre-Blast Surveys	NA

ADDITIONAL RECORDS (specify)

Pest and Weed report	Through 2020 Q1

COMMENTS:

*1 – Domestic use well and fire protection well (048289f, 24650f)

*2 – No explosives used since 1995.

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