




PERMIT INFORMATION

Permit Number: C-1981-028 Mine Name: Keenesburg Strip Mine Operator: Coors Energy Company Operator Address: Mr. Danny Kipp P.O Box 467 Golden , CO 80402	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 10, 2018 Inspection Start Time: 08:00 Inspection End Date: Inspection End Time:		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 D. Zuber, P.E.	Inspector's Signature: 		Signature Date: 5/10/2018

Inspection Topic Summary

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

R - Air Resource Protection**Y** - Roads**R** - Availability of Records**Y** - Reclamation Success**R** - Backfill & Grading**R** - Revegetation**NA** - Excess Spoil and Dev. Waste**NA** - Subsidence**NA** - Explosives**Y** - Slides and Other Damage**R** - Fish & Wildlife**Y** - Support Facilities On-site**R** - Hydrologic Balance**Y** - Signs and Markers**Y** - Gen. Compliance With Mine Plan**NA** - Support Facilities Not On-site**N** - Other**NA** - Special Categories Of Mining**NA** - Processing Waste**R** - Topsoil**COMMENTS**

The weather was clear and warm. The ground was dry. The complete inspection entailed observation of the entire site with Danny Kipp of Coors Energy Company (CEC), with an emphasis on checking topsand depths.

Mr. Kipp indicated that the north end of B-Pit and the north end of the Long-Term Spoil Area will be designated Area 35 on future maps.

AIR RESOURCE PROTECTION – Rule 4.17:

It is possible that CEC may be able to terminate their air quality permit. The Division suggests that CEC staff discuss this with the Air Pollution Control Division of CDPHE.

AVAILABILITY OF RECORDS – Rule 5.02.4(1):

Some records were not current in the inspection notebook, but Danny Kipp found the missing items on his computer and printed them for inclusion in the notebook.

BACKFILL and GRADING – Rule 4.14

Contemporaneous Reclamation 4.14.1; Approximate Original Contour 4.14.2; Highwall Elimination 4.14.1(2)(f); Steep Slopes 4.14.2, 4.27; Handling of Acid and Toxic Materials 4.14.3; Stabilization of Rills and Gullies 4.14.6:

During the inspection, no backfill or grading operations were taking place.

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FISH and WILDLIFE – Rule 4.18:

Several bird species were seen and heard at the mine, mostly near the ponds. A hawk's nest (and adult hawk) was seen in a tree near Topsand Pile A-3. An owl's nest (with juvenile owls) was seen near Sediment Pond 2, and an adult owl was seen flying over the pond.

A bull snake was seen on the road southwest of Area 2.

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:

CEC staff indicated that there had been recent rain on site. Much of the grass on site was green, but the site was not muddy.

Standing water was observed in Sediment Pond 2 and the Dugout Pond. Neither pond was discharging. No problems were observed with the two ponds. The spillway for the Dugout Pond is not well defined but there is no erosion in it, and it does not look like it will be a problem in the future.

REVEGETATION – Rule 4.15

Vegetative Cover; Timing:

Good vegetation was seen at reclamation parcels around the site, including (but not limited to) Areas 23 and 33. Some less desirable species were seen on the edge of Area 23 (wild lettuce and cheat grass). Area 25 contains a large amount of cheat grass. Danny Kipp indicated that CEC will likely apply pre-emergent herbicide in 2018. The vegetation in Area 34 remains sparse, but is not bad after one growing season.

TOPSOIL – Rule 4.06

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

Topsand Pile A-3, Topsand Pile A-1, and Topsand Pile B-1 were observed from below. No erosion or other problems were observed with any of the piles.

Topsand depths were checked where it has been recently spread (see Figure 1 below). This includes:

- Eight holes were dug in the northern part of the B-Pit area.
- Two holes were dug in the northwestern part of the long-term spoil area.
- One hole was dug in area G (northwest of spoil area).

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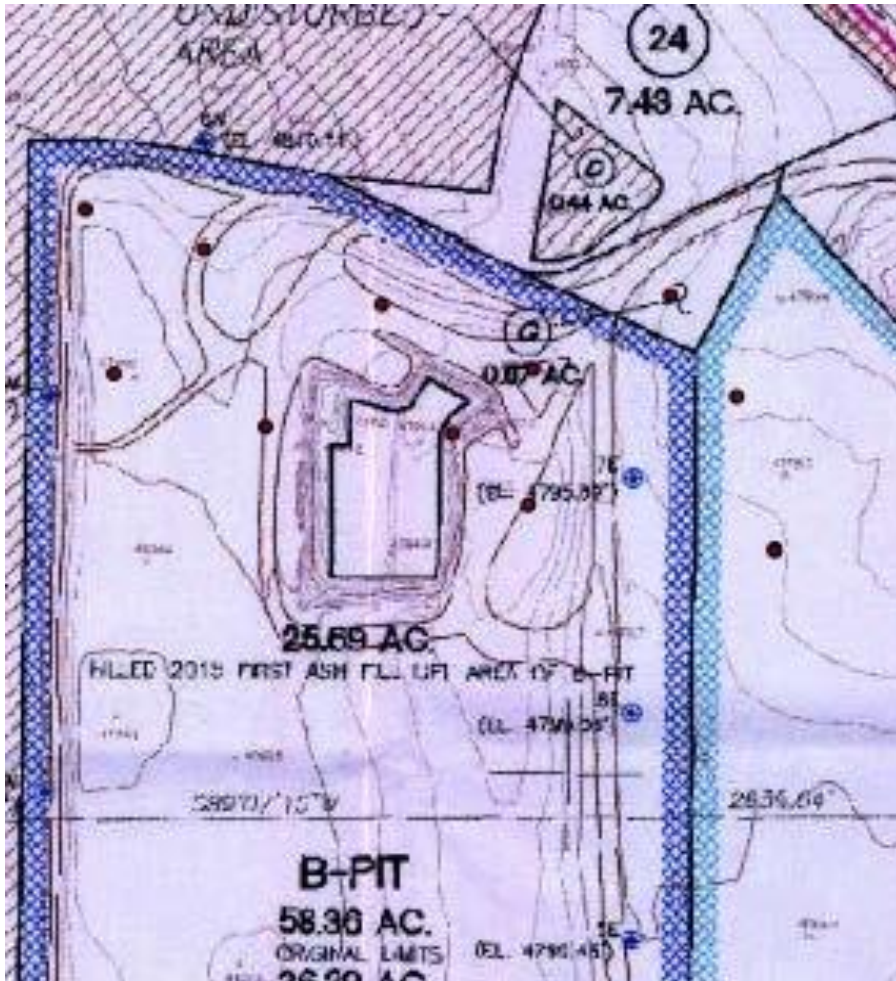


Figure 1. Locations Where Topsand Was Checked

- *Map is an excerpt from the Industrial Land Use map. Note that the east boundary (right side) of the B-Pit is not correct. It will be corrected by CEC (moved to west) with a future revision.*
- *Maroon dots are hole locations.*
- *Points were collected in the field using Collector software on an iPhone and then downloaded to GIS.*

An auger was used to dig until the transition from sand to more clayey material was detected, and a yard stick was used to check the depth. All of the depths outside of the B-Pit area were 15 – 17 inches. All of the depths in the B-Pit area were 24 – 29 inches. Therefore, all of the checked depths met the specification within the Keenesburg Mine permit.

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ENFORCEMENT ACTIONS/COMPLIANCE

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

PHOTOGRAPHS



B-Pit area that requires spoil

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Topsand depth check in Area G



Road and Topsand Pile A-3, looking southeast

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Perimeter ditch on north side of site, looking toward pond (southeast)



Area 33

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Area 23



Area 25 with significant cheat grass

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Sparse grass on new reclamation (Area 34)



Topsand Piles B-1 (left) and A-1

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Dugout Pond



Owl nest beside Sediment Pond 2

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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. 11/1/2018
Bond Document	\$1,197,459 (Mar 2016)
Phased Bond Release Documents/Findings	SL-08 (2016)
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	2017 ARR
Specific Variance Approvals	NA
Annual Reclamation Reports	2017
Midterm Review Documents	MT-06 (2014)
DRMS/OSM Inspection Reports/Enforcement Actions (3 Years)	Through April 2018
Transfers/Succession of Operator	NA
Temporary Cessation Notification	NA
Reclamation Cost Estimate	RN-07 (Aug 2017)
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	Yes
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 2018 Q1
Annual Hydrology Reports	2017
• 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)

COMMENTS:

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

*2 – No explosives used since 1995.

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