




**PERMIT INFORMATION**

<b>Permit Number:</b> C-1981-028 <b>Mine Name:</b> Keenesburg Strip Mine <b>Operator:</b> Coors Energy Company <b>Operator Address:</b> Mr. Danny Kipp P.O Box 467 Golden , CO 80402	<b>County:</b> Weld <b>Operation Type:</b> Surface <b>Permit Status:</b> Active <b>Ownership:</b> Private
	<b>Operator Representative Present:</b>  Danny Kipp
<b>Operator Representative Signature: (Field Issuance Only)</b>  	

**INSPECTION INFORMATION**

<b>Inspection Start Date:</b> September 26, 2018 <b>Inspection Start Time:</b> 08:30 <b>Inspection End Date:</b> September 26, 2018 <b>Inspection End Time:</b> 10:30		<b>Inspection Type:</b> Coal Complete Inspection <b>Inspection Reason:</b> Normal I&E Program <b>Weather:</b> Clear	
<b>Joint Inspection Agency:</b>  None		<b>Joint Inspection Contacts:</b>  	
<b>Post Inspection Agency:</b>  None		<b>Post Inspection Contacts:</b>  	
<b>Inspector(s):</b>  Robert D. Zuber, P.E.	<b>Inspector's Signature:</b>  		<b>Signature Date:</b>  9/26/2018

**Inspection Topic Summary**

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

Y - Air Resource Protection

Y - Availability of Records

R - Backfill &amp; Grading

NA - Excess Spoil and Dev. Waste

NA - Explosives

Y - Fish &amp; Wildlife

R - Hydrologic Balance

Y - Gen. Compliance With Mine Plan

N - Other

NA - Processing Waste

R - Roads

Y - Reclamation Success

R - Revegetation

NA - Subsidence

Y - Slides and Other Damage

Y - Support Facilities On-site

Y - Signs and Markers

NA - Support Facilities Not On-site

NA - Special Categories Of Mining

R - Topsoil

**COMMENTS**

The complete inspection was conducted by Rob Zuber of DRMS and Danny Kipp of Coors Energy Company (CEC). The weather was clear and cool (approximately 50 degrees Fahrenheit at the beginning of the inspection). The ground was dry.

**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. The spoil pile is gone; all of the material has been moved to the B Pit. CEC has begun scraping material from the road west of the Dugout Pond and moving it to the B Pit.

**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:

Standing water was observed in Sediment Pond 2 and the Dugout Pond. Neither pond was discharging during the inspection. No problems were observed with the two ponds. The water in Sediment Pond 2 was estimated to be six to seven feet in elevation below the spillway, suggesting that the pond has more than enough capacity for the 25-year storm. (Per the specifications in the PAP, the water can be four feet below the spillway, and it would still have sufficient capacity. Because of all of the vegetation in the pond, which reduces capacity, additional space is better.)

The water level in the Dugout Pond was much lower than in previous months and several feet in elevation below the spillway, suggesting that the pond has more than enough capacity for the 25-year storm. (Per the specifications in the PAP, the water can be two feet below the top, and it would still have sufficient capacity.

Number of Partial Inspection this Fiscal Year: 2

Number of Complete Inspections this Fiscal Year: 1

Because of all of the vegetation in the pond, three to four feet is better.)

Danny Kipp indicated that the site has experienced very little precipitation in recent weeks.

#### 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):

As mentioned in the BACKFILLING AND GRADING section, CEC has begun to reclaim the roads. No problems with roads were found.

#### REVEGETATION – Rule 4.15

Vegetative Cover; Timing:

Good vegetation was seen at reclamation parcels around the site. Some less desirable species (not in the seed mix but not on the noxious weed list) were seen in Areas 29 and 31 (e.g., horseweed) and on topsand piles (e.g., kochia), but the dominant vegetation is rangeland grasses. Small patches of cheat grass were seen in some areas including the dam of Sediment Pond 2.

Danny Kipp indicated that CEC has been applying pre-emergent herbicide in 2018 around the site. Mark Quinby was mowing the area south of Area 34 (outside of the permit boundary) to prevent the spread of weeds onto the permitted area.

#### TOPSOIL – Rule 4.06

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

No erosion problems were seen at any of the topsand piles.

### **ENFORCEMENT ACTIONS/COMPLIANCE**

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

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## **PHOTOGRAPHS**



**Former site of spoil pile, looking south from Topsand Pile A-3**



**Long-Term Spoil Area, looking southwest from Topsand Pile A-3  
(remaining B Pit in upper right)**

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**Topsand Pile A-3**



**Remaining B Pit**

Number of Partial Inspection this Fiscal Year: 2

Number of Complete Inspections this Fiscal Year: 1





**Section 31**



**Section 29**

Number of Partial Inspection this Fiscal Year: 2

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**Area 34 and mowing operation south of permit, looking south from Topsand Pile A-1**



**Topsand Piles B-1 and A-1 with facilities in the background**

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**Reclamation of road, near southwest corner of Dugout Pond**

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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	*1
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	Through
Reports/Enforcement Actions (3 Years)	August 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 Q3
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	*2

**BLASTING RECORDS**

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

**ADDITIONAL RECORDS (specify)**

Pest and Weed report	Through 2018 Q3

**COMMENTS:**

\*1 – SL-06 findings were found. CEC needs to place SL-09 findings in folder and binder.

\*2 – Domestic use well and fire protection well (048289f, 24650f)

\*3 – No explosives used since 1995.

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