




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



**PERMIT INFORMATION**

<b>Permit Number:</b> C-1992-080 <b>Mine Name:</b> Carbon Junction Mine <b>Operator:</b> Oakridge Energy, Inc. <b>Operator Address:</b> Mr. Michael S. Savage 4610 Haystack Drive Windsor, CO 80550	<b>County:</b> La Plata <b>Operation Type:</b> Surface <b>Permit Status:</b> Inactive <b>Ownership:</b> Private  <b>Operator Representative Present:</b>  None
<b>Operator Representative Signature: (Field Issuance Only)</b>  This report was issued electronically from the Division's Durango Field Office.	

**INSPECTION INFORMATION**

<b>Inspection Start Date:</b> March 26, 2013 <b>Inspection Start Time:</b> 14:45 <b>Inspection End Date:</b> March 28, 2013 <b>Inspection End Time:</b> 12:00		<b>Inspection Type:</b> Coal Complete Inspection <b>Inspection Reason:</b> Normal I&E Program <b>Weather:</b> Cloudy	
<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>  Marcia L. Talvitie, P.E.	<b>Inspector's Signature:</b>  		<b>Signature Date:</b>  04 April 2013

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

A complete inspection of the Carbon Junction Coal Mine was conducted by me, Marcia Talvitie of the Division, during the last week of March 2013. The field portion of the inspection occurred on the afternoon of March 26, and the records were inspected on March 28, 2013.

Skies were overcast during the field inspection, temperatures were in the low 50's, and there was a light breeze blowing.

**PERMITTING UPDATE:**

**RN-04:** The Division is currently conducting an adequacy review of the application for Permit Renewal No. 4. The application was deemed complete on February 8, 2013, and public notice was published by the permittee on February 13, 20 & 27 and March 6, 2013.

**AVAILABILITY OF RECORDS – Rule 5.02.4(1):**

- Mine records were available for review at the offices of Goff Engineering in Durango on Thursday, March 28, 2013. A completed DRMS Availability of Records form is attached to this report.
- *Please refer to the comments at the bottom of the form, and ensure that the referenced items are made available at the repository no later than April 30, 2013.*

**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:

- At the North Pit, zones of concentrated flow identified in a previous inspection report (May 2012) have been stabilized with the insertion of straw wattles (Photo 1). This appears to have been a successful solution; I observed no evidence of continued erosion occurring on the slope.

**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:

- The riprap-lined portions of the Carbon Junction Canyon permanent diversion appeared to be stable, and the twin culverts crossing the paved haul road were clear. A number of shrubs or small trees have sprouted up within the riprap (Photo 2). ***These must be removed in order to not diminish the flow-carrying capacity of the channel.***
- In the upper segment of Carbon Junction Canyon, an opening (breach) has been created through the segment of berm that previously deflected flow away from the natural channel, and a short stretch of the pre-existing temporary channel has been filled in (Photos 3, 4 and 5). [This hydrologic problem area was identified in 2012, and the need for repairs was discussed with the permittee (Chi Chi Ray and Michael Savage) during the July 2012 inspection.] The Division will continue to monitor this location to ensure that flows are directed into the natural channel and that no noxious weed species become established in the area disturbed by these activities.

**RECLAMATION SUCCESS - Rule 4.15, Rule 3:**

- The reclaimed Sediment Pond #1 area was examined on foot and from atop the remnant Topsoil Stockpile #4 (Photo 6). The reclaimed surface is uniformly smooth, with no signs of erosion occurring. 2009 revegetation efforts appear to be meeting with reasonable success.

**REVEGETATION – Rule 4.15**

Vegetative Cover; Timing:

- Small thistle rosettes were appearing on the sump bench at the reclaimed North Mine.

**TOPSOIL – Rule 4.06**

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

- The side slopes of Topsoil Stockpile No. 4 (Photo 7) appear to be generally stable with respect to erosion. However, there are rills or gullies (possibly the result of vehicle tracks) beginning to appear on the northeastern slope, which is substantially steeper than the remainder of the stockpile (Photo 8).

**ENFORCEMENT ACTIONS/COMPLIANCE**

No enforcement actions were issued as a result of this inspection, and none are pending.





Photo 1 – Straw wattles stabilizing rill on North Pit slope, above middle bench



Photo 2 – Vegetation growing in Carbon Junction diversion (circled in orange)

Number of Partial Inspection this Fiscal Year: 1

Number of Complete Inspections this Fiscal Year: 3



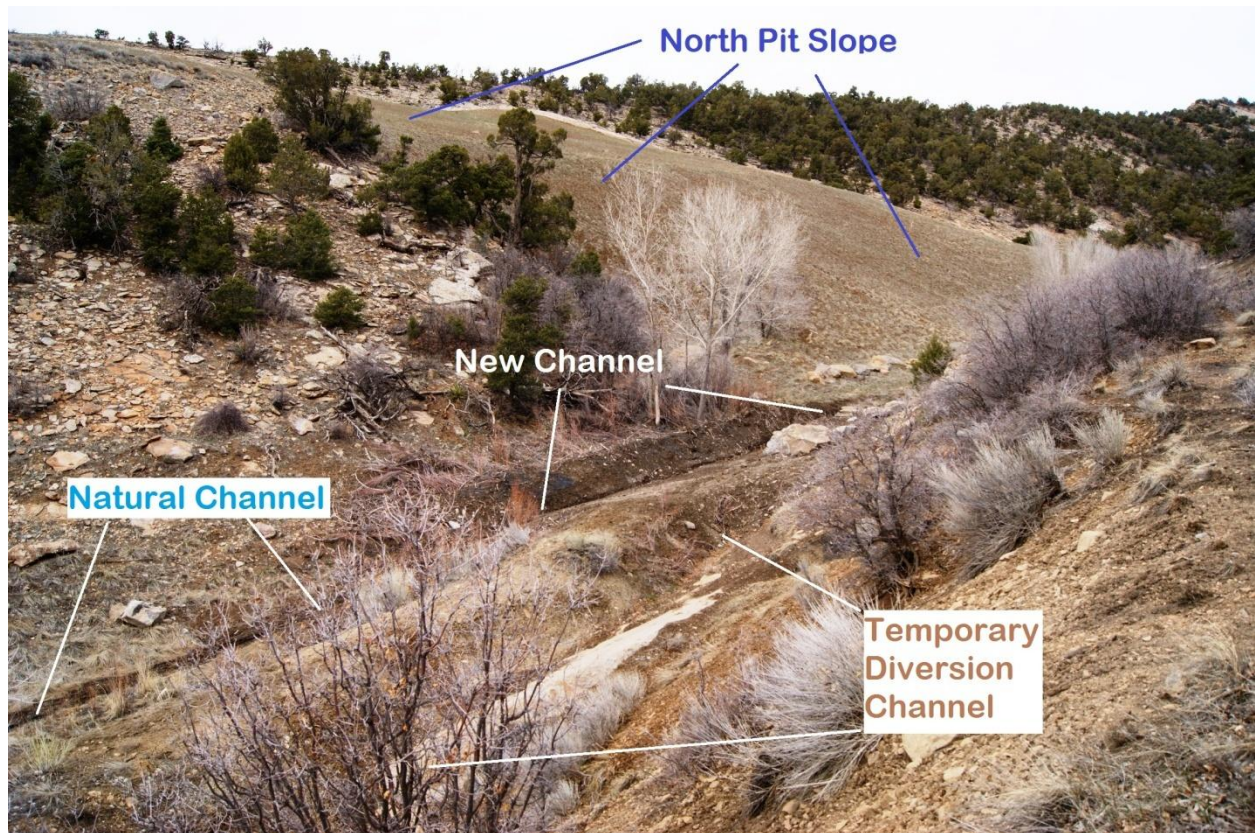


Photo 3 – Location of Carbon Junction Canyon improvements, looking NE



Photo 4 – Relative positions of berm, former diversion, natural and new channels, looking W

Number of Partial Inspection this Fiscal Year: 1

Number of Complete Inspections this Fiscal Year: 3





Photo 5 – Looking downstream at newly graded Carbon Junction Canyon segment



Photo 6 – Reclaimed site of former Sediment Pond #1 (approx.)

Number of Partial Inspection this Fiscal Year: 1

Number of Complete Inspections this Fiscal Year: 3



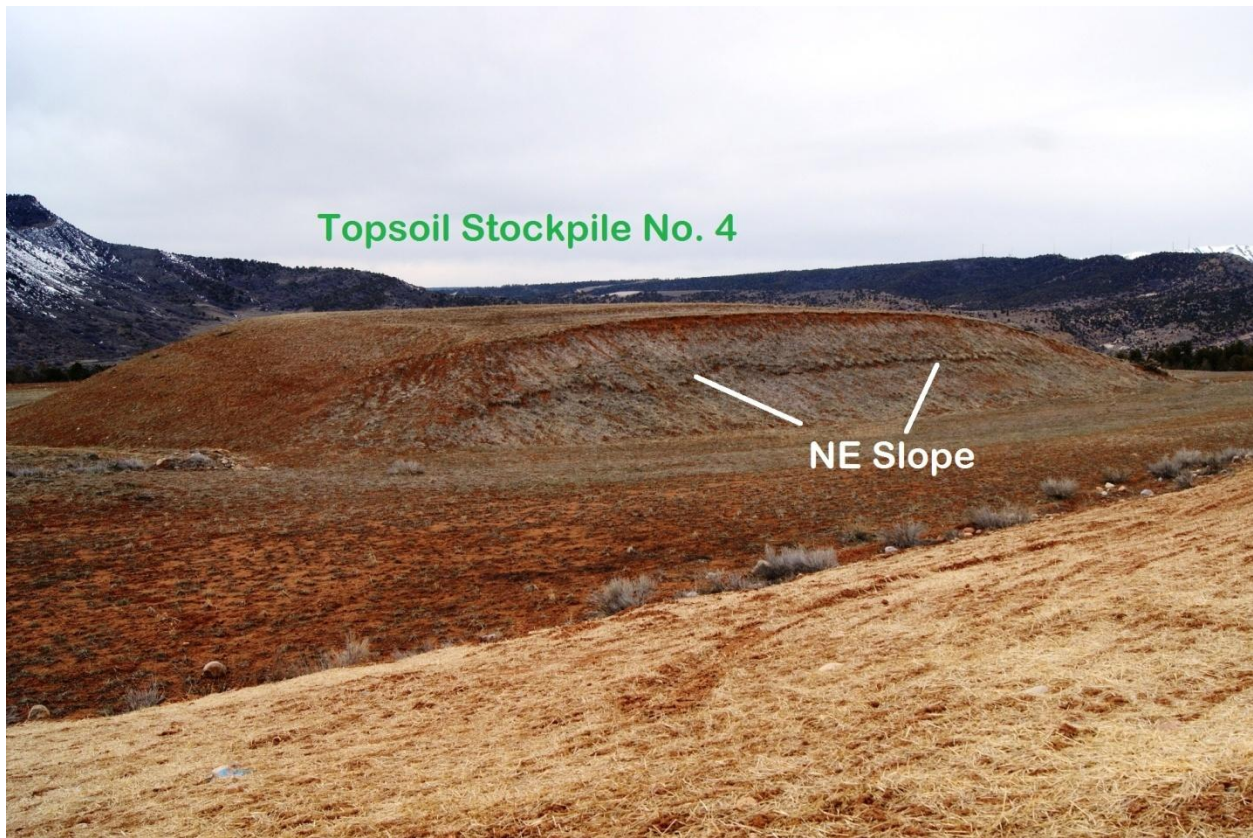


Photo 7 – Topsoil Stockpile No. 4, looking NW

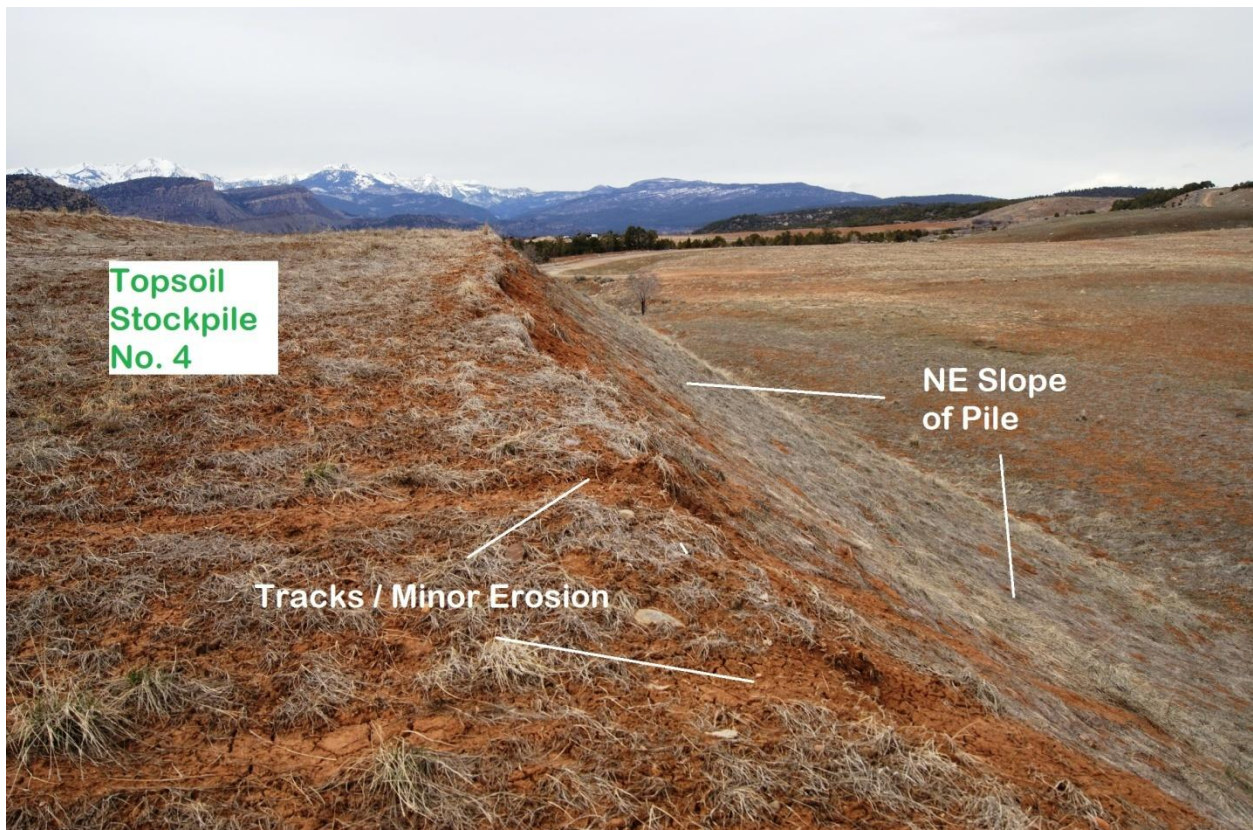


Photo 8 – Slope break and tracks/erosion on northeastern flank of Topsoil Stockpile No. 4

**AVAILABILITY OF RECORDS****PERMIT RECORDS**

DRMS Permit	Yes(Exp07/31/2013)
Permit Application w/Revisions	Yes
Findings Document	Yes (RN-03)
Insurance Certificate	Yes(Exp12/05/2013)
Bond Document	Yes
Phased Bond Release Documents/Findings	Yes (SL-1,2,3,4)
Air Emission Permits	n/a
County Special Use Permits	Yes
UG Mining Landowner Notification	n/a
Subsidence Monitoring Reports	n/a
Subsidence Monitoring Data	n/a
Rill & Gully Survey	n/a
Vegetation Monitoring Data	n/a
Specific Variance Approvals	
Annual Reclamation Reports	Yes (thru 2012)
Midterm Review Documents	**
DRMS/OSM Inspection Reports/Enforcement Actions (3 Years)	**
Transfers/Succession of Operator	n/a
Temporary Cessation Notification	n/a
Reclamation Cost Estimate	Yes
<b>CERTIFICATIONS</b>	
Pond Certifications	Yes
Annual Certifications for Impoundments	Yes
Fill Certifications for Excess Spoil or Underground Development Waste	Yes
• Quarterly Inspections	n/a
• Compaction Testing	n/a
• Final Certification	Yes
Coal Processing Waste Banks	n/a
Haul Road Certifications	Yes
Access Road Certifications	n/a

**HYDROLOGIC RECORDS**

NPDES Permit	Terminated?
NPDES Records	Yes
Stormwater Management Plan	**
SPCC Plan	n/a
MSHA Pond Inspections	n/a
State Engineer's Pond Inspection	n/a
Quarterly Pond Inspections	Yes
Annual Hydrology Reports	**
• Ground Water Monitoring	Yes
• Surface Water Monitoring	Yes
• Spring & Seep Monitoring	Yes
• Mine Water Discharge Monitoring	n/a
• Mine Inflow Study	n/a
• Water Consumption Records	n/a
Well Permits	Yes

**BLASTING RECORDS**

Blasting Publication	n/a
Blasting Records (3 years)	n/a
ATFE Explosives Permit	n/a
Blasting Variances	n/a
Pre-Blast Surveys	n/a

**ADDITIONAL RECORDS (specify)**

RN-04 Application	Yes

**COMMENTS:**

\*\* Midterm Review No. 4 (Jan-2011) not provided

\*\* 2012 and 2013 Reports not provided

\*\* WQCD letter in the file indicated that the NPDES permit should be replaced with a Stormwater permit -- has a stormwater permit been obtained?

\*\* 2012 AHR not found