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

PERMIT INFORMATION

Permit Number: C-1981-046 **Mine Name:** Sunlight Mine **Operator:** Garfield Energy Corporation **Operator Address:**	**County:** Garfield **Operation Type:** Underground **Permit Status:** Revoked **Ownership:** Private
	Operator Representative Present: None
Operator Representative Signature: (Field Issuance Only)	

INSPECTION INFORMATION

Inspection Start Date: September 9, 2013 **Inspection Start Time:** 09:00 **Inspection End Date:** September 9, 2013 **Inspection End Time:** 13:30	**Inspection Type:** Coal Complete Inspection **Inspection Reason:** Normal I&E Program **Weather:** Cloudy
Joint Inspection Agency: None	**Joint Inspection Contacts:**
Post Inspection Agency: None	**Post Inspection Contacts:**

Inspector(s):	**Inspector's Signature:**	**Signature Date:**
Brock F. Bowles Steve Renner	Brock Bowles	September 11, 2013

Inspection Topic Summary
NOTE: **Y**=Inspected **N**=Not Inspected **R**=Comments Noted **V**=Violation Issued **NA**=Not Applicable

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

COMMENTS

This was a complete inspection of the Sunlight Mine conducted by Brock Bowles and Steve Renner of the Colorado Division of Reclamation, Mining and Safety on September 9, 2013. Darnell Oxford of Red Dog Enterprises, was also present for the inspection. The permit for this mine was revoked and the bond was forfeited. The reclamation was completed by the Division. Weather conditions were overcast and rain started about 12:30. The purpose of this inspection was to evaluate the subsidence above the lower portal noted in previous inspection reports (June 2013, April 2013, September 2012, September 2010 and July 2013). The subsidence was located in the tall grass approximately 12 feet inby of the lower portal seal (photo 1). The subsidence hole is approximately 3 feet deep by 5 feet across.

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:

The concrete block mine portal seal was backfilled and graded to approximate original contour (photo 2). The excavated subsidence area at the lower portal was backfilled and graded to approximate original contour (photo 3). The drainage ditch in front of the mine seal was backfilled. The remainder of the ditch to the east of the portal was not backfilled.

REVEGETATION – Rule 4.15 Vegetative Cover; Timing:

The surface of the excavated hillside was left in a rough condition and clumps of sod and shrubbery were placed randomly (photo 3). Flat areas disturbed and/or compacted by the machinery were roughened with the bucket of the loader (photo 4). Steve Renner will seed the entire disturbed area in October.

SUBSIDENCE – Rule 4.20:

The wood cribbing around the mine seal was collapsed and removed (photo 5). The wood debris was buried in the ditch to the east of the mine seal/portal. The portal seal was not disturbed or damaged during the cribbing removal (photo 6). Steve Renner explained that the mine seal is a double wide concrete block wall reinforced with rebar. The mine seal/portal was buried with soil. The soil came from a berm located on the mine

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property approximately 40 feet in front of the mine portal.

The subsidence area was excavated. The excavated soil was very soft and sandy and had little consolidation. The mine adit was found at approximately 7.5 feet below the surface (photo 7). The mine adit was approximately 4 feet in diameter. Within the adit, there was evidence of collapsing including a large rock.

The mine adit was excavated for another 5 feet, horizontally inby. At 24 feet inby of the mine seal, the top of the mine adit was 11 feet below the surface (photo 8). At this point the adit had collapsed and only small hand-sized openings in the soil existed (photo 9). The entire length of the mine adit up to this point was collapsed.

The mine adit is approximately 4 feet in diameter and the overburden at the last excavation was 11 feet thick. The mine adit went in a northwesterly direction and appeared to be declining. The surface topography in the direction of the mine adit is inclining. It was determined that if any non-collapsed sections of the mine adit beyond this point should later collapse, it would only have a small subsidence expression on the surface and a mine adit opening is unlikely.

PHOTOGRAPHS

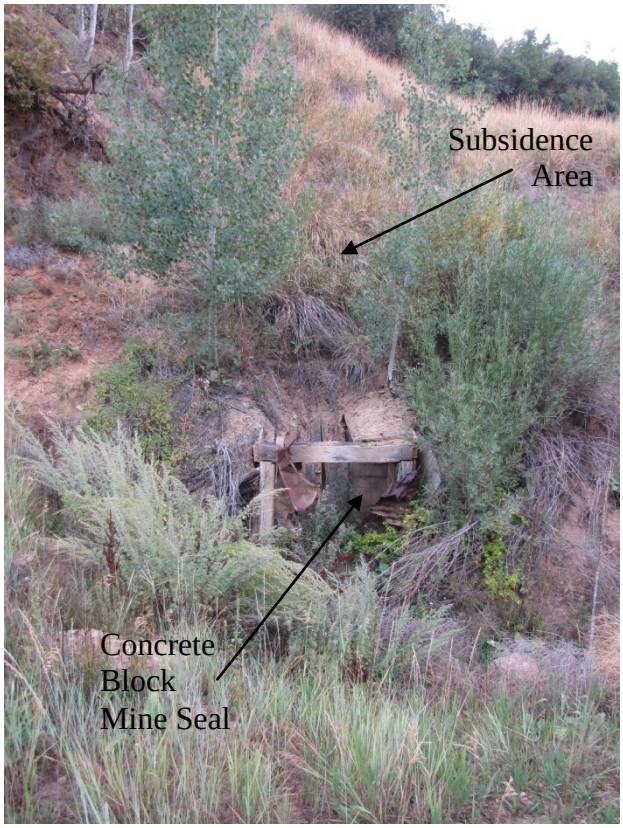

Photo 1 – Location of Subsidence


Photo 2 – Mine Seal Backfilled with Soil

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Photo 3 – Excavation Re-Contoured to AOC

Photo 4 – Compacted Areas Roughened with Loader

Photo 5 – Removing Wood Cribbing

Photo 6 – Concrete Block Mine Seal

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Photo 7 – Mine Adit 7.5 Feet Below Surface

Photo 8 – Mine Adit 11 Feet Below Surface

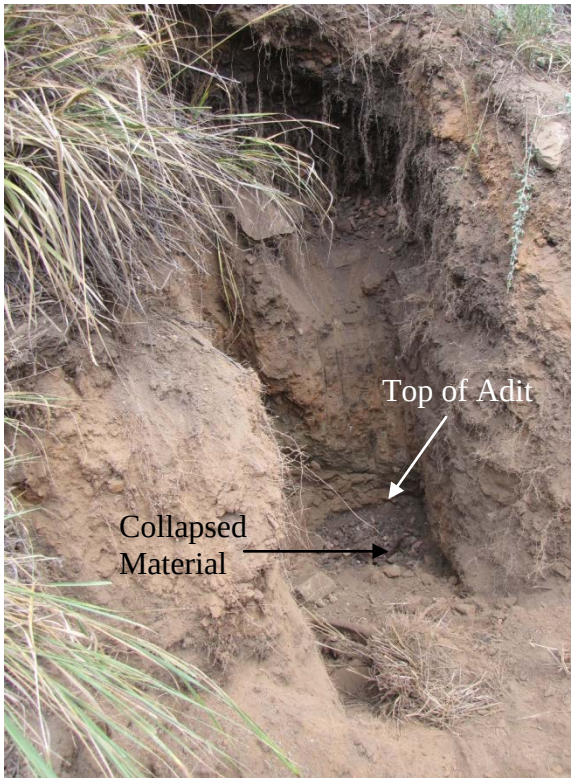

Photo 9 – Collapsed Adit

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