




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

1313 Sherman Street, Room 215, Denver, CO 80203 P 303.866.3567 F 303.832.8106 <http://mining.state.co.us>

PERMIT INFORMATION

Permit Number: C-2010-089 Mine Name: New Horizon North Mine Operator: Elk Ridge Mining and Reclamation, LLC Operator Address: Mr. Tony Tennyson 5731 State Highway 13 Meeker, CO 81641	County: Montrose Operation Type: Surface Permit Status: Active Ownership: Private
	Operator Representative Present: Frank Ferris and Tom Fry
Operator Representative Signature: (Field Issuance Only) 	

INSPECTION INFORMATION

Inspection Start Date: July 18, 2018 Inspection Start Time: 11:00 Inspection End Date: July 18, 2018 Inspection End Time: 16:00		Inspection Type: Coal Partial 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): Brock F. Bowles	Inspector's Signature: 		Signature Date: July 25, 2018

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

R - Hydrologic Balance

R - Gen. Compliance With Mine Plan

N - Other

N - Processing Waste

N - Roads

N - Reclamation Success

N - Revegetation

N - 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

R - Topsoil

COMMENTS

This was a partial inspection of the New Horizon North Mine conducted by Brock Bowles of CDRMS. Frank Ferris of ERMR was present for the entire inspection. The weather conditions were partly cloudy and the temperature was approximately 90F.

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 remaining part of the pit has been backfilled and graded.

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:

Pond 1 contained water but was not discharging. The embankment appeared to be stable and the discharge structures were clear of obstructions.

Pond 2 contained water but was not discharging. The embankment appeared to be stable. The inlet structures were in good condition and the spill ways were free of obstructions.

GENERAL MINE PLAN COMPLIANCE:

The center pivot irrigation structure has been erected (photo 1). The landowner, Dustin Garvey (photo 2), was digging up the underground water line so it can be attached to the center pivot. The electrical lines have not been installed yet.

TOPSOIL – Rule 4.06

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

Topsoil was being ripped by the road grader in the area where the last of the pit was backfilled. Topsoil was being spread by haul truck and dozer on the roadway leading to the former pit area.

Number of Partial Inspection this Fiscal Year: 1

Number of Complete Inspections this Fiscal Year: 0

Topsoil depths were verified in four more locations where the topsoil has been final graded. The four new locations are TS29 (16"), TS23 (23"), TS22 (24") and TS8 (30"). See the attached map for all sample locations and measured depths. The topsoil sample points are in a 500 foot grid formation. Point TS29 was moved approximately 200 feet south because it landed in an undisturbed area.

Topsoil was replaced up to the undisturbed area and was graded to match the approximate original contour of the surrounding area (photo 3).

Topsoil pile 4 ring ditch was in good condition.

ENFORCEMENT ACTIONS/COMPLIANCE

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

PHOTOGRAPHS



Photo 1 – Center Pivot Irrigation Structure



Photo 2 – The Black Underground Water Line



Photo 3 – Topsoil Replacement Next to Undisturbed Area

Number of Partial Inspection this Fiscal Year: 1

Number of Complete Inspections this Fiscal Year: 0

Topsoil Verification Location and Depths Map 2.05.4(2)(d)-1

Inspection Points

TS26 18in

TS27 17in

TS28 15in

TS29 16in

TS20 23in

TS21 24in

TS22 24in

TS23 23in

TS14 27in

TS13 27in

Garvey & Co. Property

TS8 30in

TS9 25in

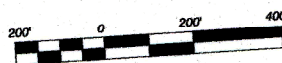
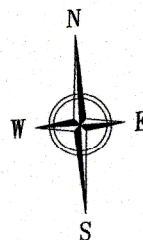
TS11 25in

TS12 22in

TS5 28in

LEGEND

- PERMIT BOUNDARY
- - - DISTURBANCE BOUNDARY
- PROPERTY BOUNDARY
- POST-MINE CONTOURS
- DRYLAND PASTURE (GARVEY & CO.)
MINIMUM TOPSOIL THICKNESS - 1.2 FEET
- IRRIGATED PASTURE (GARVEY & CO.)
MINIMUM TOPSOIL THICKNESS - 1.8 FEET
- DRYLAND PASTURE (ERMIR - MEEHAN)
MINIMUM TOPSOIL THICKNESS - 1.2 FEET
- DRYLAND PASTURE (GLASIER)
MINIMUM TOPSOIL THICKNESS - 2.0 FEET
- DELINEATED WETLANDS



CONTOUR INTERVAL 10 FT.
POST MINE TOPOGRAPHY



JASON S. STOREY
P.E. No. 48092

DATE 08/09/2017

ENGINEER'S CERTIFICATION
I, Jason S. Storey, hereby certify that this map has been reviewed by me and is true and correct to the best of my knowledge and information, relying on information supplied by experts employed by New Horizon Mine and that I am a Professional Engineer licensed in Colorado as required by the provisions of C.R.S. 12-25-101 through C.R.S. 12-25-119. IN WITNESS WHEREOF I have hereunder set my hand and affixed my seal.

RECEIVED

AUG 10 2017

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