

**Petroglyph Energy, Inc.**  
**Well Pad Final Reclamation Evaluation**

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**Well Name: Martinez 07-07**

**Evaluation Date:** July 14, 2015

**Evaluated by:** Wayne Erickson, Principal Scientist, Habitat Management, Inc.

**Current Condition**

Martinez 07-07 has fair establishment of grasses and forbs on about 15% of the well pad. The establishing reclaimed plant community has a good diversity of graminoids and forbs, there are few to no sub-shrubs and shrubs. On about 85% of the well pad there is little to no establishment of desirable plant species. This is primarily caused by very dense noxious weed and weedy species infestations.

Cheatgrass (*Bromus tectorum*) is the one noxious weed presently growing on this site (both the well pad and the access road). Also, tall tumbled mustard (*Sisymbrium altissimum*) is growing in high density stands on this site. Tall tumbled mustard stands are scattered throughout the cheatgrass infestations. Together these two plant species are adversely impacting the establishment and growth of desirable plant species in the reclaimed plant community across 85% of the well pad.

Tall tumbled mustard is not classified by the State of Colorado as a noxious weed. Cheatgrass is on the Colorado List C. Control of this List C species is recommended but not required by Huerfano County. Please note that COGCC requires control of this List C species when it is adversely impacting the establishment of desired perennial plant species.

Compacted soils are not affecting plant growth on this site. Excessive soil erosion associated with storm water runoff was not observed.

**Recommended Actions**

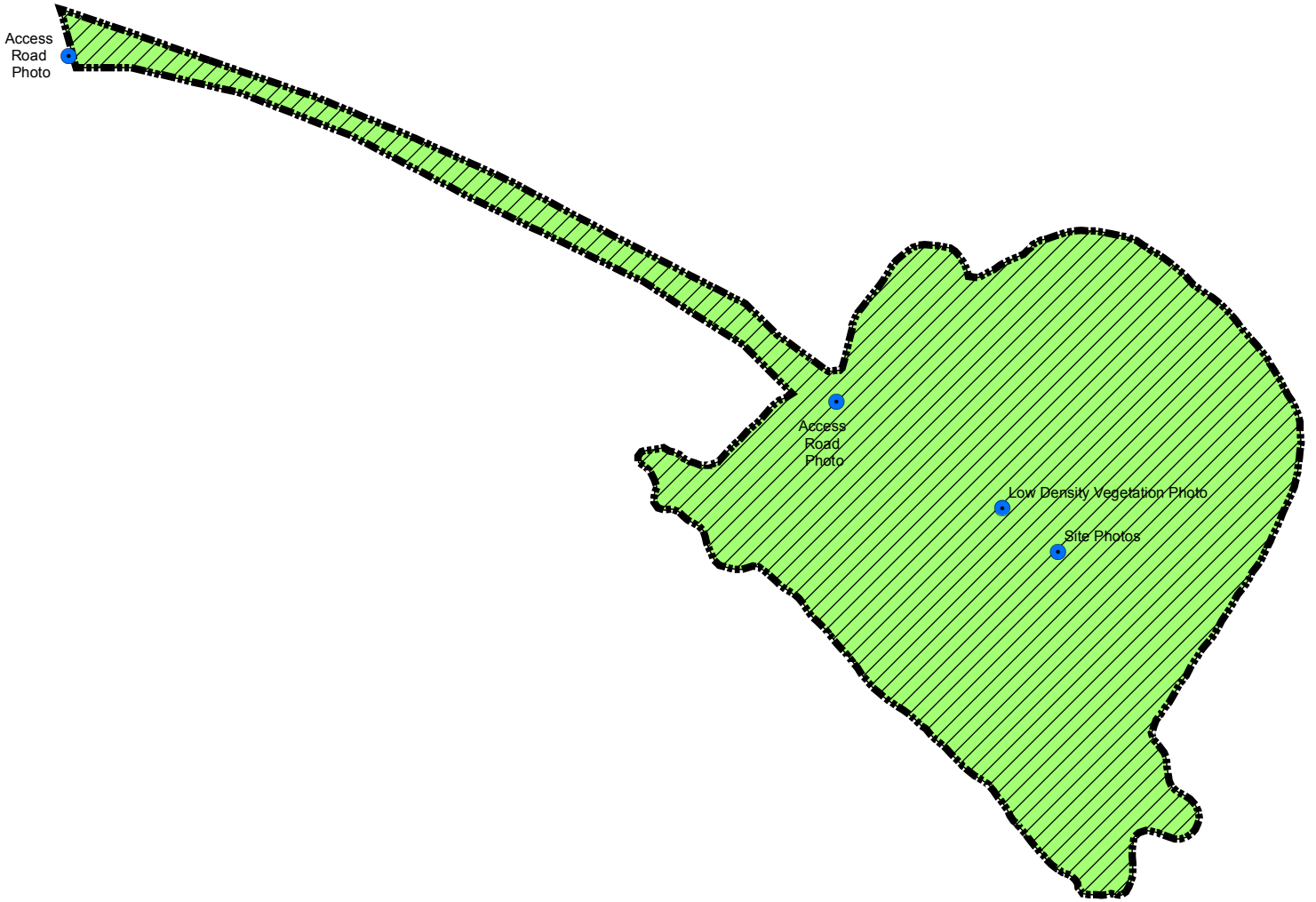
Cheatgrass should be treated in late summer or fall with an appropriate germination inhibiting herbicide. Tall tumbled mustard should be treated in the spring with spot-applications of an appropriate broadleaf selective herbicide. Appropriate fall and spring herbicide treatment of these two plant species will reduce seed production and inter-plant competition in 2016 and facilitate the establishment of desirable perennial plant species. Long-term cultural control of these two plant species will be realized through competition with the establishment of desirable vegetation on the site.

Following 2016 spring weed treatments the pad should be inter-seeded with the approved seed mixture. Following inter-seeding the areas should be raked and then mulched. Woodstraw is preferred for mulching the inter-seeded area, although native hay or cereal grain straw could be used.




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After spring 2016 management activities are completed the site should be checked periodically for germination and establishment of desirable plant species in the inter-seeded areas, adequate control of existing weed infestations, new infestations of other noxious weed species, and for other conditions that may impact successful reclamation of this site.



Management Activity	Acres
Weed Management	1.65
Harrow & Seed	1.65

 Weed Management     ● Photo Point  
 Harrow + Seed  
 Martinez 07-07

N



0      50      100      200  
 Feet

## Petroglyph Energy 2015

*Martinez 07-07*



Evaluated: 7/16/15
Drawn: 12/14/15
Drawn By: RFB

# Martinez 07-07



Access road east end

Photo Date 7/14/2015

Lat: 37.5378726883 Long: -104.8210221553



Access road west end

Photo Date 7/14/2015

Lat: 37.5383699492 Long: -104.8224011068



Looking East

Photo Date 7/14/2015

Lat: 37.5376576666 Long: -104.8206245738



Looking North

Photo Date 7/14/2015

Lat: 37.5376576666 Long: -104.8206245738



Looking South

Photo Date 7/14/2015

Lat: 37.5376576666 Long: -104.8206245738



Looking West

Photo Date 7/14/2015

Lat: 37.5376576666 Long: -104.8206245738



Low vegetation density

Photo Date 7/14/2015

Lat: 37.5377207581 Long: -104.8207244022



Weedy annual vegetation

Photo Date 7/14/2015

Lat: Long: