

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

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**Well Name: Anselmo 12-16**

**Evaluation Date:** July 14, 2015

**Evaluated by:** Lindsey Brandt; Senior Environmental Scientist; Habitat Management, Inc.

**Current Condition**

Vegetation on the Anselmo 12-16 pad is generally well established including perennial grasses with vegetation coverage typical for the region. However, success of the vegetation community is inhibited by a heavy infestation of cheatgrass (*Bromus tectorum*). The aggressive nature of cheatgrass combined with its early germination and growth compared to native species enables the cheatgrass to be a limiting factor in the establishment and persistence of desirable vegetation on the pad. Some areas are also heavily infested with field bindweed (*Convolvulus arvensis*). Weed management alone may be adequate to move the pad into a desirable vegetative condition. This site still contains a Petroglyph Operating Company sign.

**Recommended Actions**

The entire well pad should be treated in the fall of 2014 to minimize the cheatgrass infestation. Prior to herbicide application the site should be mowed to remove the standing dead annual vegetation and allow for effective soil contact of herbicides. A pre-emergent herbicide should be applied to prevent germination of this winter annual.

Areas of poor vegetation establishment indicated on the attached map could be re-seeded using a no-till drill or harrow and broadcast method. The approved seed mix should be used at the approved target rate. Seeding can occur any time from late fall to early spring, as ground conditions allow. Spot mowing of annuals and spot spraying of bindweed and any other noxious dicots should occur in the spring and summer.

After management activities are completed the site should be checked periodically to verify germination of newly seeded areas, for infestations of other noxious weeds, and for other issues that may arise and impact the reclamation area.



Management Activity	Acres
Weed Management	1.61
Harrow & Seed	0.52

 Weed Management    
  Photo Point

 Harrow + Seed

 Well Pad Boundary



## Petroglyph Energy 2015

*Anselmo 12-16*



Evaluated: 7/15/15

Drawn: 12/14/15

Drawn By: RFB

## Anselmo 12-16



Access road

Photo Date 7/14/2015

Lat: 37.5307288464 Long: -104.8356461081



Access road start

Photo Date 7/14/2015

Lat: 37.5301417157 Long: -104.834884378



Looking East

Photo Date 7/14/2015

Lat: 37.5311902598 Long: -104.8355954087



Looking North

Photo Date 7/14/2015

Lat: 37.5311902598 Long: -104.8355954087



Looking South

Photo Date 7/14/2015

Lat: 37.5311902598 Long: -104.8355954087



Looking West

Photo Date 7/14/2015

Lat: 37.5311902598 Long: -104.8355954087



Low vegetation density

Photo Date 7/14/2015

Lat: 37.5309899498 Long: -104.8354254223