

Petroglyph Energy, Inc.
Well Pad Final Reclamation Evaluation

Well Name: Martinez 08-04

Evaluation Date: July 14, 2015

Evaluated by: Robin Bay; Senior Environmental Scientist; Habitat Management, Inc.

Current Condition

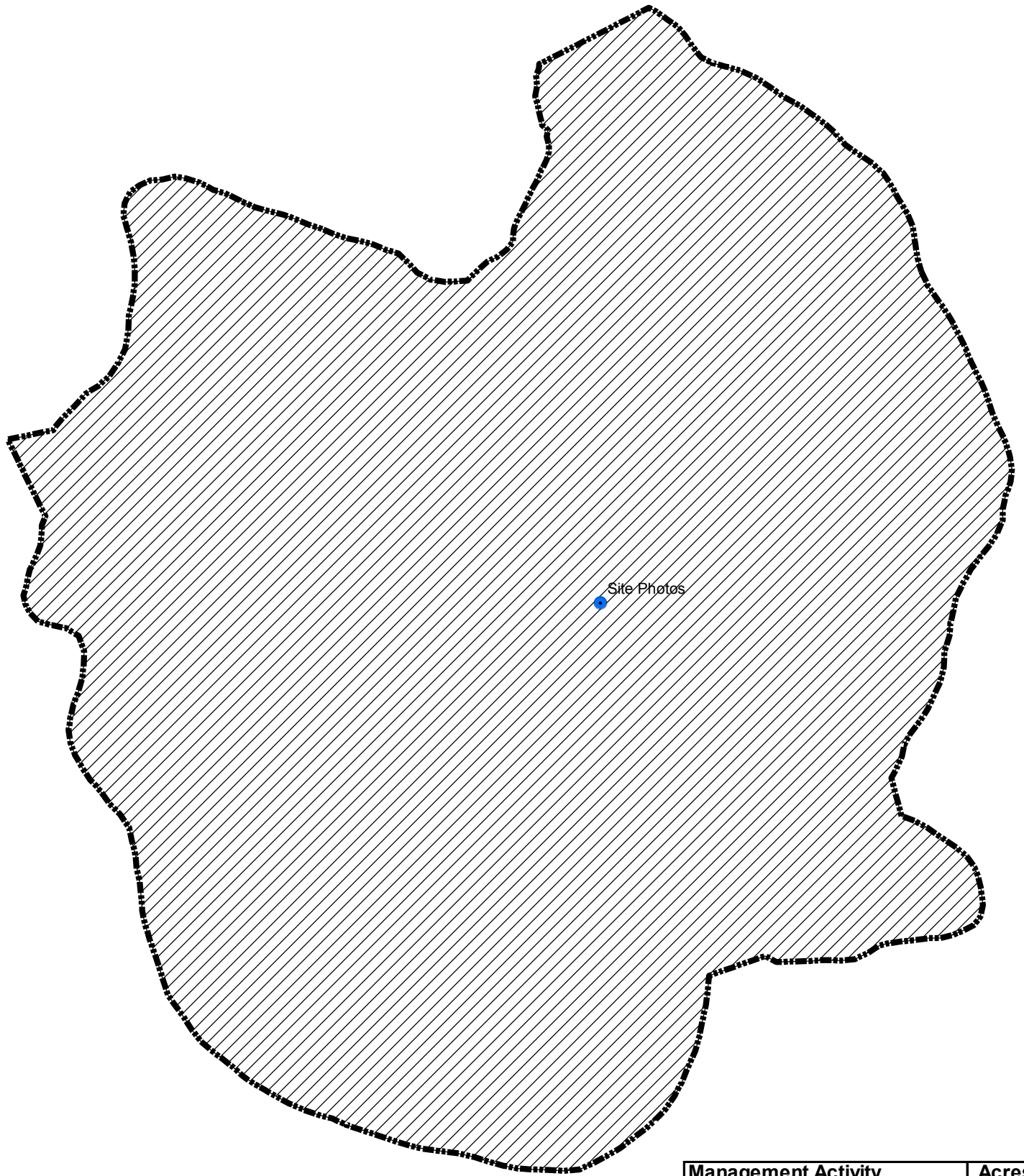
The Martinez 08-04 well pad has a well-established vigorous desirable plant community dominated by western wheatgrass (*Pascopyrum smithii*) and foxtail barley (*Hordeum jubatum*) with substantial cover of needle and thread (*Hesperostipa comata*), bluebunch wheatgrass (*Pseudoroegneria spicata*) and fringed sage (*Artemisia frigida*). However, cheatgrass (*Bromus tectorum*) is also a dominant species on the pad. Annual nuisance weeds are present including prickly Russian thistle (*Salsola tragus*) and common sunflower (*Helianthus annuus*), but these species are not adversely impacting the establishment of the desirable species.

The access road is not reclaimed. The status of this road should be determined and appropriate action taken.




Recommended Actions

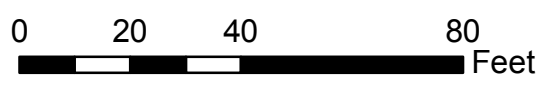
The well pad should be mowed to clear away the standing dead cheatgrass so pre-herbicide can effectively contact the ground surface. The cheatgrass should be treated with a pre-emergent herbicide this fall. The desirable vegetation on this site is mature enough that it will withstand mowing and herbicide treatment. It is expected that the desirable vegetation will be able to continue to establish itself and fill in the areas that are currently dominated by cheatgrass. The site should be evaluated at the end of the 2016 growing season to determine if inter-seeding is needed.

This site should continue to be checked periodically to verify success of cheatgrass control, check for infestations of other noxious weeds, and check for other issues that may arise and impact the reclamation area.



Management Activity	Acres
Weed Management	1.12

-  Weed Management
-  Photo Point
-  Well Pad Boundary



Petroglyph Energy 2015

Martinez 08-04



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

Martinez 08-04



Access road

Photo Date 7/14/2015

Lat: 37.5425562002 Long: -104.8131394968



Looking East

Photo Date 7/14/2015

Lat: 37.542434418 Long: -104.8125776975



Looking North

Photo Date 7/14/2015

Lat: 37.542434418 Long: -104.8125776975



Looking South

Photo Date 7/14/2015

Lat: 37.542434418 Long: -104.8125776975



Looking West

Photo Date 7/14/2015

Lat: 37.542434418 Long: -104.8125776975