

July 9, 2019

Lindsey Rider
EHS Lead
Caerus Oil and Gas
143 Diamond Avenue
Parachute, CO 81635

RE: G11SE Well Pad Final Reclamation Status

Dear Lindsey,

Per your request, WestWater biologists have completed vegetation monitoring for the above referenced reclaimed location. We utilized the Bureau of Land Management's (BLM) Assessment, Inventory, and Monitoring (AIM) strategy for data collection and the resulting data has been entered into the Database for Inventory, Monitoring and Assessment (DIMA). In addition to monitoring the reclaimed area we selected and inventoried a reference site for this location.

Attached you will find the results summary and photos of the reclaim and reference areas. Based on the information we collected this year and our understanding of BLM and Colorado Oil & Gas Conservation Commission (COGCC) final reclamation requirements this site meets the 80% reference criteria for Final Abandonment Notice.

If there is any additional information we can provide or clarify please contact me.

Sincerely,



Environmental Scientist/Project Manager

Percent Cover Summary Table		
	Reference Site	Reclaim Site
% Foliar Cover	118.0	140.3
% Basal Cover	0.0	0.7
% Bare ground	4.0	0.0
% Desirable Foliar Cover	12.0	98.8
% Desirable of Reference Site		823.3
80% Desirable of Reference?	Site meets 80% of reference criteria	

*Percent Foliar Cover represents all points hit along transect of specific species including lower canopy layers; thus, in some cases percent foliar cover can exceed 100%.

Final Reclamation Site Percent Foliar Cover by Species		
Caerus Oil and Gas		
Location:	G11SE	
Date:	7/3/2019	
Plot:	Final Reclamation	
Scientific Name	Common Name	Foliar Cover
Graminoids		
Agropyron cristatum	crested wheatgrass	0.7
Bromus arvensis	field brome	6.7
Bromus inermis	smooth brome	13.3
Bromus tectorum	cheatgrass	0.7
Pascopyrum smithii	western wheatgrass	24.7
Poa bulbosa	bulbous bluegrass	30.0
Poa secunda	Sandberg bluegrass	0.7
Thinopyrum intermedium	intermediate wheatgrass	14.0
Grass cover subtotal		90.8
Desirable grass cover subtotal		52.7
Forbs/Succulents		
Carduus nutans L.	nodding plumeless thistle	0.7
Grindelia squarrosa (Pursh) Dunal	curlycup gumweed	0.7
Lepidium campestre (L.) W.T. Aiton	field pepperweed	0.7
Malva neglecta Walr.	common mallow	0.7
Medicago sativa L.	alfalfa	44.7
<i>Sisymbrium altissimum L.</i>	tall tumbled mustard	1.3
Forb cover subtotal		48.8
Desirable forb cover subtotal		45.4
Shrubs		
Ericameria nauseosa	rubber rabbitbrush	0.7
Shrub cover subtotal		0.7
Desirable shrub cover subtotal		7.0
Trees		
Desirable trees cover subtotal		0

Bold = Desirable Species

Final Reclamation Site Percent Foliar Cover by Species		
Caerus Oil and Gas		
Location:	G11SE	
Date:	7/3/2019	
Plot:	Reference	
Scientific Name	Common Name	Foliar Cover
Graminoids		
Aegilops cylindrica	jointed goatgrass	4.0
Bromus inermis	smooth brome	6.0
Bromus tectorum	cheatgrass	6.0
Poa bulbosa	bulbous bluegrass	54.0
Thinopyrum intermedium	intermediate wheatgrass	2.0
Grass cover subtotal		70.0
Desirable grass cover subtotal		8.0
Forbs/Succulents		
Ceratocephala testiculata	curvseed butterwort	4.0
Chorispora tenella	crossflower	26.0
Lactuca serriola	prickly lettuce	6.0
Sisymbrium altissimum	tall tumbled mustard	8.0
Forb cover subtotal		44.0
Desirable forb cover subtotal		0
Shrubs		
Ericameria nauseosa	rubber rabbitbrush	4.0
Shrub cover subtotal		4.0
Desirable shrub cover subtotal		4.0
Trees		
Desirable trees cover subtotal		

Bold = Desirable Species



Reclaim Transect 1



Reclaim Transect 2








Reclaim Transect 3




Reference Transect



Legend

-  Pad Transect
-  Reference Transect
- Pad Status**
-  Final Reclamation Monitoring
-  Interim Reclamation Monitoring
-  BLM Field Office

G11SE
Caerus Oil & Gas
BLM
Colorado River Valley Field Office
Vegetation Monitoring 2019

 **NestWater Engineering**
 Consulting Engineers & Scientists

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