

Reclamation and Stormwater Inspection

July 11, 2017

Operator: NOBLE ENERGY INC- #100322

Location ID: 445209

Weld County, CO

SWSW Section 11 T9N R59W

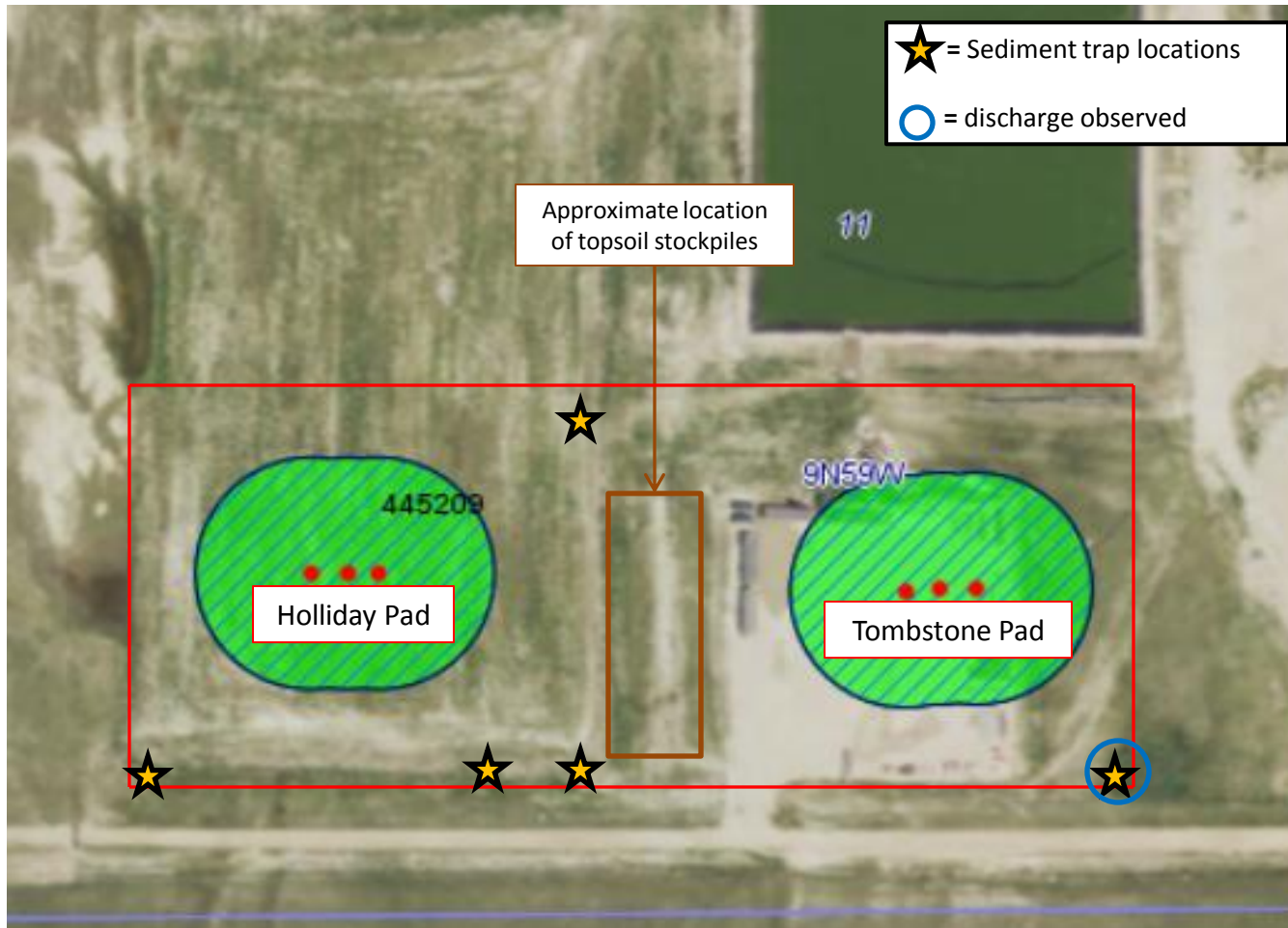
Chris Binschus
Reclamation Specialist, COGCC



COLORADO
Oil & Gas Conservation
Commission

Department of Natural Resources

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Overview of Location ID 445209 associated with the Holliday and Tombstone pads. The star indicates the approximate sediment trap locations. Perimeter of the location highlighted in red. Blue circle indicates a discharge was observed.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209

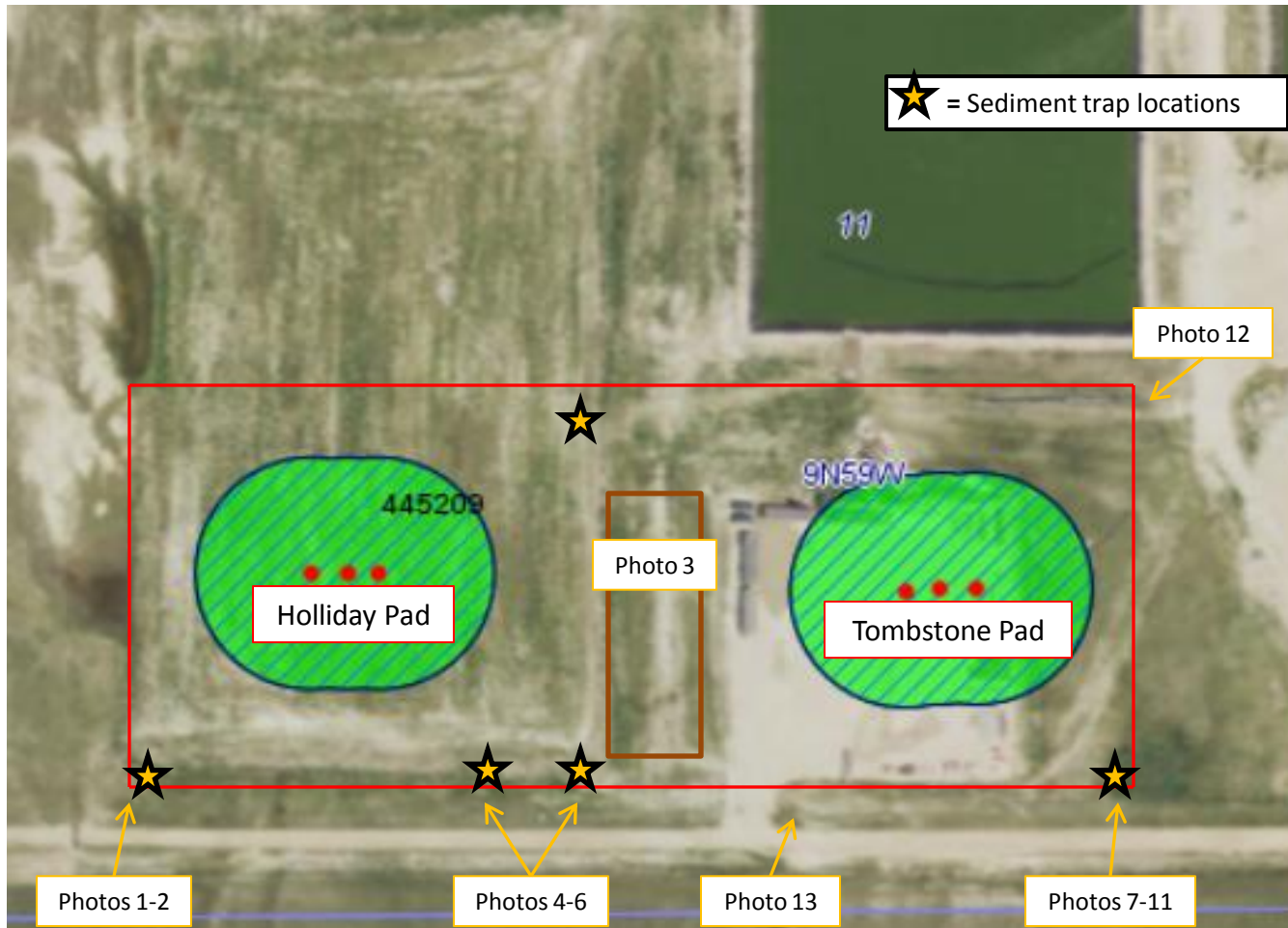


Photo reference points to help illustrate approximate locations of the subject photo.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Photo 1. Photo taken from the southwest Holliday pad, facing South. Sediment trap size was measured at ~5'x4'x1.5' (width x length x depth= 30ft³) with a stabilized outlet. Silt fence BMP has not been properly installed. Silt fence is only pinned down and not buried/back-filled/compacted. Also, silt fence stakes should be installed to the outside of the silt fence, not inside of the silt fence.



Photo 2. Photo taken from the southwest Holliday pad, facing Southeast. Silt fence BMP has not been properly installed. Silt fence is only pinned down and not buried/back-filled/compacted. Also, silt fence stakes should be installed to the outside of the silt fence, not inside of the silt fence.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Photo 3. Photo taken between the Holliday pad and Tombstone pad on top of the topsoil stockpiles, facing South. Topsoil stockpile has predominately Russian thistle growth and Kochia growth which is not in compliance with Rule 1002.c. and Rule 1003. Hydromulch application was observed on the topsoil stockpile but is only a temporary BMP.



Photo 4. Photo taken from the southeast Holliday pad, facing North. Sediment trap size was measured at ~5'x4'x1.5' (width x length x depth= 30ft³) with a stabilized outlet.. Silt fence has not been properly installed. Silt fence is only pinned down and not buried/back-filled/compacted. Also, silt fence stakes should be installed to the outside of the silt fence, not inside of the silt fence. Russian thistle growth observed throughout most disturbance areas.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Photo 5. Photo taken from the southeastern Holliday pad, facing North. Sediment trap size was measured at ~5'x4'x1.5' (width x length x depth= 30ft³) with a stabilized outlet.



Photo 6. Photo taken from the southeastern Holliday pad, facing West. Silt fence improperly installed outside of the perimeter ditch, then surface roughening with filterxx BMP along a portion of the southeastern perimeter. Silt fence is only pinned down and not buried/back-filled/compacted. Also, silt fence stakes should be installed to the outside of the silt fence, not inside of the silt fence.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Photo 7. Photo taken from the southeast location of the Tombstone pad, facing South. Sediment trap size was measured at $\sim 7' \times 4.5' \times 2'$ (width x length x depth= 63ft³) with a stabilized outlet. Sediment discharge was observed beyond the outlet area and beyond the filtrex BMP along the corner of the fence. Refer to photos 9 & 10.



Photo 8. Close up photo taken from the outlet area of the sediment trap illustrating sediment build up which indicate the sediment trap is not built to a sufficient size.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Photo 9. Close up photo taken just beyond the sediment trap at the corner of the fence, illustrating stormwater runoff appears to be washing hydromulch material and sediment off location over the filtrex BMP.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Photo 10. Close up photo taken just beyond the corner of the fence, illustrating stormwater runoff appears to be washing hydromulch material and sediment off location.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209

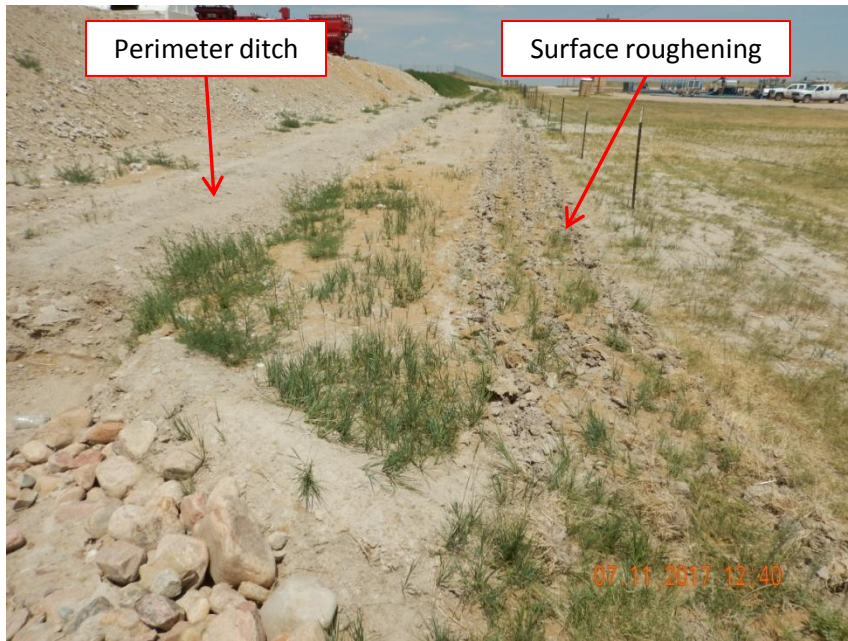


Photo 11. Photo taken from the southeast location of the Tombstone pad, facing North. Perimeter ditch with surface roughening BMP installed along the eastern perimeter. Portions of the fill slope may need additional stabilization as it appears hydromulch does not appear to be consistently observed throughout.



Photo 12. Photo taken from the northeast location of the Tombstone pad, facing Northwest. A berm ~18" has been constructed along the north, east and south pad perimeter, but does not appear to be properly compacted.

Inspection Photos
Location Name: LC11-13 /Pad
Location ID: 445209



Photo 13. Photo taken from the entrance of the Tombstone pad, facing West. Straw wattle BMP does not appear to be properly installed and therefore not properly functioning.