

Reclamation and Stormwater Inspection

August 17, 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

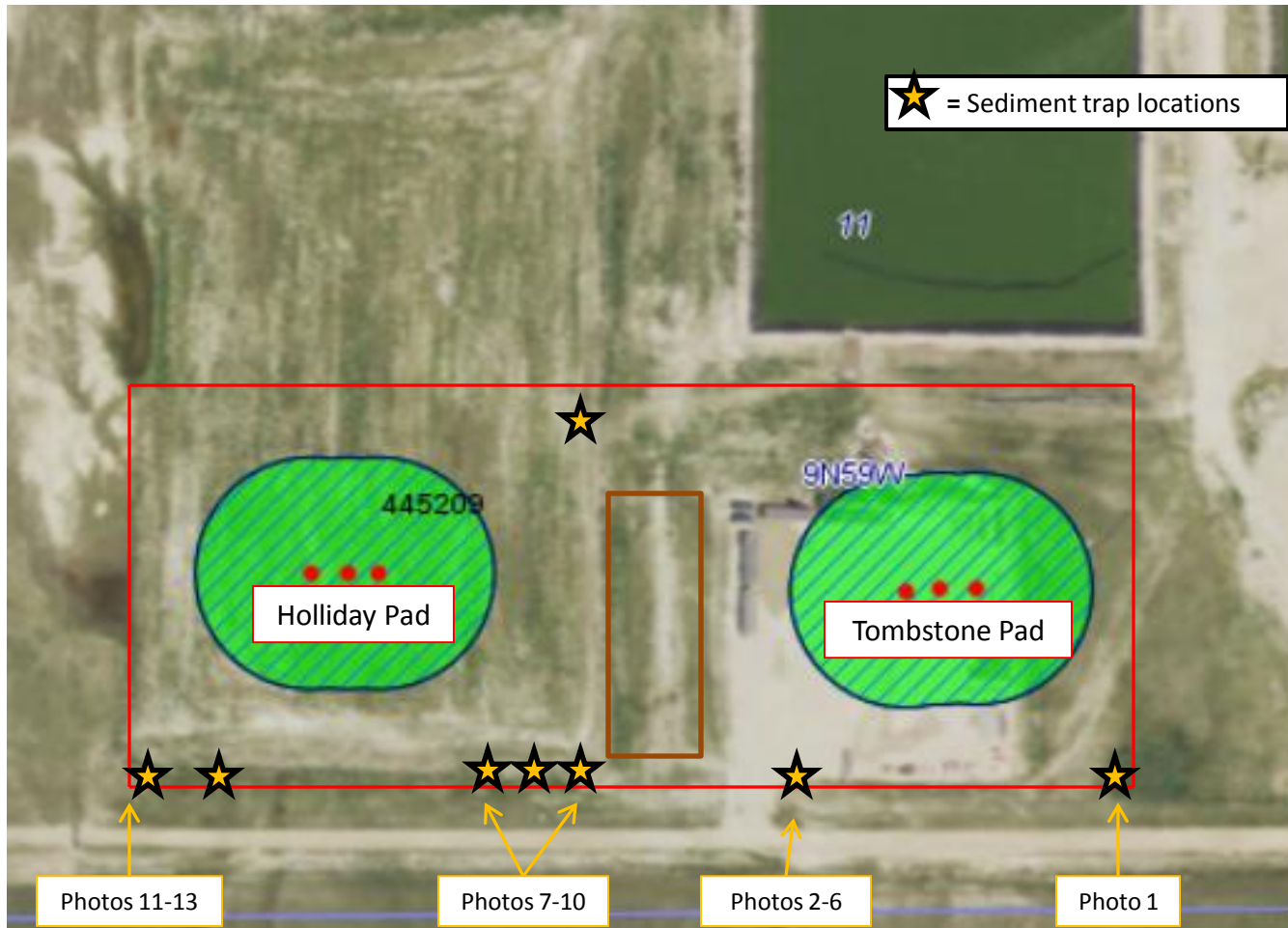


Photo reference points to help illustrate approximate locations of the subject photo.

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Photo 1. Photo taken from the southeast Tombstone pad, facing West. Sediment discharge observed beyond the outlet area of the sediment trap as shown in this photo. Does not appear the wattle BMP beyond the outlet area of the sediment trap is preventing sediment discharge from location. Sediment trap has not been enlarged since the previous inspection on July 11, 2017.

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Photo 2. Photo taken from the entrance of the Tombstone pad, along the east side, facing North. Sediment trap has been installed to capture stormwater runoff from the access road. Gully erosion occurring along the east access road entrance (red circle)- refer to Photo 3.

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Photo 3. Photo taken from the previously mentioned gully erosion along the entrance of the Tombstone pad, facing Northeast.



Photo 4. Photo taken from the cattle guard of the Tombstone entrance, facing West. Cattle guard in need of maintenance. COGCC staff observed a crew cleaning out cattle guard while at location.

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Photo 5. Photo taken from the entrance of the Tombstone pad, along the west side, facing East. Gully erosion occurring along the west entrance access road. Wattle BMPs are not preventing sediment discharge from location.



Photo 6. Photo taken from the entrance of the Tombstone pad, along the west side, facing North. Sediment discharge observed, as the wattle BMP does not appear to be sufficient.

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Photo 7. Photo taken from the cattle guard of the Holliday east entrance, facing East. Cattle guard in need of maintenance.



Photo 8. Photo taken from the entrance of the east Holliday entrance, facing East. Sediment trap does not appear to be a sufficient size and does not appear to be constructed with good engineering practices.

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Photo 9. Photo taken from the entrance of the east Holliday entrance, facing West. Sediment trap does not appear to be a sufficient size.



Photo 10. Photo taken from the previous photo, facing Southwest. Other BMPs (surface roughening and wattles) have been installed downgradient of the outlet area but may not be sufficient because the sediment trap appears too small.

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Photo 11. Photo taken from the cattle guard of the Holliday west entrance, facing West. Cattle guard in need of maintenance.



Photo 12. Photo taken from the entrance of the west Holliday entrance, facing East. Sediment trap does not appear to be a sufficient size. Appears flows have discharged over the embankment berms and around the outlet area.

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Photo 13. Photo taken from the southwest location of the Holliday pad, facing North. Sediment trap does not appear to be a sufficient size and does not appear to be constructed with good engineering practices. Sediment discharge was observed beyond the outlet area of the sediment trap.