

Inspection Photos

2/20/2019

Operator: NOBLE ENERGY INC - 100322

Location ID: 460414

Inspection Doc. Number: 682504514

Weld County, CO

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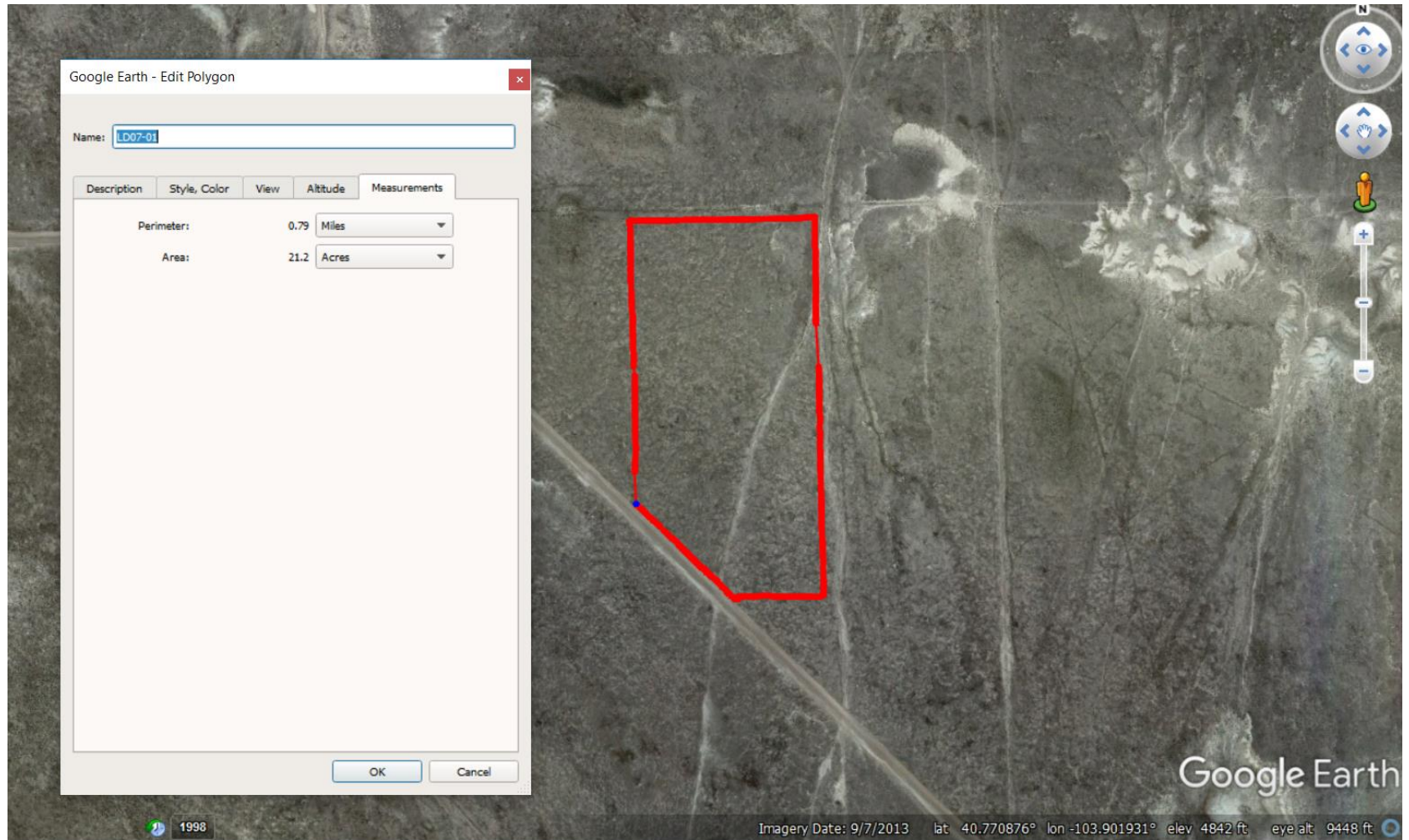


Photo 1: 2013 Google Earth aerial image. Photo shows location disturbance to be 21.2 acres (measured via handheld Trimble GPS unit).



Photo 2: Photo taken from the west end of the location, facing northeast. Photos 2-4 provides an overview of the current disturbance area from northeast, east to south.



Photo 3: See comments under photo 2.



Photo 4: See comments under photo 2.



Photo 5: Photo taken from the west end of the location. Photo shows operator has implemented surface roughening as a perimeter stormwater BMP. Surface roughening is a temporary BMP that should be used in conjunction with other BMPs.



Photo 6: Photo taken from the northwestern area of the disturbance area, facing southeast. Photo shows ongoing wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 7: Photo taken from the west end of the location, facing south. Photo shows ongoing wind erosion transporting sediment offsite from an un-stabilized soil stockpile (arrow). This does not comport with rule 1002.e and 1002.f



Photo 8: Photo taken from the north end of the disturbance area, facing southeast. Photo shows ongoing wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 9: Photo taken from the north end of the location, facing north. Photo shows operator has implemented a “Filtrexx” perimeter control wattle BMP. Based on site conditions (topography), BMP does not appear to be sufficient; BMP does not achieve a 100% soil surface contact, or appear to have the weight to mitigate stormwater runoff and allow for stormwater ponding without trenching and backfilling. Photo shows one example of areas observed on location where BMP has not achieved sufficient soil surface contact.



Photo 10: Continued from photo 9. See comments under photo 9.



Photo 11: Photo taken from the northeast end of the disturbance area, facing southwest. Photo shows ongoing wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 12: Photo taken from the east end of the location, facing west. Photo shows one of the soil stockpiles for the location. Soil stockpile has not been sufficiently stabilized, is currently loose material and at risk to erosion degradation.



Photo 13: Photo of soil stockpile on the north end of the location. See comments under photo 12.



Photo 14: Photo taken from the north end of the disturbance area, facing east. Photo 14-16 shows overview of the current disturbance area from east, to south, to west. Photos also show ongoing wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 15: See comments under photo 14.



Photo 16: See comments under photo 14.



Photo 17: Photo taken from the east end of the location. Photo shows topsoil stockpile on the east end of the location (arrow). Stockpile ~50 feet from inspector, however ongoing wind erosion from the pad has drastically reduced visibility.



Photo 18: Photo taken from the east end of the location, facing south. Photo of topsoil stockpile and wind erosion.



Photo 19: Photo taken from the southeast corner of the location, facing west. Photo shows wind erosion has drastically reduced visibility.



Photo 20: Photo taken from the southeast corner of the location, facing north. Photo shows wind erosion has drastically reduced visibility.



Photo 21: Photo taken from the south end of the location. Photo shows topsoil stockpile. Soil stockpile has not been sufficiently stabilized, is currently loose material and at risk to erosion degradation.



Photo 22: Photo taken from the southwest end of the location, facing northwest. Photos 22-24 provide an overview of the location from northwest, northeast, to east. Photo also shows wind erosion.



Photo 23: See comments under photo 22.



Photo 24: See comments under photo 22.



Photo 25: Photo taken from the southwest end of the location, facing northwest. Photo shows sediment deposition from the pad appears to have almost covered an orange cone. Photo also shows sediment transport and deposition from the pad



Photo 26: Photo taken from the southwest end of the location, facing east. Photo shows on going wind erosion and sediment transport off site.



Photo 27: Photo taken from the southwest corner of the location, facing north. Photo of porta-john that appears to be sufficiently secured.



Photo 28: Photo taken from the southwest corner of the location. Photo shows workers installing a cattle guard on the site.