

Construction and Stormwater Inspection

April 20, 2016

Operator: HIGHLANDS NATURAL RESOURCES CORPORATION- #10625

Location ID: 449920

Arapahoe County, CO

NESE Section 15 T5S R64W

Chris Binschus
Reclamation Specialist, COGCC



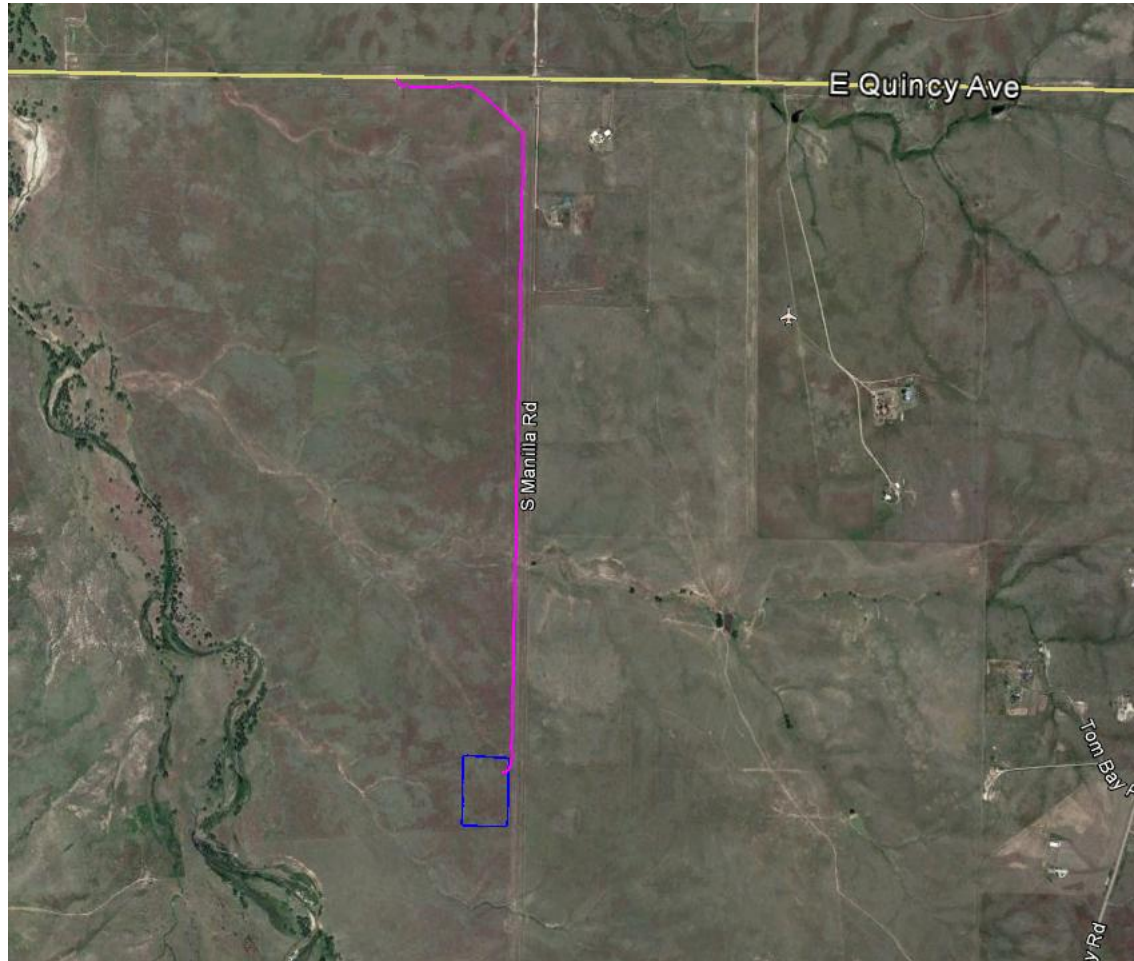
COLORADO
Oil & Gas Conservation
Commission

Department of Natural Resources

Inspection Photos

Location Name: Highlands /5-64 15-16 Pad

Location ID: 449920



Google Earth aerial imagery taken June 14, 2016 of the Highlands /5-64 15-16 Pad overlaid with field collected data using a Trimble handheld GPS from the April 20, 2017 inspection. Aerial imagery illustrates the well pad area (blue) and access road (pink) that was built for the well location.



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Inspection Number: 682402032

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Photo 1. Photo taken from the entrance of the location just off Quincy Ave., facing North. Tracking pad material installed but does not appear to be consistently installed throughout the entrance. However, crushed asphalt has been installed along the entire access road which should minimize sediment discharge via vehicle tracking.



Photo 2. Photo taken from the entrance of the location just off Quincy Ave., facing South. Tracking pad material installed but does not appear to be consistently installed throughout the entrance. However, crushed asphalt has been installed along the entire access road which should minimize sediment discharge via vehicle tracking.

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Photo 3. Photo taken just beyond the entrance off Quincy Ave., facing East. Cattle guard installed in conjunction with a culvert. Crushed asphalt has been installed along the entire access road which should minimize sediment discharge via vehicle tracking.



Photo 4. Photo taken from the cattle guard and culvert, facing North.

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Photo 5. Photo taken from the cattle guard and culvert, facing East. Photo illustrates the crushed asphalt that has been installed along the access road.



Photo 6. Photo taken from along the access road, facing South. Photo illustrates the crushed asphalt that has been installed along the access road. Also, it appears a diversion ditch has been installed along both sides of the entire access road.

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Photo 7. Photo taken along a drainage area on the east side, facing Northwest. Culverts have been installed along the drainage area. This area has potential for erosion along the fill slopes and stormwater runoff from the access road. Did not observe any erosion control BMPs along this area at the time of this inspection.



Photo 8. Photo taken along a drainage area on the west side, facing Northeast. Culverts have been installed along the drainage area. This area has potential for erosion along the fill slopes and stormwater runoff from the access road. Did not observe any erosion control BMPs along this area at the time of this inspection.

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Photo 9. Photo taken from the northeast perimeter of the well pad location, facing West. A ditch and berm BMP has been installed along the entire perimeter of the location.



Photo 10. Photo taken along the northern fill slope, facing South. Fill slope has not been tracked perpendicular to the slope which could increase potential erosion along this area.

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Photo 11. Photo taken from the northwest perimeter of the well pad location, facing South. A ditch and berm BMP has been installed along the entire perimeter of the location.



Photo 12. Photo taken from the southwest perimeter of the well pad location, facing East. A ditch and berm BMP has been installed along the entire perimeter of the location.

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Photo 13. Photo taken from the southwest perimeter of the well pad location, facing North. Operator in the process of installing a retention area for stormwater control. At the time of this inspection, it was unclear how stormwater runoff will be directed to the retention area from the ditch and berm BMP.



Photo 14. Photo taken from the southern location, facing North. Fill slope appears to be properly tracked.

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Photo 15. Photo taken from the southeast perimeter of the well pad location, facing North. A ditch and berm BMP has been installed along the entire perimeter of the location.



Photo 16. Photo taken from the southeast cut slope of the well pad location, facing West. Cut slope along the entire well pad area appears to be properly tracked.

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Photo 17. Photo taken from the southeast cut slope of the well pad location, facing North. Cut slope along the entire well pad area appears to be properly tracked.



Photo 18. Photo taken from the western fill slope of the well pad location, facing North. Fill slope has not been tracked perpendicular to the slope which could increase potential erosion along this area.