

# Inspection Photos

08/28/2019

Operator: P O & G OPERATING LLC - 10634

Well Location ID: 324938

Kit Carson County, CO

Aaron Trujillo

NE Reclamation Specialist

COGCC

## Inspection Photos

Operator Name: P O & G OPERATING LLC - 10634

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**Photo 1:** Photo taken from the north end of the location, facing southeast. Photo shows the reclamation of the location.



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## Inspection Photos

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**Photo 2:** Photo taken from the north end of the location, facing south. Photo shows the reclamation of the location.



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**Photo 3:** Photo taken from the location. Photo shows trash debris (PVC pipe, cable) remaining on location.



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**Photo 4:** Photo taken from the location. Photo shows trash debris remaining on location and partially buried.



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**Photo 5:** Photo taken from the south end of the location, facing south. Photo shows a barrel covering a plastic pipe on location.



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**Photo 6:** Continued from photo 5.



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**Photo 7:** Photo taken from the location. Reclamation specialist conducted a test pit for both compaction and soil concerns. Reclamation specialist observed large quantities of gravel a few inches subsurface.



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**Photo 8:** Continued from photo 7. Photo shows quantities of gravel ~4 inches subsurface. A liquid sheen and a chemical smell was also noticed in the gravel.



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**Photo 9:** Photo shows gravel material with a chemical smell that was excavated from the test pit.



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**Photo 10:** See comments under photo 10.



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**Photo 11:** Photo shows additional soils excavated from the test pit. Similar to the gravel, soils also had a liquid sheen and a chemical smell.





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**Photo 12:** Photo taken from the adjacent reference areas. Photo shows reclamation specialist was able to easily penetrate the top 12-15 inches of soil. Compaction concerns appear evident on location. Reclamation specialist dug a test pit within the reference to compare soils observed on location.



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**Photo 13:** Photo of test pit from the reference area. Photo shows soils observed on the location are not reflective of soils on the adjacent reference area. Soils in the reference did not contain a chemical smell detected in the soils on the location.



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**Photo 14:** Photo of soils excavated from the reference area. Photo shows soils observed on the location are not reflective of soils on the adjacent reference area.



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**Photo 15:** Photo taken the east/west access road north of the location. Photo shows Operator has not conducted final reclamation activities on the east/west section of access road.



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**Photo 16:** Current available Google Earth aerial imagery (2016). Photo shows Sundance Energy's well locations, battery facility and access roads. Operator has not conducted reclamation on the east/west section of access road (yellow arrow) in accordance with COGCC 1004 rules.



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**Photo 17:** 1980 USGS Aerial imager. Photo shows access roads did not pre-exist the Oil and Gas location. Access road is associated industrial oil and gas disturbance subject to COGCC reclamation rules and requirements.



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**Photo 18:** Photo taken from the northeast corner of the battery facility. Photos 18-20 provide an overview of the location from south, southwest to west.



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**Photo 19:** See comments under photo 18.



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**Photo 20:** See comments under photo 18.



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**Photo 22:** Photo taken from the southern end of the facility location, facing north. Photo shows gravel/road base remaining on location.



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## Inspection Photos

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**Photo 23:** Photo shows trash debris observed on location.



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**Photo 24:** Photo shows stained soils observed on the facility location.



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**Photo 25:** Photo taken from the southeast end of the facility location. Photo shows a riser remaining on location. Riser appears to be associated with midstream. This riser is considered associated oil and gas equipment no longer needed on PO&G's location, and is required to be removed and reclaimed. It is the COGCC's expectation that PO&G will collaborate with the midstream company in removing the equipment.



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**Photo 26:** Photo taken from the southeast end of the facility location, facing north. Photo shows culverts and areas of access that have not been removed and reclaimed.



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**Photo 27:** Photo shows trash debris remaining on the facility location.



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**Photo 28:** Photo taken from the facility location. Photo shows reclamation specialist tested the location for compaction concerns. Photo shows reclamation specialist was only able to penetrate the top few inches of soil with east. Compaction concerns appear evident



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**Deep ripping of former tank battery**



**Tank battery after ripping and tilling looking south**

**Photo 29:** The photos above were taken from attachments within Sundry doc. #402119982. Photos show what the Operator is calling “deep ripping”. Reclamation Rule 1003.c requires that compaction alleviation on locations/access roads, is conducted by cross ripping at a minimum depth of 18 inches. Based on photos provided, Operator only appears to have lightly disked the surface of the soils and has not complied with reclamation rules.

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**Photo 30:** Photo taken from the north end of the facility location, facing north. Photo no reclamation appears to have been conducted on the east/west access road



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