

Inspection Photos

7/20/2023

Operator: CAERUS PICEANCE LLC #10456

Location Number: 478266

Garfield County, CO

Aaron Trujillo
NW Reclamation Specialist
CECMC



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**Energy & Carbon Management
Commission**

Department of Natural Resources

Colorado Oil and Gas Conservation Commission

BJU/M23A-496 Pad, #478266



Annotation Report

Created on July 21, 2023

Captured on July 20, 2023



Location

NAD83(2011) / Colorado North (ftUS) (US survey foot)

| Label | Title | Elevation | Lat, Long | Northing, Easting |
|---|--|--------------|--------------------------|----------------------------------|
| 1  | Stained soils | -40.17 US ft | 39.6844847, -108.1404187 | 1138977.3 US ft, 2256964.7 US ft |
| 2  | Vehicle tracking control not in proper functioning condition | -42.42 US ft | 39.6833566, -108.1412985 | 1138573.9 US ft, 2256705.0 US ft |
| 3  | Culvert with armored outlet | -41.14 US ft | 39.6831750, -108.1412845 | 1138507.7 US ft, 2256707.0 US ft |
| 4  | Culvert | -42.33 US ft | 39.6833690, -108.1412470 | 1138578.0 US ft, 2256719.6 US ft |
| 5  | Armor Channel | -39.64 US ft | 39.6846211, -108.1398369 | 1139022.1 US ft, 2257129.9 US ft |
| 6  | Drain pipes | -37.53 US ft | 39.6849275, -108.1403229 | 1139137.7 US ft, 2256996.5 US ft |
| 7  | Velocity Checks | -78.89 US ft | 39.6843020, -108.1416343 | 1138921.0 US ft, 2256620.8 US ft |
| 8  | Cut slope | -27.82 US ft | 39.6831935, -108.1403860 | 1138506.9 US ft, 2256959.9 US ft |
| 9  | Fill slopes | -84.03 US ft | 39.6851834, -108.1412711 | 1139238.9 US ft, 2256732.5 US ft |

Area

| Label | Title | Horizontal Length | Horizontal Width | Area | Surface Area |
|--|-------------------------------|-------------------|------------------|-------------------------|-------------------------|
| 10  | Location Disturbance Area | -- | -- | 11.19 acres | 13.51 acres |
| 11  | Spill | -- | -- | 5638.44 ft ² | 7069.91 ft ² |
| 12  | Improper cuttings management | -- | -- | 0.45 acres | 0.54 acres |
| 13  | Improper materials management | -- | -- | 4417.84 ft ² | 7417.92 ft ² |
| 14  | Stained Soils | -- | -- | 3630.94 ft ² | 5266.61 ft ² |
| 15  | Working Pad Surface | -- | -- | 4.98 acres | 6.50 acres |

Volume ▲

| Label | Title | Area | Cut | Fill | Net | Tolerance |
|-------|--------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|-----------|
| 16 ● | Sediment Trap #1 | 5916.31 ft ² | 1074.31 y ³ | 0.14 y ³ | -1074.17 y ³ | 0 ft |
| 17 ● | Sediment Trap #2 | 1524.40 ft ² | 3.74 y ³ | 69.71 y ³ | 65.96 y ³ | 0 ft |
| 18 ● | Sediment Trap #3 w/ ditch | 4373.41 ft ² | 23.02 y ³ | 307.40 y ³ | 284.38 y ³ | 0 ft |
| 19 ● | Southern Topsoil Stockpile | 0.37 acres | 3273.44 y ³ | 54.71 y ³ | -3218.73 y ³ | 0 ft |
| 20 ● | Southwest Topsoil Stockpile | 6308.82 ft ² | 1041.20 y ³ | 7.31 y ³ | -1033.90 y ³ | 0 ft |
| 21 ● | Western Perimeter Topsoil s | 1.57 acres | 13987.93 y ³ | 947.67 y ³ | -13040.26 y ³ | 0 ft |
| 22 ● | Northeast Topsoil Stockpile | 0.38 acres | 2514.06 y ³ | 375.62 y ³ | -2138.44 y ³ | 0 ft |

Colorado Oil and Gas Conservation Commission

BJU/M23A-496 Pad, #478266 Issue Report



Created on July 21, 2023

Captured on July 20, 2023



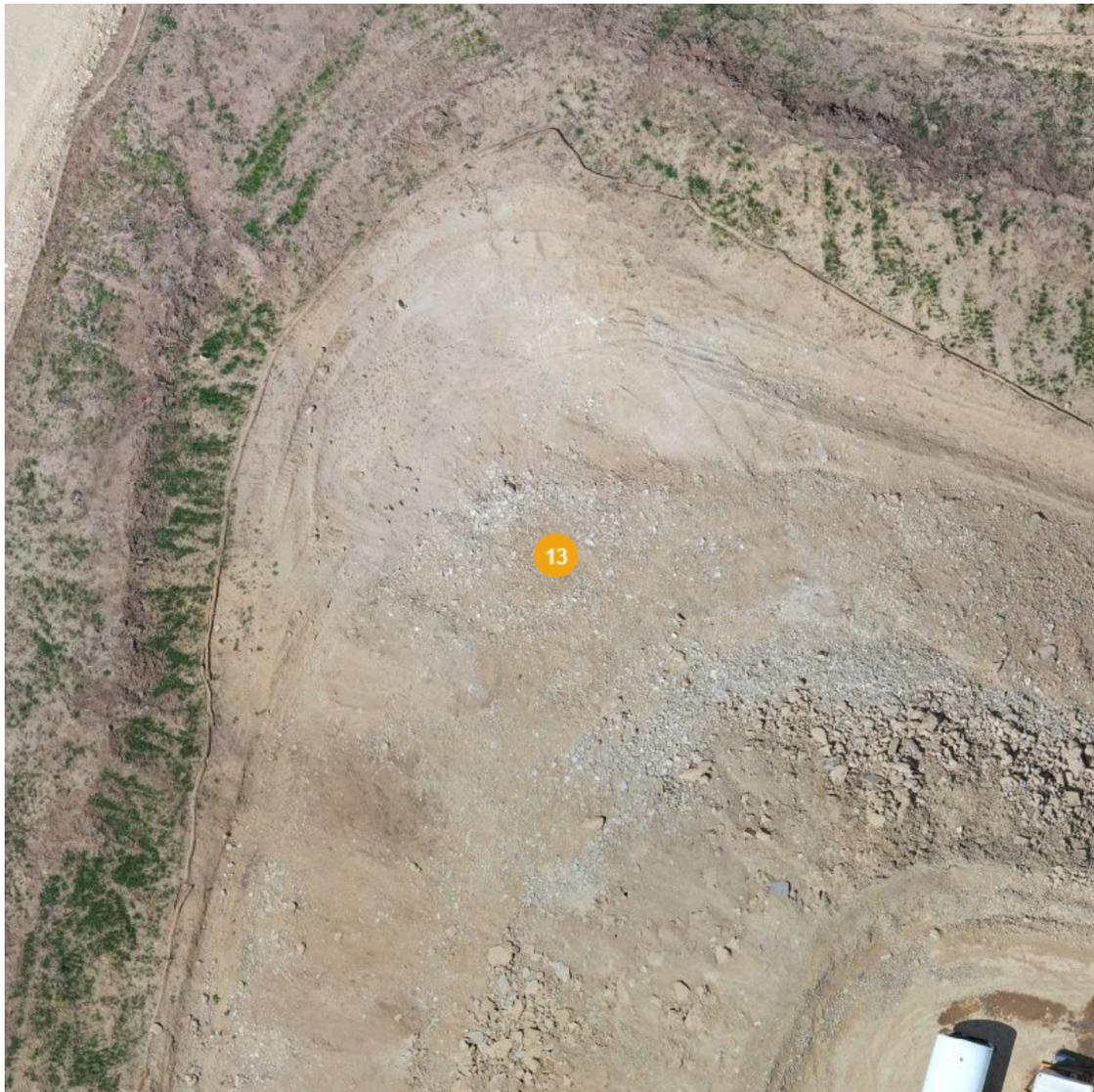
| Type | Count |
|--------------|-------|
| Missing Part | 6 |
| Observation | 6 |

| No. | Type | Severity | Created | Status | Cost of Repair |
|-----|----------------|----------|---------------|--------|----------------------|
| 1 | 📍 Observation | — | July 21, 2023 | Open | — |
| 3 | 📍 Observation | — | July 21, 2023 | Open | — |
| 4 | 📍 Observation | — | July 21, 2023 | Open | — |
| 5 | 📍 Observation | — | July 21, 2023 | Open | — |
| 6 | 📍 Observation | — | July 21, 2023 | Open | — |
| 7 | 📍 Missing Part | — | July 21, 2023 | Open | — |
| 8 | 📍 Missing Part | — | July 21, 2023 | Open | — |
| 9 | 📍 Missing Part | — | July 21, 2023 | Open | — |
| 10 | 📍 Missing Part | — | July 21, 2023 | Open | — |
| 11 | 📍 Observation | — | July 21, 2023 | Open | — |
| 12 | 📍 Missing Part | — | July 21, 2023 | Open | — |
| 13 | 📍 Missing Part | — | July 21, 2023 | Open | — |
| | | | | | Total: \$0.00 |

13 - Missing Part

Open

Jul 20, 2023 at 3:26pm



Details

| | |
|-----------------|--|
| Summary: | Stormwater and Erosion Control Measures are missing or insufficient at the fill slopes of the Location. |
| Created: | Jul 21, 2023, 4:35pm by Aaron Trujillo |
| Cost of Repair: | — |
| Lat/Long: | 39.6851834, -108.1412711 |
| Northing: | 1139238.9 US ft |
| Easting: | 2256732.5 US ft |
| Elevation: | -84.03 US ft |

NAD83(2011) / Colorado North (ftUS) (US survey foot)

12 - Missing Part

Open

Jul 20, 2023 at 3:26pm



Details

Summary: **Stormwater and Erosion Control Measures to minimize erosion and degradation are missing or insufficient at the cut slopes of the Location.**

Created: **Jul 21, 2023, 4:34pm by Aaron Trujillo**

Cost of Repair: **—**

Lat/Long: **39.6831935, -108.1403860**

Northing: **1138506.9 US ft**

Easting: **2256959.9 US ft**

Elevation: **-27.82 US ft**

NAD83(2011) / Colorado North (ftUS) (US survey foot)

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Control measures to minimize erosion and degradation missing or insufficient at fill slopes of the Location.



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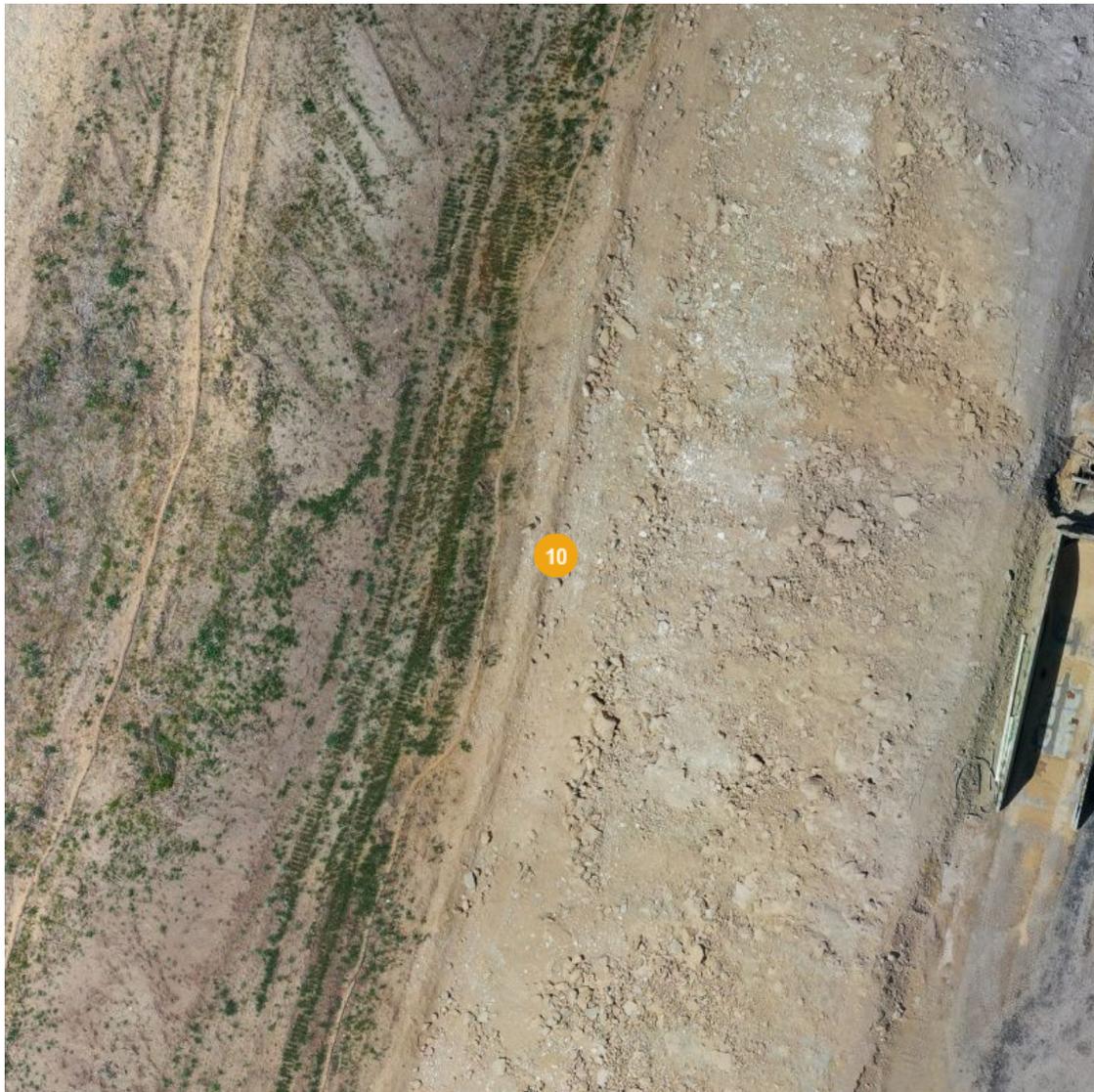
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10 - Missing Part

Open

Jul 20, 2023 at 3:26pm



Details

Summary: "Check dams" as identified within the Location drawing figures as part of the Form 2A Location permit not installed.

Created: Jul 21, 2023, 12:36pm by Aaron Trujillo

Cost of Repair: —

Lat/Long: 39.6843020, -108.1416343

Northing: 1138921.0 US ft

Easting: 2256620.8 US ft

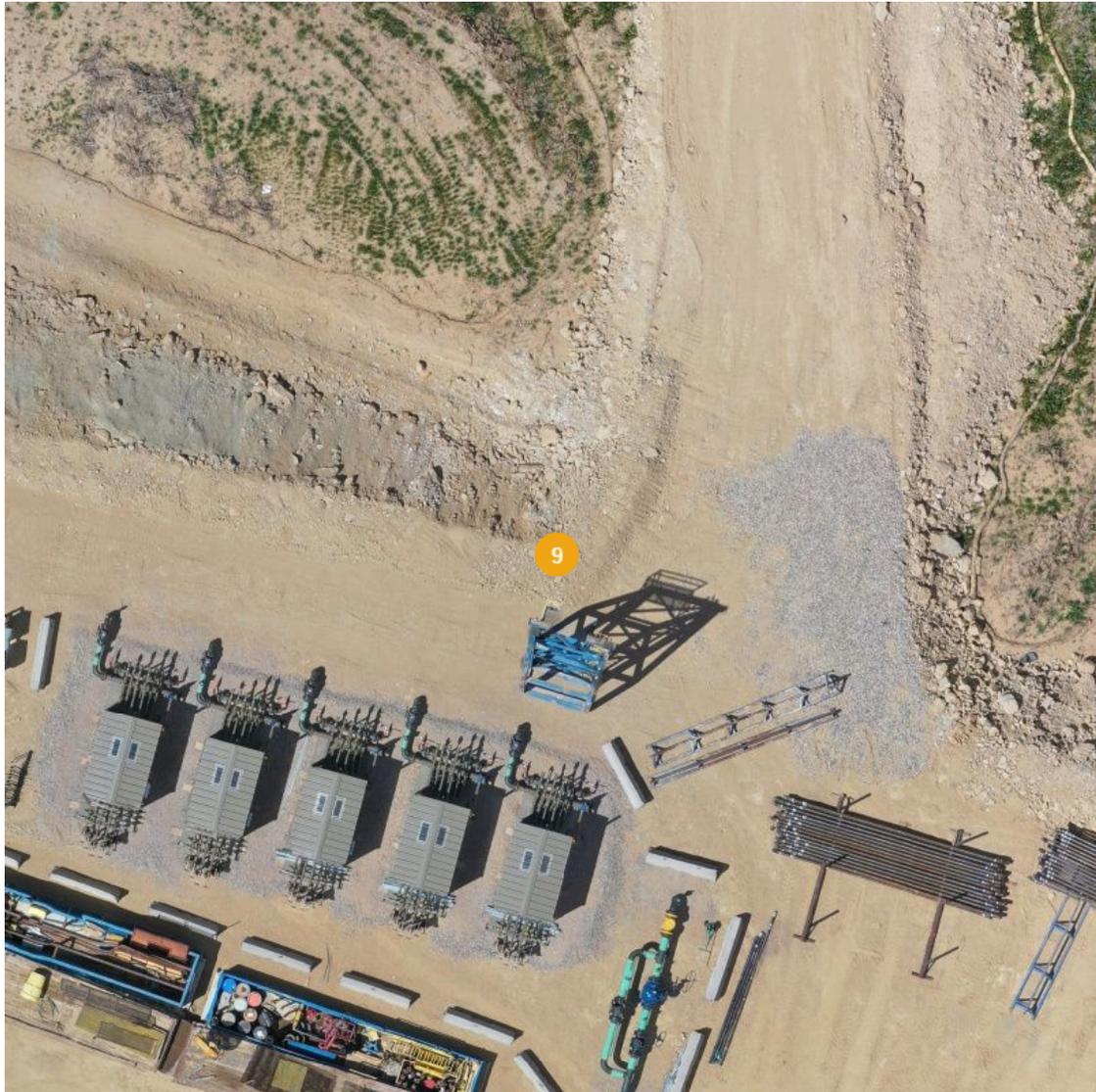
Elevation: -78.89 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

9 - Missing Part

Open

Jul 20, 2023 at 3:26pm



Details

Summary: The installation of (2) 6" Flex Pipes in conjunction with an armored channel, as identified within the Location drawing figures as part of the Form 2A Location permit not installed. No engineered outlet to allow stormwater discharge has been installed.

Created: Jul 21, 2023, 12:29pm by Aaron Trujillo

Cost of Repair: —

Lat/Long: 39.6849275, -108.1403229

Northing: 1139137.7 US ft

Easting: 2256996.5 US ft

Elevation: -37.53 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

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Northern Location entrance. Control measures as identified by the permitted “Construction Layout Drawing” not observed.



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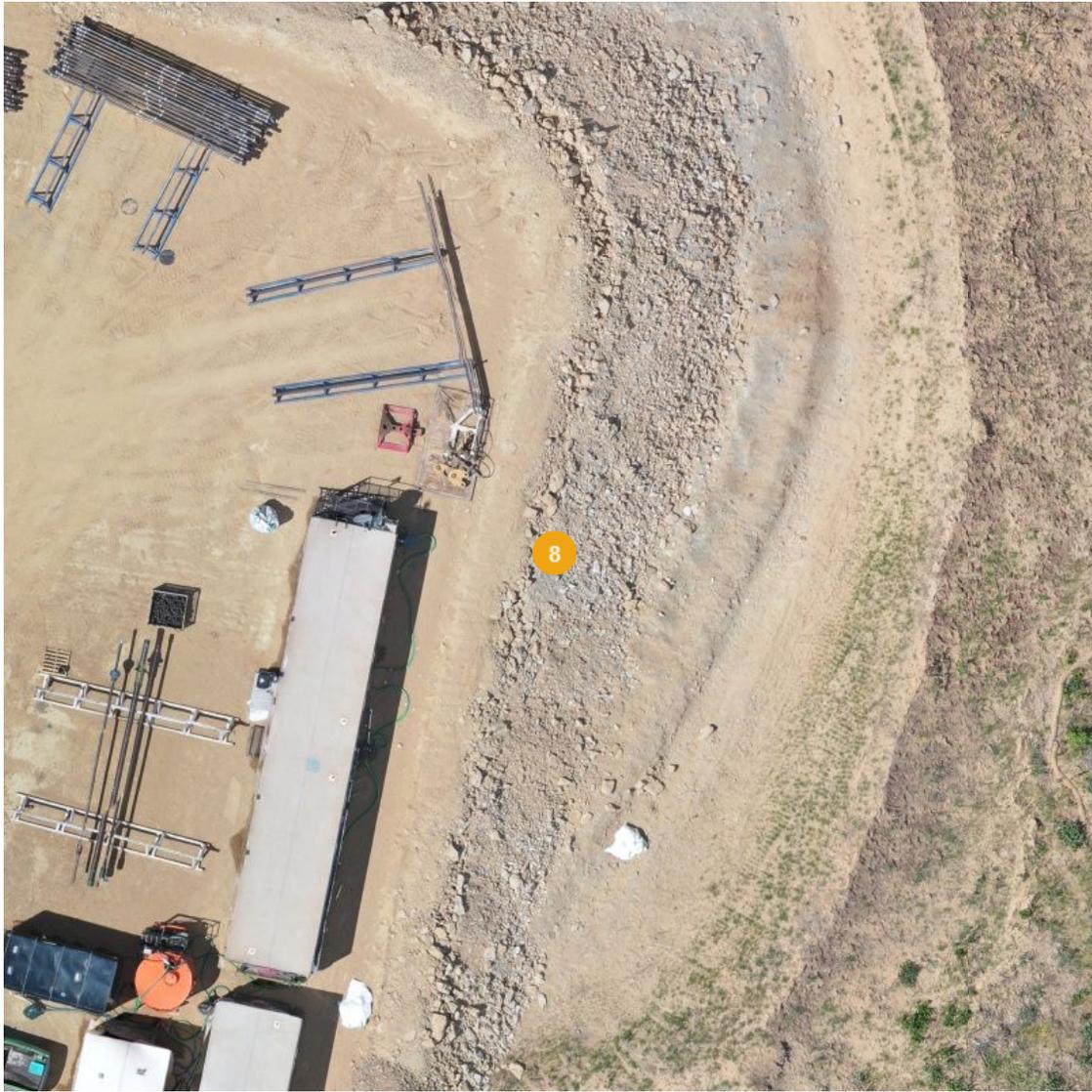
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8 - Missing Part

Open

Jul 20, 2023 at 3:26pm



Details

Summary: "Armored Channel" as identified within the Location drawing figures as part of the Form 2A Location permit not installed. No engineered outlet to allow stormwater discharge has been installed.

Created: Jul 21, 2023, 12:26pm by Aaron Trujillo

Cost of Repair: —

Lat/Long: 39.6846211, -108.1398369

Northing: 1139022.1 US ft

Easting: 2257129.9 US ft

Elevation: -39.64 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

7 - Missing Part

Open

Jul 20, 2023 at 3:26pm



Details

Summary: 24" Culvert as identified within the Location drawing figures as part of the Form 2A Location permit not installed. No engineered outlet to allow stormwater discharge has been installed.

Created: Jul 21, 2023, 11:58am by Aaron Trujillo

Cost of Repair: —

Lat/Long: 39.6833690, -108.1412470

Northing: 1138578.0 US ft

Easting: 2256719.6 US ft

Elevation: -42.33 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

11 - Observation

Open

Jul 20, 2023 at 3:26pm



Details

Summary:

Stained soils due to operator power washing equipment.

Created:

Jul 21, 2023, 1:09pm by Aaron Trujillo

Cost of Repair:

—

Lat/Long:

39.68498, -108.14090

Area:

3630.94 ft²

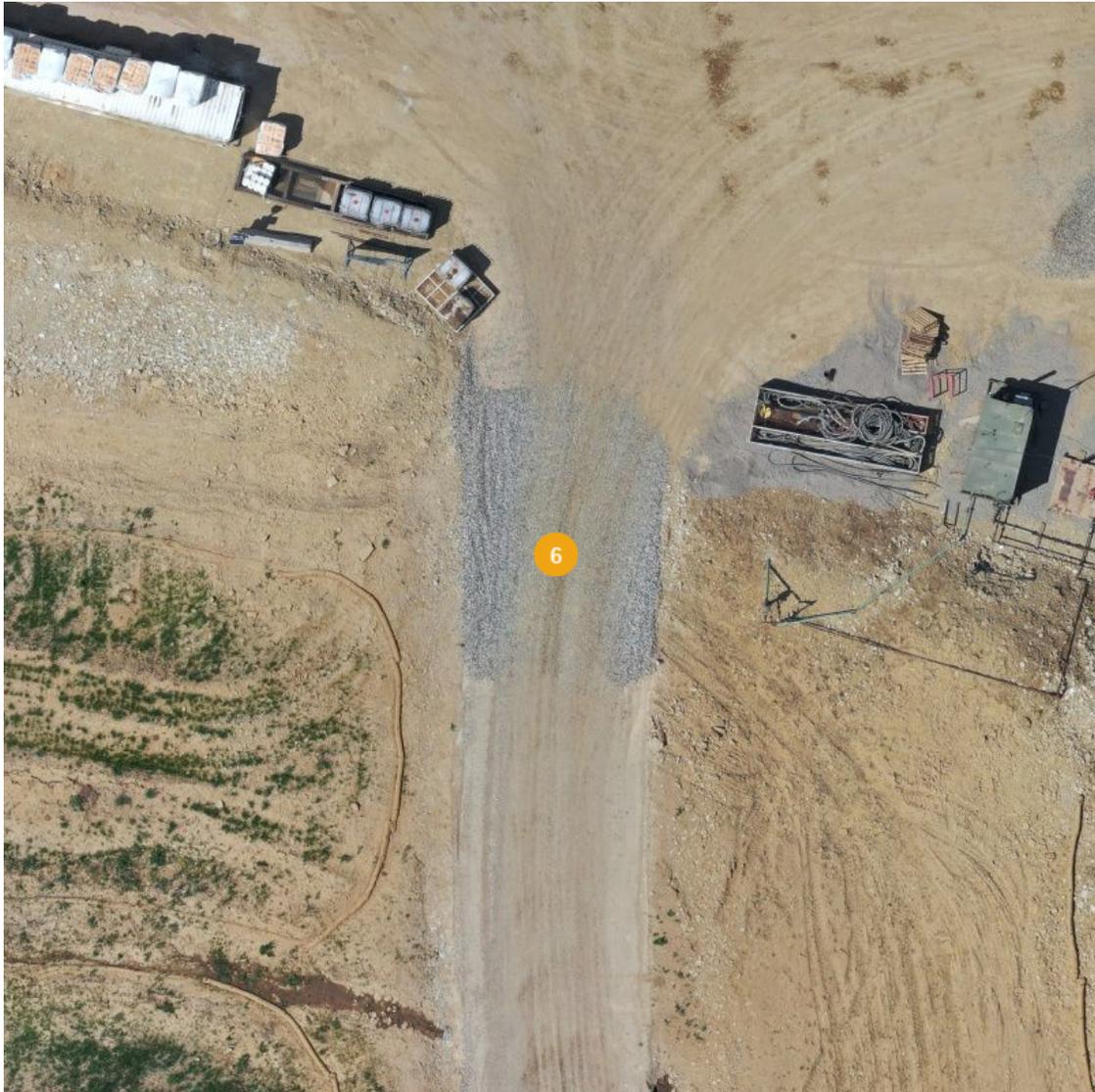
Surface Area:

5266.61 ft²

6 - Observation

Open

Jul 20, 2023 at 3:26pm



Details

Summary:

Tracking pad not in proper functioning. VTC filled w/ sediment; offsite tracking issues apparent.

Created:

Jul 21, 2023, 11:54am by Aaron Trujillo

Cost of Repair:

Lat/Long:

Northing:

Easting:

Elevation:

1138573.9 US ft 2256705.0 US ft

39.6833566, -108.1412985

-42.42 US ft

NAD83(2011) / Colorado North (ftUS) (US survey foot)

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Vehicle tracking pad on the south end of the Location does not appear to have been installed in accordance with good engineering practices, or maintained in proper functioning condition; control measure no longer adequate.



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5 - Observation

Open

Jul 20, 2023 at 3:26pm



Details

| | |
|-----------------|---|
| Summary: | Materials observed improperly covered. Material spills observed on pad surface. |
| Created: | Jul 21, 2023, 11:53am by Aaron Trujillo |
| Cost of Repair: | — |
| Lat/Long: | 39.68372, -108.14153 |
| Area: | 4417.84 ft ² |
| Surface Area: | 7417.92 ft ² |

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Photos example showing improperly covered materials.



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Photos examples showing material spills onto the working pad surface.



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Photo example showing material spills onto the working pad surface.



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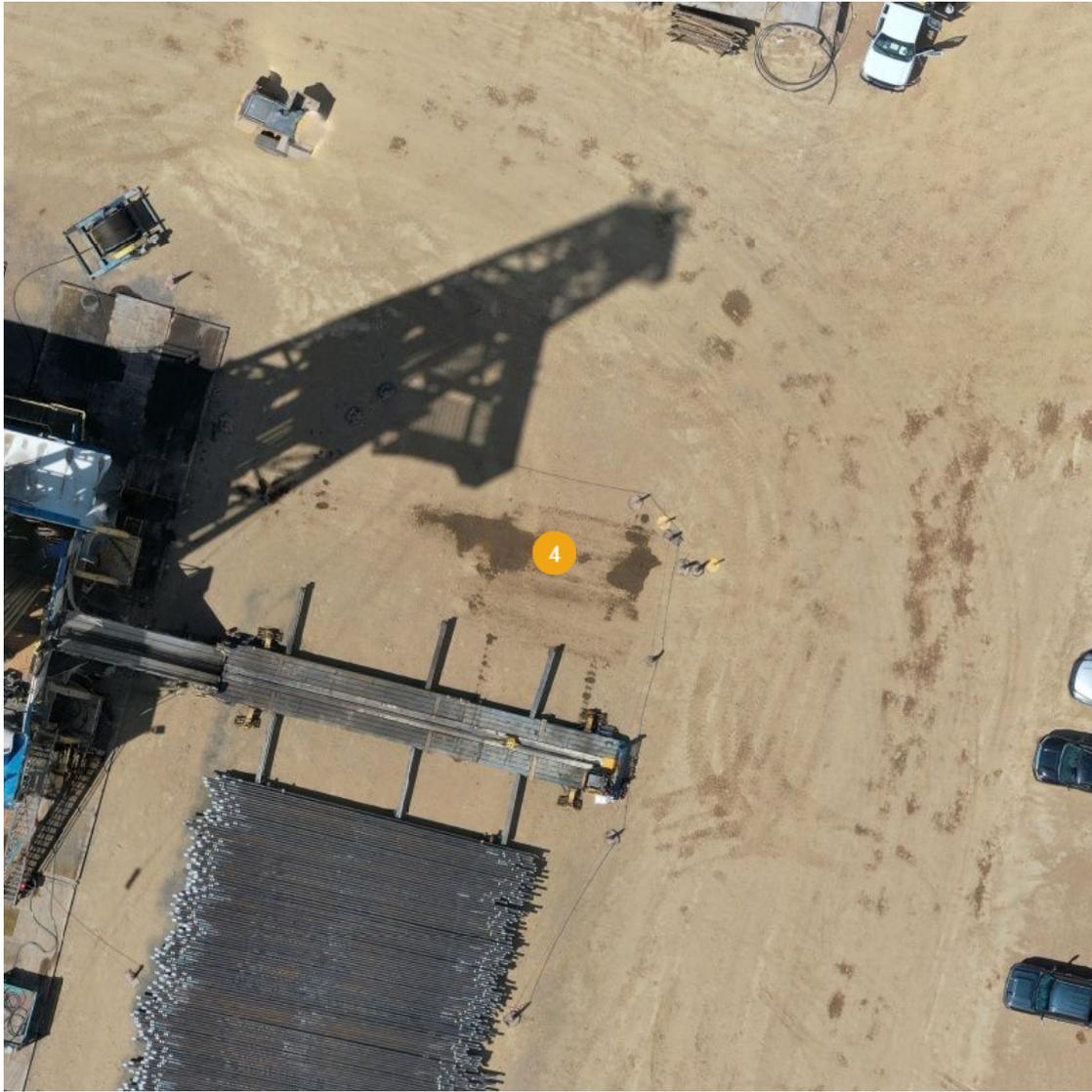
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4 - Observation

Open

Jul 20, 2023 at 3:26pm



Details

Summary:

Created:

Cost of Repair:

Lat/Long:

Northing:

Easting:

Elevation:

NAD83(2011) / Colorado North (ftUS) (US survey foot)

Example of stained soils around rig/drill equipment.

Jul 21, 2023, 11:53am by Aaron Trujillo

39.6844847, -108.1404187

1138977.3 US ft

2256964.7 US ft

-40.17 US ft

3 - Observation

Open

Jul 20, 2023 at 3:26pm



Details

Summary: **Cuttings material observed spread out over the western/southwestern pad surface. Evidence of cuttings being tracked out via vehicle traffic.**

Created: **Jul 21, 2023, 11:51am by Aaron Trujillo**

Cost of Repair: **—**

Lat/Long: **39.68401, -108.14131**

Area: **0.45 acres**

Surface Area: **0.54 acres**

1 - Observation

Open

Jul 20, 2023 at 3:26pm



Details

| | |
|-----------------|---|
| Summary: | Unknown material spilled onto fill slope areas on the west end of the Location. |
| Created: | Jul 21, 2023, 11:39am by Aaron Trujillo |
| Cost of Repair: | — |
| Lat/Long: | 39.68459, -108.14141 |
| Area: | 5638.44 ft ² |
| Surface Area: | 7069.91 ft ² |

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Photos show drill cutting material spilled onto the western working pad surface and tracked.



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Photos show drill cutting material spilled onto the western working pad surface and tracked.



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Photos show drill cutting material spilled onto the western working pad surface and tracked.



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Photo shows Operator has spilled an unknown material onto the western fill slope of the location.



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Aerial image showing spill on the fill slope (red arrow), and the drill cuttings spilled onto the working pad surface, and tracked (yellow arrows)



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Porta-johns not secured; BMPs to prevent, or contain a spill missing or insufficient at porta-johns.



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Stained soils at diesel tank.



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Southwest sediment trap. BMP has not been constructed with an protected/engineered inlet or outlet.



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Northwest sediment trap. BMP inadequate in size and has not been constructed with an protected/engineered inlet or outlet.



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Northeast sediment trap. BMP has not been constructed with an protected/engineered inlet or outlet.



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