

# Oil Field Environmental Incident Summary

**Incident:** 20160105094458      **Date/Time of Notice:** 01/05/2016 09:44

**Responsible Party:** C12 ENERGY: NORTH DAKOTA LLC

**Well Operator:** C12 ENERGY: NORTH DAKOTA LLC

**Well Name:** DHSU Central Site

**Field Name:** DICKINSON

**Well File #:**

**Date Incident:** 1/4/2016      **Time Incident:** 19:30      **Facility ID Number:** 401646-02

**County:** STARK      **Twp:** 140      **Rng:** 96      **Sec:** 30      **Qtr:** SW SW

**Location Description:** Spill occurred on pipeline east of DHSU #53

**Submitted By:** Gavin Ramsay

**Received By:**

**Contact Person:** Gavin Ramsay  
1900 WAZEE ST  
SUITE 200  
DENVER, CO 94794

**General Land Use:** Pasture

**Affected Medium:** Topsoil

**Distance Nearest Occupied Building:**

**Distance Nearest Water Well:**

**Type of Incident:** Pipeline Leak

**Release Contained in Dike:** No

**Reported to NRC:** No

	<b>Spilled</b>	<b>Units</b>	<b>Recovered</b>	<b>Units</b>	<b>Followup</b>	<b>Units</b>
<b>Oil</b>	10	Barrels			10	barrels
<b>Brine</b>	140	Barrels			20	barrels

**Other**

**Description of Other Released Contaminant:**

**Inspected:**      **Written Report Received:** 8/19/2016      **Clean Up Concluded:** 1/8/2016

**Risk Evaluation:**

No immediate risks. Wells have been shut in that feed flow line. Spill occurred in pasture.

**Areal Extent:**

**Potential Environmental Impacts:**

Topsoil will be contaminated with oil and brine.

**Action Taken or Planned:**

Wells feeding flow line were shut in. Plan to flush flow line with freshwater. We will have a contractor come out immediately to start removing contaminated dirt. After removing contamination, we will back fill with clean dirt. We will expose pipeline and repair it as necessary.

**Wastes Disposal Location:** To be determined

**Agencies Involved:**

**Updates**

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**Date:** 1/5/2016    **Status:** Inspection

**Author:** Espe, Brady

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

I arrived at the site 3:22 p.m. The weather was sunny, 27°F, with light wind from the south. I talked to personnel for the cleanup company; they were waiting for trucks to haul away more soil. The pipeline broke in the middle of the section in a pasture; there are no waterways near the break. The cleanup crew used a vac truck to locate other lines in the area. They worked on the line located away from the impacted area, and the soil from the line located was placed along the fence line east of the pipeline break. They scraped up topsoil for a couple hundred feet to the east of where the product daylighted. They will be exposing the pipeline tomorrow, so it can be repaired. More followup needed next growing season.

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**Date:** 1/5/2016    **Status:** Reviewed - Follow-up Required

**Author:** Souder, Taylor

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

According to the report, the release did not remain on location. Further followup is necessary.

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**Date:** 1/7/2016    **Status:** Inspection

**Author:** Espe, Brady

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

I arrived at the site at 8:32 a.m. The weather was overcast, 18°F, calm. I talked to personnel for the clean-up company; they were loading up soil from yesterday's excavation. They were waiting on direction from the C12 company contact. The excavated area was roughly 5 feet wide and 200 feet long. The upper stretch of the excavated area was still soft. In talking with the company and clean-up crew, I learned the plan was to spread gypsum over the excavated area and cover the area with topsoil. Gypsum is used below the root zone; the excavation was not below the root zone. They had taken electrical conductivity (EC) readings showing high numbers in the upper half of the excavation. The C12 company personnel and I used an EC meter to examine the excavated area. We recorded high numbers in spots below the upper high area and in the upper area nearest the pipeline break. It was decided that more soil would be removed in the hot spots, and the upper area would be dug down at least 3 feet more. After the excavation, they will use the EC meter to test the levels again. They also will take confirmation samples and photos of the soil removal. More follow-up is needed.

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**Date:** 1/8/2016    **Status:** Correspondence

**Author:** Espe, Brady

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

The company called at 10:20 a.m. with an update on the soil removal. They removed more soil than originally planned. In the area nearest the pipeline, they had removed a 60- X 30-foot area. The rest of the area with higher readings ended up being 16 feet wide. They will try putting down the gypsum and topsoil today. The clean-up company had some mechanical difficulties yesterday, delaying the hauling of the impacted soil. Confirmation samples were taken. The company contact also will get the landowner out to look at the area before placing the topsoil. More follow-up is needed.

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**Date:** 1/11/2016    **Status:** Correspondence

**Author:** Espe, Brady

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

Received photographs of the excavations and a map with soil sample locations. More follow-up is needed.

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**Date:** 1/11/2016    **Status:** Correspondence

**Author:** Espe, Brady

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

I received an email from the company contact regarding the types of constituents that should be analyzed in the soil samples. I sent him a copy of the draft guidelines for the assessment and cleanup of saltwater releases. I also talked to the company contact and was informed they had to remove more soil to the north. There are a couple of areas that still have high electrical conductivity (EC). Soil samples from these areas are being sent to the lab. The soil has been excavated to at least 3 feet, and the gypsum has been spread. They have backfilled three-quarters of the excavation area with topsoil and should finish today. The company contact indicated that the landowner will be out after they finish. More follow-up is needed.

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**Date:** 1/20/2016    **Status:** Inspection

**Author:** Cooper, Mike

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

Arrived on site 9:30 a.m. 9 degrees, no wind. Work has been completed. Backfill has been completed along with grading. Ground is still relatively soft with the new soil in place. No contaminated material was noticed on site. Further follow-up is necessary in the spring to check on seeding and vegetative growth. Confirmation samples have been taken; awaiting results.

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**Date:** 2/3/2016    **Status:** Correspondence

**Author:** Espe, Brady

**Updated Oil Volume:**

**Updated Salt Water Volume:**

**Updated Other Volume:**

**Updated Other Contaminant**

**Notes:**

Received copies of the sample results.