

Oil Field Environmental Incident Summary

Incident: 20180118165233 **Notice:** 1/18/2018 16:52 **Occurred:** 1/18/2018 12:00

Responsible Party: PETRO-HUNT, L.L.C.
Well Operator: PETRO-HUNT, L.L.C.
Well Name: LAUDIE BURIAN 1-23-3C
Field Name: LITTLE KNIFE
Well File #: 9691
Facility ID #:
County: BILLINGS
Twp Rng Sec Qtr: 144 98 23
Location Description:
Submitted By: Derek Enderud
Received By:
Contact Info: Derek Enderud
 PO BOX 935
 BISMARCK ND 58502

Affected Medium: Topsoil
General Land Use: Pasture
Near. Occupied Bldg:
Nearest Water Well:

Type of Incident: Pipeline Leak
Release Contained: No
Reported to NRC: No

	Spilled	Units	Recovered	Units	Followup	Units
Oil						
Brine	10	Barrels			10	barrels
Other						

Oth Rel. Contaminant:
Date Inspected:
Clean Up Concluded: 5/30/2018
Written Report Recd: 7/25/2018

Risk Evaluation:
 None.

Areal Extent:
 West of well pad is approximately 50' x 40'. North of well pad is maybe 2' wide and 100' long.

Potential Env. Impacts:
 Soil and vegetation impacted.

Action Taken/Planned:
 Vac truck was called to location immediately and started removing standing water. A hydrovac will be onsite tomorrow morning to remove contaminated material on pad. Once one call clears contaminated material off pad will be addressed.

Wastes Disposal Location:
Other Agencies Involved:

Updates

Date: 1/18/2018 **Status:** Reviewed - Follow-up Required **No Further Action:**

Author: Martin, Russell

Notes:

Release, due to pipeline leak, on pipeline ROW. Follow-up is necessary.

Updated Volumes and Contaminant None at the time of this update

Date: 1/19/2018 **Status:** Inspection **No Further Action:**

Author: O'Gorman, Brian

Notes:

Arrived on location at 9:30. 37 degrees F, Cloudy, west wind 0-5 mph. It appeared that the release occurred just west of the well pad and drained towards the north approximately 325 feet then moved to the northeast, then east, then south for approximately 550 feet. The width of the route varied from 30 feet wide at the initial location to a couple of feet the further away from the release. Field screening with the field EC probe showed EC's between 10 ms/cm to out of range. Land use was alfalfa/cropland. Three soil samples were collected for laboratory analysis. SS-1 at 47.27102, -103.05708, SS-2 at 47.27186, -103.05658 and SS-3 at 47.27182, -103.05579. Photos were taken of the area and added to the incident folder. Further follow-up needed.

Updated Volumes and Contaminant None at the time of this update

Date: 1/22/2018 **Status:** Correspondence **No Further Action:**

Author: Schiermeister, Robin

Notes:

Talked to party representative who said that the landowner has not given permission to excavate on his property. Further follow-up is needed to make sure proper clean up is being conducted.

Updated Volumes and Contaminant None at the time of this update

Date: 1/22/2018 **Status:** Inspection **No Further Action:**

Author: DeVries, Taylor

Notes:

Inspection Date: 1/22/2018

Arrived on location at 1300. The pad has been scraped approximately 4-6 inches on the western side and corner. No one is currently working at remediation on or off pad. No work has been done off pad. There is a section of oil staining off pad that is approximately 10 by 10 ft. (off of the west side of the pad). Along with the staining, there is soft ground that has been impacted by brine, all along the western edge of the well pad. This strip is about 2 ft. off of the pad. Further follow-up is needed on remediation. Photos were taken and can be found in the report folder.

Updated Volumes and Contaminant None at the time of this update

Date: 1/24/2018 **Status:** Inspection

No Further Action:

Author: Stockdill, Scott

Notes:

Arrived on location 11:45 1/25/2018.

Crews onsite excavating pipeline that caused the release of produced water. Spill came to surface SW of well, flowing to the north around the well location and appears to terminate by the flare on the NE side of the well. Responsible Party cut the produced water line and sucked out remaining produced water. Current plan is to continue excavating along pipeline until clean material is found. At that moment the responsible party will cap and abandoned the produced water line. At 8 feet BSG there is a black/blue layer of soil. Bottom and side of excavation are 7-10 ms conductivity. While excavating, the responsible party came across a tarp or liner in the excavation. It was recommended that they consult the NDIC to ensure that the material in question was not related to a reserve pit.

Work on site was halted at 4 pm Central time.

Off of location 4:15 PM 1/25/2018.

Updated Volumes and Contaminant None at the time of this update

Date: 1/26/2018 **Status:** Inspection

No Further Action:

Author: Stockdill, Scott

Notes:

Arrived on location 11:00 am 1/26/2018.

Work excavating impacted materials continues off location. NDIC inspector to determine if the liner that was in question was related to a reserve pit.

More follow-up is necessary to ensure proper cleanup.

Updated Volumes and Contaminant None at the time of this update

Date: 1/29/2018 **Status:** Correspondence

No Further Action:

Author: O'Gorman, Brian

Notes:

Received an email from the NDIC that contained an attachment addressed to the landowner from the responsible party, stating that if the responsible party is not given permission to access the property then the landowner may be responsible for the damages. Email and letter added to the incident folder. Further follow-up needed.

Updated Volumes and Contaminant None at the time of this update

Date: 1/29/2018 **Status:** Inspection

No Further Action:

Author: Crowdus, Kory

Notes:

On location 1/29/2018, at 12:22pm. Met with cleanup personnel at site. Excavation is ongoing in the SW corner off location. They are conducting field screenings as digging continues to determine extent of release. Samples will be taken and sent to lab once field screenings are below cleanup standards or background levels. Some delineation and excavation still needs to be done on the flow path to the north and then to the east. Further follow-up is required.

Updated Volumes and Contaminant None at the time of this update

Date: 2/8/2018 **Status:** Inspection

No Further Action:

Author: O'Gorman, Brian

Notes:

Arrived on location at 13:50. 6 degrees F, snowing, northeast wind 10-15 mph. Observed site and took photos. The release location had been excavated to approximately 6 to 7 feet in depth in an area approximately 75 feet wide by 75 feet long. At the northwest corner of the well pad excavation had occurred along the drainage path approximately 2.5 feet to 3 feet in depth by 4 feet wide for approximately 500 feet in length. Additional assessment should occur this spring for locations not excavated. Further follow-up needed.

Updated Volumes and Contaminant None at the time of this update

Date: 3/7/2018 **Status:** Correspondence

No Further Action:

Author: Schiermeister, Robin

Notes:

The responsible party has agreed to backfill the excavated hole with clay and will delineate more laterally in the north. They will place a layer of clay in the excavated areas after sampling and then backfill with topsoil. Further correspondence will be needed for confirmation samples.

Updated Volumes and Contaminant None at the time of this update

Date: 3/22/2018 **Status:** Correspondence

No Further Action:

Author: O'Gorman, Brian

Notes:

Received hard copy lab results from the 1/19/2018 soil samples collected from the impact areas. Soil Sample 1 (SS-1) collected from the surface nearest the release showed chlorides at 560 mg/L, sodium at 271 mg/L, bromides at 2.06 mg/L and EC at 1940 us/cm. SS-2 collected from the impacted area near the northwest corner of the well pad showed chlorides at 742 mg/L, sodium at 389 mg/L, bromides at 2.70 mg/L and EC at 2540 us/cm. SS-3 collected from the impacted area northeast of the well pad showed chlorides at 389 mg/L, sodium at 227 mg/L, bromides at 1.56 mg/L and EC at 1490 us/cm. Sample results added to the incident folder. Further follow-up needed.

Updated Volumes and Contaminant None at the time of this update

Date: 3/26/2018 **Status:** Inspection

No Further Action:

Author: Schiermeister, Robin

Notes:

Arrived on site at 16:04 on 3-22-2018. It was chilly and cloudy with wind speeds 5-10 mph. Received complaint that landowner was worried about contamination from runoff. Took chloride strip readings, which follow below:

Stock pond: 38 ppm

Where trench ends on east side of the well pad: N/A (too low to read)

Middle of the trench northwest of the well pad: 140 ppm

Western side of well pad: N/A (too low to read)

During meeting with landowner, a party representative drove up who mentioned that a meeting was to take place the following day. There they would discuss a water monitoring plan and putting up a berm around the leftover contamination. Further follow-up is needed to monitor the runoff water and clean up efforts.

Updated Volumes and Contaminant None at the time of this update

Date: 3/29/2018 **Status:** Inspection

No Further Action:

Author: O'Gorman, Brian

Notes:

Arrived on location at 8:35. Walked the site and took photos. It appeared that additional excavation had occurred since my last inspection. The excavation where the release occurred had been re-filled with soil. Further follow-up needed. Photos added to the incident folder.

Updated Volumes and Contaminant None at the time of this update

Date: 5/22/2018 **Status:** Inspection

No Further Action:

Author: Schiermeister, Robin

Notes:

Arrived on site at 13:01 on 5-17-2018. It was sunny with temperatures in the 70's. The area where the reserve pit was is now backfilled. According to the responsible party representative, a meeting has been scheduled some time this week with the director of water quality and the director of the Health Department. The material to backfill is on site sitting right next to the excavated area. The cross contaminated material that was on the east side of the pad has been removed, according to the responsible party. Further follow-up is needed.

Updated Volumes and Contaminant None at the time of this update

Date: 9/4/2019 **Status:** Correspondence

No Further Action:

Author: Schiermeister, Robin

Notes:

A vegetation check has been scheduled for the fall of 2019. Further follow-up is necessary.

Updated Volumes and Contaminant None at the time of this update

Date: 12/18/2020 **Status:** Correspondence - Vegetation Check **No Further Action:**

Author: Lund, Dylan

Notes:

Vegetation check is required in the summer months to confirm re-vegetation and remediation.

Updated Volumes and Contaminant None at the time of this update

Date: 1/20/2021 **Status:** Inspection - Vegetation Check **No Further Action:**

Author: Crowdus, Kory

Notes:

On location 1/20/2021, at 11:40am. It appears that some vegetation is growing in impacted area. It is difficult to fully access area due to snowfall in the area. Further follow-up needed during growing season.

Updated Volumes and Contaminant None at the time of this update

Date: 7/14/2021 **Status:** Inspection - Vegetation Check **No Further Action:**

Author: Crowdus, Kory

Notes:

On location 7/14/2021, at 10:24am. Pad has been reclaimed. Vegetation is recovering well in the area. Further follow-up to check on continued growth during next growing season.

Updated Volumes and Contaminant None at the time of this update

Date: 11/3/2021 **Status:** Inspection - Vegetation Check **No Further Action:**

Author: Suess, Bill

Notes:

This incident has been re-assigned to D. Kaiser.

Updated Volumes and Contaminant None at the time of this update

Date: 6/22/2022 **Status:** Inspection - No Action Required **No Further Action:**

Author: Wax, Pete

Notes:

On site 8:45-9:00am. Clear, calm, 66 degrees. Digital images collected. Site has been reclaimed. Vegetation looks like perennial ryegrass and wheatgrass. It is well established and 1 to 2 feet high. No sign of the original spill along the any portion of the reclaimed site. Close. Off site 9:00am.

Updated Volumes and Contaminant None at the time of this update