

Oil Field Environmental Incident Summary

Incident: 20131202100606 **Date/Time of Notice:** 12/02/2013 08:53

Responsible Party: PHLLC

Well Operator: PETRO-HUNT, L.L.C.

Well Name: MOBERG 29A-2-3H

Field Name: NORTH TIOGA

Well File #: 17114

Date Incident: 12/1/2013 **Time Incident:** 11:55

Facility ID Number:

County: BURKE

Twp: 159 **Rng:** 94 **Sec:** 29 **Qtr:** NW NE

Location Description:

Submitted By: DOUG HANSON

Received By:

Contact Person: DOUG HANSON
390 119TH AVE SW
KILLDEER, ND 58640

General Land Use: Well/Facility Site

Affected Medium: Well/Facility Soil

Distance Nearest Occupied Building: 500 Feet

Distance Nearest Water Well: 500 Feet

Type of Incident: Blowout

Release Contained in Dike: No

Reported to NRC: No

	Spilled	Units	Recovered	Units	Followup	Units
Oil	0	barrels	0	barrels	0	barrels
Brine	0	barrels	0	barrels	0	barrels
Other	200	barrels	0	barrels	200	barrels

Description of Other Released Contaminant:

COMBINATION OF PRODUCED FLUID AND FRAC FLUID

Inspected:

Written Report Received: 1/13/2016

Clean Up Concluded: 7/30/2014

Risk Evaluation:

NONE

Areal Extent:

IT RAN OFF LOCATION THROUGH A CULVERT ON THE ROAD AND INTO AN ADJACENT PASTURE.

Potential Environmental Impacts:

THERE IS LIKELY SOME SLOUGH WATER IN THE PASTURE THAT HAS BEEN AFFECTED. SOME SOILS ON THE LOCATION AND OFF WILL ALSO HAVE BEEN IMPACTED.

Action Taken or Planned:

TEMPORARY BERMS WERE BULLDOSED UP TO CONTAIN AS MUCH OF THE FLOW ON LOCATION AS POSSIBLE. THE CULVERT IN THE ROAD WAS BLOCKED, AND THE FLUID IN THE PASTURE WAS ENCIRCLED. PICKUP OF FLUIDS ON LOCATION WERE ONGOING MOST OF THE NIGHT, AND FLUIDS OFF THE LOCATION ARE BEING REMOVED TODAY. THE WORK WILL CONTINUE AS LONG AS NECESSARY TO COMPLETELY CLEAN UP THE AREA.

Wastes Disposal Location: FLUIDS WILL BE TAKEN TO A DISPOSAL WELL. SOLIDS WILL REMOVED AND TAKEN TO PRAIRIE DISPOSAL (PDI) R-360 LAND FILL.

Agencies Involved: ND DEPT OF HEALTH

Updates

Date: 12/1/2013 **Status:** Reviewed - Follow-up Required

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

12/1/13 - 16:10 received call notifying about the fracking communication and subsequent seal failure on neighboring wellhead. Report forwarded to field inspector to visit location on 12/2. NDDDES notified as well as NDDoH management. Some amount of lost fluids left location, ran through a road culvert and into a field/pasture. Petro-Hunt responded as described in this report, received 12/2/13. Cleanup is ongoing. NDDoH response inspector to deploy to location this date.

Date: 12/2/2013 **Status:** Reviewed - Follow-up Required

Author: Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

According to report, incident impacted area off of location. Follow up is necessary.

Date: 12/3/2013 **Status:** Correspondence

Author: Miller, Adam

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

I have spoken with two company contacts via phone. They stated they will have a fence up today to exclude livestock from the operations area. They stated they are bringing in more heavy equipment to speed up operations and that scoria is being mixed with the material being collected to make the contaminants easier to handle. All materials are going to Prairie Disposal.

Date: 12/3/2013 **Status:** Inspection

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

13:10, on location. Moderate snow cover, 4 degrees Fahrenheit. Met with slough landowner and company site supervisor. Was given a tour of the incident from where the cleanup operations are currently underway in the slough to where it left the well site. Spill left well site on NW side after flowing around secondary containment berm for on-site tanks. Spill continued through vegetation off site and across field, then entered ditch and culvert bordering private residence road, and exited culvert into ditch on slough (western) side of road. Spill traveled down ditch until it was able to go over ditch into slough. Two interceptor trenches were dug; spill made it past first trench but did not go further than second trench according to site contact. Company has removed liquid in slough, as well as liquid in trenches. Soil and ice are currently being excavated. No work has been started yet on field (eastern) side where spill traveled over. Landowner for slough does not own the field, but is in contact with the field's owner. Slough landowner is monitoring the spill and supplied pictures of when the spill occurred and will supply field landowner's phone number. Retrieved soil sample downhill from slough before entering culvert for state road 40/50. Water in culvert frozen solid. Will need to follow up with field landowner, as well as later checkups on cleanup.

Date: 12/9/2013 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Phone conversation with field landowner. Petro-Hunt has been in contact and has answered the landowner's questions. According to landowner, untilled portion of field is under the CRP.

Date: 12/11/2013 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Phone conversation with slough landowner. Landowner requested results of sample taken at site and additional information about spill.

Date: 12/12/2013 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Phone conversation with company contact regarding landowner requests. Received MSDSs of chemicals used from company contact. Will send them on to landowner. Contact mentioned that consulting firm had taken samples during cleanup and would be taking samples again once cleanup was complete. Ten loads of grass, snow, and other vegetation had been scraped off and sent to disposal facility. A grader had come in and had removed a further four loads of material, also taken to the disposal facility. 350 barrels total of fluids were removed as well. This work was done to both the field and the slough. Contact indicated they are finishing up cleanup work for the winter; further evaluation will be made in the spring.

Date: 7/1/2014 **Status:** Correspondence

Author: Rockeman, Karl

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Received a call from the landowner wondering about the status of cleanup; doesn't feel like progress is being made. Has soil/water samples that he will provide us. Need to get update from company on status.

Date: 7/3/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Phone call with report contact regarding cleanup of site. According to contact, area of impact includes a registered wetland. Company is currently in conversation with the U.S. Army Corps of Engineers on what actions to take to preserve the wetland as well as accommodate the landowner's requests. Documents were supplied by the report contact regarding the situation.

Date: 7/3/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Phone call with slough landowner regarding cleanup of slough. Landowner is concerned with results of testing from company and what actions will be taken to address the current impacts to the slough.

Date: 7/7/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Email conversation with U.S. Army Corps of Engineers. Project manager for this project is currently out of office but is awaiting a submittal before determining the permit verification. Project manager will update the NDDoH on status once back in the office.

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

7/7/2014 at 17:00, on location. Met with slough landowner and inspected sites in pasture next to wetland about which landowner had concerns. Took electrical conductivity readings at each station and photographs of the area.

Background: (reading in SW corner of pasture by fenceline)

Electrical Conductivity < 2 mS

Station 1: spot adjacent to an animal path, without growing vegetation

3" = 4.21 mS

6" = 3.70 mS

9" = 3.69 mS

12" = 3.21 mS

15" = 3.11 mS

18" = 2.88 mS

Station 2: NW of Station 1, ~20' east from pasture's west side fenceline

3" = 5.49 mS

6" = 4.76 mS

9" = 3.11 mS

12" = 4.34 mS

15" = 3.82 mS

18" = 3.12 mS

Station 3: NW area of wetland, NE of Station 2

3" = 2.65 mS

6" = 2.30 mS

9" = 2.06 mS

12" = 1574 uS

15" = 1286 uS

*hit gravel/rocks

Station 4: ~25' west of first trench, NW of Station 3, in pasture.

3" = 2.29 mS

6" = 2.14 mS

9" = 2.08 mS

12" = 1543 uS

15" = 2.06 mS

18" = 1601 uS

Station 5: center of wetland area, ~1/2 way between first trench and access road culvert in wetland

3" = 1957 uS

6" = 1516 uS

9" = 1005 uS

*hit gravel/rocks

Station 6: estimated 50 ft WSW of access road culvert within the wetland and within the area of impact, according to the sampling performed

3" = 5.24 mS

6" = 6.60 mS

9" = 7.28 mS

12" = 8.52 mS

15" = 6.29 mS

18" = 4.83 mS

Date: 7/8/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Conference call with slough landowner and U.S. Army Corps of Engineers. Had landowner explain in detail what landowner wanted done on the pasture/wetland area. According to the Corps, a permit may be required from the agency for a few of the items wanted by the landowner. They are currently checking if an application was submitted by the company involved in the spill, and if not, they will have the landowner give the company the required forms. If the company has submitted an application, then the Corps will review for any needed permits.

Date: 7/17/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Email correspondence from report contact. Contact supplied photos of area and description of plans for remediation before remediation begins.

Date: 7/18/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Phone call with report contact clarifying some issues. Equipment for excavation of impacted soil being mobilized. As long as USACE concerns are addressed and no other issues arise, excavations will begin next week. Company is working with landowner to make sure remediation of the immediate impact area meets the landowner's wishes.

Date: 8/15/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Email to report contact and landowner with test results of sample taken by NDDoH.

Date: 4/22/2015 **Status:** Inspection

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

4/22/2015 at 11:52. New growth starting to come in along excavation area. More heavily excavated areas still bare. Will check again in the summer to see if grass has reestablished.

Date: 9/28/2015 **Status:** Inspection

Author: Martin, Russell

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Vegetation re-establishing, though there are some issues with erosion from commercial facility next to pasture. No further follow-up required.