

Oil Field Environmental Incident Summary

Incident: 20140527155424 **Date/Time of Notice:** 05/27/2014 15:54

Responsible Party: WHITING OIL AND GAS CORPORATION

Well Operator: WHITING OIL AND GAS CORPORATION

Well Name: DONALD PETERSON 1-28

Field Name: SMITH

Well File #: 11777

Date Incident: 5/26/2014 **Time Incident:** 20:10

Facility ID Number:

County: RENVILLE

Twp: 160

Rng: 86

Sec: 28

Qtr:

Location Description: Pipeline leak occurred in T160N R86W Sec 21 SE1/4 directly north of Whitings Smith field central tank battery.

Submitted By: Brian Wurm

Received By:

Contact Person: Brian Wurm
1700 BROADWAY STE 2300
DENVER, CO 80290

General Land Use: Cultivated

Affected Medium: Topsoil

Distance Nearest Occupied Building: 0.5 Mile

Distance Nearest Water Well: 0.5 Mile

Type of Incident: Pipeline Leak

Release Contained in Dike: No

Reported to NRC: No

	Spilled	Units	Recovered	Units	Followup	Units
Oil						
Brine	10	Barrels	1	Barrels	1	barrels
Other						

Description of Other Released Contaminant:

Inspected:

Written Report Received: 6/13/2014

Clean Up Concluded: 5/6/2014

Risk Evaluation:

None noted

Areal Extent:

Approximately 150 feet by 10 feet

Potential Environmental Impacts:

To be determined

Action Taken or Planned:

The line was shut in upon discovery of the leak to stop further fluids from releasing. The impacted soil will be removed along with the remaining produced water in the soil. A vac truck was brought in to pick up any free liquids. The impacted pipeline will be replaced prior to being put back into service and clean soil will replace the impacted soil.

Wastes Disposal Location: Impacted soil will be taken to Clean Harbors Sawyer facility.

Agencies Involved:

Updates

Date: 5/28/2014 **Status:** Reviewed - Follow-up Required

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Pipeline release in Section 21, north of the Smith field central tank battery. Followup is necessary.

Date: 5/29/2014 **Status:** Inspection

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

5/29/14 - 14:00 on location, met with company representative. Leak footprint extended from across road from the tank battery to the edge of the small slough to the east. Excavation of 12+ inches near the leak point to 3 inches near the pond. With drier weather and wind, salt crystallization is beginning to sparkle in places, indicating more depth of excavation needed. EC probe readings from >4 mS/cm to >15 ms/cm gleaned along the excavation base. Whiting will have approximately 6" more soil removed near the pond, extending to another foot as they near the pipeline. There is a tight clay base under much of the excavation, which limits vertical movement.

Water sample from the pond exhibited 2.4 mS/cm by water conductivity meter, but sediment below a muskrat run quickly showed 27 mS/cm 3" below the sediment. Chloride titration strip was then used on the water. Results of screening showed 308 mg/L (5.8 on the scale) on the low range tab. Therefore, requested that the company rep ask for higher level environmental assistance in analyzing the pond water and sediments below it, and report the results.

Date: 6/5/2014 **Status:** Inspection

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

6/5/14 - 15:30 on location. Additional excavation had been done as requested near the wetland. Excavation full of rain water. Specific conductivity reading was 6/4 mS/cm in the water and lesser in the soil beneath. Water sample from the rainwater measured 1,370 mg/L Cl. Rechecked electrical conductivity (EC) in wetland sediment below the muskrat run and found the saturated EC at 12 mS/cm, to reinforce the request to have company investigate.

Date: 9/17/2015 **Status:** Inspection

Author: O'Gorman, Brian

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on location at 11:25. 54 degrees F, mostly cloudy, NW wind 20-25 mph. Observed the area and took photos. Not sure exactly where the initial release occurred, but just north of the Smithfield CTB and across the section road was evidence of disturbed soil and an earthen berm to prevent water from moving to the wetland to the east. West of the earthen berm was water and healthy vegetation growing; east of the earthen berm was bare soil with no vegetation growing. Collected a water sample from a wetland west of the earthen berm for background conditions: electroconductivity (EC) levels of 140.5 us/cm and 38 ppm Chlorides on the titration strip. A second water sample was collected from the wetland east of the earthen berm that showed EC to be 733 us/cm and Chloride at 1902 ppm with the titration strip. It appears that the impacts were not removed completely and are moving down-gradient into the wetland east of the earthen berm. Kris's notes state that he asked the responsible party for a higher level assessment of the area. Will need to contact company for additional information and final action on the site. More followup needed.

Date: 10/8/2015 **Status:** Inspection

Author: Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on location 10/8/2015.

There are significant impacts to areas across the lease road due to a produced water spill. The soil has visible salt crystals on the surface and is showing signs of sodium impacts in the ditch. There also appear to be excavations that have not been filled and dikes that have not been removed from the ditches.

More follow-up is necessary to ensure proper cleanup.

Date: 1/28/2016 **Status:** Correspondence

Author: Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

This well was sold to White Rock Oil and Gas. Further correspondence with them is necessary to ensure proper cleanup of this location.

Date: 6/9/2016 **Status:** Inspection

Author: Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on location 13:57 6/9/2016.

Visible bare area to the North of the well location in the ditch on the north side of the road. No vegetation is visible in the area. Salt crystals visible in impacted area. Site appears to be in a state of half remediation. Samples collected.

More Follow up is necessary.