

Oil Field Environmental Incident Summary

Incident: 20140106105954 **Date/Time of Notice:** 01/06/2014 10:24

Responsible Party: Zavanna, LLC

Well Operator: ZAVANNA, LLC

Well Name: PVT. GIBSON 1-27H

Field Name: BRIAR CREEK

Well File #: 16418

Date Incident: 1/4/2014 **Time Incident:** 17:00

Facility ID Number:

County: MCKENZIE

Twp: 152 **Rng:** 104 **Sec:** 27 **Qtr:**

Location Description:

Submitted By: Drew Tooley

Received By:

Contact Person: Drew Tooley
1200 17TH STREET STE 1100
DENVER, CO 80202

General Land Use: Well/Facility Site

Affected Medium: Well/Facility Soil

Distance Nearest Occupied Building: 1 Miles

Distance Nearest Water Well: 1500 feet

Type of Incident: Other

Release Contained in Dike: No

Reported to NRC: Unknown

	Spilled	Units	Recovered	Units	Followup	Units
Oil	6	barrels	5	barrels	5	barrels
Brine	0	barrels	0	barrels		
Other	0	barrels	0	barrels		

Description of Other Released Contaminant:

Inspected:

Written Report Received: 3/7/2014

Clean Up Concluded:

Risk Evaluation:

No Immediate Risk

Areal Extent:

Potential Environmental Impacts:

Action Taken or Planned:

Notified State of North Dakota at 5:22pm on January 4th, 2014. Firetube Gasket will be replaced and tested to prevent reoccurrence.

Wastes Disposal Location:

Agencies Involved:

Updates

Date: 1/6/2014 **Status:** Reviewed - Follow-up Required

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Roberts received call from ND Game and Fish Dept on Saturday, reporting the leak and spray off location. Made contact with O&G inspector, who in turn contacted company. Pumper was then en route to location. Later report back from inspector indicated that the leaking/spraying pipe was underground, between the well and the treater, on location. Well was immediately shut in. Spray, however, went partly off location. Followup is necessary

Date: 1/8/2014 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The temperature was -2 °F, and the wind was six miles an hour from the east. When I got to the site, two North Dakota Game and Fish Department employees were waiting at the site, along with an employee of Zavanna. The cleanup crews were finishing removal of the oil-stained soil and snow on the east edge of the well pad. There is no surface water next to the well; the area is flat. The county road passes between the well pad and wildlife management area. At the time of the gasket failure, the oil misted out of the back side of the treater unit. This mist was carried by a very strong wind over approximately five acres of well pad, road, and management area. The management area has a row of smaller trees and shrubs along with a row of large cottonwoods along the east side of the road. The trees are covered in oil mist; it appears they received the largest dose. The oil also covered a good two hundred yards of grass and snow. To the east of the trees and grassed area, there is a controlled wetland structure. A few drops of misted oil could be seen on the vegetation near the wetland and on the taller wetland vegetation. The Game and Fish Department employees thought the terrain was too rough for scraping, so they felt that a controlled burn in the spring would be the better option. The company will be working with the Game and Fish Department on the controlled burn, and they will also watch the trees for any death loss this next summer. The Game and Fish Department will work on a plan with the company if trees need to be replaced. The Zavanna employee indicated that the fire tube gasket has been replaced on this unit, and the company will be checking on other wells for fire tube gasket issues. They are also replacing older dirt dikes with metal dikes as time allows. The dikes around this well site look in good shape. Follow-up inspection will be done next summer to check on the trees and vegetation.

Date: 10/22/2014 **Status:** Inspection

Author: Cooper, Mike

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on site at 12:50 CT. Temperature 57 degrees with a north wind of 5-10 mph. The site has a newly constructed dirt dike that encloses the entire well site. The well site looks very clean and orderly. Vegetation around the dirt dike looks ok and has sprouted since spring. Inspected the north and east edges of the site and observed no indication of an oil spill on the ground. I found evidence that a controlled burn conducted by the Game and Fish Department did occur in the spring as many old tree limbs had burn marks. Most of the vegetation looks alright. However, most of the trees have already shed their leaves at this point. Further followup is required next spring/summer to determine the extent of the damage to the tree rows north and east of the site.

Date: 6/10/2015 **Status:** Inspection

Author: Washek, Sandi

Updated Oil Volume: 6.00 barrels

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on site at 4:54 p.m. Weather was overcast with wind out of the east at 10 mph. Inspected the areas east and north of the well site. In the game management area, the trees and shrubs are all leafed out, and a number of the shrubs are forming berries. Good grass cover of the area too. Follow up with ND Game and Fish for any additional concerns with this site.

Date: 12/23/2015 **Status:** Correspondence

Author: Washek, Sandi

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Contacted North Dakota Game and Fish (NDGF) rep to see if there were any concerns on the cleanup of the site. Was informed the agency was happy with the site remediation so far, but NDGF wants to see how vegetation comes back next summer and ensure that there are no erosion issues along the pipeline where it was dug up. Check back next summer with NDGF.