

Module 1 Lesson 5 – Conducting Undesirable Event Inspections

EXERCISE 2 – Enter Undesirable Event into AFMSS 2

Instructions: Read the Written Report (letter) for an undesirable event below. Enter the undesirable event details into AFMSS 2 for a random well in the AFMSS 2 training environment. The well should be active and have a completion tied to it. The well, location, and operator information have been omitted from the Written Report below since the student is selecting the well to associate for this event. Students have 30 minutes to enter the event into AFMSS 2.

Written Report (03/30/2021)

Dear BLM,

We notified you and the state oil and gas division on March 18, 2021 around 9:00 a.m. of our release of wellbore fluids from our well. It appears that a small valve on the wellhead rusted out due to being buried under soil, which resulted in the release of 2,000 bbls of produced water and oil. From our production reports, we produce about 60% oil and 40% produced water. From our investigation, we believe the release occurred on March 17, 2021 around 2:00 p.m. By 6:00 p.m. the next day, we were able to build retention ponds to slow the flow of fluids down the dry wash. We were not able to stop the leak in the wellhead until March 20th. The lease operator had to order a workover rig to shut in the well with heavy drilling mud/cement. By that time, the spill had flowed down the dry wash for one mile. In all, we created two earthen retention ponds along the dry arroyo to try and contain the discharged fluids. We used a vac truck to remove the fluids from the retention ponds and recovered about 300 bbls of wellbore fluids. In coordination with the BLM, we are removing visible oil-stained soil from the dry arroyo. We plan to take soil samples along the arroyo to determine if we cleaned up the spill. No injuries occurred during the event. Let me know if you have any questions.

Jacob Dolan
Operator Representative
