

#### Spill tracking – Homestead 4.22.18

- 4.22.18
  - 3pm spill discovered and immediately stopped. Vac truck called out to clean up
  - Reported to completions manager and EH&S Manager.
  - Vac truck sucked up standing liquid and impacted soil.
- 4.23.18
  - Form 19 spill report submitted to COGCC
  - Surface owner notified – email
  - Municipality (Brighton) notified – call and email
  - Vac truck called out to conduct further cleanup of soil after progress check/extent determination.
  - Investigation – Completions manager and site supervisor
    - A 10” lay flat transfer line was moving water from the collection tanks to the coil pump supply tanks when the line ruptured. The material of the hose tore apart from the fitting and approximately 30 bbls of fluid, consisting partially of produced water, was spilled. All fluid that was spilled was contained within the pad general containment ditch and berm.
    - Root cause – should not have used line of this diameter or material for transfer of produced water or liquids at higher pressure, only fresh water at low pressure.
    - Failure cause – overpressure and/or excessive vibration condition
    - Corrective action- removed 10” lay flat hose from service; 10” lay flat hose not to be used in similar situation again. Use only with fresh water. Truck transfer used for completing this operation. Future operations will use smaller diameter higher rated lines for transfer or truck.
- 4.25.18
  - City of Brighton inspection
  - COGCC inspection
- 5.1.18
  - Pulled clean up confirmation samples from spill location and ditch (see aerial photo)
- 5.2.18
  - Submitted Supplemental form 19