

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

The injection pump failed resulting in an overflow at the tank battery. When the resulting spill overflowed the tank berms, it split into two paths. One path flowed into emergency containment pits. This path of the spill did not leave the emergency containment pits. The second path flowed approximately 700 feet north along the lease road. The spill did not enter the ephemeral stream in Straight Gulch.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Table with 5 columns: Date, Agency/Party, Contact, Phone, Response. It contains two rows of notification data from COGCC.

Was there a Grade 1 Gas Leak associated with this E & P waste spill or release? Yes [] No [X]

If YES, enter the Document Number of the Initial Grade 1 Gas Leak Report Form 44: _____

Was there a reportable accident associated with this E & P waste spill or release? Yes [] No [X]

If YES, enter the Document Number of the Initial Accident Report, Form 22: _____

SPILL/RELEASE DETAIL REPORTS

#1 Supplemental Report Date: 08/30/2019

Table with 4 columns: FLUIDS, BBL's SPILLED, BBL's RECOVERED, Unknown. Lists various fluids like OIL, CONDENSATE, PRODUCED WATER, etc.

specify: _____

Was spill/release completely contained within berms or secondary containment? NO Was an Emergency Pit constructed? NO

Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.

A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit

Impacted Media (Check all that apply) [X] Soil [] Groundwater [X] Surface Water [X] Dry Drainage Feature

Surface Area Impacted: Length of Impact (feet): 700 Width of Impact (feet): 2

Depth of Impact (feet BGS): _____ Depth of Impact (inches BGS): 2

How was extent determined?

The extent of the spill was determined visually. The spill flowed in two paths after leaving the tank bermed area. A portion of the spill flowed into the safety pits and did not leave the pits. A second part of the spill flowed north along the lease road. Widths and depths provided above are for the portion of the spill that flowed north along the lease road.

Soil/Geology Description:

Based on a review of the NRCS soils map for the spill area, the soils consist of fine sandy loams and sandstone outcrops. The nearby depth to groundwater was previously measured as 20 feet below ground surface at a nearby, unregistered water well that has since been plugged. This is the same information that was used in previously submitted Form 19s. Water wells search results based on a Colorado Department of Natural Resources water well search and only includes permitted water wells.

Depth to Groundwater (feet BGS) 20 Number Water Wells within 1/2 mile radius: 0

If less than 1 mile, distance in feet to nearest Water Well _____ None [X] Surface Water 0 None []

Wetlands _____ None [X] Springs _____ None [X]

Livestock _____ None Occupied Building _____ None

Additional Spill Details Not Provided Above:

The spill remediation completed to date (August 30th, 2019) consists of recovery of fluids from within the tank berms and washing of the tanks and other equipment inside the tank berms, the excavation and disposal of approximately 260 cubic yards of contaminated soils from the spill path, removal of stained vegetation from the safety pits (for later disposal), hot water washing and flushing of the oil staining in the safety pits, use of absorbents and a mechanical skimmer to remove oil from the safety pits. Approximately 30 barrels of oil overflowed the containment, the remainder of the spilled fluid stayed within containment. All recovered fluids and excavated soil and/or vegetation collected to date have been or will be disposed of as E&P waste. All fluids, soil and vegetation that will be collected during further remediation of this spill will be disposed of as E&P wastes.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 08/30/2019

Cause of Spill (Check all that apply) Human Error Equipment Failure Historical-Unknown
 Other (specify) _____

Describe Incident & Root Cause (include specific equipment and point of failure)

An injection pump failed, resulting in an overflow of the tanks. Due to recent facility work, a fail safe was bypassed and not turned back on when the field was restarted.

Describe measures taken to prevent the problem(s) from reoccurring:

We are implementing a new procedure to ensure bypass safeties are not unattended by staff. Wesco is installing mechanical timer limitations to bypasses.

Volume of Soil Excavated (cubic yards): 260

Disposition of Excavated Soil (attach documentation) Offsite Disposal Onsite Treatment
 Other (specify) _____

Volume of Impacted Ground Water Removed (bbls): 0

Volume of Impacted Surface Water Removed (bbls): 100

REQUEST FOR CLOSURE

Spill/Release Reports should be closed when impacts have been remediated or when further investigation and corrective actions will take place under an approved Form 27.

Basis for Closure: Corrective Actions Completed (documentation attached) Work proceeding under an approved Form 27

Form 27 Remediation Project No: _____

OPERATOR COMMENTS:

Wesco's access to the field is currently limited by the landowner agreement which states in part that except when Emergency Access is necessary, Kirkwood will restrict its easement use to a maximum of three round trips per day in vehicles no larger than a maintenance vehicle during the period from the last Saturday in August through the first Friday of December (Hunting Season) between the hours of 9:00 am to 4:00 pm. Drill rigs and other large vehicles and equipment such as tractor trailer trucks, unless necessary as part of Emergency Access, are strictly prohibited in the easement during Hunting Season. In response to the approved Form 19 COA's, the tank capacity of the tanks at the Maudlin Gulch Tank Battery is 7, 400 barrel tanks for a total tank capacity of 2,800 barrels of fluid.

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: _____ Print Name: Dave Weinert

Title: HSE Coordinator Date: 08/31/2019 Email: davew@kirkwoodcompanies.com

COA Type

Description

Attachment Check List

Att Doc Num**Name**

402163156	TOPOGRAPHIC MAP
402163157	AERIAL PHOTOGRAPH
402163160	TOPOGRAPHIC MAP

Total Attach: 3 Files

General Comments**User Group****Comment****Comment Date**

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)