District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|---|---|
| Incident ID | NAPP2100733648 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | | | |
|---|---|---|---|
| Responsible Party | COG Operating, LLC | OGRID | 229137 |
| Contact Name | Jennifer Knowlton | Contact Telephone | (575) 748-1570 |
| Contact email | JKnowlton@concho.com | Incident # *(assigned by OCD)* | |
| Contact mailing address | 600 West Illinois Avenue, Midland, Texas 79701 | | |

## Location of Release Source

Latitude 32.253302 Longitude -103.68138
*(NAD 83 in decimal degrees to 5 decimal places)*

| | | | |
|---|---|---|---|
| Site Name | Mastiff Federal 003H | Site Type | Tank Battery |
| Date Release Discovered | December 25, 2020 | API# *(if applicable)* | 30-025-42064 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| C | 04 | 24S | 32E | Lea |

Surface Owner: ☐ State ■ Federal ☐ Tribal ☐ Private (*Name:* _____)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| ■ Crude Oil | Volume Released (bbls) 167 | Volume Recovered (bbls) 167 |
| ■ Produced Water | Volume Released (bbls) 100 | Volume Recovered (bbls) 100 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ■ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

The release was caused by internal corrosion. The heater treater fire-tube got a hole and caused the leak. The release occurred within the lined facility. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release.

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2100733648 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br>■ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br>The volume released was greater than 25 barrels. |

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Immediate notice was given by Ike Tavarez via e-mail December 26, 2020 at 2:27 pm to emnrd-ocd-district1spills@state.nm.us and BLM_NM_CFO_Spill@blm.gov.

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Brittany N. Esparza Title: HSE Administrative Assistant

Signature: Brittany Esparza Date: 1/7/2021

email: besparza@concho.com Telephone: (432) 221-0398

**OCD Only**

Received by: Ramona Marcus Date: 1/8/2021

# ****** LIQUID SPILLS - VOLUME CALCULATIONS ******

**Location of spill:** Mastiff Federal 3H **Date of Spill:** 25-Dec-2020

**If the leak/spill is associated with production equipment**, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank **place an "X" here:** X

## Input Data:

| | OIL: | WATER: |
|---|---|---|
| If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: | 0.0 BBL | 0.0 BBL |

**If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.**

## Total Area Calculations

| Total Surface Area | width | | length | | wet soil depth | oil (%) |
|---|---|---|---|---|---|---|
| Rectangle Area #1 | 0 ft | | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #2 | 0 ft | X | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #3 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #4 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #5 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #6 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #7 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #8 | 0 ft | X | 0 ft | X | 0 in | 0% |

## Standing Liquid Calculations

| Standing Liquid Area | width | | length | | liquid depth | oil (%) |
|---|---|---|---|---|---|---|
| Rectangle Area #1 | 75 | X | 45 ft | X | 5.40 in | 62% |
| Rectangle Area #2 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #3 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #4 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #5 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #6 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #7 | 0 ft | X | 0 ft | X | 0 0 | 0% |
| Rectangle Area #8 | 0 ft | X | 0 ft | X | 0 in | 0% |

**ERROR - Standing Liquid Area larger than Total Area, Review Data Input**

**production system leak - DAILY PRODUCTION DATA REQUIRED**

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD) 1

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: YES N/A *(place an "X")*

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.00 gal per gal

Use the following when the spill wets the grains of the soil.
* Sand = **0.08** gallon (gal.) liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.14** gal. liquid per gal. volume of soil.
* Sandy clay loam soil = **0.14** gal liquid per gal. volume of soil.
* Clay loam = **0.16** gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:
Occurs when the spill soaked soil is contained by barriers, natural (or not).
* Clay loam = **0.20** gal. liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.25** gal. liquid per gal. volume of soil.
* Sandy loam = **0.5** gal. liquid per gal. volume of soil.

| | sq. ft. | cu. ft. | cu. ft. |
|---|---|---|---|
| Total Solid/Liquid Volume: | | | |
| Total Free Liquid Volume: | 3,375 | 577 | 942 |

### Estimated Volumes Spilled

| | H2O | OIL |
|---|---|---|
| Liquid in Soil: | 0.0 BBL | 0.0 BBL |
| Free Liquid: | 102.8 BBL | 167.7 BBL |
| Totals: | **102.8 BBL** | **167.7 BBL** |
| Total Liquid Spill Liquid: | **102.8 BBL** | **167.70 BBL** |

### Estimated Production Volumes Lost

| | H2O | OIL |
|---|---|---|
| Estimated Production Spilled: | **0.0** BBL | **0.0** BBL |

### Estimated Surface Damage

Surface Area: 3,375 sq. ft.

Surface Area: .0775 acre

### Recovered Volumes

Estimated oil recovered: **BBL** check - okay

Estimated water recovered: **BBL** check - okay

### Estimated Weights, and Volumes

| | | | |
|---|---|---|---|
| Saturated Soil = | lbs | cu. ft. | cu. yds. |
| Total Liquid = | 270 BBL | 11,360 gallon | 94,517 lbs |

### Air Emission from flowline leaks:

| | | |
|---|---|---|
| Volume of oil spill: | - | BBL |
| Separator gas calculated: | - | MCF |
| Separator gas released: | - | MCF |
| Gas released from oil: | - | lb |
| H2S released: | - | lb |
| Total HC gas released: | - | lb |
| Total HC gas released: | - | MCF |

### Air Emission of Reporting Requirements:

| | New Mexico | Texas |
|---|---|---|
| HC gas release reportable? | NO | NO |
| H2S release reportable? | NO | NO |