



*EOG Resources, Inc.
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EOG Y Resources, Inc.

Characterization Plan

Gossett EU #1

30-015-21627

Section 26, T17S-R25E

Eddy County, New Mexico

April 3, 2018

1RP-4516

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I. Location

From Artesia, NM travel West on Main Street (US 82). Turn left (South) onto 26th street, in 3 miles turn right (West) onto lease road (lease road intersects with Fairgrounds Road), continue on lease road for approximately 1.6 miles, turn right (North) and continue for 0.3 miles to the Southeast corner of the well pad.

II. Background

On November 14, 2017, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 65 B/O & 12 B/PW with 0 B/O & 0 B/PW recovered. The affected area is approximately 20' X 20' within the primary berm of the battery. The release was caused by a hole in the bottom of the production tank, which caused the release. A vacuum truck was called but did not recover any oil and or produced water. A backhoe was dispatched to excavate impacted soils which were stockpiled on the location on a liner and bermed. A roustabout crew repaired the tank and relocated the tank/battery to the west of the excavation. That battery is now lined with a 20 millimeter liner.

III. Surface and Ground Water

Area surface geology is Cenozoic Pleistocene. Based on information regarding this location (Section 26, T8S-R33E), the New Mexico Office of the State Engineer (NMOSE) Point of Diversion Summary indicates the depth to groundwater as follows: (NMOSE-RA03590, DTGW @ 150' & NMOSE-RA04012, DTGW @ 171'), the United States Geological Survey National Water Information System, indicates the depth to groundwater as follows: (USGS #324728104271902, DTGW @ 192' & USGS #324831104283201, DTGW @ 225'). The depth to groundwater is >100, per USGS and NMOSE groundwater level. **Based on this information the Site Ranking is a Zero (0).**

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Brantley Lake (14.5 miles, SE direction).

IV. NMOCD Ranking Criteria

The ranking for this site is Zero (0) based on the following:

Depth to ground water	>100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

Based on the ranking criteria, the NMOCD established RRALs for this site are:

Benzene	10 ppm
BTEX	50 ppm
TPH	100 ppm
Chlorides	No established RRAL

V. Sampling Procedure

Vertical delineation samples will be collected at 1 sample point (S-1) within the release area. Due to the nature of the release (oil & produced water), vertical delineation soil samples will be analyzed for Benzene, BTEX, TPH extended, and Chlorides (for documentation, with no established RRAL's for chlorides). If these samples are below RRALs for Benzene, BTEX, and TPH extended, no further sampling for these constituents will occur. If these samples are above RRALs for Benzene, BTEX, and TPH extended, further soil samples will be collected. All samples will be sent to a NMOCD approved laboratory for analysis.

Horizontal delineation samples will be collected at 4 sample points (CP1-CP4) at what is believed to be the outer edge of the release area. Due to the nature of the release (oil & produced water), vertical delineation soil samples will be analyzed for Benzene, BTEX, TPH extended, and Chlorides (for documentation, with no established RRAL's for chlorides). If these samples are below RRALs for Benzene, BTEX, and TPH extended, no further sampling for these constituents will occur. If these samples are above RRALs for Benzene, BTEX, and TPH extended, further soil samples will be collected. All samples will be sent to a NMOCD approved laboratory for analysis.

Latitude/Longitude Coordinates for Sample Points

S-1	32.803217°; -104.458359°
CP-1	32.803237°; -104.458361°
CP-2	32.803196°; -104.458361°
CP-3	32.803215°; -104.458336°
CP-4	32.803217°; -104.458358 °

Figure 1

Site Map

Gossett EU #1

Section 26, T17S-R25E
Eddy County, New Mexico

Legend

- Gossett EU #1

Gossett EU #1

Google Earth

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100 ft



Figure 2

Vertical Sample Point(s)

Gossett EU #1

Section 26, T17S-R25E
Eddy County, New Mexico

Legend

- Vertical Sample Points



Figure 3

Horizontal Sample Point(s)

Gossett EU #1

Section 26, T17S-R25E
Eddy County, New Mexico

Legend

- Horizontal Sample Points



Google Earth

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30 ft






Figure 4

Stockpile Sample Point(s)

Gossett EU #1

Section 26, T17S-R25E
Eddy County, New Mexico

Legend

-  Gossett EU #1
-  SP-1 (Stockpile)
-  SP-2 (Stockpile)

Gossett EU #1

SP-2

SP-1

SP-2

SP-1

SP-2

SP-1

SP-2

SP-1

SP-2

