

# Trinity Oilfield Services & Rentals, LLC

## Delineation Plan



**Company:** OXY USA, Inc. **Address:** P.O. Box 4294, Houston, TX 77210 **Telephone #:** (575) 390-2828

**Site Name:** Vortec 22 #1 Battery **NMOCD Reference#:** 2RP-4599

**Surface Owner:** Private **Mineral Owner:** US BLM

**Unit Letter:** P (SE/SE) **Section:** 22 **Township:** 24S **Range:** 29E **County:** Eddy **GPS Coordinates:** 32.1966019N -104.9648743W

**Depth to Ground Water:** 105' - 110' **Distance to Surface Water Body:** ☐ <200' ☐ 200' - 1,000' ☒ >1,000'

**Wellhead Protection Area:** <1,000' from Water Source or <200' from Domestic Water Source? ☐ Y ☒ N

**NMOCD Ranking Score:** 0 **Soil Remediation Levels (mg/kg):** Benzene: 10 BTEX: 50 TPH: ☐ 100 Chloride: ☐ 250  
☐ 1,000 ☒ 600  
☒ 5,000

**Date/Time of Release:** 1/28/2018 **Type of Release:** Produced Water **Approximate Volume of Release:** 50 bbls

### Background Information:

On January 28, 2018, OXY USA, Inc. (OXY), discovered a release at the Vortec 22 #1 tank battery. Failure of a section of a 4-inch poly transfer line resulted in the release of approximately 50 barrels (bbls) of produced water. During initial response activities, the transfer line was repaired, and a vacuum truck was utilized to recover approximately 40 bbls of free-standing liquid. Based on a preliminary environmental site assessment conducted on February 7, 2018, the release impacted a portion of the tank battery pad, access road/pipeline right-of-way (ROW), and adjacent pastureland. Impacted areas are present within a total area measuring approximately 21,335 square feet.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office and the United States Department of the Interior - Bureau of Land Management's (BLM) Carlsbad District Office. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. General photographs of the releases are provided in Appendix C. A "Site Location Map" is provided as Figure 1.

### Proposed Activities:

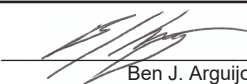
A series of delineation trenches will be advanced to investigate the vertical and horizontal extent of impacted soil. The trenches will be spaced at approximate 50-foot horizontal intervals, in a grid-like pattern, and will be located on the Vortec 22 #1 pad, along the caliche access road/pipeline ROW, and in the adjacent pastureland to the west of the facility. The trenches will be advanced in 1- to 2-foot vertical intervals, and soil samples collected from the floors of the trenches will be field-screened with a chloride test kit and/or photo-ionization detector (PID). The trenches will be advanced until field-screens suggest contaminants of concern are below the recommended remediation action levels approved for the site by the NMOCD, or to a maximum depth of 15 feet below ground surface. Representative soil samples will be submitted to an NMOCD-approved laboratory for confirmatory analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride using Environmental Protection Agency Methods SW 846-8021b, SW 846-8015M, and 300, respectively.

The locations of the proposed sampling locations are depicted in Figure 2, "Proposed Delineation Map". (Note: a hand-auger or other sampling method may ultimately be utilized in areas where use of heavy equipment is deemed impracticable and/or unsafe, based on conditions or circumstances encountered during the delineation event.)

Upon receipt of laboratory analytical results from the delineation event, an "Environmental Site Summary & Remediation Proposal" (Work Plan) will be developed, outlining an appropriate soil remediation strategy for the site. The Work Plan will be submitted to both the NMOCD and BLM for review and approval prior to conducting any excavation activities.

### Enclosures:

**Figure 1: Site Location Map**  
**Figure 2: Proposed Delineation Map**  
**Appendix A: Release Notification & Corrective Action (Form C-141)**  
**Appendix B: Depth-to-Groundwater Data**  
**Appendix C: Photographs**

  
Ben J. Arguijo  
Project Manager

3/6/2018

# Figures



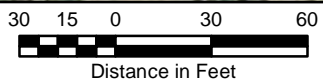
2,000 1,000 0 2,000  
Distance in Feet

**Figure 1**  
**Site Location Map**  
**OXY USA, Inc.**  
**Vortec 22 #1 Battery**  
**Eddy County, New Mexico**  
**NMOCD Reference #: 2RP-4599**



Trinity Oilfield Services & Rentals, LLC  
P.O. Box 2587  
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
March 6, 2018	Scale: 1" = 2,000'



**Legend**

-  Release
  Proposed Sample Location

**Figure 2**  
**Proposed Delineation Map**  
**OXY USA, Inc.**  
**Vortec 22 #1 Battery**  
**Eddy County, New Mexico**  
**NMOCD Reference #: 2RP-4599**



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Drawn By: BJA	Checked By: CTR
March 6, 2018	Scale: 1" = 60'

# **Appendices**

**Appendix A**

**Release Notification &**

**Corrective Action (Form C-141)**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

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

FEB 01 2018

Form C-141  
Revised April 3, 2017

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

**RECEIVED**  
Must be submitted to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**NAB18031435240** **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company	OXY USA INC <i>116696</i>	Contact	WADE DITTRICH
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-390-2828
Facility Name	VORTEC 22 #1 BATTERY	Facility Type	BATTERY

Surface Owner	BLM <i>Private</i>	Mineral Owner	BLM	API No.	30-015-34817
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	22	24S	29E	330	South	330	East	Eddy

Latitude 32.1966019 Longitude -103.9648743 (Leak GPS) NAD83

**NATURE OF RELEASE**

Type of Release	PRODUCED WATER	Volume of Release	50 bbls	Volume Recovered	40 bbls
Source of Release	4 inch Poly Transfer line failure	Date and Hour of Occurrence	1-28-18	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM			
By Whom?	WADE DITTRICH	Date and Hour	1-30-18 @ 3:12 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Spill was caused by a 4 inch Poly Transfer line failure due to fire. Line was repaired and returned to service.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is 20 ft x 50 ft (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and the BLM.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Waide Dittich</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: WADE DITTRICH	Approved by Environmental Specialist: <i>Crystal W</i>	
Title: ENVIROMENTAL SPECIALIST	Approval Date: <i>2/5/18</i>	Expiration Date: <i>NIA</i>
E-mail Address: <u>waide.dittich@oxy.com</u>	Conditions of Approval: <i>See attached</i>	Attached: <i>2RP-4599</i>
Date: <i>2-1-18</i> Phone: 575-390-2828		

\* Attach Additional Sheets If Necessary

# **Appendix B**

## **Depth-to-Groundwater Data**



# *New Mexico Office of the State Engineer* **Water Column/Average Depth to Water**

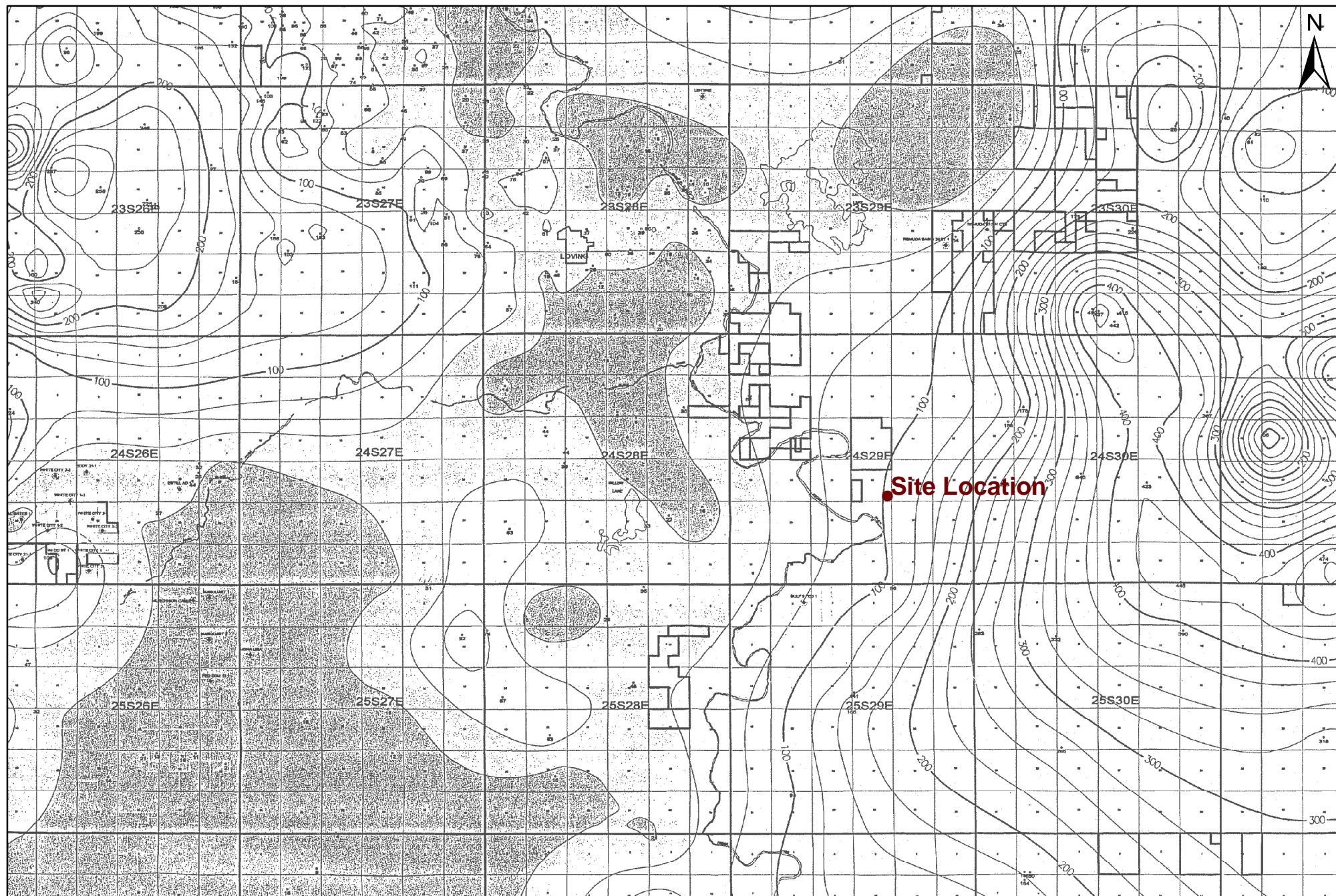
No records found.

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 597566.29

**Northing (Y):** 3562697.5

**Radius:** 1610



**Figure 3**  
**Depth-to-Groundwater Trend Map**  
**OXY USA, Inc.**  
**Vortec 22 #1 Battery**  
**Eddy County, New Mexico**  
**NMOCD Reference #: 2RP-4599**



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Drawn By: BJA	Checked By: CTR
March 6, 2018	Not To Scale

# **Appendix C**

## **Photographs**

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB - Release (Looking West)



Vortec 22 1 CTB - Release (Looking West-Southwest)

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB – Release (Looking East-Southeast)



Vortec 22 1 CTB – Release (Looking South)

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB – Release (Looking West-Southwest)



Vortec 22 1 CTB – Release (Looking South)

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB – Release (Looking Southwest)



Vortec 22 1 CTB – Release (Looking Southeast)

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB – Release (Looking East)



Vortec 22 1 CTB – Release (Looking East-Northeast)

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB – Release (Looking North)



Vortec 22 1 CTB – Release (Looking North-Northwest)

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB – Release (Looking West-Northwest)



Vortec 22 1 CTB – Release (Looking North)

**OXY USA, Inc. – Vortec 22 #1 Battery**  
Unit Letter “P” (SE/SE), Section 22, Township 24S, Range 29E



Vortec 22 1 CTB – Release (Looking East-Northeast)