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August 4, 2017

Olivia Yu  
Environmental Specialist  
New Mexico Oil Conservation Division, District 1  
1625 N. French Drive  
Hobbs, New Mexico 88240

**APPROVED**

**By Olivia Yu at 10:33 am, Aug 29, 2017**

**NMOCD approves of the proposed  
delineation for 1RP-4714.**

Re: Work Plan for Site Characterization  
Enfield No. 1 Facility Storage Tank Release  
Bagley North Oil Field, Lea County, New Mexico  
NE1/4 NE1/4, Sec. 16, T11S, R33E

Dear Ms. Yu:

On behalf of Jay Management, LLC (Jay Management), Timberwolf Environmental, LLC (Timberwolf) prepared this work plan for site characterization at the Enfield No. 1 Facility (Site) to assess impacts related to a recent storage tank overflow release. The Site is located in the Bagley North Oil Field approximately 6.07 miles southeast of Caprock, Lea County, New Mexico (Figures 1 through 3). The release response actions and site characterization work plan are discussed below.

### **Environmental Setting**

The Site consists of a wellhead, one above-ground oil storage tank, one above-ground produced water tank, and one heater treater.

The surrounding area is characterized as flat to slightly sloping rural land used for cattle grazing and oil and gas production. According the United States Department of Agriculture – Natural Resources Conservation Service web soil survey of Lea County, New Mexico, soils at the Site are mapped as the Kimbrough – Lea complex, 0 to 3 percent slopes (KU). This soil type consists of gravelly loam in the upper 3 inches, loam from 3 to 10 inches, and underlain by cemented material to a depth of 80 inches.

### **Release Response Actions**

On 06/02/17, a storage tank overflowed due to the absence of fuse in the electrical box. An estimated 27 barrels (bbl) of oil and produced water was released within secondary containment at the Site. Jay Management replaced the fuse along with recovering approximately 22 bbls of free fluids. Written notification of the release was made to the New Mexico Oil Conservation Division (NMOCD) on 06/05/17; a copy of Form C-141 is attached.

### **Site Characterization Work Plan**

The following scope of work will be conducted within 60 days from the date of this work plan to assess and characterize impacts at the Site:

#### **Task 1: Site Characterization**

The goals of the site characterization activities are as follows:

- Delineate the horizontal and vertical extents of hydrocarbon and salinity impacts in soil.
- Assess soil characteristics to evaluate potential remedial options.
- Verify that neither groundwater nor surface water have been affected by the release.

Soil samples will be collected from within and around the release area to obtain horizontal and vertical delineation. Due to the surface soil characteristics, soil samples will be obtained from test pits installed with an excavator or backhoe. Samples will continuously be field screened for volatile organic compounds (VOCs) with a photoionization detector (PID) and salinity with an electrical conductivity meter to assist with sampling selection for delineation. All samples will be analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), and chloride.

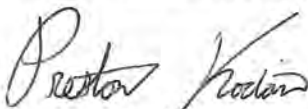
The soil samples will be placed in laboratory-provided sample containers, stored on ice, and transported under proper chain-of-custody protocol to the TestAmerica Laboratories in Denver, Colorado.

#### **Task 2: Site Characterization Report and Remedial Action Plan**

Upon completion of Task 1, a Site Characterization Report and Remedial Action Plan will be submitted to the NMOCD. The report will document investigation methodology and results with associated figures, tables, and laboratory data. Based on site characterization results, the document will include the selected remedial approach to address soil impacts.

If you have any questions regarding this work plan, please call us at 979-324-2139.

Sincerely,  
Timberwolf Environmental, LLC



Preston Kocian  
Project Manager



Ryan S. Mersmann, P.G., CPSS  
Vice President of Operations

Attachments: Figures  
Form C-141

Cc: Amir Sanker, Jay Management  
Jim Foster, Timberwolf Environmental, LLC

## **FIGURES**

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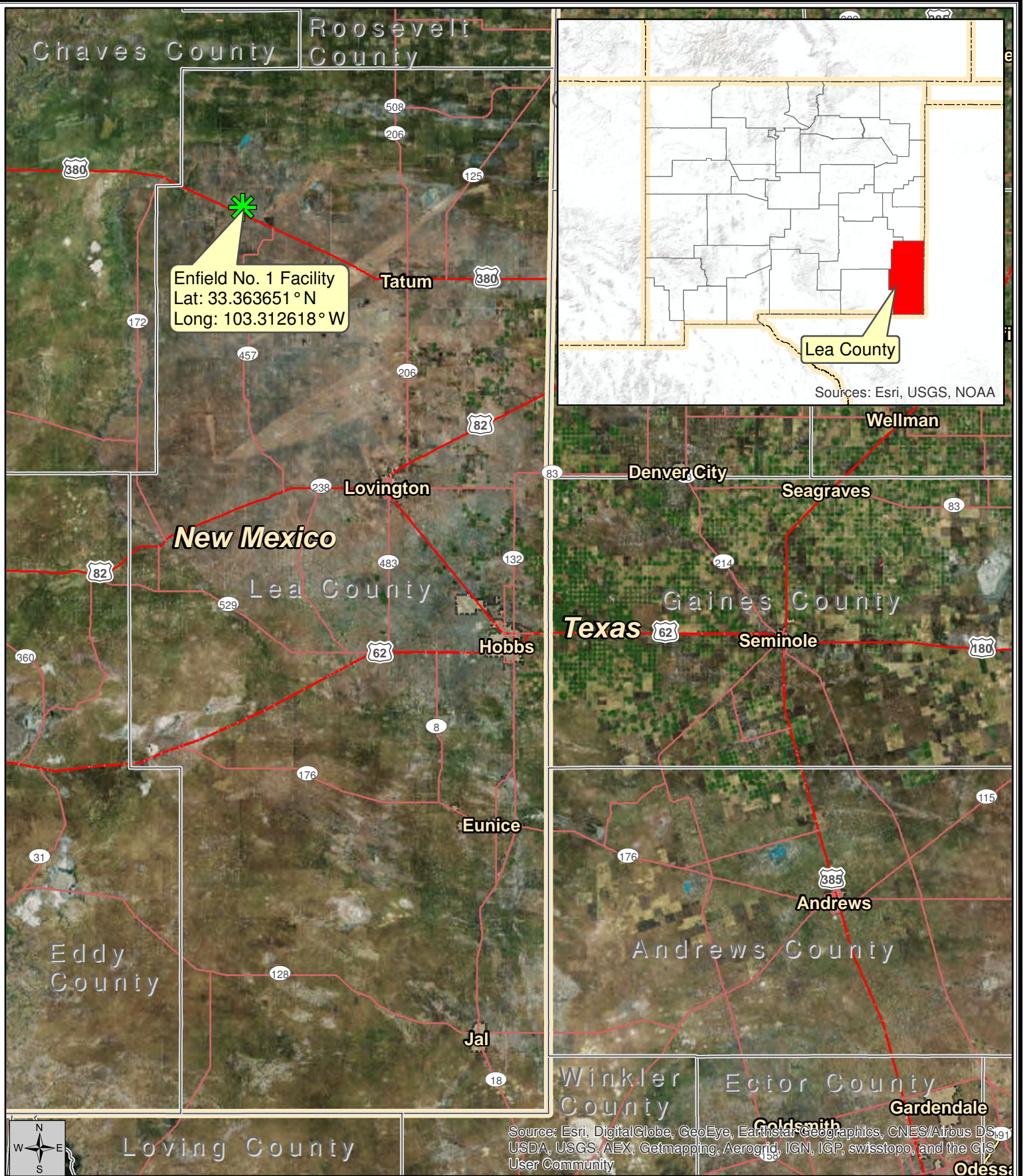


Figure 1  
Site Location Map

## Work Plan for Site Characterization

August 4, 2017



1:1,000,000  
0 10 20 30 40 50 Miles

**Enfield No. 1 Facility Storage Tank Release**  
**Jay Management, LLC**  
**Lea County, New Mexico**

Created By:  
Russell Greer  
TE Project No.: ISR-170054

Datum: NAD83  
Imagery Source: ESRI  
Vector Source: TE & ESRI

Site



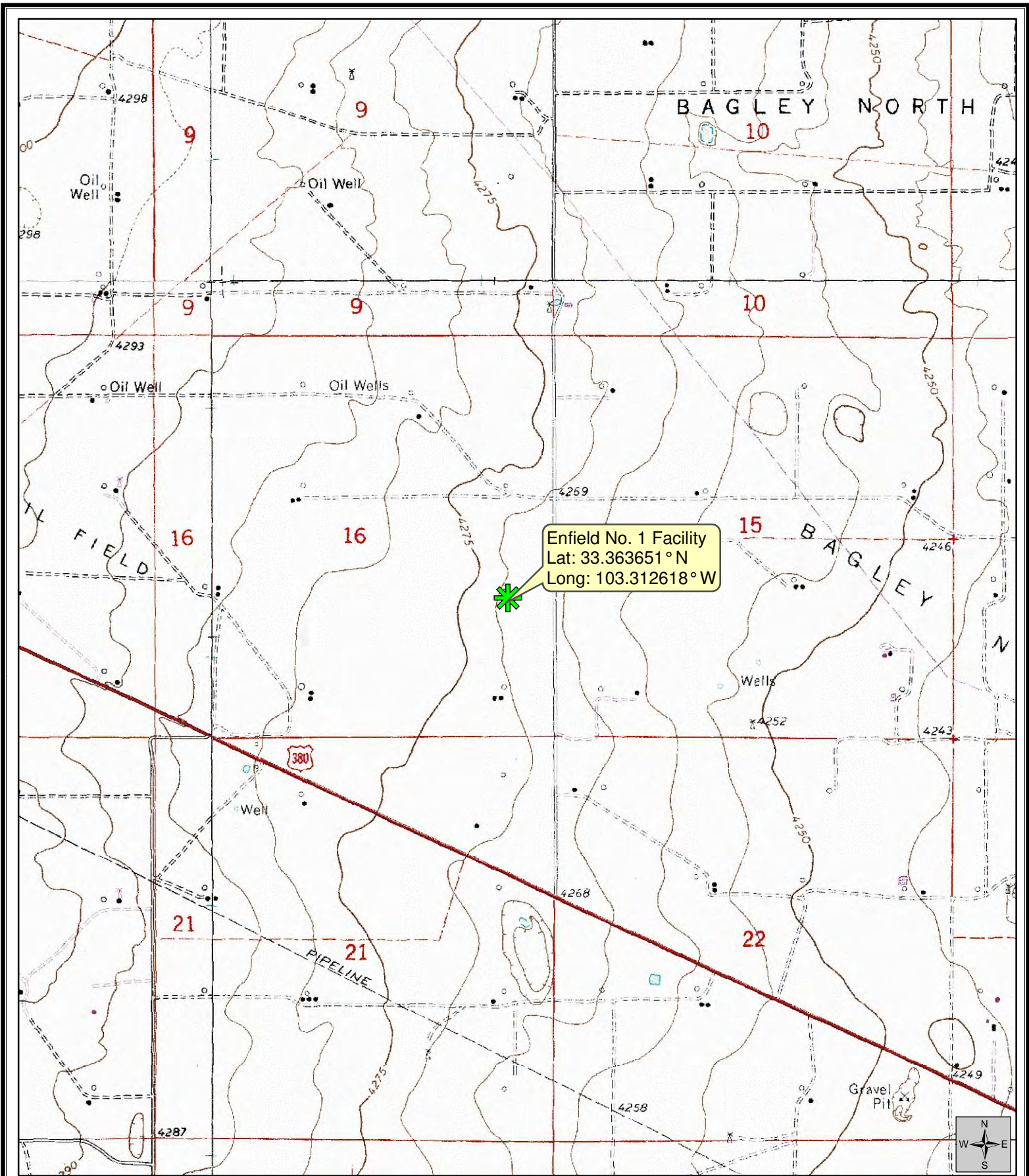


Figure 2  
Topographic Map

## Work Plan for Site Characterization

August 4, 2017



Created By:  
Russell Greer  
TE Project No.: ISR-170054

Enfield No. 1 Facility Storage Tank Release  
Jay Management, LLC  
Lea County, New Mexico

Datum: NAD83  
Imagery Source: USGS  
Quads: Soldier Hill &  
Dallas Store  
Vector Source: TE

 Site





**Figure 3**  
2016 Aerial Map

## Work Plan for Site Characterization

August 4, 2017



Created By:  
Russell Greer  
TE Project No.: ISR-170054

1:1,000  
0 50 100 150 200 250 Feet

**Enfield No. 1 Facility Storage Tank Release**  
**Jay Management, LLC**  
**Lea County, New Mexico**

Datum: NAD83  
Imagery Source: ESRI  
Vector Source: TE

Point of Release

## **Form C-141**

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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

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

Form C-141  
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company: Jay Management Company	Contact: Jim Foster	
Address: 2425 W Loop South, Ste. 810, Houston, Texas 77027	Telephone No.: 979-324-2139	
Facility Name: Enfield No. 1	Facility Type: Well with Tank Battery	
Surface Owner: Fee land	Mineral Owner: State of New Mexico	API No.: 30-025-21932

**LOCATION OF RELEASE**

Unit Letter I	Section 16	Township 11S	Range 33E	Feet from the 1,980	North/South Line South	Feet from the 660	East/West Line East	County Lea
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Latitude 33.363651° N Longitude 103.612618° W NAD83

**NATURE OF RELEASE**

Type of Release: Oil and Produced Water	Volume of Release: 27 bbls	Volume Recovered: 22 bbls
Source of Release: Tank overfilling due to fuse pulled from electrical box.	Date and Hour of Occurrence: 06/02/2017	Date and Hour of Discovery: 06/02/2017 1455
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu	
By Whom? Amir Sanker	Date and Hour: 06/02/2017 1526	
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.\*  
No watercourse was impacted.

Describe Cause of Problem and Remedial Action Taken.\*


The release was caused by someone removing a pump fuse; the fuse was found on the ground beside the electrical box. The fuse was replaced. All equipment is in good repair.

Describe Area Affected and Cleanup Action Taken.\*

Release occurred within the secondary containment area of the tank battery. None of the released fluids left the site. Approximately 22 bbls of fluid was recovered with a vacuum truck for off-site disposal.

Site conditions are documented in the attached photographs (e.g., Photographs 1 – 4).

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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Jim Foster	Approved by Environmental Specialist:		
Title: Environmental Consultant	Approval Date:	Expiration Date:	
E-mail Address: jim@teamtimberwolf.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 06/05/17	Phone: 979-324-2139		

\* Attach Additional Sheets If Necessary



**Photographic Documentation**  
**Enfield No. 1 Release**  
**Jay Management Company, Lea County, New Mexico**



**Photograph 1** - A view looking at the released fluids within tank battery secondary containment.

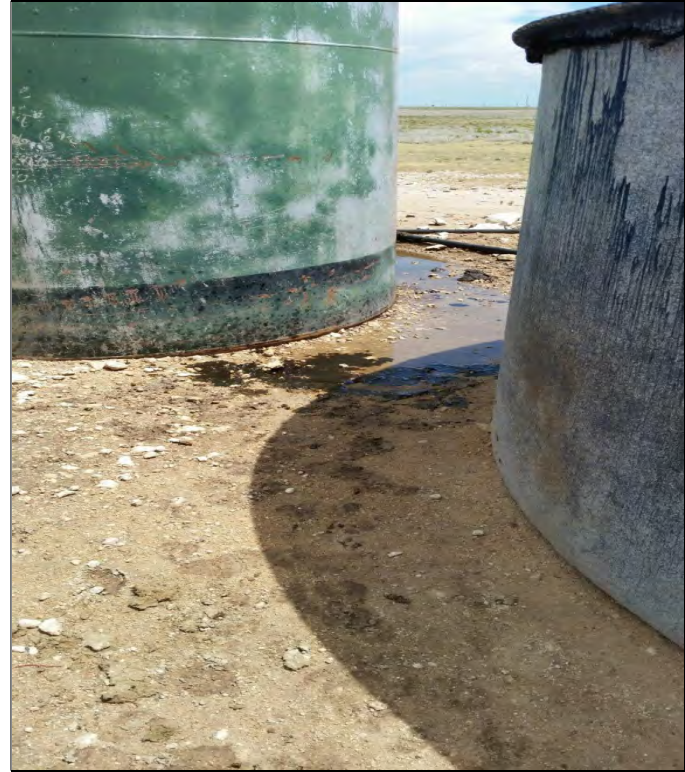


**Photograph 2** - A second view looking at the released fluids within tank battery secondary containment.

**Photographic Documentation**  
**Enfield No. 1 Release**  
**Jay Management Company, Lea County, New Mexico**



**Photograph 3** - A third view looking at the released fluids within tank battery secondary containment.



**Photograph 4** - A fourth view looking at the released fluids within tank battery secondary containment.