

## SITE INFORMATION

### Report Type: Closure Report nMLB1011352696

#### General Site Information:

<b>Site:</b>	James A Battery				
<b>Company:</b>	ConocoPhillips				
<b>Section, Township and Range</b>	Unit Letter J	Sec. 2	T 22S	R 30E	
<b>Lease Number:</b>	Associated API No. 30-015-25699				
<b>County:</b>	Eddy				
<b>GPS:</b>	32.418694			-103.849278	
<b>Surface Owner:</b>	State				
<b>Mineral Owner:</b>	N/A				
<b>Directions:</b>	Depart from Loving. Head toward Amy Ave on N 8th St (US-285) for 0.4 mi. Turn right onto Carter Rd (CR-712) for 1.4 mi. Turn right onto Potash Mines Rd (NM-31) for 6.5 mi. Turn right onto Jal Hwy (NM-128) for 8.7 mi. Turn left onto Cimarron Rd (CR-796) for 2.6 mi. Turn slightly left onto Cimarron Rd (CR-796) for 3.9 mi. Turn right onto CR-796A for 1.9 mi. Arrive at location. Site is on the right.				

#### Release Data:

<b>Date Released:</b>	4/22/2010
<b>Type Release:</b>	Produced Water
<b>Source of Contamination:</b>	Transition Line
<b>Fluid Released:</b>	12 bbl
<b>Fluids Recovered:</b>	0 bbl

#### Official Communication:

<b>Name:</b>	Marvin Soriwei	Christian M. Llull
<b>Company:</b>	Conoco Phillips - RMR	Tetra Tech
<b>Address:</b>	935 N. Eldridge Pkwy.	8911 North Capital of Texas Hwy. Building 2, Suite 2310
<b>City:</b>	Houston, Texas 77079	Austin, Texas
<b>Phone number:</b>	(832) 486-2730	(512) 338-2861
<b>Fax:</b>		
<b>Email:</b>	<a href="mailto:Marvin.Soriwei@conocophillips.com">Marvin.Soriwei@conocophillips.com</a>	<a href="mailto:christian.llull@tetrattech.com">christian.llull@tetrattech.com</a>

#### Site Characterization

<b>Depth to Groundwater:</b>	262' below surface
<b>Impact to groundwater or surface water:</b>	No
<b>Extents within 300 feet of a watercourse:</b>	No
<b>Extents within 200 feet of lakebed, sinkhole, or playa lake:</b>	No
<b>Extents within 300 feet of an occupied structure:</b>	No
<b>Extents within 500 horizontal feet of a private water well:</b>	No
<b>Extents within 1000 feet of any water well or spring:</b>	No
<b>Extents within incorporated municipal well field:</b>	No
<b>Extents within 300 feet of a wetland:</b>	No
<b>Extents overlying a subsurface mine:</b>	No
<b>Karst Potential:</b>	High
<b>Extents within a 100-year floodplain:</b>	No
<b>Impact to areas not on a production site:</b>	No

#### Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	--	100 mg/kg	600 mg/kg



March 30, 2021

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First St.  
Artesia, NM 88210

**Re: Closure Report  
ConocoPhillips  
James A Battery Line Release  
Unit Letter J, Section 2, Township 22 South, Range 30 East  
Eddy County, New Mexico  
2RP-406  
Incident ID nMLB1011352696**

Dear Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from a transition line at the James A Battery. The release point is located on the James A Battery production pad, which is shared with the plugged and abandoned James A #002 well (API No. 30-015-25699). The release footprint is located in Public Land Survey System (PLSS) Unit Letter J, Section 2, Township 22 South, Range 30 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.418694°, -103.849278°, as shown on Figures 1 and 2.

## **BACKGROUND**

According to the State of New Mexico C-141 Initial Report, on April 22, 2010 a release occurred from a 1-inch hole on a 3-inch transition line at the James A Battery due to internal corrosion. The release consisted of approximately 12 barrels (bbls) of produced water, of which none were recovered. The release reportedly affected a 741-ft by 3-ft area of caliche pad and pasture. The New Mexico Oil Conservation District (NMOCD) approved the initial C-141 on April 23, 2010 and subsequently assigned the release the Remediation Permit (RP) number 2RP-406 and the Incident ID nMLB1011352696. The initial C-141 form is included in Appendix A. The 2RP-406 release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively.

## **SITE CHARACTERIZATION**

A site characterization was performed and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified in 19.15.29 New Mexico Administrative Code (NMAC). However, the site is in a high karst potential area.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within 800 meters (approximately ½

Tetra Tech

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Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

mile) of the Site. Based on available data from one (1) water well located within 5,600 meters (approximately 3.5 miles) of the Site, the average depth to groundwater is 262 ft below ground surface (bgs). The site characterization data is included in Appendix B.

## REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization (high potential for karst), the RRALs for the Site are as follows:

Constituent	RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

## RECORDS REVIEW AND VISUAL SITE INSPECTION

A file search on the NMOCD Online Imaging web application revealed no records of investigation, assessment, or remediation activities taken at the Site, nor communications between agencies regarding the 2RP-406 release. The reported release point from the C-141 is in the pasture east of the battery pad. Based on a review of available historical aerial imagery, the approximate release point occurred approximately 515 ft west-northwest of the coordinates provided on the initial C-141. A cursory review of aerial imagery from October 2010 indicated an approximate footprint that matched the extent described in the initial C-141 (Figure 3).

On behalf of COP, on June 11, 2020 Tetra Tech personnel conducted a visual Site inspection at the 2RP-406 release area to evaluate current conditions at the Site. Photographic documentation from the visual inspection (with GPS coordinates) is included as Appendix C. A list of field observations describing the Site follow:

- No evidence of soil staining was noted in the pasture southwest of the battery.
- No odor was noted in soils on the production pad or in the pasture southwest of the battery.
- Vegetation was noted to be in various stages of growth throughout the pasture area southwest of the battery.

## SITE ASSESSMENT ACTIVITIES

On March 2, 2021, Tetra Tech returned to the Site to conduct field screening of soils to assess the identified release extent for salinity, which would infer the presence of chloride in soil. Soil screening locations were chosen based on the release extent dimensions reported in the C-141 and within the release footprint identified through aerial imagery review. Soils were collected from 0-1 ft bgs at twelve (12) locations (SS-1 through SS-12) within the identified release footprint and screened for salinity using an ExTech EC400 ExStik. Locations SS-1 through SS-5 were located on the caliche production battery pad, SS-6 was located on the caliche lease road west of the battery pad, and SS-7 through SS-12 were located in the pasture southwest of the production battery pad. Figure 3 depicts the approximate release extent and the 2021 soil screening locations. Photographic documentation of the site and the soil screening activities is included in Appendix C.

## SUMMARY OF SOIL SCREENING RESULTS

Results from the March 2021 field soil screening event are presented in Table 1. Salinity concentrations measured in soils associated with three (3) production pad locations (SS-1 through SS-3) ranged from 800

parts per million (ppm) to 850 ppm. Salinity concentrations measured in soils associated with the remaining nine (9) production pad and pasture locations (SS-4 through SS-12) ranged from 100 ppm to 228 ppm. The field screening results from locations SS-4 through SS-12 indicate salinity concentrations which could be inferred as concentrations below the Site RRAL of 600 mg/kg. The field screening results in this area are likely attributed to undocumented remedial actions conducted in the off-pad portions of the former release footprint. Conversely, the salinity concentrations in SS-1 through SS-3 potentially indicate chloride concentrations slightly above the Site RRAL on the battery production pad.

However, the Site is located in an area with abundant potash reserves, and so naturally occurring soluble mineral salts such as sylvite (KCl) would lead to natural variations of chloride in the soils of the region. Given the age of the release and the naturally occurring mineral salts in soil concentrations at depth, there is no evidence that the elevated salinity concentrations on the active battery production pad are attributable to the 2RP-406 release.

## CONCLUSION

ConocoPhillips respectfully requests closure of this release based on the age of the occurrence, depth to groundwater, recent visual inspection, and soil screening data at the formerly impacted surface area. As mentioned, the James A Battery Line Release (2RP-406/ nMLB1011352696) is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely,

**Tetra Tech, Inc.**



Christian M. Llull, P.G.  
Project Manager



Greg W. Pope, P.G.  
Program Manager

cc:

Mr. Marvin Soriwei, RMR – ConocoPhillips  
Mr. Charles Beauvais, GPBU - ConocoPhillips

## **LIST OF ATTACHMENTS**

### **Figures:**

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent & Field Screening Locations

### **Tables:**

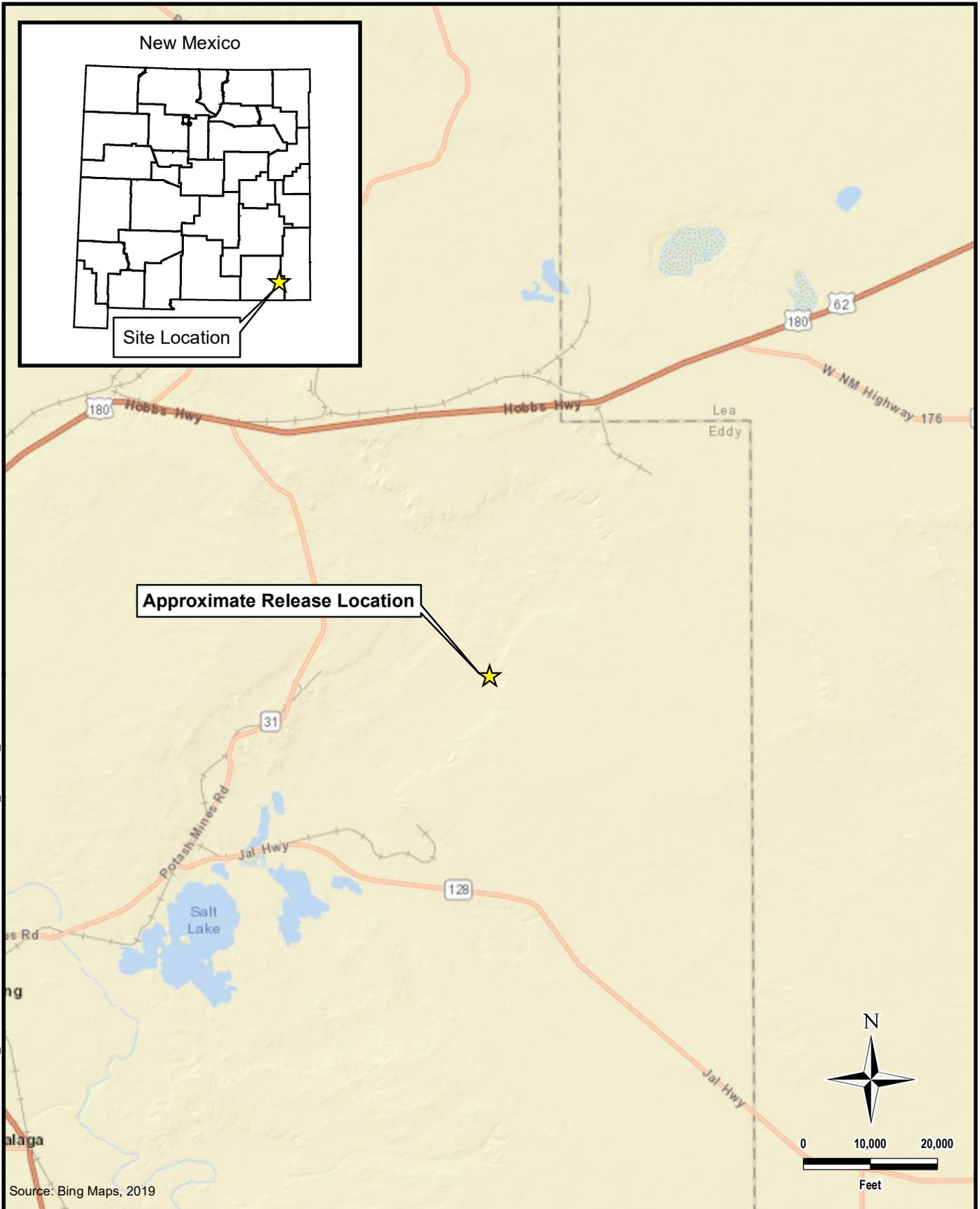
- Table 1 – Summary of Soil Screening Results

### **Appendices:**

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Photographic Documentation

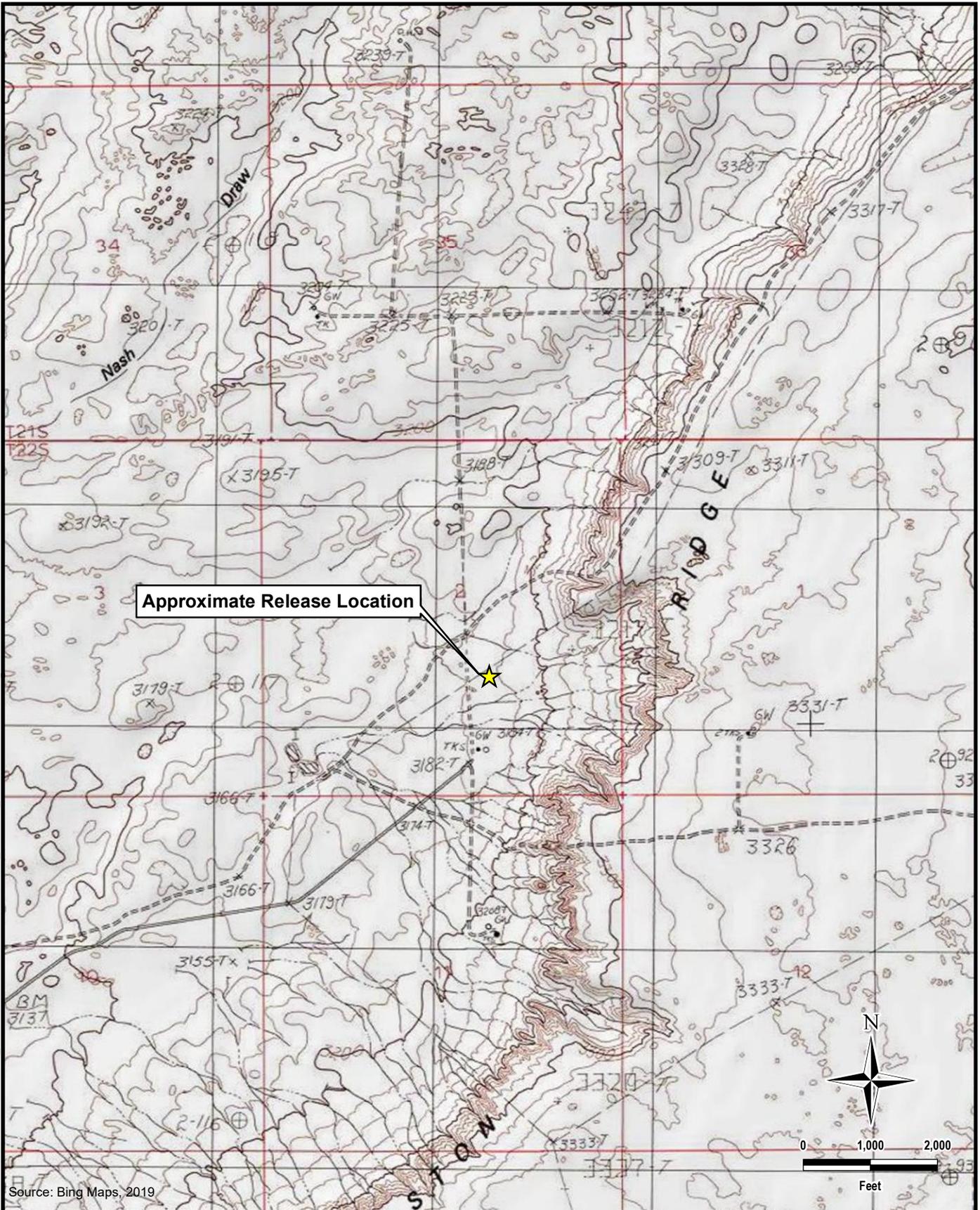
# FIGURES

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\2RP-406\_JAMES A BATTERY\FIGURE 1 OVERVIEW MAP\_JAMESA\_BATTERY.MXD



 <p><b>TETRA TECH</b></p> <p>www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>2RP-406 (32.418694°, -103.849278°) EDDY COUNTY, NEW MEXICO</p> <p><b>JAMES A BATTERY LINE RELEASE OVERVIEW MAP</b></p>	<p>PROJECT NO.: 212C-MD-02355</p> <p>DATE: MARCH 16, 2021</p> <p>DESIGNED BY: AAM</p>
	<p>Figure No.</p> <p><b>1</b></p>	
	<p>Source: Bing Maps, 2019</p>	

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\2RP-406\_JAMES A BATTERY\FIGURE 2 TOPO\_JAMESA\_BATTERY.MXD



Source: Bing Maps, 2019



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CONOCOPHILLIPS

2RP-406  
 (32.418694°, -103.849278°)  
 EDDY COUNTY, NEW MEXICO

**JAMES A BATTERY LINE RELEASE  
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02355

DATE: MARCH 16, 2021

DESIGNED BY: AAM

Figure No.

**2**

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\2RP-406\_JAMES A BATTERY\FIGURE 3 RELEASE\_JAMESA\_BATTERY.MXD



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CONOCOPHILLIPS

2RP-406  
(32.418694°, -103.849278°)  
EDDY COUNTY, NEW MEXICO

**JAMES A BATTERY LINE RELEASE  
APPROXIMATE RELEASE EXTENT & FIELD SCREENING LOCATIONS**

PROJECT NO.: 212C-MD-02355

DATE: MARCH 17, 2021

DESIGNED BY: AAM

Figure No.

**3**

# TABLES

TABLE 1  
SUMMARY OF SOIL SCREENING RESULTS  
2RP-406  
CONOCOPHILLIPS  
JAMES A BATTERY LINE RELEASE  
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results	Field Observations
			Chloride	
		ft. bgs	ppm	
SS-1	3/2/2021	0-1	820	No Staining, No Odor
SS-2	3/2/2021	0-1	850	No Staining, No Odor
SS-3	3/2/2021	0-1	800	No Staining, No Odor
SS-4	3/2/2021	0-1	155	No Staining, No Odor
SS-5	3/2/2021	0-1	145	No Staining, No Odor
SS-6	3/2/2021	0-1	125	No Staining, No Odor
SS-7	3/2/2021	0-1	200	No Staining, No Odor
SS-8	3/2/2021	0-1	228	No Staining, No Odor
SS-9	3/2/2021	0-1	100	No Staining, No Odor
SS-10	3/2/2021	0-1	125	No Staining, No Odor
SS-11	3/2/2021	0-1	155	No Staining, No Odor
SS-12	3/2/2021	0-1	135	No Staining, No Odor

**NOTES:**

ft. Feet  
bgs Below ground surface  
ppm Parts per million

**APPENDIX A**  
**C-141 Forms**

RECEIVED APR 23 2010

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

30-015-25699  
MLB1011352696

Release Notification and Corrective Action

OPERATOR  Initial Report  Final Report

Name of Company ConocoPhillips Company 217817	Contact Jesse A. Sosa
Address 3300 N. "A" St., Bldg. 6 #247 Midland, TX 79705-5	Telephone No. (505)391-3126
Facility Name James A Battery	Facility Type Oil

Surface Owner NMOCD	Mineral Owner BLM	Lease No. 3001525699
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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
J	02	22S	30E	1652	South	1980	East	Eddy

Latitude N32 25.112' Longitude W103 50.857'

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 12 BBL	Volume Recovered 0 BBL
Source of Release 3" steel line connection adapter	Date and Hour of Occurrence 4/22/10	Date and Hour of Discovery 4/22/10
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Jesse Sosa	Date and Hour 4/22/10 2:50 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.\*  
MSO located a 1" hole on a 3 inch metal male poly adapter in transition line. The release was due to internal corrosion. The MSO called in a vacuum truck, but the remaining produced water could not be picked up prior to soaking in. The line was isolated, and the metal component has been removed from service to prevent future corrosion issues. Total spill volume was 12 BPW with 0 bbls recovered fluid.

Describe Area Affected and Cleanup Action Taken.\*  
Affected was 741' x 3' of caliche pad and pasture land. Notifications were made to supervision upon discovery of the spill, and the area will be remediated in place. NMOCD was notified. Soil to be hauled off and replaced. Soil samples will be taken to verify clean up and sent to NMOCD (Mike Bratcher) for finalization.

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>Jesse A. Sosa</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jesse A. Sosa	Signed By <i>Mike Bratcher</i> Approved by District Supervisor	
Title: HSER Lead	Approval Date: APR 23 2010	Expiration Date:
E-mail Address: Jesse.A.Sosa@conocophillips.com	Conditions of Approval: REMEDIATION per OCD Rules and Guidelines. SUBMIT REMEDIATION PROPOSAL BY: <i>5/23/10</i>	Attached <input type="checkbox"/>
Date: 04/22/2010	Phone: (505)391-3126	

\* Attach Additional Sheets If Necessary

MLB1011353322

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<p><b><u>Characterization Report Checklist:</u> <i>Each of the following items must be included in the report.</i></b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li><input type="checkbox"/> Field data</li> <li><input type="checkbox"/> Data table of soil contaminant concentration data</li> <li><input type="checkbox"/> Depth to water determination</li> <li><input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li><input type="checkbox"/> Boring or excavation logs</li> <li><input type="checkbox"/> Photographs including date and GIS information</li> <li><input type="checkbox"/> Topographic/Aerial maps</li> <li><input type="checkbox"/> Laboratory data including chain of custody</li> </ul>
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If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	
District RP	
Facility ID	
Application ID	

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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature:  Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

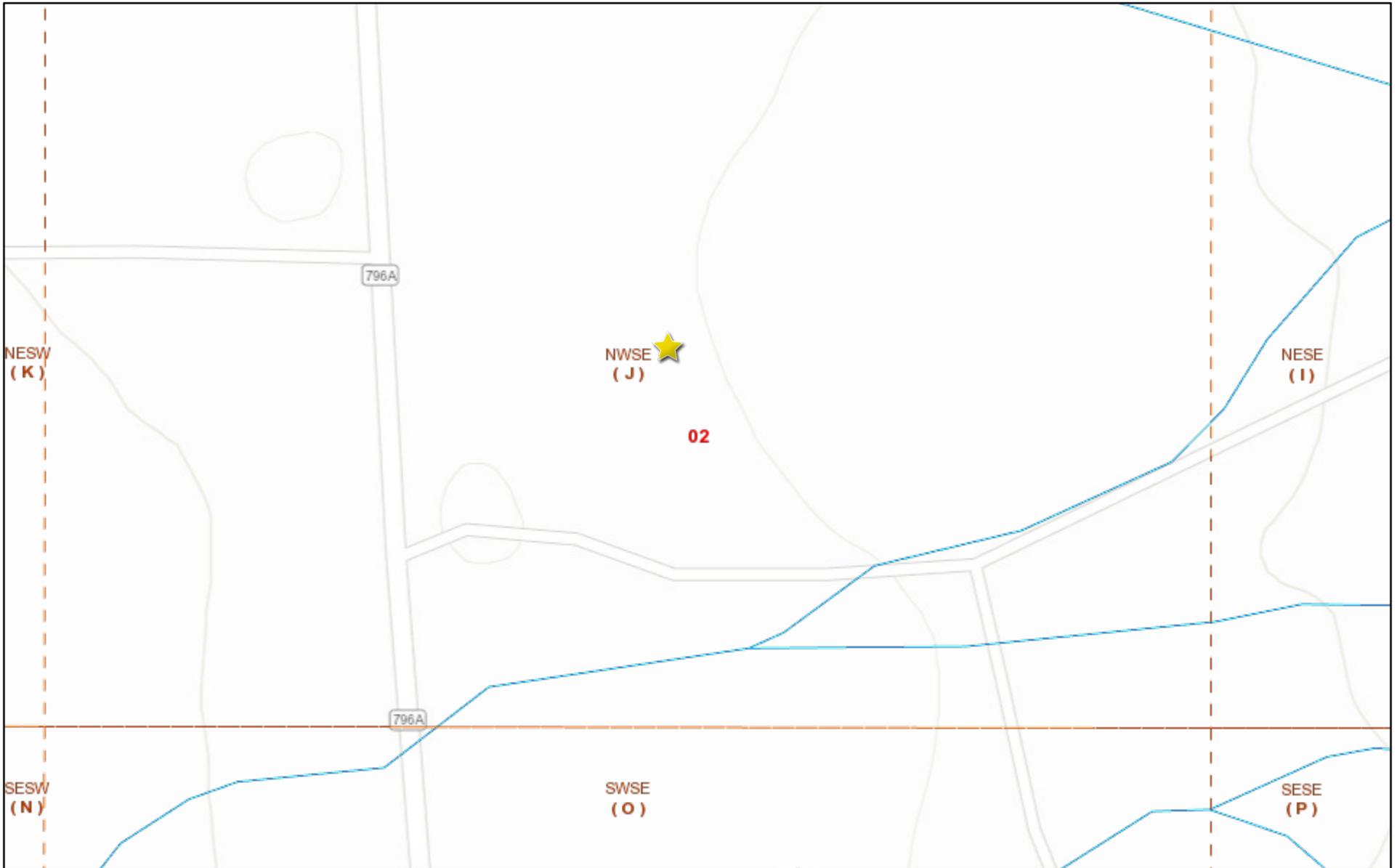
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

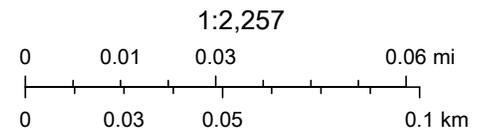
**APPENDIX B**  
**Site Characterization Data**

# 2RP-406 - Water Bodies



3/23/2021, 4:32:11 PM

-  Override 1
-  PLSS First Division
-  PLJV Probable Plays
-  OCD District Offices
-  PLSS Second Division
-  OSE Streams
-  OSE Water-bodies



OCD, Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE,

New Mexico Oil Conservation Division

# KARST POTENTIAL MAP

2RP-406

**Legend**

-  2RP-406
-  High
-  Low
-  Medium

W Carlsbad Hwy

2RP-406

Google Earth

© 2020 Google



9 mi



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 03234 EXPLORE</a>	CUB	ED		1	2	3	35	21S	30E	607695	3589207*	1849	410		
<a href="#">C 03003</a>	CUB	ED		3	1	3	31	21S	31E	610511	3588970*	2780	650		
<a href="#">C 02749</a>	CUB	ED		1	1	1	18	22S	31E	610556	3585146*	3280	640		
<a href="#">C 02750</a>	CUB	ED		1	1	1	18	22S	31E	610556	3585146*	3280	741		
<a href="#">C 02751</a>	CUB	ED		1	1	1	18	22S	31E	610556	3585146*	3280	637		
<a href="#">C 02723</a>	CUB	ED		2	2	3	15	22S	30E	606282	3584363*	3613	651		
<a href="#">C 03002</a>	CUB	ED		4	2	4	06	22S	31E	611933	3587375*	3735	668		
<a href="#">C 03773 POD1</a>	C	CUB	ED	4	2	2	32	21S	30E	604039	3589799	4788	55		
<a href="#">C 03774 POD1</a>	C	CUB	ED	2	4	2	32	21S	30E	604039	3589799	4788	32		
<a href="#">C 02950 EXPL</a>	CUB	ED		4	2	4	23	22S	30E	608740	3582576*	4881	845		
<a href="#">C 03772 POD1</a>	C	CUB	ED	2	4	2	32	21S	30E	603859	3589714	4904	30		
<a href="#">C 03772 POD2</a>	C	CUB	ED	4	2	2	32	21S	30E	603850	3589707	4910	30		
<a href="#">C 03772 POD3</a>	C	CUB	ED	4	2	2	32	21S	30E	603840	3589699	4914	30		
<a href="#">C 03772 POD5</a>	C	CUB	ED	4	2	2	32	21S	30E	603823	3589681	4922	30		
<a href="#">C 03772 POD6</a>	C	CUB	ED	4	2	2	32	21S	30E	603814	3589666	4923	30		
<a href="#">C 03772 POD8</a>	C	CUB	ED	4	2	2	32	21S	30E	603797	3589636	4924	30		
<a href="#">C 03772 POD7</a>	C	CUB	ED	4	2	2	32	21S	30E	603805	3589655	4925	30		
<a href="#">C 03772 POD4</a>	C	CUB	ED	4	2	2	32	21S	30E	603824	3589692	4925	30		
<a href="#">C 02637</a>	CUB	ED		1	3	3	24	22S	30E	608950	3582377*	5105	759		
<a href="#">C 02748</a>	CUB	ED		1	2	3	17	22S	31E	612576	3584364*	5343	3856		
<a href="#">C 03015</a>	CUB	ED		1	4	3	22	22S	30E	606099	3582353*	5491	1316	262	1054

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: **262 feet**

Minimum Depth: **262 feet**

Maximum Depth: **262 feet**

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**Record Count:** 21

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

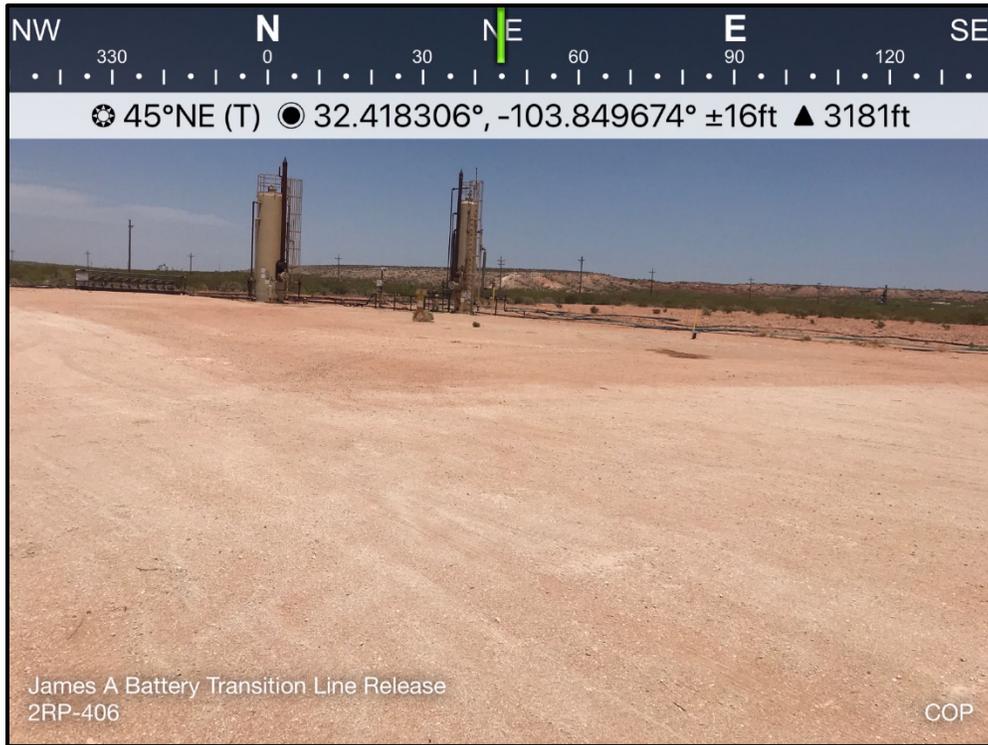
**Easting (X):** 608198

**Northing (Y):** 3587427

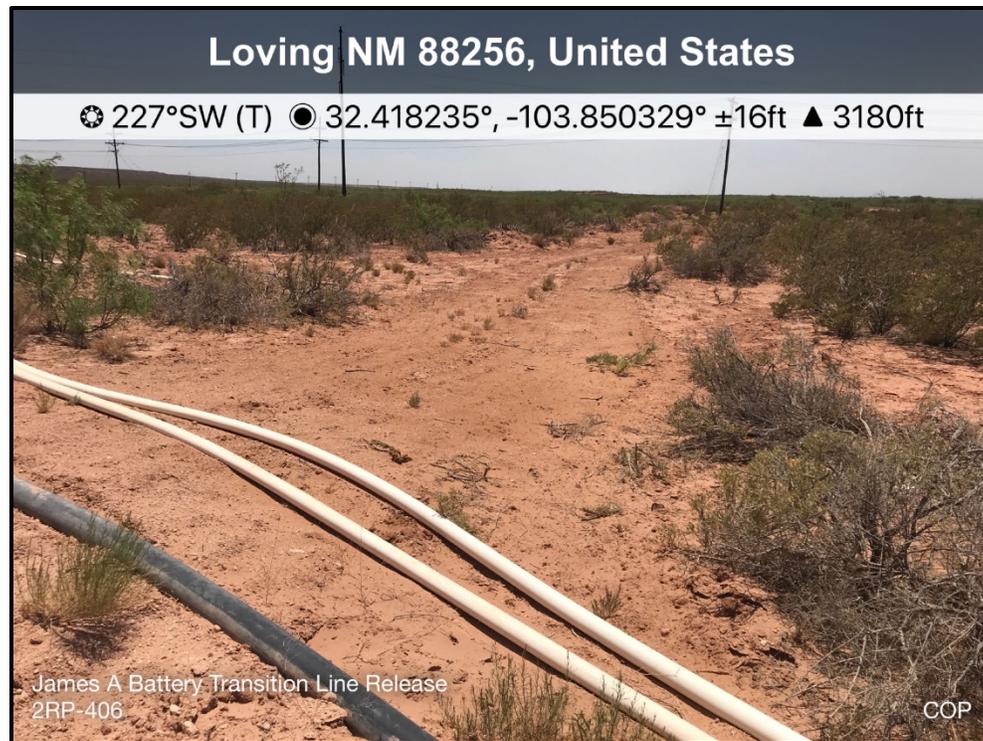
**Radius:** 5600

# **APPENDIX C**

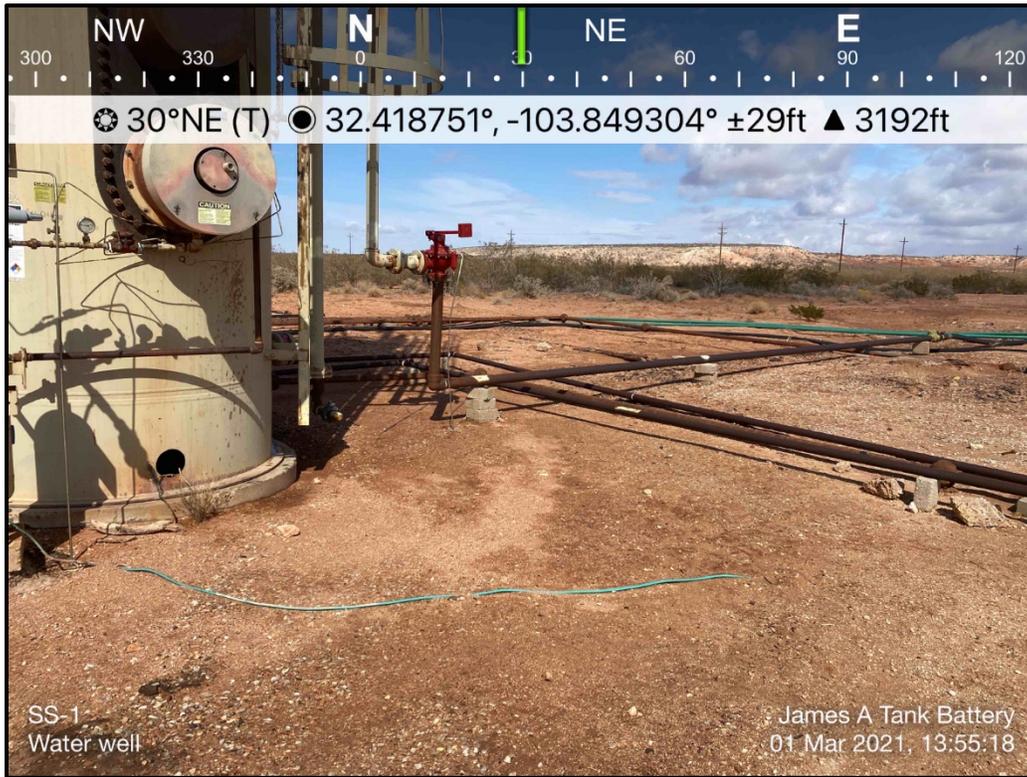
## **Photographic Documentation**



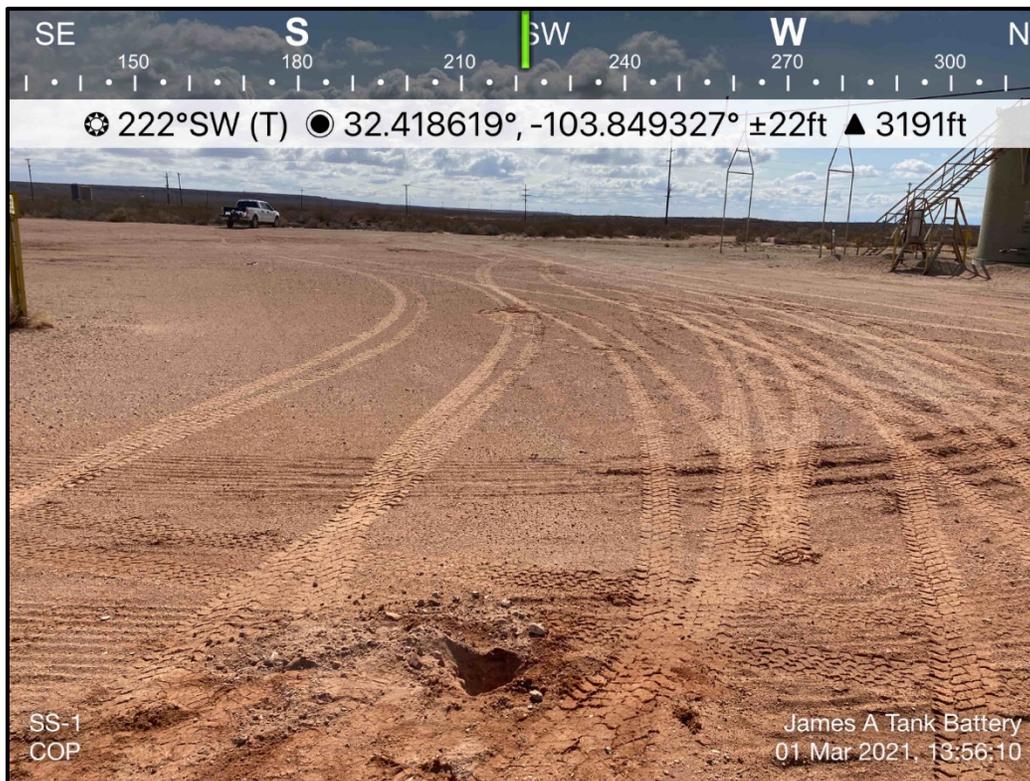
TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing northeast of former release area on production pad from visual Site inspection. Release Location: 32.418694°, -103.849278°	1
	SITE NAME	James A Battery Line Release	6/11/2020



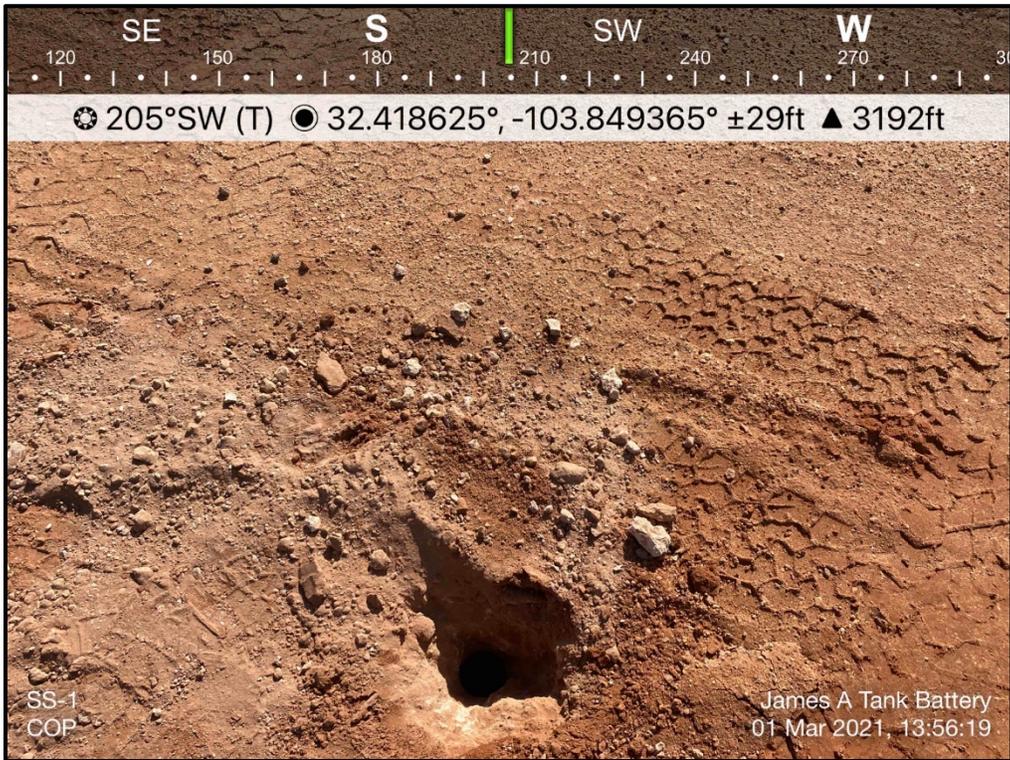
TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing southwest of flowlines in the former release area in the pasture. No stained or odorous soils observed during the visual Site inspection.	2
	SITE NAME	James A Battery Line Release	6/11/2020



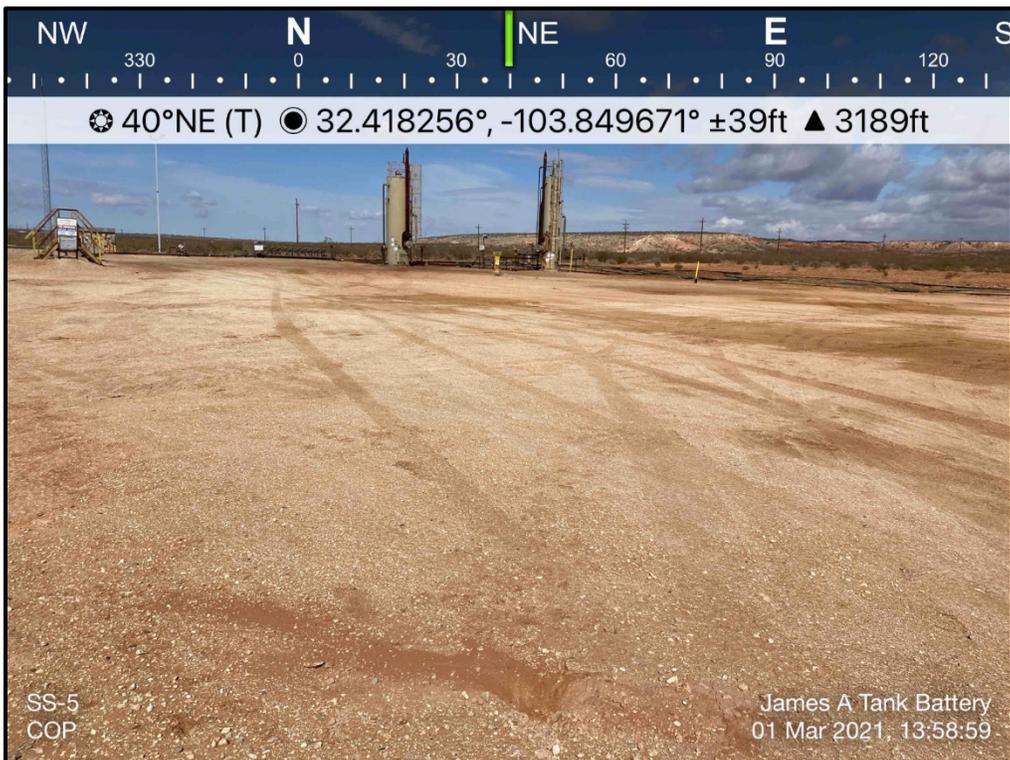
TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing NE of SS-1 soil screening location on production pad.	3
	SITE NAME	James A Battery Line Release	3/1/2021



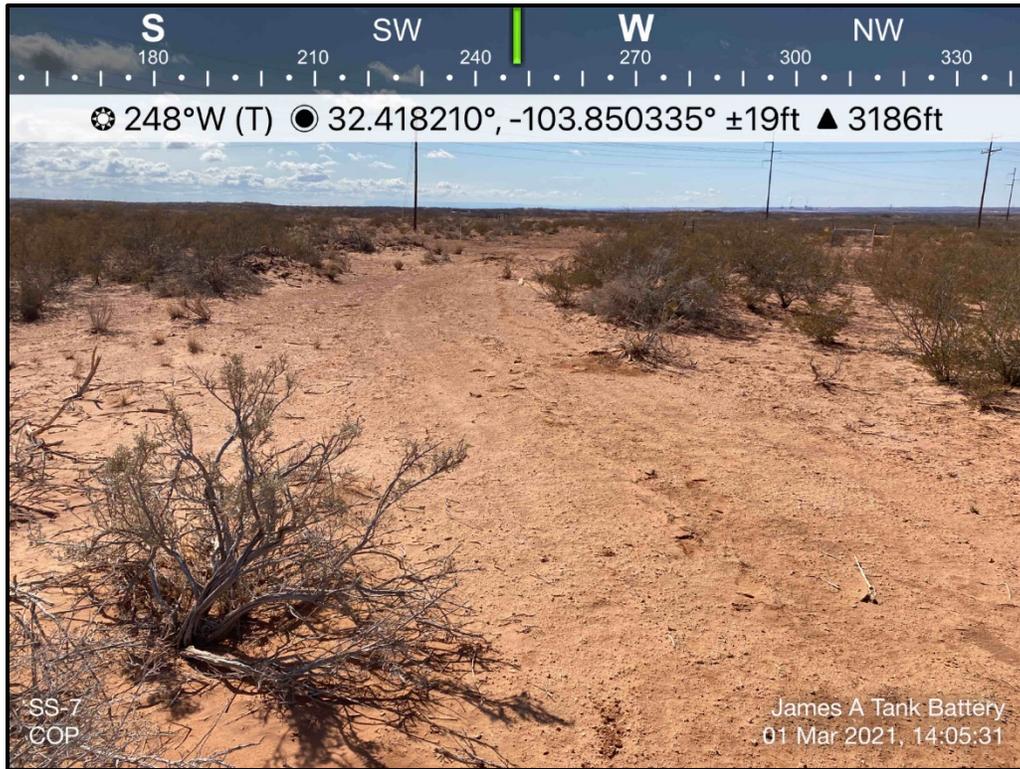
TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing SW from SS-1 soil screening location of production pad.	4
	SITE NAME	James A Battery Line Release	3/1/2021



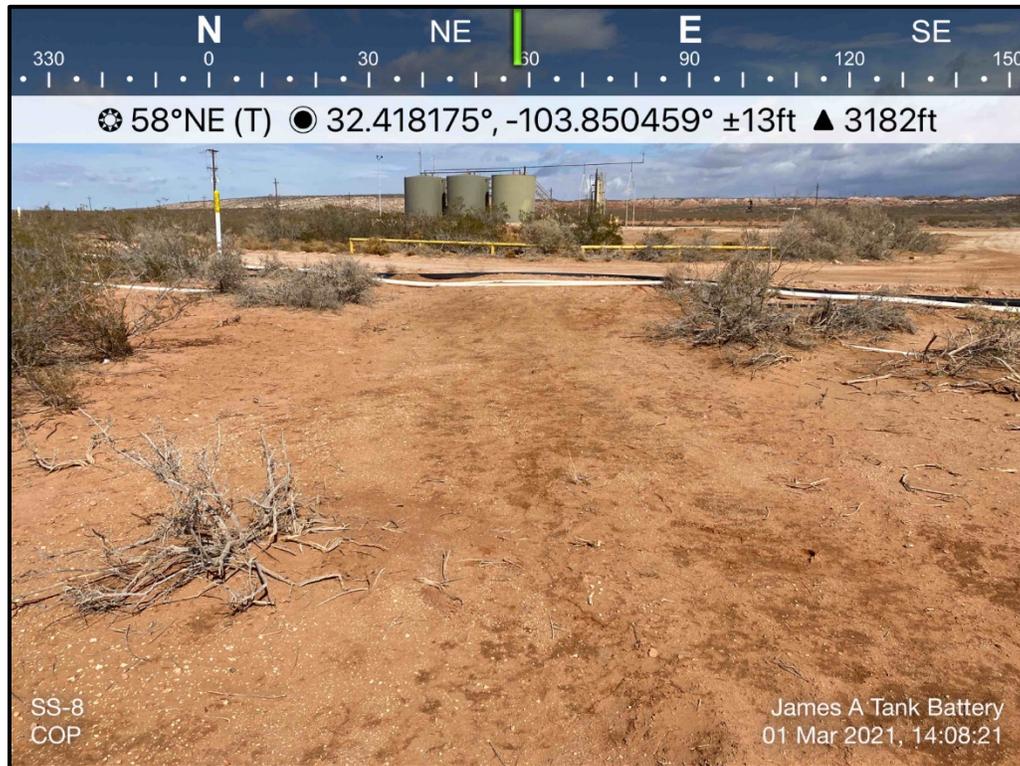
TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	Oblique view of SS-1 soil screening location.	5
	SITE NAME	James A Battery Line Release	3/1/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing NE of SS-5 soil screening location on production pad.	6
	SITE NAME	James A Battery Line Release	3/1/2021



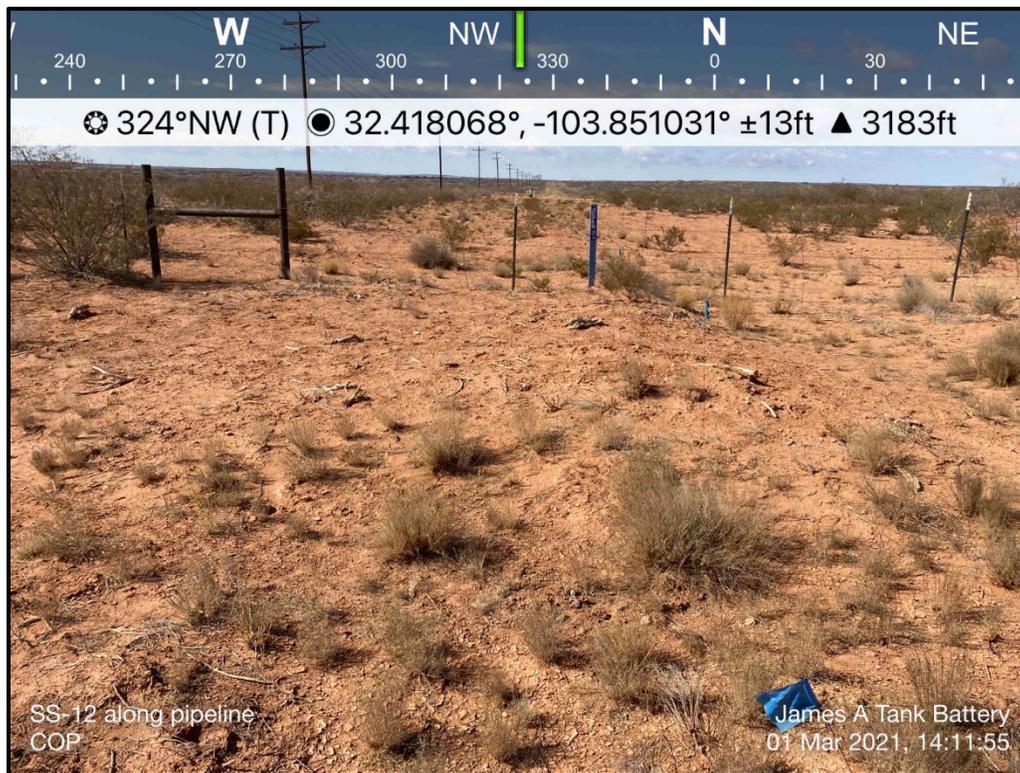
TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing SW of SS-7 soil screening location in pasture near SW of production pad.	7
	SITE NAME	James A Battery Line Release	3/1/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing NE of SS-8 soil screening location in pasture, note production pad in background.	8
	SITE NAME	James A Battery Line Release	3/1/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing SE of SS-12 soil screening location in pasture near SW of production pad.	9
	SITE NAME	James A Battery Line Release	3/1/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02355	DESCRIPTION	View facing NW of SS-12 soil screening location in pasture near SW of production pad.	10
	SITE NAME	James A Battery Line Release	3/1/2021