

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

Form C-141
Revised August 8, 2011

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

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: XTO Energy, Inc.	Contact: James McDaniel
Address: 500 W Illinois St, Suite 900, Midland Texas, 79701	Telephone No.: (505) 333-3701
Facility Name: EMSU #214	Facility Type: Flowline near EMSU #214 Wellsite (Oil Well)
Surface Owner: Private	Mineral Owner: State API No. 30-025-04507

LOCATION OF RELEASE

Unit Letter L11	Section 5	Township 21S	Range 36E	Feet from the 3300	North/South Line FNL	Feet from the 1380	East/West Line FWL	County Lea
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Latitude: N 32.513010 Longitude: W -103.291091

NATURE OF RELEASE

Type of Release: Oil and Water	Volume of Release: 43 bbls	Volume Recovered: 1 bbl
Source of Release: Flowline Leak	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: July 16 th , 1998 @ 2:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Unknown	
By Whom? Gary Wink	Date and Hour: July 16, 1998 - 4:00 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On July 16, 1998, a leak was discovered in a flowline near the EMSU #214 well location. Approximately 43 bbls of oil and water were released, with one (1) bbl recovered. The site was ranked a 0 according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. This set the closure standards to 10 ppm benzene, 50 ppm total BTEX and 5,000 ppm total petroleum hydrocarbons.

Describe Area Affected and Cleanup Action Taken.*

An initial Remediation Plan, Site Remediation Activities, and a Final Closure Report was completed by Safety and Environmental Solutions, Inc. All documentation is attached to this Final C-141 for reference. No further action is required regarding this incident.

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: 		OIL CONSERVATION DIVISION	
Printed Name: James McDaniel		Approved by Environmental Specialist:	
Title: EH&S Supervisor	Approval Date:	Expiration Date:	
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:		Attached ☐
Date: 12/11/2017	Phone: 505-333-3701		

* Attach Additional Sheets If Necessary

1RP-4168

INFORMATION ONLY



Google Earth

Imagery Date: 2/13/2014 Lat: 32.513177° Lon: -103.280042° elev: 3591 ft eye alt: 4714 ft



P.O. Box 1613
703 E. Clinton
Hobbs, New Mexico 88240
575/397-0510
FAX 575/393-4388
www.sesi-nm.com

Safety & Environmental Solutions, Inc.

November 30, 2017

Mr. James McDaniel
EH&S Supervisor
XTO Energy Inc.
382 Road 3100
Aztec, New Mexico 87410

Subject: Site Information, EMSU #214 – OCD #1R-4168, Chevron USA 214 Leak Site,
Request for Closure.

Dear Mr. McDaniel

This letter provides you with available site information for the above referenced project and a request for submittal to NMOCD for closure. A crude oil/produced water release occurred on July 16 1998 when EMSU well #214 still belonged to Chevron USA. Subsequent to that date the well was acquired by XTO. A site remediation/cleanup work plan from SESI was submitted to OCD in July 1998 that outlined excavation of impacted soils, blending on-site, sampling, and returning the blended soils back into the ground. The reported location of the release was in the SE/4 NW/4, Section 5, T21S, R36E in Lea County, New Mexico.

Release Information:

Available details of the release are as follows:

Information on the C-141 reported that 43 barrels of oil and produced water were released with one barrel recovered. The leak occurred in a 2-inch fiberglass flowline and resulted in crude oil being discharged up to six feet underground and spreading over a surface area approximately 75 feet in length and 4 feet wide and pooling into an area 70 feet by 20 feet. The vertical and horizontal extent of the contamination was determined by excavation prior to cleanup using a backhoe.

Location Information:

Because the spill occurred almost twenty years ago, the exact location was not known given the state TRS were the only coordinates available. XTO provided the location of the #214 production well which is within the DCP Midstream facility (Figure 1). However based on the #214 Leak Site Plan and photographs accompanying the July 1998 work plan, the release occurred outside the boundaries of that facility. Further examination of the photographs and a site visit on November 17, 2017 confirmed the location of the release with GPS coordinates of 32.513010 N, -103.291091 W. Based on the information provided in the C-141, the site plan and 1998 work plan narrative, the approximate release footprint was recreated.

File Information:

A search of SESI archived files found a copy of the remediation/cleanup work plan on a CD disc (SESI did not have centralized computer files at that time). No paper or CD copies of the analytical results of soil sampling were located, and there was no file copy showing that a report of the work performed was submitted to Chevron or to the OCD. However, a copy of an invoice

to Chevron USA was located in the file. The invoice shows billing of a SESI Environmental Technician and a contract backhoe with operator on three dates in mid to late August 1998 beginning on August 17. This information indicates that the excavated impacted soils were blended with clean material on site during those dates before being backfilled into the excavation as stated in the work plan.

Groundwater Information:

In addition to release information, the work plan stated a water well greater than one mile distant reported depth to water at 119.36 feet. To verify and update this information, water well records on file with the New Mexico State Engineer Office and the US Geological Survey were researched. This information is shown on Figure 2. The original well referenced in the work plan is located at Oil Center a distance of 1.9 miles from the release site (NE/4 NE/4 Section 9, T21S, R36E). The depth to water was measured on March 18, 1968 which is the only measurement for that well. A second well at the same location had a depth to water of 118.76 feet on the same date. The most recent published depth to water measurement for the second well is 200.43 feet recorded in February 1996.

A closer shallow well located in Section 31 (SE/4 SE/4 Section 31, T20S, R37E; GPS 32.524425 N, -103.283230 W) is 0.9 miles from the release site. Depth to water was measured at 123.53 feet on January 25, 1991. This is the only published measurement for this well.

A deep well was drilled in September 1985 in the southeast quarter of Section 5 (NW/4 SE/4 SE/4 Section 5, T21S, R36E) but its GPS location was not provided. The driller is listed as Chevron USA. The depth of the well is reported as 5,000 feet with a depth to water of 1,128 feet.

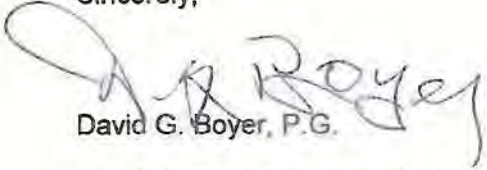
Closure Request

Site photographs taken on November 17 show no current evidence of a release. Depth to water information in excess of 100 feet indicates that any residual impact from the release to groundwater was very unlikely. Though there are no sampling results available, a review of the invoice to Chevron shows that the blending and backfilling according to the work plan was performed.

Therefore, based on available information today, we believe that remediation was accomplished and we are requesting site closure from the NMOCD.

If you have any questions, please contact me at (575) 397-0510 or (575) 390-7067.

Sincerely,



David G. Boyer, P.G.

Cc. Bob Allen, President, SESI

Attachments:

- Site Photographs
- SESI Remediation/Cleanup Work Plan, July 27, 1998
- C-141
- Chevron Invoice #3126, 8/28/98
- Google Earth Figures

XTO (Chevron) #214 Release Site Photos
July 1998 – November 2017



Chevron #214 Leak Site – Facing West*, July 1998



Chevron #214 Leak Site – Facing West, November 2017

* Photograph directions corrected from those shown in July 1998 work plan



Chevron #214 Leak Site – Facing Northeast, July 1998



Chevron #214 Leak Site – Facing Northeast, November 2017



Chevron #214 Leak Site – Facing Northwest, July 1998



Chevron #214 Leak Site – Facing Northwest, November 2017



Chevron #214 Leak Site – Facing North, July 1998



Chevron #214 Leak Site – Facing North, November 2017



Chevron #214 Leak Site – Facing North, November 2017



Chevron #214 Leak Site – Facing west, November 2017



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1603948805

1RP - 4168

XTO ENERGY, INC

2/8/2016

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-141
Originated 2/13/97

Submit 2 copies to
Appropriate District
Office in accordance
with Rule 116 on
back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name Chevron LISA	Contact DWAYNE DUNCAN	
Address 2401 AVE. O EUNICE NM 88231	Telephone No. 394-1242	
Facility Name Eunice Monument South Unit	Facility Type Well # 214 30-025-04507	
Surface Owner GPM	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter K	Section 5	Township 21S	Range 36E	Feet from the 3300	North/South Line 1380	East/West Line 1380	County LEA
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NATURE OF RELEASE

Type of Release Oil & Prod. Water	Volume of Release 43	Volume Recovered 1
Source of Release Flowline Leak	Date and Hour of Occurrence 7-16-98 2:00pm	Date and Hour of Discovery 7-16-98 2:00pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Greg Wink	
By Whom? Greg Wink	Date and Hour 7-16-98 4:00 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully: (Attach Additional Sheets If Necessary) **N/A**

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary)

**2" fiberglass flowline split from debris pressing against line. Repair line.
Boremed. at on site - see attached plan.**

Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If Necessary)

**70' x 12' area result of crude oil & produced water discharged 6' underground from
flowline. - see attached plan.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability for contamination that pose a threat to ground water, surface water, human health or the environment. operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: M. D. Duncan	APPROVED	
Printed Name: M. D. DUNCAN		
Title: Production-Operation Supervisor		
Date: 7/28/98 Phone: 505-394-1242		
Approved: 2/8/16	Conditions of Approval:	Attached ☐

REP-41105 **fw**



**Chevron USA
Lea County, New Mexico
214 Leak Site**

Remediation/Cleanup Work Plan

*Safety & Environmental Solutions, Inc.
703 E. Clinton Suite 103
Hobbs, New Mexico 88240
(505) 397-0510*

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I. Purpose

The purpose of this work plan is to propose a plan for the cleanup of the pipeline leak, which occurred, located at approximately SE/4 NW/4, Section 5, T21S, R36E in Lea County, New Mexico. The elevation is approximately 3579 feet above sea level. The leak site is situated on a relatively level site. (Vicinity Map) El Paso Natural Gas/GPM owns the land.

II. Background

A pipeline leak occurred resulting in the discharge of a small amount of oil onto the ground. After the recovery of the crude oil, the most highly contaminated soils were excavated. No evidence of prior leaks was observed on the surface.

III. Contaminant and Size of Leak

The leak in the pipeline resulted in crude oil being discharged up to six feet underground and spreading over a surface area approximately 75 feet in length and 4 feet wide in the stream pooling into an area 70 feet by 20 feet. (Site Plan) Chevron USA has received notification from the Oil Conservation Division that the crude oil in this pipeline does not have to be subjected to the Toxic Leaching Characteristic Procedure (TCLP) for toxicity. No evidence of other contaminants was observed.

IV. Vertical and Horizontal Extent of Contamination

The vertical and horizontal extent of the contamination was determined by excavation prior to cleanup using backhoe. During remediation, all samples will be collected with strict adherence to the SOPs found in **Environmental Protection Agency, 1984, Characterization of Hazardous Waste Site - A Methods Manual: Vol II**. These samples will be representative of the contamination levels and will be analyzed for the Total Petroleum Hydrocarbon, Benzene, Toluene, Ethylbenzene and Xylene content. The results will be compared to the contaminate levels specified in **"Guidelines for Remediation of Leaks, Spills and Releases" New Mexico Oil Conservation Division - August 13, 1993**.

V. Surface Water and Waterways

The distance to the nearest surface water or waterway is in excess of 1 mile.

VI. Groundwater

The nearest water wells on record with the New Mexico State Engineer and the United States Geological Survey in Albuquerque are in excess of 1 mile away. The water level at the nearest well is at 119.36' static water level.

VII. Soil Information

The soils of the area are of the Berino-Cacique loamy fine sands association. These soils are well-drained hummocky soils and gently sloping, sandy soils that are deep to moderately deep with indurated caliche.

VIII. Action Plan

Site Characterization

Distance to Surface Water/Waterways	0 points
Distance to Well Head or Water Source	0 points
Depth to Ground Water	0 points *

*Assuming the vertical extent is no greater than 19.36 feet.

Applying the ranking criteria specified in "**Guidelines for Remediation of Leaks, Spills and Releases**" *New Mexico Oil Conservation Division* - August 13, 1993 to this site results in a cleanup level of 5000 ppm TPH.

Closure

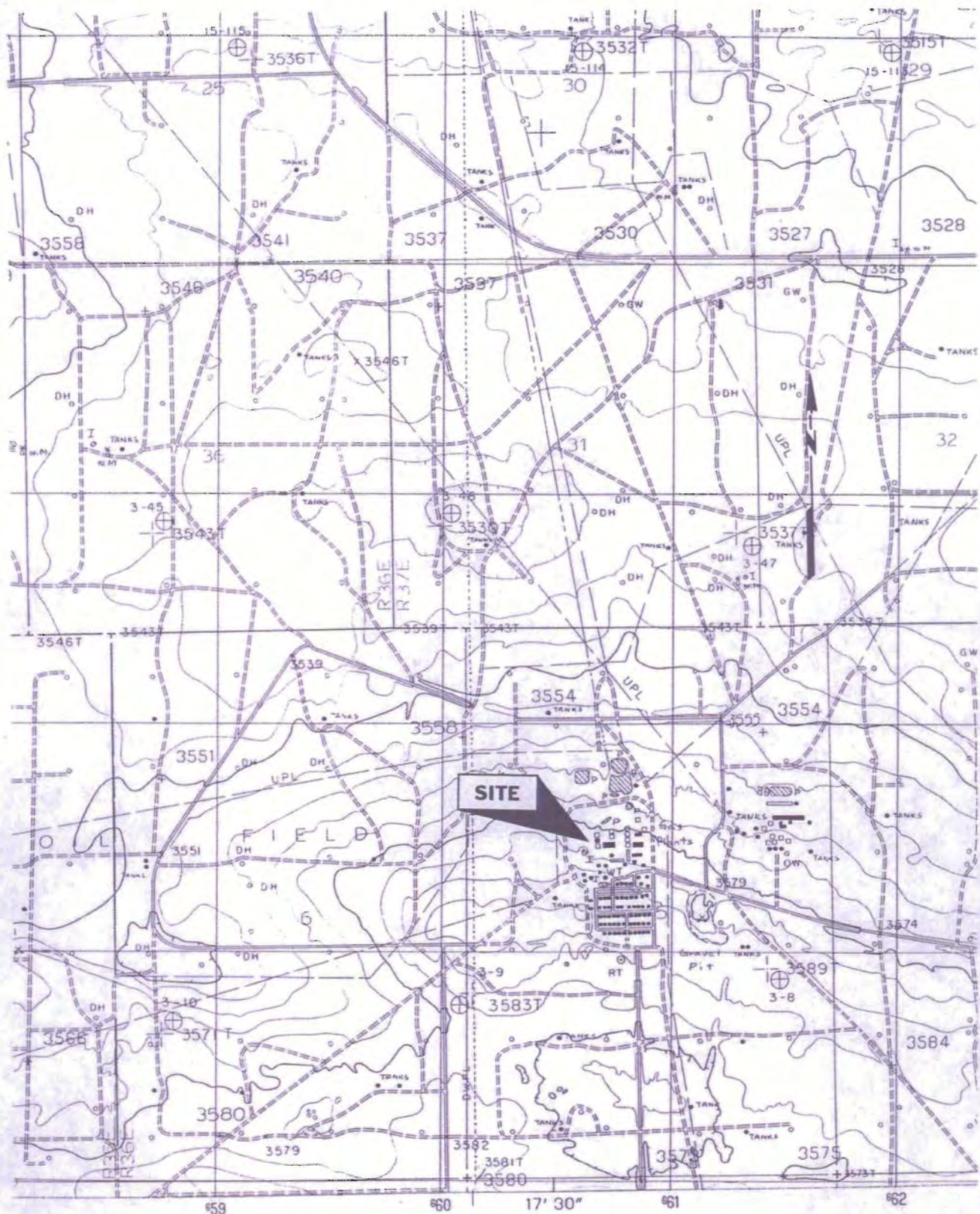
The leak site will be excavated both horizontally and vertically for the removal of contaminated soils. Field-testing will be conducted to ensure the removal of said soils to below the NMOCD requirements for TPH levels. The bottom and side of the hole will be sampled at the final excavation depths. The samples will be tested for BTEX, TPH and Chlorides with a third laboratory for confirmation of the contamination levels present. Upon receipt of these test results, the appropriate reports will be filed with the NMOCD in the closure report.

Once the results of the test samples from the final excavation are received and confirmation of the excavated area soils' results is obtained, the spoils pile will then be blended with the affected soils onsite as well as clean soils. The blended soils will be field tested to ascertain that the appropriate TPH, BTEX and Chloride levels are attained. The final field sample will also be sent to a third party laboratory for confirmation of the field test results.

The blended soils will be backfilled into the excavation and the surface returned to its natural contour.

IX. Maps and Figures

Vicinity Map
Site Plan
Photographs



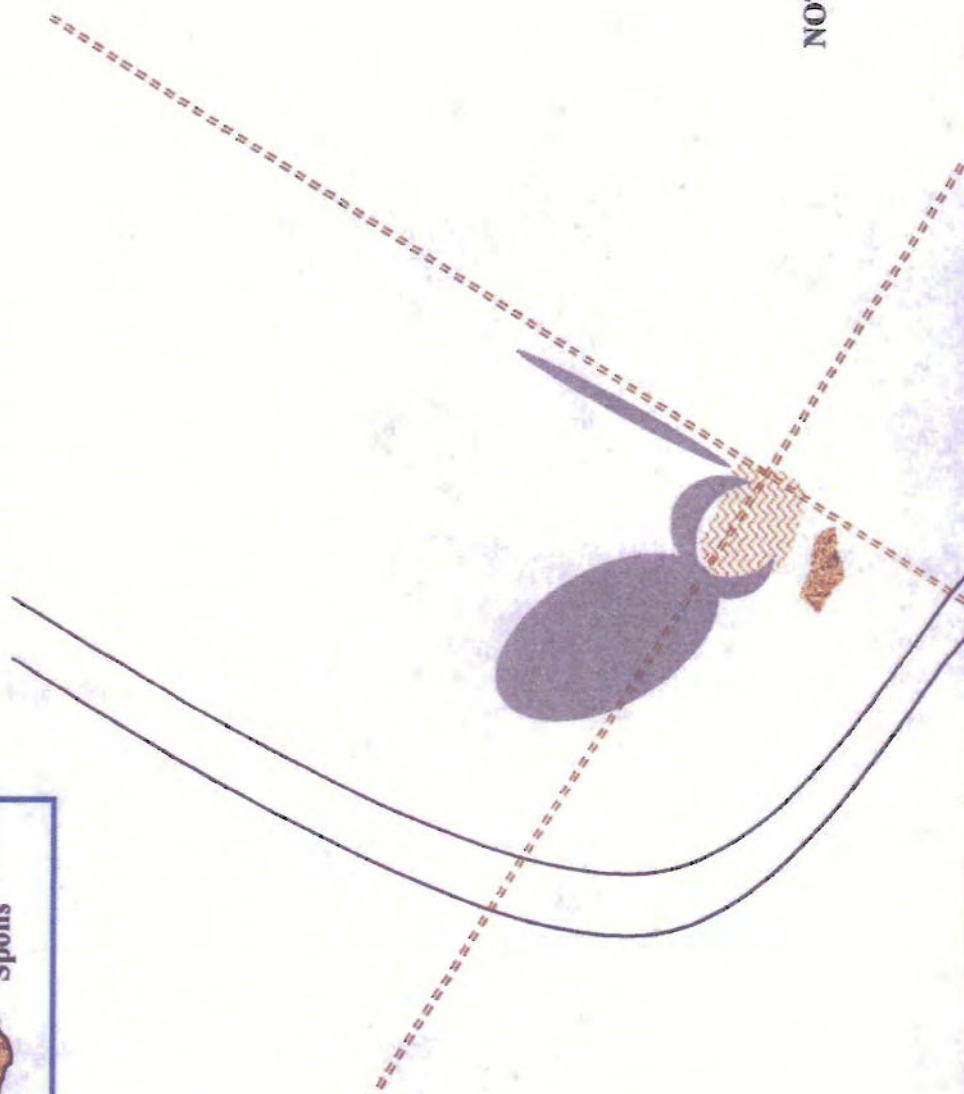
*Chevron USA
Production*

**#214 Leak Site
Vicinity Map**

*Safety & Environmental
Solutions, Inc.
Hobbs, NM*



Pipeline
Excavation
Spoils



NOT TO SCALE

#214 Leak Site Plan

*Chevron USA
Production*

Safety & Environmental Solutions, Inc.
Hobbs, New Mexico



Chevron #214 Leak Site - Excavated Leak Area



Chevron #214 Leak Site - Facing Northwest



Chevron #214 Leak Site - Facing South



Chevron #214 Leak Site - Facing Southwest



Chevron #214 Leak Site - Spill Area



Chevron #214 Leak Site - Facing Southwest