

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

Form C-144  
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.  
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

- Type of action: ☐ Below grade tank registration  
☐ Permit of a pit or proposed alternative method  
☒ Closure of a pit, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit/or registration  
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

**Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request**

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.  
Operator: Four Stars Oil & Gas Company OGRID #: 131994  
Address: 332 Road 3100, Aztec, NM 87410  
Facility or well name: Navajo I 1 #3  
API Number: 30-045-22033 OCD Permit Number: JUN 19 2014  
U/L or Qtr/Qtr 1 Section 1 Township 25N Range 11W County: San Juan  
Center of Proposed Design: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: ☐ 1927 ☐ 1983  
Surface Owner: ☐ Federal ☐ State ☐ Private ☒ Tribal Trust or Indian Allotment

2.  
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC  
Temporary: ☐ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no  
☐ Lined ☐ Unlined Liner type: Thickness \_\_\_\_\_ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☐ String-Reinforced  
Liner Seams: ☐ Welded ☐ Factory ☐ Other \_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L \_\_\_\_\_ x W \_\_\_\_\_ x D \_\_\_\_\_

3.  
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: 45 bbl Type of fluid: Produced Water  
Tank Construction material: Galvanized Steel  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☒ Visible sidewalls only ☐ Other \_\_\_\_\_  
Liner type: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

4.  
☐ **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.  
**Fencing:** Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet  
☐ Alternate. Please specify \_\_\_\_\_

6.  
**Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☐ Screen ☐ Netting ☐ Other \_\_\_\_\_  
☐ Monthly inspections (If netting or screening is not physically feasible)

7.  
**Signs:** Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  
☐ Signed in compliance with 19.15.16.8 NMAC

8.  
**Variances and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

*Please check a box if one or more of the following is requested, if not leave blank:*

- ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  
☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.  
**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

*Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*

### General siting

#### Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

#### Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)**

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area. **(Does not apply to below grade tanks)**

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain. **(Does not apply to below grade tanks)**

- FEMA map

☐ Yes ☐ No

### Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

### Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

<p>Within 100 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b><u>Temporary Pit Non-low chloride drilling fluid</u></b>	
<p>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</p> <ul style="list-style-type: none"> <li>- Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> <li>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;</p> <ul style="list-style-type: none"> <li>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b><u>Permanent Pit or Multi-Well Fluid Management Pit</u></b>	
<p>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</p> <ul style="list-style-type: none"> <li>- Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> <li>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</p> <ul style="list-style-type: none"> <li>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No

10.

**Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC

*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design)    API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11.

**Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC

*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design)    API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12.

**Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
☐ Climatological Factors Assessment  
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Quality Control/Quality Assurance Construction and Installation Plan  
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan  
☐ Emergency Response Plan  
☐ Oil Field Waste Stream Characterization  
☐ Monitoring and Inspection Plan  
☐ Erosion Control Plan  
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.

**Proposed Closure:** 19.15.17.13 NMAC

**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Multi-well Fluid Management Pit  
☐ Alternative

Proposed Closure Method: ☒ Waste Excavation and Removal  
☐ Waste Removal (Closed-loop systems only)  
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)  
     ☐ In-place Burial ☐ On-site Trench Burial  
☐ Alternative Closure Method

14.

**Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC  
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

**Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

16.  
**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

<input type="checkbox"/> Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
<input type="checkbox"/> Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
<input type="checkbox"/> Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
<input type="checkbox"/> Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
<input type="checkbox"/> Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/> Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/> Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/> Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
<input type="checkbox"/> Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
<input type="checkbox"/> Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
<input type="checkbox"/> Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.  
**Operator Application Certification:**  
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

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

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

18.  
**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: *[Signature]* Approval Date: 08/04/14

Title: Environmental Engineer OCD Permit Number: *[Signature]*

19.  
**Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC  
*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☒ Closure Completion Date: May 12, 2014

20.  
**Closure Method:**  
☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain.

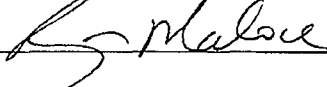
21.  
**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

<input checked="" type="checkbox"/> Proof of Closure Notice (surface owner and division) See Attached NMOCD and BLM Notifications
<input type="checkbox"/> Proof of Deed Notice (required for on-site closure for private land only) Not Required
<input type="checkbox"/> Plot Plan (for on-site closures and temporary pits) Not Required
<input checked="" type="checkbox"/> Confirmation Sampling Analytical Results (if applicable) See Attached
<input type="checkbox"/> Waste Material Sampling Analytical Results (required for on-site closure) Not Required
<input checked="" type="checkbox"/> Disposal Facility Name and Permit Number - Envirotech's Landfarm #2, Permit #: NM-01-001
<input checked="" type="checkbox"/> Soil Backfilling and Cover Installation See Attached Site Photography
<input checked="" type="checkbox"/> Re-vegetation Application Rates and Seeding Technique Completion Upon Site Closure - Area Still in Use
<input checked="" type="checkbox"/> Site Reclamation (Photo Documentation) See Attached Site Photography

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: ☐ 1927 ☐ 1983

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Mr. Ryan MaloneTitle: Facilities Engineer (FTS)Signature: Date: 06/18/2014e-mail address: rmalone@chevron.comTelephone: 505-333-1953

**Chevron  
San Juan Basin  
Below Grade Tank Closure Plan  
Closure Plan Compliance Documentation (Navajo I 1 #3 BGT #1)**

INTRODUCTION

In accordance with NMAC §§ 19.15.17.9(B)(4) and 19.15.17.13, Chevron (representing Chevron USA Inc, Chevron Midcontinent, L.P., and Four Star Oil & Gas Company) submits this Closure Plan for below grade tanks (BGTs) in New Mexico. This Closure Plan contains standard conditions that attach to multiple BGTs. If needed for a particular BGT, a modified Closure Plan for a proposed alternative closure will be submitted to the New Mexico Oil Conservation Division (NMOCD or the division) for approval prior to closure.

CLOSURE PLAN PROCEDURES AND PROTOCOLS (NMAC §§ 19.15.17.9(C) and 19.15.17.13).

- 1) Chevron, or a contractor acting on behalf of Chevron, will close a BGT within the time periods provided in NMAC § 19.15.17.13(A), or by an earlier date required by NMOCD to prevent an imminent danger to fresh water, public health, or the environment. NMAC §19.15.17.13(A).
- 2) Chevron, or a contractor acting on behalf of Chevron, will close an existing BGT that does not meet the requirements of NMAC § 19.15.17.11(I)(1 through 4) or is not included in NMAC §19.15.17.11(1)(5) within five years after June 16, 2008, if not retrofitted to comply with §19.15.17.11(1)(1 through 4). NMAC § 19.15.17.13(A)(4).
- 3) Chevron shall close an existing below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not retrofitted to comply with Paragraphs 1) through (4) of Subsection I of 19.15.17.11 NMAC, prior to any sale or change of operator pursuant to 19.15.9.9 NMAC.
- 4) Chevron, or a contractor acting on behalf of Chevron, will close a permitted BGT within 60 days of cessation of the BGT's operation or as required by the transitional provisions of NMAC §19.15.17.17(B) in accordance with a closure plan that the appropriate division district office approves. NMAC §§ 19.15.17.13(A)(9) and 19.15.17.9(C).
- 5) In accordance with NMAC § 19.15.17.130)(1), Chevron will notify the surface owner by certified mail, return receipt requested, of its plans to close a BGT prior to beginning closure activities. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance.

- a) A Sundry Notice was sent via certified mail to the Federal Indian Minerals Office in Farmington New Mexico on April 8, 2014. Please see attached documentation.

Chevron will also notify the appropriate division district office verbally or by other means at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include the operator's name and the location to be closed by unit letter, section, township and range. If the closure is associated with a particular well, then the notice shall also include the well's name, number and API number. NMAC § 19.15.17.13(J)(2).

- a. Please find attached the written notification to the district office sent on April 8, 2014.

6) Chevron, or a contractor acting on behalf of Chevron, will remove liquids and sludge from a BGT prior to implementing a closure method and will dispose of the liquids and sludge in a division approved facility. NMAC § 19.15.17.13(E)(1). A list of Chevron currently approved disposal facilities is included at the end of this document.

- a. All liquids and sludge material were removed from the BGT by M&R Trucking on April 17, 2014, and transported to Envirotech's NMOCD permitted Landfarm #2; see attached Bill of Lading (Manifest #46524).

7) The proposed method of closure for this Closure Plan is waste excavation and removal. NMAC §§ 19.15.17.13 (E)(1).

- a. Waste excavation and removal was conducted as per the closure plan.

8) Chevron, or a contractor acting on behalf of Chevron, shall remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. When required, prior approval for disposal will be obtained. NMAC § 19.15.17.13(E)(2). Documentation regarding disposal of the BGT and its associated liner, if any, will be included in the closure report.

9) Waste generated during closure will be handled and disposed of in accordance with applicable laws. NMAC § 19.15.35.8(C)(1)(m) provides that plastic pit liners may be disposed at a solid waste facility without testing before disposal, provided they are cleaned well.

- b. All waste material was removed from the BGT by M&R Trucking on April 17, 2014, and excavated material was removed by EMS on May 7, 2014. All waste material was transported to Envirotech's NMOCD permitted Landfarm #2; see attached Bill of Ladings.

10) Chevron, or a contractor acting on behalf of Chevron, will remove on-site equipment associated with a BGT unless the equipment is required for some other purpose. NMAC § 19.15.17.13(E)(3).

- a. Chevron has removed the BGT and associated equipment that will not be reused onsite; see attached Site Photography.

11) Chevron, or a contractor acting on behalf of Chevron, will test the soils beneath the BGT to determine whether a release has occurred. At a minimum, 5 point composite samples will be collected along with individual grab samples from any area that is wet, discolored, or showing other evidence of a release. Samples will be analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250mg/kg; or the background concentration, whichever is greater. Chevron, or a contractor acting on behalf of Chevron, will notify the NMOCD Division District office of its results on form C-141. NMAC § 19.15.17.13(E)(4).

- a. Analytical results can be found in the table below. The soil sample was above the approved closure standard for TPH and Total Chlorides. A form C-141 is attached.

Sample ID	Date	TPH (418.1)	TPH (8015)	Benzene	BTEX	Total Chlorides
Approved BGT Closure Standards		100 mg/Kg	100 mg/Kg	0.2 mg/Kg	50 mg/Kg	250 mg/Kg
BGT #1 Pit Bottom	4/22/14	<b>1,616 mg/Kg</b>	<b>412 mg/Kg</b>	<0.05 mg/Kg	<0.05 mg/Kg	<b>778 mg/Kg</b>

\*Sample BGT #1 Pit Bottom = 5pt Composite

\*Results in Bold above Approved Closure Standard

12) If Chevron or the division determines that a release has occurred, Chevron will comply with NMAC §§ 19.15.29 and 19.15.30, as appropriate. NMAC § 19.15.17.13(E)(5).

- (a) Approximately 51 barrels of contaminated soil was removed from the release area. All contaminated soil was transported to Envirotech's NMOCD Permitted Soil Remediation Facility, Landfarm #2. Final soil samples were collected from the excavated area; please see table below for results:

Sample ID	Date	TPH (8015)	Benzene	BTEX	Total Chlorides
NMOCD Spill Closure Limits/Site Ranking		100 mg/Kg	10 mg/Kg	50 mg/Kg	250 mg/Kg
Bottom Composite	5/8/14	< 30 mg/Kg	<0.05 mg/Kg	<0.05 mg/Kg	62.3 mg/Kg
Wall Composite	5/8/14	< 30 mg/Kg	<0.05 mg/Kg	<0.05 mg/Kg	219 mg/Kg

13) If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in NMAC § 19.15.17.13(E)(4), Chevron will backfill the excavation with compacted, non-waste containing, earthen materials; construct a division prescribed soil cover; re-contour and re-vegetate the site. The division-prescribed soil cover, recontouring and re-vegetation requirements shall comply with NMAC § 19.15.17.13)(G, H and I). NMAC § 19.15.17.13(E)(6).

**a. The sampling program demonstrated that a release had occurred on this site in regards to the BGT. Excavation of contaminated soil was conducted, confirmation samples collected, and contaminated soil transported to a NMOCD permitted soil remediation facility. See sections 9-12 above.**

14) As per NMAC § 19.15.17.13(G)(1), once Chevron has closed a BGT or is no longer using the BGT or an area associated with the BGT, Chevron will reclaim the BGT location and all areas associated with it including associated access roads not needed by the surface estate owner to a safe and stable condition that blends with the surrounding undisturbed area. Chevron will substantially restore impacted surface area to the condition that existed prior to its oil and gas operations by placement of soil cover as provided in NMAC § 19.15.17.13(H) (see below), recontour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography, and re-vegetate according to NMAC § 19.15.17.13(1). NMAC § 19.15.17.13(G)(1).

**(a) Well site is still in use – re-vegetation will occur upon the decommissioning of the well site.**

15) Chevron may propose an alternative to the re-vegetation requirement of NMAC §19.15.17.13(G)(1) if it demonstrates that the proposed alternative effectively prevents erosion, and protects fresh water, human health and the environment. The proposed alternative must be agreed upon in writing by the surface owner. Chevron will submit the proposed alternative, with written documentation that the surface owner agrees to the alternative, to the division for approval. NMAC § 19.15.17.13(G)(2).

16) Soil cover for closures where Chevron has removed the pit contents or remediated the contaminated soil to the division's satisfaction will consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. NMAC § 19.15.17.13(H)(1).

17) Chevron will construct the soil cover to the site's existing grade and prevent pending of water and erosion of the cover material. NMAC § 19.15.17.13(H)(3).

18) As per NMAC § 19.15.17.13(1)(1) and 19.15.17.13(G)(2), Chevron will seed or plant disturbed areas during the first growing season after it is no longer using a BGT or an area associated with the BGT including access roads unless needed by the surface estate owner as evidenced by a written agreement with the surface estate owner, if any and written approval by NMOCD.

19) Seeding will be accomplished by drilling on the contour whenever practical or by other division approved methods. Chevron will obtain vegetative cover that equals 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two growing seasons that prove viability, Chevron will not artificially irrigate the vegetation. NMAC § 19.15.17.13(1)(2).

20) Chevron will notify the division when it has seeded or planted and when it successfully achieves re-vegetation. NMAC § 19.15.17.13(1)(5).

21) Seeding or planting will be repeated until Chevron successfully achieves the required vegetative cover. NMAC § 19.15.17.13(1)(3).

22) When conditions are not favorable for the establishment of vegetation, such as periods of drought, the division may allow Chevron to delay seeding or planting until soil moisture conditions become favorable or may require Chevron to use additional cultural techniques such as mulching, fertilizing, irrigating, fencing or other practices. NMAC § 19.15.17.13(1)(4).

23) As per NMAC § 19.15.17.13(K), within 60 days of closure completion, Chevron will submit a closure report containing the elements required by NMAC § 19.15.17.13(K) including:

- i) Confirmation sampling results,
- ii) A plot plan,
- iii) Details on back-filling, capping and covering, where applicable, including revegetation application rates and seeding technique,
- iv) Proof of closure notice to the surface owner, if any, and the division,
- v) Name and permit number of disposal facility, and
- vi) Photo documentation.

**a) See attached form C-144 and required documents**

24) The closure report will be filed on NMOCD Form C-144. Chevron will certify that all information in the closure report and attachments is correct and that it has complied with all applicable closure requirements and conditions specified in the approved closure plan. NMAC § 19.15.17.13(K).

**a) See attached form C-144 and required documents**

25) As requested, the following are the current Chevron approved Waste Disposal Sites for the identified waste streams:

Soils and Sludges

i) Envirotech Inc. Soil Remediation Facility, Permit No. NM-01-0011

Solids

ii) San Juan County Regional Land Fill (NMAC § 19.15.35.8 items only, with prior NMOCD approval when required)

Liquids

i) Key Energy Disposal Facility, Permit No. NM-01-0009

ii) Basin Disposals Facility, Permit No. NM-01-005.

26) These waste disposal sites are subject to change if their certification is lost or they are closed or other more appropriate, equally protective sites become available. Chevron will provide notice if such a change is affected.

**Attachments**

1. Landowner and NMOCD Notifications
2. BGT Sampling Documentation and Analysis
3. Bill of Ladings (BOL) Documentation
4. Site Photography
5. C-141 Release Notification Forms

**Attachment 1: Landowner and NMOCD Notifications**


**Quick Tools**  
 Track

Enter up to 10 Tracking #: Find

Find USPS Locations

Buy Stamps

Schedule Pickup

Calculate Postage

Look Up a ZIP Code

Hold Mail

Change of Address

Click to Packbox

Send Mail

Tracking Number: 70071490000053981323

## Product & Tracking Information

**Postal Product:**
**Features:**

Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
April 9, 2014, 10:35 am	Delivered	FARMINGTON, NM 87402
April 9, 2014, 9:18 am	Out for Delivery	FARMINGTON, NM 87401
April 9, 2014, 9:08 am	Sorting Complete	FARMINGTON, NM 87401
April 9, 2014, 8:32 am	Arrival at Unit	FARMINGTON, NM 87401
April 9, 2014	Depart USPS Sort Facility	ALBUQUERQUE, NM 87101
April 8, 2014, 11:30 pm	Processed through USPS Sort Facility	ALBUQUERQUE, NM 87101

Email Updates

## Track An

What's your track

**SENDER: COMPLETE THIS SECTION**

- ☐ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- ☐ Print your name and address on the reverse so that we can return the card to you.
- ☐ Attach this card to the back of the mailpiece, or on the front if space permits.

**1. Article Addressed to:**

Federal Indian Minerals Office  
 6251 College Blvd, Ste B  
 Farmington, NM 87402

**COMPLETE THIS SECTION ON DELIVERY**
**A. Signature**
☐ Agent☐ Addressee
**B. Received by (Printed Name)**

KEITH S. HORT

**C. Date of Delivery**

4/9/14

**D. Is delivery address different from item 1?**

If YES, enter delivery address below:

☐ Yes☐ No

APR 10 2014

**3. Service Type**
☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.
**4. Restricted Delivery? (Extra Fee)**
☐ Yes
**2. Article Number**

(Transfer from service label)

7007 1490 0000 5398 1323

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**LEGAL**

Privacy Policy

Terms of Use

FOIA

No FEAR Act EEO Data



April 8, 2014

Federal Indian Minerals Office  
6251 College Boulevard, Suite B  
Farmington, New Mexico 87402

Phone: (505) 564-7640

**RE: NAVAJO I 1 #3 BELOW GRADE TANK (BGT) CLOSURE NOTIFICATION**

To whom this may concern:

Please accept this letter as the necessary surface owner notification for below grade tank (BGT) closure activities at the Navajo I 1 #3 well site, owned and operated by Four Star Oil and Gas Company. The Navajo I 1 #3 well site is located in Unit I, Section 1, Township 25N, Range 11W, San Juan County, New Mexico. Closure activities are scheduled for the week of April 14 – April 18.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 333-1953.

Respectfully Submitted,

**CHEVRON NORTH AMERICA EXPLORATION AND PRODUCTION**



Ryan K. Malone, P.E.  
Facilities Engineer (FTS)  
[RMalone@chevron.com](mailto:RMalone@chevron.com)

Enclosure: Sundry Notice

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No 1004-0137  
Expires: October 31, 2014

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
NOOC14203778

6. If Indian, Allottee or Tribe Name  
Eastern Navajo

**SUBMIT IN TRIPLICATE - Other instructions on page 2.**

7. If Unit of CA/Agreement, Name and/or No.  
SW14308

8. Well Name and No.  
NAVAJO 11 #3

9. API Well No.  
30-045-22033

10. Field and Pool or Exploratory Area  
Basin Dakota

11. County or Parish, State  
San Juan County, New Mexico

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Four Star Oil and Gas Company

3a. Address  
Attn: Regulatory Specialist 332 Road 3100, Aztec, NM 87410

3b. Phone No. (include area code)  
505-333-1941

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 1 T25N R11W NESE 1600FSL 1150FEL  
36.426712 N Lat, 107.548905 W Lon

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Below Grade Tank
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Closure Activities
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)  
Ryan K. Malone

Title Facilities Engineer

Signature

Date 04/08/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Toni McKnight

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**From:** Toni McKnight  
**Sent:** Tuesday, April 08, 2014 2:51 PM  
**To:** 'Powell, Brandon, EMNRD'  
**Cc:** 'Malone, Ryan [ENGlobal]'; 'Pohl, April E'; Greg Crabtree; Brenda Wilson  
**Subject:** BGT Closure Notification for Navajo I 1 #3 Well Site  
**Attachments:** OCD Notification - Navajo I 1 #3 BGT Closure Activities.pdf

Brandon,

Chevron is notifying the OCD of its plans to conduct closure activities for a below ground tank (BGT) at the Navajo I 1 #3 Well Site, API # 30-045-22033, Unit I, Section 1, Township 25N, Range 11W, San Juan County, New Mexico. The closure activities are scheduled for the week of April 14 – April 18, 2014.

A notification has been sent via certified mail to the BLM/FIMO Office in Farmington, NM, in regards to Chevron's plans to conduct closure activities at the above mentioned site.

Please find attached a signed copy of this notification for the OCD.

If you have any questions or concerns, please feel free to contact me,

Sincerely,

Envirotech, Inc.  
Toni McKnight, EIT  
Environmental Project Manager  
5796 US Highway 64  
Farmington, New Mexico 87401  
[tmcknight@envirotech-inc.com](mailto:tmcknight@envirotech-inc.com)  
Work: (505) 632-0615 Ext. 152  
Cell: (505) 947-9179  
Fax: (505) 632-1865

April 8, 2014

Mr. Brandon Powell  
New Mexico Oil and Gas Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Phone: (505) 334-6178

**RE: NAVAJO I 1 #3 BELOW GRADE TANK (BGT) CLOSURE NOTIFICATION**

Dear Mr. Powell,

Please accept this letter as the necessary surface owner notification for below grade tank (BGT) closure activities at the Navajo I 1 #3 well site, API # 30-045-22033, owned and operated by Four Star Oil and Gas Company.

The Navajo I 1 #3 well site is located in Unit I, Section 1, Township 25N, Range 11W, San Juan County, New Mexico. Closure activities are scheduled for the week of April 14 – April 18.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 333-1953.


Respectfully Submitted,

**CHEVRON NORTH AMERICA EXPLORATION AND PRODUCTION**



Ryan K. Malone, P.E.  
Facilities Engineer (FTS)  
[RMalone@chevron.com](mailto:RMalone@chevron.com)

## **Attachment 2: BGT Sampling Documentation and Analysis**

PAGE NO: <u>1</u> OF <u>1</u>	 <b>envirotech</b> (505) 622-0616 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	ENVIRONMENTAL SPECIALIST: <i>T. McKnight</i>
DATE STARTED: <u>April 22, 2014</u>	LAT: <u>36° 25' 35.83"</u>	LONG: <u>-107° 57' 3.60"</u>
DATE FINISHED: <u>April 22, 2014</u>		

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION			
LOCATION: NAME: <u>Navajo I 1</u>	WELL #: <u>3</u>	TEMP PIT: <u>PERMANENT</u>	PIT: <u>BGT: X</u>
LEGAL ADD: UNIT: <u>I</u>	SEC: <u>1</u>	TWP: <u>25 N</u>	RNG: <u>11 W</u> PM: <u>Nm</u>
QTR/FOOTAGE: <u>1500' FSL + 1150' FEL</u>	CNTY: <u>San Juan</u>	ST: <u>New Mexico</u>	

EXCAVATION APPROX: <u>      </u> FT. X <u>      </u> FT. X <u>      </u> FT. DEEP	CUBIC YARDAGE: <u>      </u>
DISPOSAL FACILITY: <u>      </u>	REMEDIAL METHOD: <u>      </u>
LAND OWNER: <u>Navajo Allotted</u>	API: <u>30045 22033</u> BGT / PIT VOLUME: <u>6' diameter x 2' deep</u>
CONSTRUCTION MATERIAL: <u>Galvanized</u>	DOUBLE-WALLED, WITH LEAK DETECTION: <u>No</u>

LOCATION APPROXIMATELY: 160 FT. 235.11 FROM WELLHEAD

DEPTH TO GROUNDWATER: 80ft From Cathodic well Data

       TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP  
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg

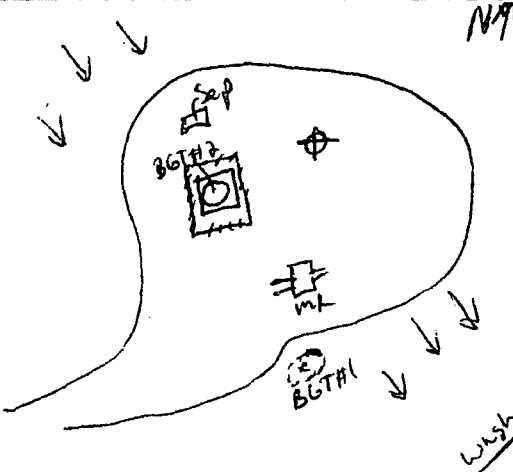
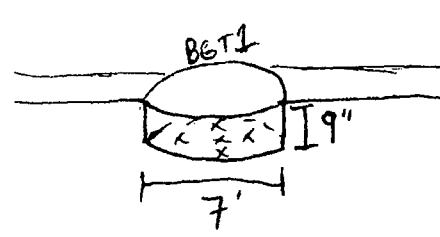
       TEMPORARY PIT - GROUNDWATER ≥ 100 FEET DEEP  
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

☒ PERMANENT PIT OR BGT  
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

FIELD 418.1 ANALYSIS							
TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
12:52	200 STD	—	—	—	—	216	—
12:55	BGT #1	1	5	20	4	404	1616
		2					
		3					
		4					
		5					
		6					

PERIMETER	FIELD CHLORIDES RESULTS	PROFILE																														
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>READING</th> <th>CALC. (mg/kg)</th> </tr> <tr> <td>BGT #1</td> <td>77.80</td> <td>7637</td> </tr> <tr> <td>BGT #1</td> <td>2.4</td> <td>327</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	READING	CALC. (mg/kg)	BGT #1	77.80	7637	BGT #1	2.4	327																						<p>Low Range High Range</p>
	SAMPLE ID	READING	CALC. (mg/kg)																													
	BGT #1	77.80	7637																													
	BGT #1	2.4	327																													
<b>PID RESULTS</b>																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>RESULTS (mg/kg)</th> </tr> <tr> <td>BGT #1</td> <td>1.5</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>			SAMPLE ID	RESULTS (mg/kg)	BGT #1	1.5																										
SAMPLE ID	RESULTS (mg/kg)																															
BGT #1	1.5																															

LAB SAMPLES	NOTES:															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>RESULTS</th> </tr> <tr><td> </td><td>BENZENE</td><td> </td></tr> <tr><td> </td><td>BTEX</td><td> </td></tr> <tr><td> </td><td>GRO &amp; DRO</td><td> </td></tr> <tr><td> </td><td>CHLORIDES</td><td> </td></tr> </table>	SAMPLE ID	ANALYSIS	RESULTS		BENZENE			BTEX			GRO & DRO			CHLORIDES		<p><u>30045 22033</u></p> <p>Distance to nearest Surface water: <u>160 ft</u></p> <p>Nearest water well <u>&gt; 1000 ft</u></p> <p>High desert on-site</p> <p>Ranking: <u>30 = 100ppm closure</u></p>
SAMPLE ID	ANALYSIS	RESULTS														
	BENZENE															
	BTEX															
	GRO & DRO															
	CHLORIDES															
WORKORDER #	WHO ORDERED															

chevron



**envirotech**

(508) 632-6318 (800) 262-1070  
5798 U.S. Hwy 64, Farmington, ME 07404

92270-1200

COC No:

16908

PAGE NO: 1 OF 1

DATE STARTED: 4/22/14

DATE FINISHED:

LOCATION: NAME: Navajo I 1 WELL#: 3

QUAD/UNIT: I SEC: 4 TWP: 25N RNG: 11W PM: Nm CNTY: SJ ST: Nm

QTR/FOOTAGE: 1500' FSZ & 1150' FE | CONTRACTOR: High desert

ENVIRONMENTAL  
SPECIALIST: T. McKnight

EXCAVATION APPROX: \_\_\_\_\_ FT. X \_\_\_\_\_ FT. X \_\_\_\_\_ FT. DEEP CUBIC YARDAGE: \_\_\_\_\_

DISPOSAL FACILITY: \_\_\_\_\_ REMEDIATION METHOD: \_\_\_\_\_

LAND USE: wawajo / tribal LEASE: LAND OWNER: Tribal allotted

CAUSE OF RELEASE: Below Grade tank MATERIAL RELEASED:

SPILL LOCATED APPROXIMATELY: 160 FT. 235.11 FROM wellhead

DEPTH TO GROUNDWATER: 80 ft NEAREST WATER SOURCE: 1900' NEAREST SURFACE WATER: 160 ft

NMOCD RANKING SCORE:	30	NMOCD TPH CLOSURE STD:	100	PPM
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**SOIL AND EXCAVATION DESCRIPTION:** Soil is of clay material - No visual soil staining  
However soil was moist on Bottom

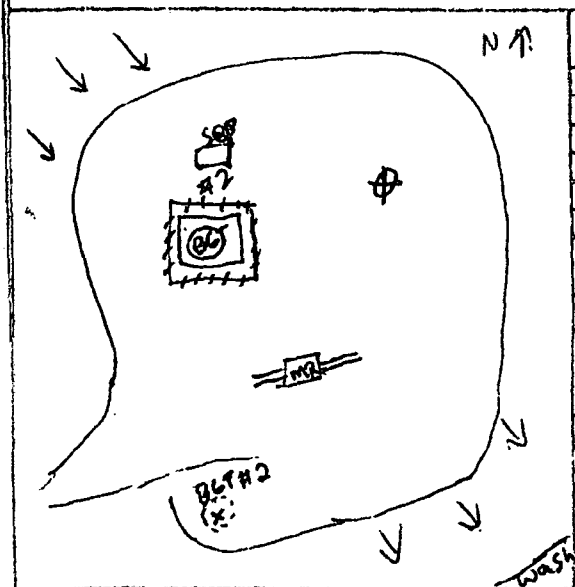
Wash: N 36° 25' 34.73"      BGT41: N 36° 25' 35.83"      Wellhead: N 36° 25' 36.73"  
W 107° 57' 2.22"      W 107° 57' 3.60"      W 107° 57' 2.01"

[illegible]

## SPILL PERIMETER

## OVM RESULTS

## SPILL PROFILE

[illegible]

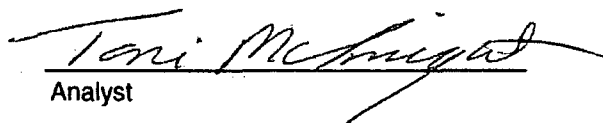
TRAVEL NOTES:	CAP. FOODS.	ONSITE
---------------	-------------	--------

CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 22-Apr-14

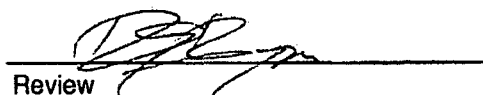
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	216
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

  
Analyst

4/22/2014  
Date

Toni McKnight, EIT  
Print Name

  
Review

4/22/2014  
Date

Rene Garcia-Reyes  
Print Name

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Chevron North America	Project #:	92270-1200
Sample No.:	1	Date Reported:	4/22/2014
Sample ID:	BGT #1	Date Sampled:	4/22/2014
Sample Matrix:	Soil	Date Analyzed:	4/22/2014
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

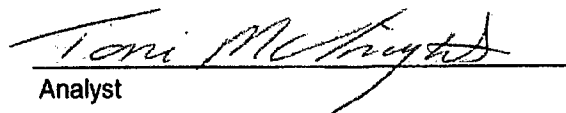
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,620	5.0

ND = Parameter not detected at the stated detection limit.

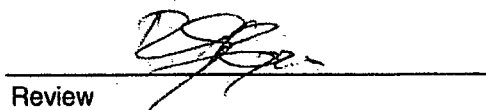
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Navajo I 1#3**

Instrument calibrated to 1000 ppm standard and zeroed before each sample.

  
Analyst

Toni McKnight, EIT  
Printed

  
Review

Rene Garcia-Reyes  
Printed



## Analytical Report

### Report Summary

Client: Chevron

Chain Of Custody Number: 16908

Samples Received: 4/22/2014 2:45:00PM

Job Number: 92270-1200

Work Order: P404070

Project Name/Location: Navajo I 1 #3

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read "Tim Cain", is written over a horizontal line.

Date: 4/24/14

Tim Cain, Laboratory Manager

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Chevron  
322 Road 3100  
Aztec NM, 87410

Project Name: Navajo I 1 #3  
Project Number: 92270-1200  
Project Manager: Toni Mckinght

Reported:  
24-Apr-14 10:27

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT #1 Pit Bottom	P404070-01A	Soil	04/22/14	04/22/14	Glass Jar, 4 oz.

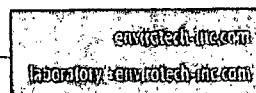
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Chevron  
 322 Road 3100  
 Aztec NM, 87410

 Project Name: Navajo I I #3  
 Project Number: 92270-1200  
 Project Manager: Toni Mckinght

 Reported:  
 24-Apr-14 10:27

**BGT #1 Pit Bottom**  
**P404070-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8021B	
Surrogate: Bromochlorobenzene		104 %		80-120	1417010	04/22/14	04/23/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		103 %		80-120	1417010	04/22/14	04/23/14	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1417010	04/22/14	04/23/14	EPA 8015D	
Diesel Range Organics (C10-C28)	412	29.9	mg/kg	1	1417013	04/22/14	04/23/14	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	778	9.89	mg/kg	1	1417012	04/22/14	04/22/14	EPA 300.0	

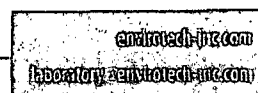
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Chevron  
322 Road 3100  
Aztec NM, 87410

Project Name: Navajo I 1 #3  
Project Number: 92270-1200  
Project Manager: Toni Mckinght

Reported:  
24-Apr-14 10:27

**Volatile Organics by EPA 8021 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1417010 - Purge and Trap EPA 5030A**

**Blank (1417010-BLK1)**

Prepared: 22-Apr-14 Analyzed: 23-Apr-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	47.8		ug/L	50.0		95.5	80-120			
Surrogate: Bromochlorobenzene	48.9		"	50.0		97.9	80-120			

**Duplicate (1417010-DUP1)**

Source: P404067-01

Prepared & Analyzed: 22-Apr-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	46.2		ug/L	50.0		92.4	80-120			
Surrogate: Bromochlorobenzene	47.6		"	50.0		95.3	80-120			

**Matrix Spike (1417010-MS1)**

Source: P404067-01

Prepared: 22-Apr-14 Analyzed: 23-Apr-14

Benzene	52.3		ug/L	50.0	ND	105	39-150			
Toluene	51.9		"	50.0	ND	104	46-148			
Ethylbenzene	51.4		"	50.0	ND	103	32-160			
p,m-Xylene	102		"	100	ND	102	46-148			
o-Xylene	51.6		"	50.0	ND	103	46-148			
Surrogate: 1,3-Dichlorobenzene	52.6		"	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.6		"	50.0		107	80-120			

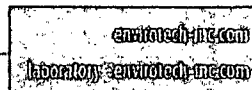
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Chevron	Project Name:	Navajo I 1 #3	Reported:
322 Road 3100	Project Number:	92270-1200	24-Apr-14 10:27
Aztec NM, 87410	Project Manager:	Toni Mckinght	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1417010 - Purge and Trap EPA 5030A</b>										
<b>Blank (1417010-BLK1)</b>				Prepared: 22-Apr-14 Analyzed: 23-Apr-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
<b>Duplicate (1417010-DUP1)</b>				Source: P404067-01 Prepared & Analyzed: 22-Apr-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
<b>Matrix Spike (1417010-MS1)</b>				Source: P404067-01 Prepared: 22-Apr-14 Analyzed: 23-Apr-14						
Gasoline Range Organics (C6-C10)	0.59		mg/L	0.450	0.01	129	75-125			SPK1

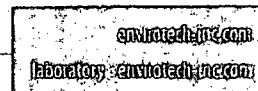
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Chevron	Project Name:	Navajo I 1 #3	Reported:
322 Road 3100	Project Number:	92270-1200	24-Apr-14 10:27
Aztec NM, 87410	Project Manager:	Toni Mckinght	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1417013 - DRO Extraction EPA 3550C

<b>Blank (1417013-BLK1)</b>		Prepared: 22-Apr-14 Analyzed: 23-Apr-14								
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1417013-DUP1)</b>		Source: P404070-01		Prepared: 22-Apr-14 Analyzed: 23-Apr-14						
Diesel Range Organics (C10-C28)	526	29.9	mg/kg		412			24.3	30	
<b>Matrix Spike (1417013-MS1)</b>		Source: P404070-01		Prepared: 22-Apr-14 Analyzed: 23-Apr-14						
Diesel Range Organics (C10-C28)	625		mg/L	250	392	93.1	75-125			

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Chevron  
322 Road 3100  
Aztec NM, 87410

Project Name: Navajo 11 #3  
Project Number: 92270-1200  
Project Manager: Toni Mckinght

Reported:  
24-Apr-14 10:27

**Cation/Anion Analysis - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1417012 - Anion Extraction EPA 300.0**

**Blank (1417012-BLK1)**

Prepared & Analyzed: 22-Apr-14

Chloride ND 10.0 mg/kg

**LCS (1417012-BS1)**

Prepared & Analyzed: 22-Apr-14

Chloride 482 9.81 mg/kg 491 98.2 90-110

**Matrix Spike (1417012-MS1)**

Source: P404067-01

Prepared & Analyzed: 22-Apr-14

Chloride 496 9.96 mg/kg 498 ND 99.6 80-120

**Matrix Spike Dup (1417012-MSD1)**

Source: P404067-01

Prepared & Analyzed: 22-Apr-14

Chloride 502 9.99 mg/kg 499 ND 101 80-120 1.29 20

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Chevron  
322 Road 3100  
Aztec NM, 87410

Project Name: Navajo I I #3  
Project Number: 92270-1200  
Project Manager: Toni Mckinght

Reported:  
24-Apr-14 10:27

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

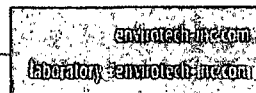
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RUSH

# CHAIN OF CUSTODY RECORD

16908

Client: <b>Chevron North America</b>			Project Name / Location: <b>Navajo I 1 #3</b>			ANALYSIS / PARAMETERS															
Email results to:			Sampler Name: <b>T. McKnight</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:			Client No.: <b>92270-1200</b>																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH	BTEX	VOC	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO <sub>3</sub>	HCl	cool														
BGT #1 Pit Bottom	7/22/14	12:20	P404070-01	1-402 Jar			✓	✓	✓								✓			✓	✓
Relinquished by: (Signature) <i>Toni McKnight</i>					Date 7/22/14	Time 14:45	Received by: (Signature) <i>Miriam Joe</i>					Date 7/22/14	Time 14:45								
Relinquished by: (Signature)							Received by: (Signature)														
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					



10.7

## Chevron



**envirotech**

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8768 U.S. Hwy 84, Farmington, NJ 07401

92270-1200

COC No:

16495

[PAGE NO:                      OF                      ]

LOCATION: NAME: Navajo I 1 WELL #: 3

DATE STARTED: 5/8/4

QUAD/UNIT: I SEC: 9 TWP: 25 N RNG: 11 W PM: NA CNTY: SJ ST: NM

DATE FINISHED: 5/8/14

QTR/FOOTAGE: CONTRACTOR: Envirotech

ENVIRONMENTAL  
SPECIALIST: T. McIntosh

EXCAVATION APPROX:	FT.	X	FT.	X	FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: REMEDIATION METHOD:

LAND USE:	LEASE:	LAND OWNER:
-----------	--------	-------------

CAUSE OF RELEASE:	MATERIAL RELEASED:
-------------------	--------------------

SPILL LOCATED APPROXIMATELY: 160 FT. 235.11° FROM well head

DEPTH TO GROUNDWATER: 80'      NEAREST WATER SOURCE: 1900'      NEAREST SURFACE WATER: 160'

NMOC D RANKING SCORE: 30 NMOC D TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:

1-day rush on analyticals.

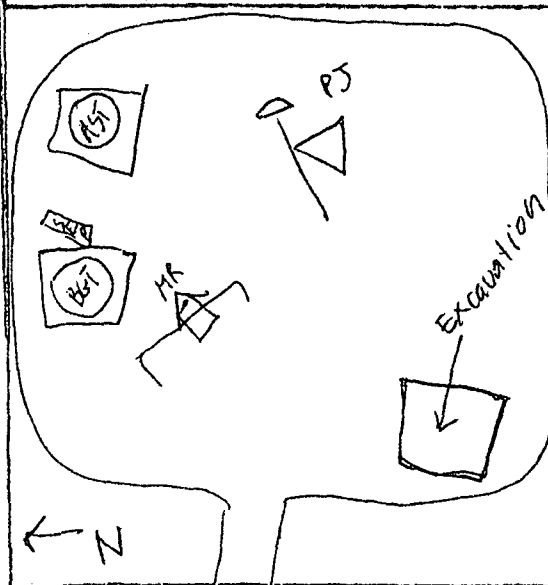
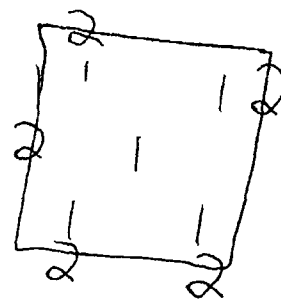
Client did not want any field analysis conducted.

[illegible]

## SPILL PERIMETER

## OVM RESULTS

## SPILL PROFILE

[illegible]

11-12' x 11-12'  
2-3' below ground surface

TRAVEL NOTES: \_\_\_\_\_ CALLED OUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_



## Analytical Report

### Report Summary

Client: Chevron

Chain Of Custody Number: 16495

Samples Received: 5/8/2014 11:20:00AM

Job Number: 92270-1200

Work Order: P405016

Project Name/Location: Navajo I 1 #3

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 5/12/14

Tim Cain, Laboratory Manager

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Chevron  
322 Road 3100  
Aztec NM, 87410

Project Name: Navajo I I #3  
Project Number: 92270-1200  
Project Manager: Tiffany McIntosh

Reported:  
12-May-14 08:41

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom Composite	P405016-01A	Soil	05/08/14	05/08/14	Glass Jar, 4 oz.
Wall Composite	P405016-02A	Soil	05/08/14	05/08/14	Glass Jar, 4 oz.

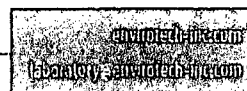
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Chevron	Project Name:	Navajo I 1 #3	Reported:
322 Road 3100	Project Number:	92270-1200	12-May-14 08:41
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	

**Bottom Composite**  
**P405016-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Surrogate: Bromochlorobenzene		111 %		80-120	1419027	05/08/14	05/09/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		98.4 %		80-120	1419027	05/08/14	05/09/14	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1419028	05/08/14	05/09/14	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	62.3	9.86	mg/kg	1	1419031	05/08/14	05/08/14	EPA 300.0	

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Chevron	Project Name:	Navajo I 1 #3	Reported:
322 Road 3100	Project Number:	92270-1200	12-May-14 08:41
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	

### Wall Composite

#### P405016-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %		80-120	1419027	05/08/14	05/09/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.5 %		80-120	1419027	05/08/14	05/09/14	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1419027	05/08/14	05/09/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1419028	05/08/14	05/09/14	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	219	9.97	mg/kg	1	1419031	05/08/14	05/08/14	EPA 300.0	

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Chevron	Project Name:	Navajo I I #3	Reported:
322 Road 3100	Project Number:	92270-1200	12-May-14 08:41
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1419027 - Purge and Trap EPA 5030A

Blank (1419027-BLK1)				Prepared: 08-May-14 Analyzed: 09-May-14						
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	48.3		ug/L	50.0		96.7	80-120			
Surrogate: Bromochlorobenzene	50.4		"	50.0		101	80-120			

Duplicate (1419027-DUP1)				Source: P405016-01		Prepared: 08-May-14 Analyzed: 09-May-14				
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	45.9		ug/L	50.0		91.8	80-120			
Surrogate: Bromochlorobenzene	47.9		"	50.0		95.9	80-120			

Matrix Spike (1419027-MS1)				Source: P405016-01		Prepared: 08-May-14 Analyzed: 09-May-14				
Benzene	47.9		ug/L	50.0	ND	95.8	39-150			
Toluene	47.6		"	50.0	ND	95.3	46-148			
Ethylbenzene	47.6		"	50.0	ND	95.3	32-160			
p,m-Xylene	92.6		"	100	ND	92.6	46-148			
o-Xylene	48.2		"	50.0	ND	96.5	46-148			
Surrogate: 1,3-Dichlorobenzene	47.7		"	50.0		95.3	80-120			
Surrogate: Bromochlorobenzene	50.1		"	50.0		100	80-120			

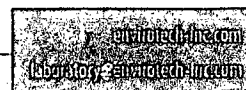
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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879





Chevron	Project Name:	Navajo I 1 #3	Reported:
322 Road 3100	Project Number:	92270-1200	12-May-14 08:41
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1419027 - Purge and Trap EPA 5030A</b>										
<b>Blank (1419027-BLK1)</b>					Prepared: 08-May-14 Analyzed: 09-May-14					
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
<b>Duplicate (1419027-DUP1)</b>					Source: P405016-01 Prepared: 08-May-14 Analyzed: 09-May-14					
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
<b>Matrix Spike (1419027-MS1)</b>					Source: P405016-01 Prepared: 08-May-14 Analyzed: 09-May-14					
Gasoline Range Organics (C6-C10)	0.39		mg/L	0.450	0.05	74.5	75-125			SPKI

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Chevron	Project Name:	Navajo I I #3	Reported:
322 Road 3100	Project Number:	92270-1200	12-May-14 08:41
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1419028 - DRO Extraction EPA 3550C</b>										
<b>Blank (1419028-BLK1)</b>					Prepared: 08-May-14 Analyzed: 09-May-14					
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1419028-DUP1)</b>					Source: P405016-01 Prepared: 08-May-14 Analyzed: 09-May-14					
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
<b>Matrix Spike (1419028-MS1)</b>					Source: P405016-01 Prepared: 08-May-14 Analyzed: 09-May-14					
Diesel Range Organics (C10-C28)	217		mg/L	250	10.4	82.5	75-125			

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Chevron	Project Name:	Navajo I I #3	Reported:
322 Road 3100	Project Number:	92270-1200	12-May-14 08:41
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1419031 - Anion Extraction EPA 300.0</b>										
<b>Blank (1419031-BLK1)</b>				Prepared & Analyzed: 08-May-14						
Chloride	ND	9.89	mg/kg							
<b>LCS (1419031-BS1)</b>				Prepared & Analyzed: 08-May-14						
Chloride	485	9.89	mg/kg	494		98.0	90-110			
<b>Matrix Spike (1419031-MS1)</b>				Source: P405016-01 Prepared & Analyzed: 08-May-14						
Chloride	540	9.91	mg/kg	495	62.3	96.4	80-120			
<b>Matrix Spike Dup (1419031-MSD1)</b>				Source: P405016-01 Prepared & Analyzed: 08-May-14						
Chloride	550	10.0	mg/kg	500	62.3	97.5	80-120	1.82	20	

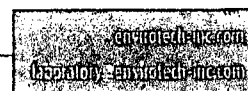
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Chevron  
322 Road 3100  
Aztec NM, 87410

Project Name: Navajo I 1 #3  
Project Number: 92270-1200  
Project Manager: Tiffany McIntosh

Reported:  
12-May-14 08:41

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

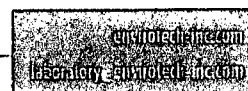
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1-day RUSH!

# CHAIN OF CUSTODY RECORD

16495

Client: <b>Chevron</b>			Project Name / Location: <b>Navajo I 1 #3</b>			ANALYSIS / PARAMETERS															
Email results to: <b>T. McIntosh</b>			Sampler Name: <b>T. McIntosh</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:			Client No.: <b>92270-1200</b>																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO <sub>3</sub>	HCl	COOL														
bottom composite	5/8/14	9:20	P405016-01	1-4 oz jar			X	X	X								X			Y	Y
wall composite	↓	9:25	P405016-02	1-4 oz jar			X	X	X								X			Y	Y
Relinquished by: (Signature) <i>Tiffany McIntosh</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>												Date	Time		
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature)															
Sample Matrix Solid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area. <b>1-day RUSH</b>				 <b>envirotech</b> Analytical Laboratory																	

11.2, 10.9

11.1

**Attachment 3: Bill of Ladings (BOL) Documentation**





# Bill of Lading

MANIFEST # 46683DATE 5-7-14 JOB # 92270-1202

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

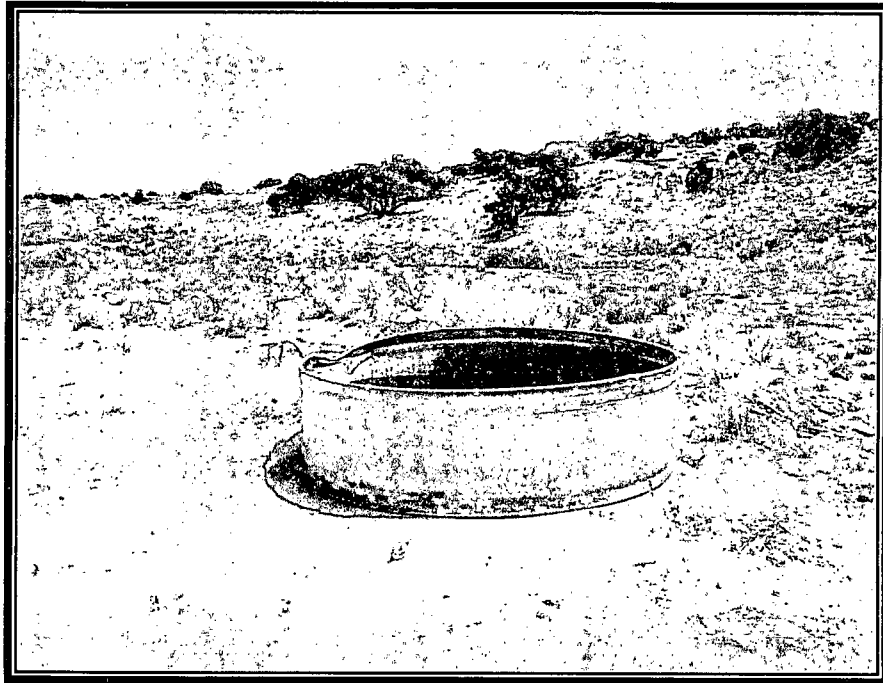
LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Chevron Navajo T #1-3	BF	CONIT Soil		-	20	EMS	320-4	1115	<i>[Signature]</i>
2	" "	BF	liquid		-	6	EMS	320-4	1258	<i>[Signature]</i>
3	" "	BF	"		-	20	EMS	320-610	1300	<i>[Signature]</i>
4	" "	BF	washout Both Trucks		-	5	EMS	320-610	1300	<i>[Signature]</i>
						51				
RESULTS:										
4271	CHLORIDE TEST	3	LANDFARM EMPLOYEE: <i>Gary Robinson</i> <sup>Blaw</sup>				NOTES:			
	PAINT FILTER TEST	3	Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. EMS NAME Justin Mackey SIGNATURE *[Signature]*  
COMPANY CONTACT Mike Sandoval PHONE \_\_\_\_\_ DATE 5-7-14  
Signatures required prior to distribution of the legal document.

**Attachment 4: Site Photography**

Site Photography  
Chevron North America  
Navajo I 1 #3 Well Site  
Below Grade Tank #1 Closure  
Project No. 92270-1200  
April 2014

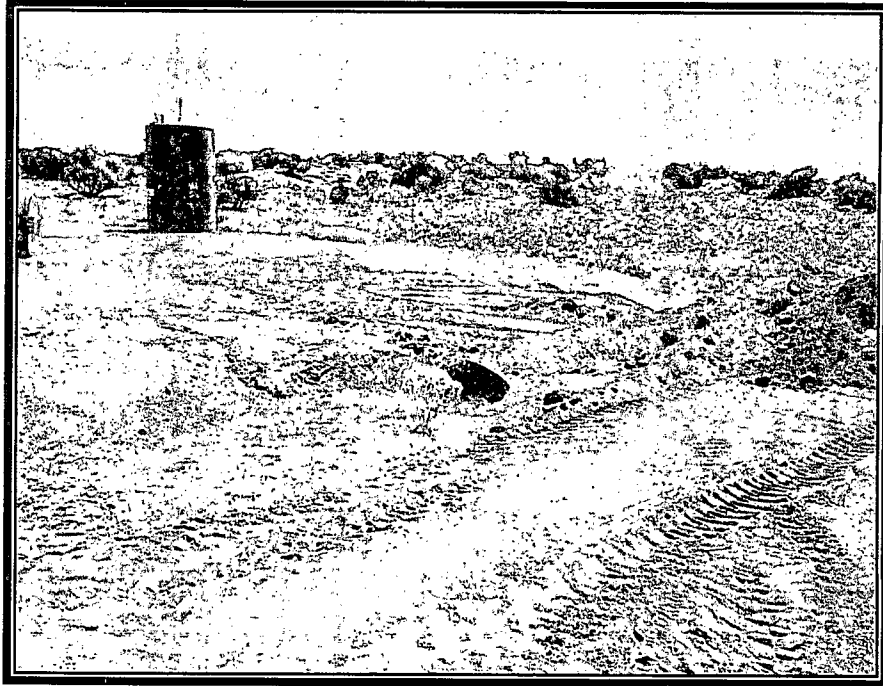


**Photo 1: Below Grade Tank (BGT) After Removal**

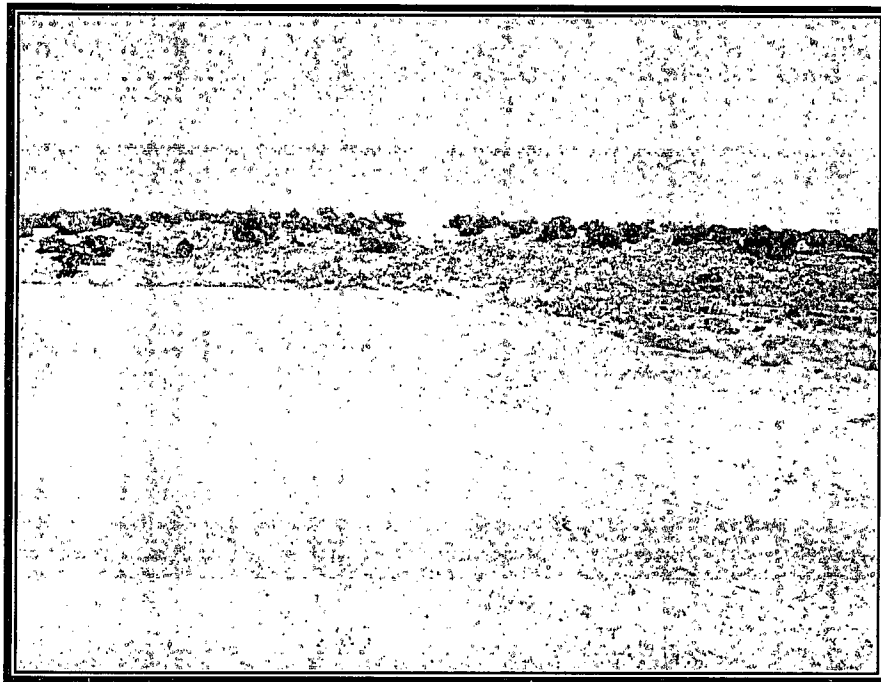


**Photo 2: BGT Pit Location Prior to Initial Sampling (View 1)**

Site Photography  
Chevron North America  
Navajo I 1 #3 Well Site  
Below Grade Tank #1 Closure  
Project No. 92270-1200  
April 2014



**Photo 3: BGT Pit Location Prior to Initial Sampling (View 2)**



**Photo 4: Backfilled and Re-contoured**

**Attachment 5: C-141 Release Notification Forms**

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 August 8, 2011

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	Four Star Oil and Gas Company	Contact	April Pohl
Address	332 Road 3100, Aztec, NM 87410	Telephone No.	505-333-1941
Facility Name	Navajo 11 #3	Facility Type	Gas Well

Surface Owner	Navajo Allotment	Mineral Owner		API No.	30-045-22033
---------------	------------------	---------------	--	---------	--------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
1	1	25N	11W	1500	South	1150	East	San Juan

Latitude 36.426611 Longitude -107.951003

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	Unknown	Volume Recovered	None
Source of Release	Below Grade Tank	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	April 22, 2014 12:55 pm
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES. To Whom?			
By Whom?		Date and Hour			
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 reached.

**Describe Cause of Problem and Remedial Action Taken.\***

Produced water from a gas well at the above mentioned location formerly discharged into a Below Grade Tank (BGT) on location. The Below Grade Tank was removed on April 22, 2014. Soil sampling from directly beneath the tank in accordance with Subsection E of 19.15.17.13 NMAC was performed on April 22, 2014, indicated that a release had occurred due to Total Petroleum Hydrocarbons (TPH) being above 100 mg/kg and chloride concentrations being above 250 mg/kg.

**Describe Area Affected and Cleanup Action Taken.\***

A five (5) point composite sample was collected from directly beneath the former BGT immediately once it was removed. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, and in Envirotech's Analytical Laboratory for benzene and total BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500B. The sample returned results at or below the approved BGT Closure Plan standards for this site of 0.2 mg/kg benzene and 50 mg/kg total BTEX; however the TPH and total chloride concentrations were above the standards, confirming that a release had occurred. Analytical results are attached for your reference. The BGT pit has been excavated and the soil disposed of at Envirotech's NMOCD Permitted Soil Remediation Facility, Landfarm #2. A final C-141 report and documentation is also attached.

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: <u>Ryan Malone</u>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <u>Ryan Malone</u>		Approved by Environmental Specialist:	
Title: <u>Facilities Engineer (FTS)</u>		Approval Date:	Expiration Date:
E-mail Address: <u>r Malone@chevron.com</u>		Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>06/15/2014</u> Phone: <u>505-333-1953</u>			

\* Attach Additional Sheets If Necessary

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 August 8, 2011

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	Four Star Oil and Gas Company	Contact	April Pohl
Address	332 Road 3100, Aztec, NM 87410	Telephone No.	505-333-1941
Facility Name	Navajo 11 #3	Facility Type	Gas Well

Surface Owner	Navajo Allotment	Mineral Owner		API No.	30-045-22033
---------------	------------------	---------------	--	---------	--------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	I	25N	11W	1500	South	1150	East	San Juan

Latitude 36.426611 Longitude -107.951003

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	Unknown	Volume Recovered	None
Source of Release	Below Grade Tank	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	April 22, 2014 12:55 pm
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

OIL CONS. DIV DIST. 3

If a Watercourse was Impacted, Describe Fully.\*  
No watercourse reached.

JUN 19 2014

**Describe Cause of Problem and Remedial Action Taken.\***


Produced water from a gas well at the above mentioned location formerly discharged into a Below Grade Tank (BGT) on location. The Below Grade Tank was removed on April 22, 2014. Soil sampling from directly beneath the tank in accordance with Subsection E of 19.15.17.13 NMAC was performed on April 22, 2014, indicated that a release had occurred due to Total Petroleum Hydrocarbons (TPH) being above 100 mg/kg and chloride concentrations being above 250 mg/kg. Remedial action was to excavate the contaminated area and re-sample for closure.

**Describe Area Affected and Cleanup Action Taken.\***

Approximately 51 cubic yards of contaminated soil were removed from the release area and transported to Envirotech's NMOCD Permitted Soil Remediation Facility, Landfarm #2; see attached Bill of Ladings. Soil samples were collected from the excavated area for final closure and analyzed for TPH using USEPA Method 8015 and for chlorides using USEPA Method 300.1; see BGT closure documentation for final closure results.

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.

**OIL CONSERVATION DIVISION**

Signature: 	Approved by Environmental Specialist:		
Printed Name: Ryan Malone			
Title: Facilities Engineer (FTS)	Approval Date:	Expiration Date:	
E-mail Address: rmalone@chevron.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 06/18/2014 Phone: 505-333-1953			

\* Attach Additional Sheets If Necessary