

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 April 3, 2017

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

77

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

RCVD 6/18/19

**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: Epic Energy, L.L.C. OGRID #: 320949  
Address: 7415 E. Main Street Farmington, NM 87402  
Facility or well name: Mesa 25-3R  
API Number: 30-039-24372 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr M Section 25 Township 24N Range 7W County: Rio Arriba  
Center of Proposed Design: Latitude 36.278549 Longitude -107.532704 NAD83  
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: 55 bbl Type of fluid: Produced Water  
Tank Construction material: \_\_\_\_\_  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Single Wall Tank  
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 Four Foot wire fencing with pipe railing

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

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

### **Temporary Pit Non-low chloride drilling fluid**

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).

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

☐ Yes ☐ 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

☐ Yes ☐ No

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;

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

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

### **Permanent Pit or Multi-Well Fluid Management Pit**

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).

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

☐ Yes ☐ No

Within 1000 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

☐ Yes ☐ No

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.

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

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ 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.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><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).<br>- 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.<br>- 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.<br>- 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.<br>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

☐ Yes ☐ No

Within the area overlying a subsurface mine.

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

☐ Yes ☐ No

Within an unstable area.

- 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.

- FEMA map

☐ Yes ☐ 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.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ 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
- ☐ 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 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - 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

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:  Approval Date: 6/27/19

Title: Environmental Spec OCD Permit Number: \_\_\_\_\_

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: June 5, 2019

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.*

- ☒ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☒ Confirmation Sampling Analytical Results (if applicable)
- ☒ Waste Material Sampling Analytical Results (required for on-site closure)
- ☒ Disposal Facility Name and Permit Number
- ☒ Soil Backfilling and Cover Installation
- ☒ Re-vegetation Application Rates and Seeding Technique
- ☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36.278549 Longitude -107.532704 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): Vanessa Fields Title: Regulatory Specialist

Signature:  Date: 6/18/2019

e-mail address: vanessa@walsheng.net Telephone: 505-327-4892

## Vanessa

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**From:** Vanessa <vanessa@walsheng.net>  
**Sent:** Monday, June 3, 2019 10:26 AM  
**To:** 'Smith, Cory, EMNRD'; 'aadeloye@blm.gov'  
**Cc:** 'John Hampton Jr'; 'Michael Dean'  
**Subject:** Sampling Notification Mesa 25-3R API # 30-039-24372 at 10:00am on Wednesday at June 5, 2019.

Good morning,

EPIC Energy is providing notification for confirmation sampling at the Mesa 25-3R API # 30-039-24372 at 10:00am on Wednesday at June 5, 2019.

Thank you,

**Vanessa Fields**  
Regulatory Specialist  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4892  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

## Vanessa

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**From:** Vanessa <vanessa@walsheng.net>  
**Sent:** Friday, May 10, 2019 11:01 AM  
**To:** 'Smith, Cory, EMNRD'  
**Cc:** 'vern@walsheng.net'; 'jdhampton@walsh.net'  
**Subject:** RE: [EXT] Below Grade Tank Failure Mesa 25 #003R 30-039-24372 2 BBL Produced Water Release

Thank you.

**Vanessa Fields**  
Regulatory Specialist  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4895  
C: 505-787-9100  
[vanessa@walsheng.net](mailto:vanessa@walsheng.net)

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**From:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Sent:** Friday, May 10, 2019 10:42 AM  
**To:** Vanessa Fields <vanessa@walsheng.net>  
**Cc:** vern@walsheng.net; jdhampton@walsh.net  
**Subject:** RE: [EXT] Below Grade Tank Failure Mesa 25 #003R 30-039-24372 2 BBL Produced Water Release

Vanessa,

OCD has processed the Initial C-141 it will be scanned into the well file ASAP.

## **NCS1912332788 MESA 25 #003R @ 30-039-24372**

### General Incident Information

Site Name: MESA 25 #003R  
Well: [\[30-039-24372\]](#) MESA 25 #003R  
Facility:  
Operator: [\[372834\]](#) EPIC ENERGY, L.L.C.  
Status: Closure Not Approved  
Type: Produced Water Release  
District: Aztec  
Severity: Minor  
Surface Owner: Federal  
County: Rio Arriba (39)

Incident Location: M-25-24N-07W Lot: 0 FNL 0 FEL  
Lat/Long: 36.278549,-107.532704 NAD83



Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Vanessa Fields <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>  
**Sent:** Friday, May 3, 2019 9:31 AM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** [vern@walsheng.net](mailto:vern@walsheng.net); [jhampton@walsh.net](mailto:jhampton@walsh.net)  
**Subject:** Re: [EXT] Below Grade Tank Failure Mesa 25 #003R 30-039-24372 2 BBL Produced Water Release

Thank you Cory

Vanessa Fields  
Walsh Engineering & Production  
Sent from my iPhone

On May 3, 2019, at 9:09 AM, Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)> wrote:

Vanessa,

Please respond to the release per 19.15.29.8 NMAC the below highlighted Incident# has been assigned to the release please use it for any future communications/submittals

<image001.png>

Thanks,

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Vanessa Fields <[vanessa@walsheng.net](mailto:vanessa@walsheng.net)>  
**Sent:** Thursday, May 2, 2019 8:24 AM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** [vern@walsheng.net](mailto:vern@walsheng.net); [jhampton@walsh.net](mailto:jhampton@walsh.net)  
**Subject:** [EXT] Below Grade Tank Failure Mesa 25 #003R 30-039-24372 2 BBL Produced Water Release  
**Importance:** High

Good morning Cory,

Mesa 25 #003R  
API# 30-039-24372  
M-25-24N-07W  
36.278549,-107.532704

Per our phone conversation this morning let this serve as notification that EPIC Energy was attempting to expose the sidewalls of the BGT and observed the fiberglass BGT had lost integrity. EPIC is estimating a release of 2 BBLS of produced water. I will provide 24 hour notice prior to sampling.

Please let me know if you have any further questions.

Thank you,

**Vanessa Fields**  
Regulatory Specialist  
Walsh Engineering /Epic Energy LLC.  
O: 505-327-4895  
C: 505-787-9100  
[vanessa@waslheng.net](mailto:vanessa@waslheng.net)

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State of New Mexico  
Energy Minerals and Natural  
Resources Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NCS1912332788
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party EPIC Energy L.L.C	OGRID 320949
Contact Name Vanessa Fields	Contact Telephone 505-787-9100
Contact email vanessa@walsheng.net	Incident # (assigned by OCD) NCS1912332788
Contact mailing address 7415 East Main Street Farmington, NM 87402	

### Location of Release Source

Latitude 36.278549 Longitude -107.532704  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Mesa 25-3R	Site Type Gas
Date Release Discovered 5/2/2019	API# (if applicable) 30-039-24372

Unit Letter	Section	Township	Range	County
M	25	24N	07W	Rio Arriba

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 2	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Field operations were exposing the sidewalls of the fiberglass below grade tank and during the process it was noted the sidewalls demonstrated integrity issues resulting in a release of 2 BBLS of produced water inside the berm area. All liquids were removed via water truck and were disposed at a division approved facility.

NMOCD

MAY 10 2019

DISTRICT III

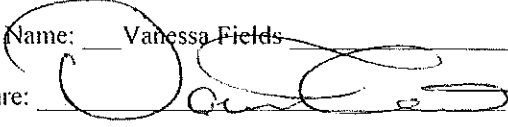
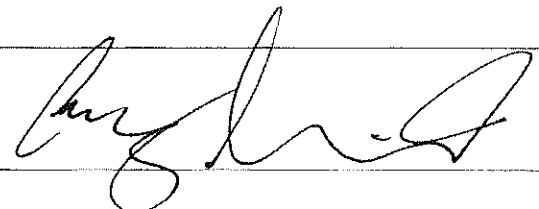
State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Vanessa Fields</u>	Title: <u>Regulatory Specialist</u>
Signature: 	Date: <u>5/7/2019</u>
email: <u>vanessa@walsheng.net</u>	Telephone: <u>505-787-9100</u>
<b>OCD Only</b> Received by: 	Date: <u>5/10/19</u>

NMOCD

MAY 10 2019

DISTRICT III

# **EPIC Energy, L.L.C**

## **Below Grade Tank Closure Plan**

Mesa 25-3R

U/L: M, Section 25, TWN: 24N. RNG: 07W

Rio Arriba County, New Mexico

As stipulated in Rule 19.15.17.13 NMAC, the following information adheres to the requirements established in closing below-grade tanks (BGTs) on EPIC Energy, L.L.C well sites. This plan will address the standard protocols and procedures for closure of BGTs.

EPIC Energy, L.L.C proposes to close its existing BGTs that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or are not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC in accordance with this closure plan and the transitional provisions of Subsection E of 19.15.17.17 NMAC, or within five (5) years after the effective date (June 16, 2008) of 19.15.17 NMAC.

The following outline addresses all requirements for closure of EPIC Energy, L.L.C BGTs:

1. Prior notification of EPIC Energy, L.L.C intent to close the BGT will follow 19.15.17.13J (I) and (2).

a. EPIC Energy, L.L.C will notify the surface owner by certified mail, return receipt requested, of closure plans. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is enough to demonstrate compliance with this requirement.

b. Notification will also be given to the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice will include the operator's name and the well's name, number, and API number, in addition to the well's legal description, including the unit letter, section, township, and range.

**Notice was provided to the NMOCD District III office and the Farmington BLM Field Office. Attached is a copy of the notification.**

2.EPIC ENERGY, L.L.C will remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. A list of EPIC Energy, L.L.C approved disposal facilities is below:

Fluid disposal:

**Agua Moss**

Sunco well #1

U/L=E, SWNW, Section 2, T29N-R12W San Juan, New Mexico

Permit #NM-01-0009

**Basin Disposal Inc.**

Basin Disposal well # 1

U/L=F, SWNW, Section 3, T29N-R1 1 W San Juan, New Mexico

Permit #NM-01-0005

Solid disposal: **Envirotech Land Farm**

Disposal Facility

Section 6, T26N-R10W, County Road #7175 San Juan, New Mexico

Permit #NM-01-0011

**All liquids that were in the BGT were removed and sent to one of their referenced Division approved facilities.**

3.EPIC ENERGY, L.L.C will remove the BGT from the pit and place it at ground level adjacent to the original BGT site and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approved. If a liner is present and must be disposed of it will be cleaned and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC.

**The BGT was transported for recycling.**

4. EPIC Energy, L.L.C will hook up necessary equipment and piping for temporary tank use. At this time, any on-site equipment not necessary to the operation of the tank will be removed from the site.

**All equipment associated with the BGT removal has been removed.**

5. EPIC Energy, L.L.C will test the soils beneath the original BGT location to determine whether a release has occurred. At a minimum, a five (5) point composite sample will be collected in addition to individual grab samples from areas that are wet, discolored, or showing other evidence of a release. The samples will be analyzed for BTEX, TPH, and chlorides to demonstrate that they do not exceed certain concentrations. The testing methods and closure standards for those constituents are as follows:

**An initial C-141 is attached for Closure of the C-144 demonstrating a release of 2 BBLS of produced water occurred while Epic Energy was in the process of trying to expose the side walls of the BGT. The NMOCD and BLM were notified of the release and given incident # nCS1912332788. Sampling was conducted on June 5, 2019 and witnessed by Aadeloye with the BLM. 5 composite samples were collected along all sidewalls and the bottom of the excavation with the excavation measuring 10' by 25' by 10'. All analytical results came back non-detect. A final C-141 will be submitted separately from the C-144.**

TABLE I			
Depth Below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 Feet	Chloride	EPA 300.0	600 mg/kg
	TPH	Method 418.1	100 mg/kg
	BTEX	Method 8021B or 8260B	50 mg/kg
	Benzene	Method 8021B or 8260B	10 mg/kg
51 feet - 100 feet	Chloride	EPA 300.0	10,000 mg/kg
	TPH	Method 418.1	2,500 mg/kg
	GRO + DRO	Method 8015	1,000 mg/kg
	BTEX	Method 8021B or 8260B	50 mg/kg
	Benzene	Method 8021B or 8260B	10 mg/kg
> 100 feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH	EPA 418.1	2,500 mg/kg
	GRO + DRO	Method 8015	1,000 mg/kg
	BTEX	Method 8021B or 8260B	50 mg/kg
	Benzene	Method 8021B or 8260B	10 mg/kg

Notes: mg/Kg= milligram per kilogram; BTEX = benzene, toluene, ethylbenzene, and total xylenes; TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. The Chlorides closure standards will be determined by whichever concentration level is greatest.

6. EPIC Energy, L.L.C will notify the division District III office of the soil test results on Form C-141. It is understood that the NMOCD may require additional delineation upon review of the results.

**An initial C-141 is attached for Closure of the C-144 demonstrating a release of 2 BBLS of produced water occurred while Epic Energy was in the process of trying to expose the side walls of the BGT. The NMOCD and BLM were notified of the release and given incident # nCS1912332788. Sampling was conducted on June 5, 2019 and witnessed by Aadeloye with the BLM. 5 composite samples were collected along all sidewalls and the bottom of the excavation with the excavation measuring 10' by 25' by 10'. All analytical results came back non-detect. A final C-141 will be submitted separately from the C-144.**

7. If it is determined that a release has occurred, then EPIC Energy, L.L.C will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

**A C-141 is attached for Closure demonstrating a release did occur on the Mesa 25-3R. Composite samples were collected from the base and four sidewalls of the excavation. All analytical results came back non-detect.**

8. If the confirmation sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then EPIC Energy, L.L.C will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; re-contour the site; and move the fiberglass tank onto the newly backfilled and compacted site. The division-prescribed soil cover, re-contouring, and re-vegetation requirements shall comply with Subsections G, H, and I of 19.15.17.13

NMAC.

The area has been backfilled and an above ground tank will be installed in its place. The area will be reclaimed once the well has been plugged and abandoned.



9.Reclamation will follow 19.15.17.130 (1) and (2).

a. The BGT location and all areas associated with the BGT, including associated access roads, if applicable, will be reclaimed to a safe and stable condition that blends with the surrounding undisturbed area. It is understood that EPIC Energy, L.L.C shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19 .15 .1 7 .13 NMA C and re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography.

b. Re-vegetation will not be completed at the time the BGT pit is reclaimed but will instead be applied for as part of the P&A process when the well is plugged and abandoned.

10.Soil cover will follow 19.15.17.13H (1) and (3).

a. The soil cover for closures where the BGT has been removed or contaminated soil has been remediated to the NMOCD's satisfaction will consist of the background thickness of topsoil or one (1) foot of suitable material to establish vegetation at the site, whichever is greater.

b. The soil cover will be constructed to the site's existing grade, and all possible efforts will be conducted to prevent ponding of water and erosion of the cover material.

**The area has been backfilled and will be reclaimed once the well has been plugged and abandoned.**

11.Within 60 days of closure completion, EPIC Energy, L.L.C will submit a closure report on NMOCD's Form C-144, with necessary attachments to document all closure activities, including sampling results; information required by 19.15.17 NMAC; and details on backfilling, capping, and covering, where applicable. EPIC Energy, L.L.C will certify that all information in the report and attachments is correct and that EPIC Energy, L.L.C has complied with all applicable closure requirements and conditions specified in the approved closure plan.



## Analytical Report

### Report Summary

Client: Epic Energy

Samples Received: 6/6/2019

Job Number: 18012-0006

Work Order: P906022

Project Name/Location: Mesa 25-3R BGT

Report Reviewed By:

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

Date: 6/13/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.  
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Epic Energy  
7415 East Main  
Farmington NM, 87402

Project Name: Mesa 25-3R BGT  
Project Number: 18012-0006  
Project Manager: Michael Dean

Reported:  
06/13/19 14:41

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Mesa 25-3R Base	P906022-01A	Soil	06/05/19	06/06/19	Glass Jar, 4 oz.
Mesa 25-3R North	P906022-02A	Soil	06/05/19	06/06/19	Glass Jar, 4 oz.
Mesa 25-3R South	P906022-03A	Soil	06/05/19	06/06/19	Glass Jar, 4 oz.
Mesa 25-3R East	P906022-04A	Soil	06/05/19	06/06/19	Glass Jar, 4 oz.
Mesa 25-3R West	P906022-05A	Soil	06/05/19	06/06/19	Glass Jar, 4 oz.

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Epic Energy  
 7415 East Main  
 Farmington NM, 87402

 Project Name: Mesa 25-3R BGT  
 Project Number: 18012-0006  
 Project Manager: Michael Dean

 Reported:  
 06/13/19 14:41

**Mesa 25-3R Base  
 P906022-01 (Solid)**

## Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-<sup>11</sup>D 98.9 % 50-150 1923024 06/06/19 06/10/19 EPA 8021B

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	

Surrogate: n-Nonane 121 % 50-200 1923034 06/07/19 06/11/19 EPA 8015D

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8015D	
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Surrogate: 1-Chloro-4-fluorobenzene-FID 102 % 50-150 1923024 06/06/19 06/10/19 EPA 8015D

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1923030	06/07/19	06/12/19	EPA 300.0/9056A	
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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Mesa 25-3R BGT Project Number: 18012-0006 Project Manager: Michael Dean	Reported: 06/13/19 14:41
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**Mesa 25-3R North  
P906022-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %		50-150	1923024	06/06/19	06/10/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Surrogate: n-Nonane		124 %		50-200	1923034	06/07/19	06/11/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1923024	06/06/19	06/10/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1923030	06/07/19	06/12/19	EPA 300.0/9056A	

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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Mesa 25-3R BGT Project Number: 18012-0006 Project Manager: Michael Dean	Reported: 06/13/19 14:41
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**Mesa 25-3R South  
P906022-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1923024	06/06/19	06/10/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Surrogate: n-Nonane		118 %		50-200	1923034	06/07/19	06/11/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1923024	06/06/19	06/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1923024	06/06/19	06/10/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1923030	06/07/19	06/12/19	EPA 300.0/9056A	
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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Mesa 25-3R BGT Project Number: 18012-0006 Project Manager: Michael Dean	Reported: 06/13/19 14:41
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**Mesa 25-3R East  
P906022-04 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PHD		100 %		50-150	1923024	06/06/19	06/11/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Surrogate: n-Nonane		118 %		50-200	1923034	06/07/19	06/11/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1923024	06/06/19	06/11/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1923030	06/07/19	06/12/19	EPA 300.0/9056A	

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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Mesa 25-3R BGT Project Number: 18012-0006 Project Manager: Michael Dean	Reported: 06/13/19 14:41
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**Mesa 25-3R West  
P906022-05 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-PID

99.5 % 50-150 1923024 06/06/19 06/11/19 EPA 8021B

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1923034	06/07/19	06/11/19	EPA 8015D	

Surrogate: n-Nonane

116 % 50-200 1923034 06/07/19 06/11/19 EPA 8015D

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1923024	06/06/19	06/11/19	EPA 8015D	
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Surrogate: 1-Chloro-4-fluorobenzene-FID

101 % 50-150 1923024 06/06/19 06/11/19 EPA 8015D

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1923030	06/07/19	06/12/19	EPA 300.0/9056A	
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Epic Energy  
7415 East Main  
Farmington NM, 87402

Project Name: Mesa 25-3R BGT  
Project Number: 18012-0006  
Project Manager: Michael Dean

Reported:  
06/13/19 14:41

### 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
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#### Batch 1923024 - Purge and Trap EPA 5030A

##### Blank (1923024-BLK1)

Prepared: 06/06/19 1 Analyzed: 06/07/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 7.84 " 8.00 98.0 50-150

##### LCS (1923024-BS1)

Prepared: 06/06/19 1 Analyzed: 06/07/19 1

Benzene	4.26	0.0250	mg/kg	5.00		85.1	70-130			
Toluene	4.64	0.0250	"	5.00		92.7	70-130			
Ethylbenzene	4.63	0.0250	"	5.00		92.5	70-130			
p,m-Xylene	9.53	0.0500	"	10.0		95.3	70-130			
o-Xylene	4.61	0.0250	"	5.00		92.2	70-130			
Total Xylenes	14.1	0.0250	"	15.0		94.3	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.92 " 8.00 99.0 50-150

##### Matrix Spike (1923024-MS1)

Source: P906021-01

Prepared: 06/06/19 1 Analyzed: 06/07/19 1

Benzene	4.48	0.0250	mg/kg	5.00	ND	89.5	54.3-133			
Toluene	4.87	0.0250	"	5.00	ND	97.5	61.4-130			
Ethylbenzene	4.86	0.0250	"	5.00	ND	97.2	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131			
o-Xylene	4.84	0.0250	"	5.00	ND	96.9	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.9	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8.00 " 8.00 100 50-150

##### Matrix Spike Dup (1923024-MSD1)

Source: P906021-01

Prepared: 06/06/19 1 Analyzed: 06/07/19 1

Benzene	4.27	0.0250	mg/kg	5.00	ND	85.4	54.3-133	4.73	20	
Toluene	4.66	0.0250	"	5.00	ND	93.2	61.4-130	4.48	20	
Ethylbenzene	4.66	0.0250	"	5.00	ND	93.2	61.4-133	4.21	20	
p,m-Xylene	9.60	0.0500	"	10.0	ND	96.0	63.3-131	4.07	20	
o-Xylene	4.66	0.0250	"	5.00	ND	93.2	63.3-131	3.90	20	
Total Xylenes	14.3	0.0250	"	15.0	ND	95.1	63.3-131	4.01	20	

Surrogate: 4-Bromochlorobenzene-PID 7.98 " 8.00 99.8 50-150

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Epic Energy	Project Name:	Mesa 25-3R BGT	Reported: 06/13/19 14:41
7415 East Main	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Michael Dean	

### Nonhalogenated Organics by 8015 - DRO/ORO - 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 1923034 - DRO Extraction EPA 3570

##### Blank (1923034-BLK1)

Prepared: 06/07/19 | Analyzed: 06/11/19 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	64.1		"	50.0		128	50-200			

##### LCS (1923034-BS1)

Prepared: 06/07/19 | Analyzed: 06/11/19 0

Diesel Range Organics (C10-C28)	534	25.0	mg/kg	500		107	38-132			
Surrogate: n-Nonane	60.5		"	50.0		121	50-200			

##### Matrix Spike (1923034-MS1)

Source: P906020-01

Prepared: 06/07/19 | Analyzed: 06/12/19 1

Diesel Range Organics (C10-C28)	1060	25.0	mg/kg	500	472	117	38-132			
Surrogate: n-Nonane	64.2		"	50.0		128	50-200			

##### Matrix Spike Dup (1923034-MSD1)

Source: P906020-01

Prepared: 06/07/19 | Analyzed: 06/12/19 1

Diesel Range Organics (C10-C28)	1010	25.0	mg/kg	500	472	108	38-132	4.29	20	
Surrogate: n-Nonane	62.7		"	50.0		125	50-200			

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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Mesa 25-3R BGT Project Number: 18012-0006 Project Manager: Michael Dean	Reported: 06/13/19 14:41
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### Nonhalogenated Organics by 8015 - GRO - 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 1923024 - Purge and Trap EPA 5030A

##### Blank (1923024-BLK1)

Prepared: 06/06/19 | Analyzed: 06/07/19 |

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		"	8.00		98.7	50-150			

##### LCS (1923024-BS2)

Prepared: 06/06/19 | Analyzed: 06/07/19 |

Gasoline Range Organics (C6-C10)	54.4	20.0	mg/kg	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		"	8.00		100	50-150			

##### Matrix Spike (1923024-MS2)

Source: P906021-01

Prepared: 06/06/19 | Analyzed: 06/07/19 |

Gasoline Range Organics (C6-C10)	54.7	20.0	mg/kg	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		"	8.00		103	50-150			

##### Matrix Spike Dup (1923024-MSD2)

Source: P906021-01

Prepared: 06/06/19 | Analyzed: 06/07/19 |

Gasoline Range Organics (C6-C10)	55.3	20.0	mg/kg	50.0	ND	111	70-130	1.24	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.17		"	8.00		102	50-150			

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Epic Energy	Project Name:	Mesa 25-3R BGT	Reported: 06/13/19 14:41
7415 East Main	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Michael Dean	

### Anions by 300.0/9056A - 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 1923030 - Anion Extraction EPA 300.0/9056A

##### Blank (1923030-BLK1)

Prepared: 06/07/19 0 Analyzed: 06/10/19 1

Chloride	ND	20.0	mg/kg							
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##### LCS (1923030-BS1)

Prepared: 06/07/19 0 Analyzed: 06/10/19 1

Chloride	254	20.0	mg/kg	250		102	90-110			
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##### Matrix Spike (1923030-MS1)

Source: P906020-01

Prepared: 06/07/19 0 Analyzed: 06/10/19 1

Chloride	1320	20.0	mg/kg	250	1080	98.1	80-120			
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##### Matrix Spike Dup (1923030-MSD1)

Source: P906020-01

Prepared: 06/07/19 0 Analyzed: 06/10/19 1

Chloride	1290	20.0	mg/kg	250	1080	86.9	80-120	2.14	20	
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#### QC Summary Report

##### Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Epic Energy  
7415 East Main  
Farmington NM, 87402

Project Name: Mesa 25-3R BGT  
Project Number: 18012-0006  
Project Manager: Michael Dean

**Reported:**  
06/13/19 14:41

#### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
RPD Relative Percent Difference  
\*\* Methods marked with \*\* are non-accredited methods.

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# Project Information

Client: EPIC ENERGY  
 Project: MESA 25-3R BGT  
 Project Manager: MICHAEL L DEAN  
 Address: 7415 EAST MAIN  
 City, State, Zip: FARMINGTON N.M. 87402  
 Phone: 505-327-4892  
 Email: VANESSA@CALJASHEEN6.NET

# Report Attention

Report due by: 6-13-19  
 Attention: VANESSA FIELDS  
 Address: 7415 EAST MAIN  
 City, State, Zip: FARMINGTON N.M. 87402  
 Phone: 505-287-9100  
 Email: VANESSA@CALJASHEEN6.NET

# Chain of Custody

Report due by: 6-13-19  
 Attention: VANESSA FIELDS  
 Address: 7415 EAST MAIN  
 City, State, Zip: FARMINGTON N.M. 87402  
 Phone: 505-287-9100  
 Email: VANESSA@CALJASHEEN6.NET

# Lab Use Only

Lab WO# P906022  
 Job Number 18012-0006  
 Analysis and Method

# EPA Program

1D 3D RCRA CWA SDWA  
 NM CO UT AZ  
 State

# Remarks

TPH 418.1  
 Chloride 300.0  
 Metals 6010  
 VOC by 8260  
 BTEX by 8021  
 GRO/DRO by 8015  
 DRO/DRO by 8015

# Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Michael L Dean

# Relinquished by: (Signature)

Date 6-6-19 Time 10:05 AM  
 Relinquished by: (Signature) Michael L Dean

# Received by: (Signature)

Date 6-6-19 Time 10:05 AM  
 Received by: (Signature) Vanessa Fields

# Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# envirotech

Analytical Laboratory  
 5796 US Highway 64, Farmington, NM 87401  
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301  
 Ph (505) 632-0615 Fr (505) 632-1065  
 Ph (970) 259-0615 Fr (800) 362-1879

# Page 13 of 13

vis ice in cooler



# **DJR OPERATING, LLC.**

**Mesa 25-3R**

**API # 30-039-24372**

**Lease # SF 078532**

**"M" Sec. 25-T24N-7W**

**960' FSL x 1160' FWL**

**Rio Arriba County, NM.**

**Emergency Contact # 505-632-3476**



## Mesa 25-3R BGT Removal Excavation



Bottom of excavation sampling 1 (5) point composite sample



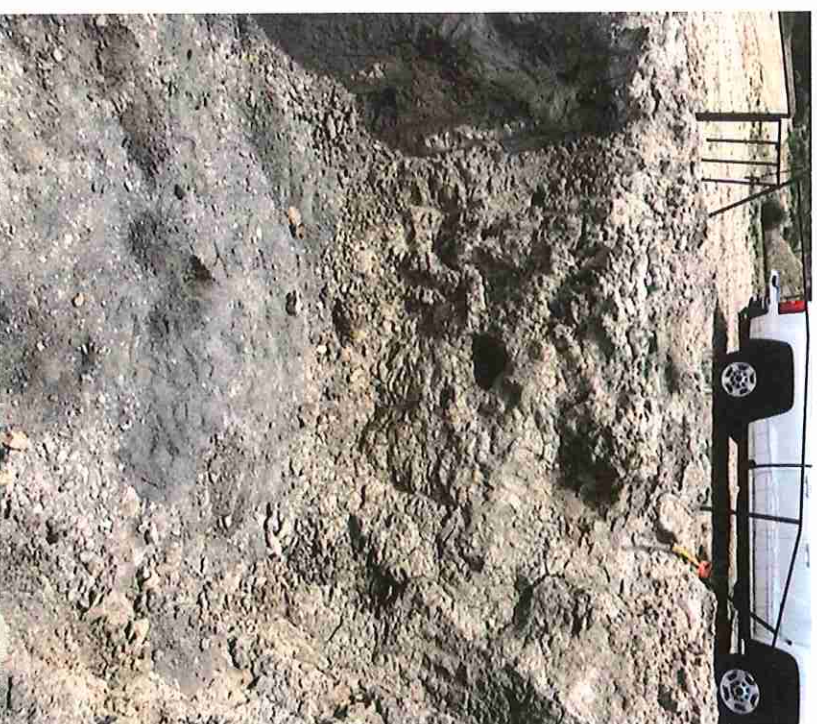
East Portion of excavation sampling 1 (5) point composite sample



## Mesa 25-3R BGT Removal Excavation



North Portion of excavation sampling 1 (5) point composite sample



West Portion of excavation sampling 1 (5) point composite sample



## Mesa 25-3R BGT Removal Excavation



South Portion of excavation sampling 1 (5) point composite sample