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.

201101 2 0, 1 111 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Enduring Resources, LLC OGRID #: 372286
Address: 332 Road 3100, Aztec, New Mexico 87410
Facility or well name: Rincon Unit #192E
API Number: <u>30-039-25060</u> OCD Permit Number:
U/L or Qtr/Qtr D Section 1 Township 26N Range 7W County: Rio Arriba
Center of Proposed Design: Latitude 36.518690 Longitude -107.532118 NAD83
Surface Owner:  Federal  State  Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC   Temporary:
3.  MRelow grade tank: Subsection Lef 19 15 17 11 NIMAC  NMOCD
Subsection 10.19.19.17.11 NVIAC
Volume: 95 bbl Type of fluid: Produced Water MAR 0 6 2018
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow short-loft TR   CT
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
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

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.	
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 acceptant are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☐ No
- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	□ 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
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. ( <b>Does not apply to below grade tanks</b> )  Written confirmation or verification from the municipality; Written approval obtained from the municipality	
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
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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	□ Vas □ Na
from the ordinary high-water mark).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
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.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached.  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 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:  or Permit Number:	NMAC 15.17.9 NMAC
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 docattached.  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 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: or Permit Number:	.15.17.9 NMAC

- 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
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan of the compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 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.    Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.    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 cann   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	.11 NMAC 15.17.11 NMAC
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 believed.	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
c-man address	
18.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 3	2018
18.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 3	2018
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 3  OCD Permit Number:  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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print): James McDaniel	Title: HSE Coordinator
Signature:	Date: <u>2/27/2018</u>
e-mail address: jmcdaniel@enduringresources.com	Telephone: 505-636-9731

Mr. Cory Smith
Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, New Mexico 87410
Email: cory.smith@state.nm.us
Phone (505) 334-6178 Ext 115

Re: Variance Request for 19.15.17 NMAC Table I and Table II

Mr. Smith.

Please accept this letter as a variance request as outlined in 19.15.17.15(A) NMAC. Enduring Resources, LLC (Enduring) would like to request the replacement of USEPA Method 418.1 for the analysis of Total Petroleum Hydrocarbons (TPH) for USEPA Method 8015M, measuring carbon ranges C6-C36, for all sampling associated with closures and confirmations samples in relation to 19.15.17 NMAC, both in Table I and Table II (2103) and the 'pit rule' passed in 2008. Enduring is requesting this variance on the grounds that USEPA Method 418.1 is an outdated analytical method that reports a full range of hydrocarbons from C5 through C40 (*Reference: American Petroleum Institute*).

The attached table demonstrates the carbon ranges, and the typical hydrocarbon products that can be found in those ranges. As you can see, lube oil ranges from C28-C35. Analytical Method USEPA 418.1 extends past lube oils from C35 through C40. This range of hydrocarbons is above the range that can reasonably be expected to be found in our field in both drilling pits and beneath below grade tanks. USEPA Method 8015M (GRO/DRO + extended analysis) will report hydrocarbons ranging from C6-C10 for GRO, C10- C28 for DRO, and C28-C36 for extended analysis. This information was provided by Environmental Science Corporation Laboratories. As the information demonstrates, the 8015M analytical method reports as low as C6, reporting lower than USEPA Method 418.1. Utilizing analytical method 8015M, lighter range hydrocarbons will be reported instead of higher range, heavy hydrocarbons that may not be reasonably expected to be found in our field. Utilization of USEPA Method 8015M will better protect groundwater resources by identifying lighter, more mobile hydrocarbons that USEPA Method 418.1 cannot identify. The heavier range hydrocarbons, C36-C40, that are not identified by USEPA Method 8015M are not a mobile form of hydrocarbon, and are not a threat to human health and the environment. With your acceptance of this variance request, XTO Energy will begin utilizing USEPA Method 8015M in place of USEPA Method 418.1 for all sampling activities associated with 19.15.17 NMAC, both from the rules passed in 2008 and 2013.

Respectfully Submitted,

James McDaniel, CHMM #15676 HSE Coordinator Enduring Resources, LLC

**Carbon Ranges of Typical Hydrocarbons** 

Hydrocarbon Carbon Range
Condensate C2-C12
Aromatics C5-C7
Gasoline C7-C11
Kerosene C6-C16
Diesel Fuel C8-C21
Fuel Oil #1 C9-C16
Fuel Oil #2 C11-C20
Heating Oil C14-C20
Lube Oil C28-C35

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

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** ☐ Initial Report Final Report Name of Company: Enduring Resources, LLC Contact: James McDaniel Telephone No.: 505-636-9731 Address: 332 Road 3100, Aztec, New Mexico 87410 Facility Name: Rincon Unit 192E Facility Type: Well Site (Gas) Surface Owner: BLM/Federal Mineral Owner: BLM/Federal API No. 30-039-25060 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County **7W NORTH** 970 WEST Rio Arriba D 1 26N 1020 -107.532118 Latitude 36.518690 Longitude NAD83 NATURE OF RELEASE Type of Release: NONE Volume of Release: NONE Volume Recovered: NA Source of Release: NA Date and Hour of Occurrence: NA Date and Hour of Discovery: NA Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required Date and Hour By Whom? Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☐ No If a Watercourse was Impacted, Describe Fully.\* NOT IMPACTED Describe Cause of Problem and Remedial Action Taken.\* BGT was closed at the Rincon Unit #192E. Sample was collected and analyzed for TPH, Benzene, BTEX and chlorides. The sample returned results below 'Pit Rule' Standards, determining that a release has not occurred at this facility. Describe Area Affected and Cleanup Action Taken.\* No release has occurred. No further action required. 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: James McDaniel Title: HSE Coordinator **Expiration Date:** Approval Date:

Conditions of Approval:

Date: 2/27/2018

E-mail Address: jmcdaniel@enduringresources.com

Phone: 505-636-9731

<sup>\*</sup> Attach Additional Sheets If Necessary

# Enduring Resources, LLC Below Grade Tank Closure Report

Lease Name: Rincon Unit #192E

API No.: 30-039-25060

Description: Unit D, Section 1, Township 26N, Range 7W, Rio Arriba County

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on Enduring Resources, LLC. (Enduring) locations. This is Enduring's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

#### **General Plan**

1. Enduring will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.

Closure Date is February 8, 2018

- 2. Enduring will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.

  Closure Date is February 8, 2018
- 3. Enduring will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.

Required C-144 Form is attached to this document.

4. Enduring will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B Soil contaminated by exempt petroleum hydrocarbons Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005

Produced water

All liquids and sludge were removed from the tank prior to closure activities.

5. Enduring will 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.
Enduring has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.

- Enduring will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
   This location is still in production. All other on-site equipment will be utilized in the
  - continued production of oil and gas.
- 7. Enduring will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample 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 50 mg/kg; the TPH concentration, as determined by EPA method 8015M or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 9056A or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. Enduring will notify the division of its results on form C-141.

A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Sampling was witness by Cory Smith, NMOCD Aztec.

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	< 0.000567 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.008504
TPH	EPA SW-846 8015M	100	< 9.173 mg/kg
Chlorides	EPA 9056A	250 or background	67.2 mg/kg

- 8. If Enduring or the division determines that a release has occurred, Enduring will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.
  - No Release has occurred at this location
- 9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, Enduring will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.

  The site has been backfilled, and will be recontoured and revegetated upon P&A of the wellsite.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally.

  The notification will include the following:
  - i. Operator's name
  - ii. Well Name and API Number
  - iii. Location by Unit Letter, Section, Township, and Range

Notification was provided to Mr. Cory Smith with the Aztec office of the OCD via email on February 5, 2018; see attached email printout.

The surface owner shall be notified of Enduring's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.

The BLM was notified on February 5, 2018 via email; see attached email printout.

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

This site will be recontoured and revegitated once plugging and abandoning activities have been completed. The site will be recontoured to match the above mentioned specifications.

12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The area has been backfilled to match these specifications.

13. Enduring will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) 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. Repeat seeding or planting will be continued until successful vegetative growth occurs.

The site will be re-seeded per the BLM MOU once plugging and abandoning activities have been completed.

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
  - Proof of closure notice to division and surface owner; attached
  - Details on capping and covering, where applicable; per OCD Specifications
  - Confirmation sampling analytical results; attached
  - Disposal facility name(s) and permit number(s); attached
  - Soil backfilling and cover installation; per OCD Specifications
  - Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); pursuant to BLM MOU
  - Photo documentation of the site reclamation. attached



# ANALYTICAL REPORT

February 19, 2018



#### **Enduring Resources**

Sample Delivery Group:

L969531

Samples Received:

02/10/2018

Project Number:

Description:

Pit Tank Closure

Site:

**RINCON UNIT #192E** 

Report To:

James McDaniel

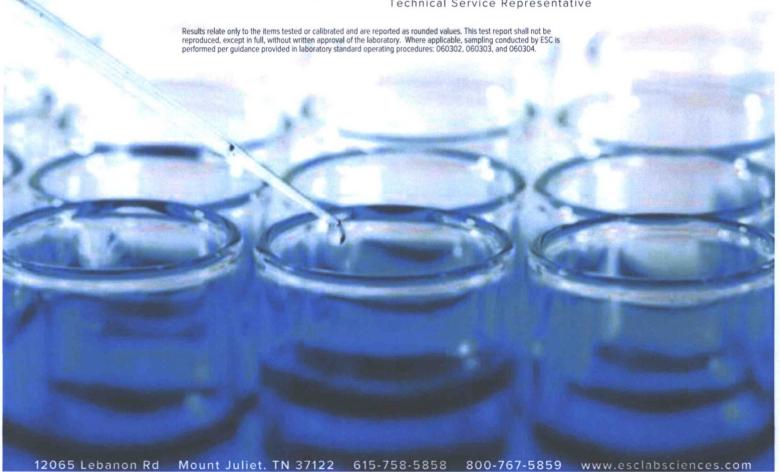
332 County Road 3100

Aztec, NM 87410

Entire Report Reviewed By: Washne R Richards

Daphne Richards

Technical Service Representative



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## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BGT COMPOSITE L969531-01 Solid			James McDaniel	02/08/18 11:15	02/10/18 09:00
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1074040	1	02/16/18 14:44	02/16/18 14:58	JD
Wet Chemistry by Method 9056A	WG1073555	1	02/14/18 15:02	02/14/18 20:15	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1072561	1	02/10/18 22:47	02/11/18 23:22	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1072726	1	02/12/18 07:31	02/12/18 23:17	ACM

























#### CASE NARRATIVE

ONE LAB. NATIONWIDE.

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

°Ss

4Cn

⁵Sr

<sup>6</sup>Qc

<sup>7</sup>GI

8 Al

<sup>9</sup>Sc

Daphne Richards

Technical Service Representative

Japline R Richards

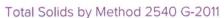
#### **BGT COMPOSITE**

Collected date/time: 02/08/18 11:15

### SAMPLE RESULTS - 01

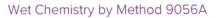
ONE LAB. NATIONWIDE.

1969531



	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.2		1	02/16/2018 14:58	WG1074040





	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	67.2		11.3	1	02/14/2018 20:15	WG1073555



#### Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000567	1	02/11/2018 23:22	WG1072561
Toluene	ND		0.00567	1	02/11/2018 23:22	WG1072561
Ethylbenzene	ND		0.000567	1	02/11/2018 23:22	WG1072561
Total Xylene	ND		0.00170	1	02/11/2018 23:22	WG1072561
TPH (GC/FID) Low Fraction	ND		0.113	1	02/11/2018 23:22	WG1072561
(S) a,a,a-Trifluorotoluene(FID)	104		77.0-120		02/11/2018 23:22	WG1072561
(S) a,a,a-Trifluorotoluene(PID)	103		75.0-128		02/11/2018 23:22	WG1072561



GI

Sc



	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND	<u>J3</u>	4.53	1	02/12/2018 23:17	WG1072726
C28-C40 Oil Range	ND	1 7 1860	4.53	1	02/12/2018 23:17	WG1072726
(S) o-Terphenyl	88.2		18.0-148		02/12/2018 23:17	WG1072726

#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L969531-01

#### Method Blank (MB)

(MB) R3287304-1	02/16/18	14:58	
		MB Result	MB Qualifier

Total Solids by Method 2540 G-2011

ifier MB MDL MB RDL

%

Analyte %
Total Solids 0.001



#### L969528-10 Original Sample (OS) • Duplicate (DUP)

(OS) L969528-10 02/16/18 14:58 • (DUP) R3287304-3 02/16/18 14:58

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.5	91.0	1	1		5

# SS







GI

#### Laboratory Control Sample (LCS)

(LCS) R3287304-2 02/16/18 14:58

(LCS) 1132013042 021	10/10 14.50				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85-115	





#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

#### Method Blank (MB)

(MB) R3286462-1 02/14/18 19:05

Wet Chemistry by Method 9056A

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	3.41	7	0.795	10.0







#### L969529-01 Original Sample (OS) • Duplicate (DUP)

(OS) L969529-01 02/14/18 19:58 • (DUP) R3286462-4 02/14/18 20:07

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	72.0	63.8	1	12		15





#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3286462-2 02/14/18 19:14 • (LCSD) R3286462-3 02/14/18 19:23

()		,								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chloride	200	202	198	101	99	80-120			2	15





#### L969531-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L969531-01 02/14/18 2	20:15 • (MS) R3.	286462-5 02/	14/18 20:24 • (N	15D) R328646.	2-6 02/14/18 2	0:33						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	567	67.2	633	659	100	104	1	80-120			4	15



#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015/8021

L969531-01

#### Method Blank (MB)

(MB) R3285594-5 02/11/	18 19:09				
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	
Benzene	U		0.000120	0.000500	
Toluene	0.000462	ī	0.000150	0.00500	
Ethylbenzene	U		0.000110	0.000500	
Total Xylene	U		0.000460	0.00150	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120	
(S) a,a,a-Trifluorotoluene(PID)	107			75.0-128	



	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%	
Benzene	0.0500	0.0430	0.0437	85.9	87.4	71.0-121	
Toluene	0.0500	0.0454	0.0457	90.7	91.4	72.0-120	
Ethylbenzene	0.0500	0.0462	0.0466	92.4	93.2	76.0-121	
Total Xylene	0.150	0.149	0.149	99.0	99.2	75.0-124	
(S) a,a,a-Trifluorotoluene(FID)				99.0	99.3	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)				102	102	75.0-128	

#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3285594-3 02/11/1	8 18:06 • (LCSE	) R3285594-	4 02/11/18 18:27	7						
	Spike Amount	LCS Result	<b>LCSD Result</b>	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	4.96	5.12	90.2	93.1	70.0-136			3.09	20
(S) a,a,a-Trifluorotoluene(FID)				95.5	95.6	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				110	110	75.0-128				



















LCSD Qualifier RPD

%

1.74

0.674

0.891

0.202

LCS Qualifier

**RPD Limits** 

%

20

20

20

#### QUALITY CONTROL SUMMARY



Volatile Organic Compounds (GC) by Method 8015/8021

L969531-01

#### L969548-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Benzene	0.0602	ND	0.0189	0.0241	30.9	39.6	1	10.0-146			24.4	29	
Toluene	0.0602	ND	0.0195	0.0253	31.3	41.0	1	10.0-143			25.9	30	
Ethylbenzene	0.0602	ND	0.0167	0.0246	27.4	40.4	1	10.0-147		<u>J3</u>	37.9	31	
Total Xylene	0.181	ND	0.0524	0.0768	28.7	42.2	1	10.0-149	<u>J6</u>	<u>J3 J6</u>	37.8	30	
(S) a,a,a-Trifluorotoluene(FID)					99.0	99.5		77.0-120					
(S) a,a,a-Trifluorotoluene(PID)					101	102		75.0-128					

#### L969548-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L969548-01 02/12/1	18 02:35 • (MS) R	3285594-8 0	2/12/18 03:38 •	(MSD) R3285	594-9 02/12/	/18 04:00						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	6.62	ND	1.65	2.03	24.9	30.7	1	10.0-147			20.8	30
(S) a,a,a-Trifluorotoluene(FID)					97.9	97.9		77.0-120				
(S) a a a-Trifluorotoluene(PID)					103	102		75.0-128				















#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L969531-01

Rec. Limits

50.0-150

18.0-148

%

LCS Qualifier

LCSD Qualifier RPD

28.1

J3

#### Method Blank (MB)

Analyte

C10-C28 Diesel Range

(S) o-Terphenyl

(MB) R3285873-1 02/12/18 20:47 MB Result MB Qualifier MB MDL MB RDL Analyte mg/kg mg/kg mg/kg U C10-C28 Diesel Range 1.61 4.00 C28-C40 Oil Range U 0.274 4.00 (S) o-Terphenyl 96.0 18.0-148

(LCS) R3285873-2 02/12/18 21:00 • (LCSD) R3285873-3 02/12/18 21:14

mg/kg

50.0

Spike Amount LCS Result

mg/kg

38.3

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

LCSD Result

mg/kg

50.9

LCS Rec.

%

76.7

83.9

LCSD Rec.

%

102

107

Semi-Volatile Organic Compounds (GC) by Method 8015























**Enduring Resources** 



**RPD Limits** 

20

#### GLOSSARY OF TERMS





#### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Tc

Ss

#### Abbreviations and Definitions

U

Analyte

Dilution

Limits

Sample Results (Sr)

Sample Summary (Ss)

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].									
MDL	Method Detection Limit.									
ND	Not detected at the Reporting Limit (or MDL where applicable).									
RDL	Reported Detection Limit.									
RDL (dry)	Reported Detection Limit.									
Rec.	Recovery.									
RPD	Relative Percent Difference.									
SDG	Sample Delivery Group									



(S)



Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. Not detected at the Reporting Limit (or MDL where applicable).



The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value



different than 1 is used in this field, the result reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or



duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control Original Sample sample. The Original Sample may not be included within the reported SDG.

This column provides a letter and/or number designation that corresponds to additional information concerning the result Qualifier reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect Result or report for this analyte.

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. Case Narrative (Cn)

This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. Quality Control Summary (Qc)

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This Sample Chain of Custody (Sc) chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the

samples from the time of collection until delivery to the laboratory for analysis This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for

each sample will provide the name and method number for the analysis reported. This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description								
J	The identification of the analyte is acceptable; the reported value is an estimate.								
J3	The associated batch QC was outside the established quality control range for precision.								
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.								

#### **ACCREDITATIONS & LOCATIONS**

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

# Ср

Tc

Ss

Cn

Sr

Qc

GI

# State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina 1	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia 1	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
lowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky 1	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee 14	2006
Louisiana	Al30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

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#### Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA - ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA_Crypto	TN00003		

<sup>&</sup>lt;sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold n/a Accreditation not applicable

#### **Our Locations**

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



ACCOUNT: Enduring Resources PROJECT:

SDG: L969531 DATE/TIME: 02/19/18 13:23

PAGE: 12 of 13

			Billing Information:			100			A	Analysis / Container / Preserva				/6			Chain of Custody	Page of
Enduring Resources  332 County Road 3100  Aztec, NM 87410		James McDaniel 332 County Road 3100 Aztec, NM 87410		Pres Chk	رمي	ou!	cool					No. of Contract		site	S.	ESC a substitute of Present		
Report to:  Sames McDaniel  Project Description: Pit Tank Closure Phone: 505-636-9731  Fax:  Client Project #				Email To: ymcdanie Genduring City/State Collected: Rincon/NN Lab Project #													12065 Lebanon Rd Mount Juliet, TN 37 Phone: 613-758-58 Phone: 800-767-58 Fax: 615-758-5859	
																2	- 969 GC	34
James Kc Danie	Rincon Unit #192E P.O.#						280					8					Acctnum: ENI	DRESANM
offected by (speture):  modiately acked on Ice N y	Rush? (L Same Da Noxt Da	ab MUST Be Five 5 Day 10 D	Notified)  Day  (Rad Only)  Date Results Neede		Results Needed	Its Needed No. of	BOIS(DRO/GRO/ORO	BODI (BTEX)	hlerides								Template: Prelogin: TSR: 288 - Dap P8:	hne Richards
Sample iD	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	30	8	5			11					Shipped Via:	Sample # (lub o
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				C. C. C.										- 8		_		
Matrix: 5-Soil AIR - Air F - Filter W - Groundwater B - Bipassay W - Waste Water	Remarks: pH Temp								_	gotti	igned/	le Receipt C resent/Intaci /Accurate: rive intact:						
W - Drinking Water T - Other	Samplas returned via:UPS					110	Correct bottles used:  5ufficient volume seat:  1f Aurylicable  VOA Zero Headspace:									ble Y		
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elinquished by : (Signature)	100	Date:	7	lime:	Received for lab by	(Signa	ture)		. /	Date	16	Tin	P/12	N	Hold:			Condition NCF /

#### **James McDaniel**

From:

James McDaniel

Sent:

Monday, February 05, 2018 8:57 AM

To:

'cory.smith@state.nm.us'; 'Vanessa.Fields@state.nm.us'

Cc:

Sarah Scott (sscott@blm.gov)

Subject:

**BGT Closures** 

#### Hello,

I would like to notify you of BGT closure activities to take place at the Rincon Unit #192E (3003925 D, Section 1, Township 26N, Range 7W, Rio Arriba County, New Mexico. This BGT is being closed dused. The BGT closure activities are scheduled to begin on Thursday, February 8<sup>th</sup> at 11:00 AM. This

James McDaniel
HSE Coordinator
Enduring Resources

CSP #30009 CHMM #15676

Office: 505-636-9731 Cell: 505-444-3004

jmcdaniel@enduringresources.com





Enduring Resources, LLC BGT Closure Report Rincon Unit 192E 30-039-25060

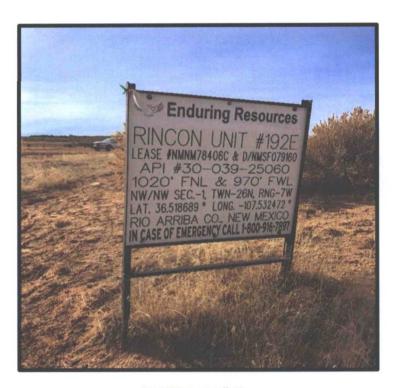


PHOTO 1: Well Sign



Photo 2: BGT Area After Backfill