<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District 3 811 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.

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

Santa Fe, NM 87505

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
ease 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 vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Departor: Enduring Resources, LLC OGRID #: 372286
Address: 332 Road 3100, Aztec, New Mexico 87410
Facility or well name: Cardon COM SWD #1
API Number: <u>30-045-24392</u> OCD Permit Number:
J/L or Qtr/Qtr A Section 27 Township 32N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.962209 Longitude -108.185279 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC Pit: Subsection F, G or J of 19.15.17.11 NMAC Permanent Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid Low Chlor
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Encing: 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

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 acce	ptable 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							
Construction is less than 50 foot below the bettern of a Tourness with normal set on Multi-Wall Florid Management with	☐ Yes ☐ No							
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	□ 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)	☐ Yes ☐ No							
- 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							
 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).	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								
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No							
 application. 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 No Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct 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 Design Plan - based upon the appropriate requirements of 19.15.17.10 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 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	nments are NMAC 5.17.9 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 doct 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 19.1 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:	15.17.9 NMAC

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
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 H₂S, 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 F 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	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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	
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ 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 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

- 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 	
Within a 100-year floodplain FEMA map	☐ Yes ☐ No ☐ 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 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. 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 Site Reclamation 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 believe to the best of my knowledge.	ief.
Name (Print): Title:	
Signature: Date:	
e- address: Telephone:	
e- address:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: 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.
OCD Approval: Permit Application (including closure plan) occur plan (only) OCD Conditions (see attachment) Approval Date: Title: OCD Permit Number: 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. Closure Completion Date: 6/7/2018	the closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: 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.	g 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 Supervisor
Signature:	Date:
e-mail address: jmcdaniel@enduringresources.com	Telephone:505-636-9731

Enduring Resources, LLC Below Grade Tank Closure Report

Lease Name: Cardon COM SWD #1

API No.: 30-045-24392

Description: Unit A, Section 27, Township 32N, Range 13W, San Juan 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 June 7, 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 June 7, 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.

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.

6. 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).

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	<0.1 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.1 mg/kg
TPH	EPA SW-846 8015M	100	< 95 mg/kg
Chlorides	EPA 9056A	250 or background	45.3 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 leak has been confirmed for 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 Vanessa Fields on June 7, 2018 via email and phone call. Arrangements were made over the phone for Ms. Fields to witness the sampling on June 7, 2018.

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.

Enduring Resources is the surface owner of this property, as such, notification was not required.

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 surface owner specifications 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; division notice 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 surface owner specifications upon P&A
 - Photo documentation of the site reclamation. attached



From: Mitch Morris

Sent: Thursday, June 07, 2018 9:10 AM

To: 'cory.smith@state.nm.us' <cory.smith@state.nm.us' <Vanessa.Fields@state.nm.us' <Vanessa.Fields@state.nm.us'

Cc: James McDaniel < JMcDaniel @enduringresources.com>

Subject: Closure Plan - Cardon COM SWD #1, BGT #2

Cory/Vanessa,

Attached is the Closure Plan for BGT #2 at the Cardon COM SWD #1 location. Enduring Resources, LLC is the surface owner of this location.

Coordinates:

36.96210 -108.1853

I would like to obtain verification samples for this closure, would one of you be able to meet me on-site? Please let me know your availability to witness this sampling.

Thanks,

Mitch Morris Air Compliance Specialist Enduring Resources (505) 636-9748

MMorris@enduringresources.com

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised April 3, 2017

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

			Rele	ease Notific	catio	n and Co	orrective A	ction	1			
						OPERA	ГOR			al Report	\boxtimes	Final Report
Name of Co	mpany: E	nduring Re	sources,	LLC		Contact: Ja	mes McDaniel					
		100, Aztec, I				Telephone 1	No.: 505-636-97	31				
		on COM SW					e: Injection Wo		VD)			
Surface Ow	ner: FEE			Mineral C)wner	FEE			API No	. 30-045-2	4392	
Surface O II	ner. TEE					N OF RE	LEASE		7117110		1072	
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	West Line	County		
A	27	32N	13W	1120	100000000000000000000000000000000000000	NORTH	1050	000000000000000000000000000000000000000	CAST	San Juan		
		Lati	tude	36.962209	_ Lor	ngitude	-108.185279		NAD83			
				NAT	URE	OF REL	EASE					
Type of Rele							Release: NONE			Recovered: I		
Source of Re							Iour of Occurrence	e: NA	Date and	Hour of Dis	covery:	NA
Was Immedia	ate Notice (Yes [No Not Re	equired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Was a Water	course Read		Yes [] No		If YES, Vo	olume Impacting t	the Wat	ercourse.			
If a Watercon	irse was Im	pacted, Descr	ibe Fully	*								
ii a watereet	nse was m	paetea, Beser	ioe r uny.					• •	N	MOCD	-	
		em and Reme		n Taken.*					JUL	3 1 2010	}	
No release w	as continu	led for this to	cation.						DISTR	ICT II	1	
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*								
No release h	as been coi	nfirmed for t	his locatio	on. No further ac	ction is	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.												
Signature:	M	1	/				OIL CON	SERV	ATION	DIVISIO	<u>N</u>	
Printed Name	e: James M	cDaniel				Approved by	Environmental S	pecialis	t:			
Title: HSE S	upervisor					Approval Da	e:		Expiration 1	Date:		
E-mail Addre	ess: jmcda n	niel@endurin	gresource	es.com		Conditions of	Approval:			Attached		
Date: 7/31	/2018		Phone	: 505-636-9731								

^{*} Attach Additional Sheets If Necessary



Analytical Report

Report Summary

Client: Enduring Resources, LLC
Chain Of Custody Number:

Samples Received: 6/7/2018 3:55:00PM

Job Number: 17065-0017 Work Order: P806019

Project Name/Location: Cardon Com #1 BGT #2

Report Reviewed By:	Wallet Hinkman	Date:	6/15/18		
	Walter Hinchman, Laboratory Director				
	Tim Cain, Project Manager	Date:	6/15/18		



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.



Project Name:

Cardon Com #1 BGT #2

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 James McDaniel Reported:

15-Jun-18 16:45

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cardon Com SWD #1 BGT #2	P806019-01A	Soil	06/07/18	06/07/18	Glass Jar, 4 oz.



Project Name:

Cardon Com #1 BGT #2

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 James McDaniel Reported: 15-Jun-18 16:45

Cardon Com SWD #1 BGT #2 P806019-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021			D2404481MD044A2000011M42011	************************					
Benzene	ND	100	ug/kg	1	1824016	06/13/18	06/14/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1824016	06/13/18	06/14/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1824016	06/13/18	06/14/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1824016	06/13/18	06/14/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1824016	06/13/18	06/14/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1824016	06/13/18	06/14/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1824016	06/13/18	06/14/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	50-	150	1824016	06/13/18	06/14/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1824016	06/13/18	06/14/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1823022	06/08/18	06/08/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1823022	06/08/18	06/08/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-	150	1824016	06/13/18	06/14/18	EPA 8015D	
Surrogate: n-Nonane		115 %	50-	200	1823022	06/08/18	06/08/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	45.3	20.0	mg/kg	1	1823019	06/08/18	06/08/18	EPA 300.0/9056A	



Project Name:

Cardon Com #1 BGT #2

511 16th Street, Suite 700 Denver CO, 80202

Project Number: Project Manager:

Reporting

17065-0017 James McDaniel Reported:

RPD

%REC

15-Jun-18 16:45

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		PORCE		KLD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1824016 - Purge and Trap EPA 5030A										
Blank (1824016-BLK1)				Prepared &	Analyzed:	12-Jun-18				
Benzene	ND	100	ug/kg							
Toluene	ND	100	**							
Ethylbenzene	ND	100	**							
o,m-Xylene	ND	200	**							
o-Xylene	ND	100	**							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	**							
Surrogate: 4-Bromochlorobenzene-PID	8400		"	8000		105	50-150			
LCS (1824016-BS1)				Prepared &	Analyzed:	12-Jun-18				
Benzene	4500	100	ug/kg	5000		90.0	70-130			
Toluene	4460	100	"	5000		89.2	70-130			
Ethylbenzene	4490	100	"	5000		89.8	70-130			
p,m-Xylene	9000	200	"	10000		90.1	70-130			
o-Xylene	4460	100	"	5000		89.1	70-130			
Total Xylenes	13500	100	**	15000		89.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8480		"	8000		106	50-150			
Matrix Spike (1824016-MS1)	Sou	ırce: P806028-	01	Prepared &	Prepared & Analyzed: 12-Jun-18					
Benzene	4680	100	ug/kg	5000	ND	93.6	54.3-133			
Toluene	4630	100	**	5000	ND	92.7	61.4-130			
Ethylbenzene	4650	100	"	5000	ND	93.0	61.4-133			
p,m-Xylene	9300	200	**	10000	ND	93.0	63.3-131			
o-Xylene	4580	100	**	5000	ND	91.6	63.3-131			
Total Xylenes	13900	100	17	15000	ND	92.5	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8580		**	8000		107	50-150			
Matrix Spike Dup (1824016-MSD1)	Sou	ırce: P806028-	01	Prepared:	12-Jun-18	Analyzed:	13-Jun-18			
Benzene	4810	100	ug/kg	5000	ND	96.3	54.3-133	2.78	20	
Toluene	4760	100	19	5000	ND	95.3	61.4-130	2.78	20	
Ethylbenzene	4800	100	**	5000	ND	96.0	61.4-133	3.19	20	
p.m-Xylene	9590	200	4	00001	ND	95.9	63.3-131	3.12	20	
o-Xylene	4730	100	19-	5000	ND	94.7	63.3-131	3.28	20	

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100

14300

8570

Surrogate: 4-Bromochlorobenzene-PID

Total Xylenes

15000

8000

ND

95.5

63.3-131

50-150

20

3.17



Project Name:

Cardon Com #1 BGT #2

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 James McDaniel Reported: 15-Jun-18 16:45

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 1823022 - DRO Extraction EPA 3570											
Blank (1823022-BLK1)				Prepared &	Analyzed:	08-Jun-18					
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg								
Oil Range Organics (C28-C40+)	ND	50.0	**								
Surrogate: n-Nonane	57.7		"	50.0		115	50-200				
LCS (1823022-BS1)	Prepared & Analyzed: 08-Jun-18										
Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500		92.7	38-132				
Surrogate: n-Nonane	58.7		"	50.0		117	50-200				
Matrix Spike (1823022-MS1)	Source: P806021-01			Prepared &	& Analyzed:	08-Jun-18					
Diesel Range Organics (C10-C28)	732	25.0	mg/kg	500	281	90.3	38-132				
Surrogate: n-Nonane	62.6		"	50.0		125	50-200				
Matrix Spike Dup (1823022-MSD1)	Sour	ce: P806021-	01	Prepared &	k Analyzed:	08-Jun-18					
Diesel Range Organics (C10-C28)	769	25.0	mg/kg	500	281	97.6	38-132	4.91	20		
Surrogate: n-Nonane	62.0		"	50.0		124	50-200				



Project Name:

Cardon Com #1 BGT #2

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 James McDaniel Reported: 15-Jun-18 16:45

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		WKEC.		RPD		
Analyte	Result	Limit Units		Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 1824016 - Purge and Trap EPA 5030.	A							************************			
Blank (1824016-BLK1)				Prepared &	& Analyzed:	12-Jun-18					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg								
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		"	8.00		103	50-150				
LCS (1824016-BS2)				Prepared &	& Analyzed:	12-Jun-18					
Gasoline Range Organics (C6-C10)	45.9	20.0	mg/kg	50.0		91.9	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		"	8.00		101	50-150				
Matrix Spike (1824016-MS2)	Sour	ce: P806028-	01	Prepared:	12-Jun-18	Analyzed: 1	3-Jun-18				
Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0	ND	93.7	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.38		"	8.00		105	50-150				
Matrix Spike Dup (1824016-MSD2)	Sour	ce: P806028-	01	Prepared:	12-Jun-18	Analyzed: 1	3-Jun-18				
Gasoline Range Organics (C6-C10)	49.4	20.0	mg/kg	50.0	ND	98.9	70-130	5.42	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.23		"	8.00		103	50-150				



Project Name:

Cardon Com #1 BGT #2

511 16th Street, Suite 700

Denver CO, 80202

Project Number:

17065-0017

Reported:

Project Manager:

James McDaniel

15-Jun-18 16:45

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes				
Batch 1823019 - Anion Extraction EPA 30	00.0/9056A													
Blank (1823019-BLK1)				Prepared &	Analyzed:	07-Jun-18								
Chloride	ND	20.0	mg/kg											
LCS (1823019-BS1)				Prepared: 0	7-Jun-18	-Jun-18 Analyzed: 08-Jun-18								
Chloride	255	20.0	mg/kg	250		102	90-110							
Matrix Spike (1823019-MS1)	Sour	ce: P806014-	01	Prepared: 0	7-Jun-18	Analyzed: 0	8-Jun-18							
Chloride	269	20.0	mg/kg	250	ND	108	80-120							
Matrix Spike Dup (1823019-MSD1)	Sour	ce: P806014-	01	Prepared: 0	7-Jun-18 A	Analyzed: 0	8-Jun-18							
Chloride	268	20.0	mg/kg	250	ND	107	80-120	0.238	20					



Project Name:

Cardon Com #1 BGT #2

511 16th Street, Suite 700 Denver CO, 80202 Project Number: Project Manager: 17065-0017 James McDaniel Reported: 15-Jun-18 16:45

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

非非

Methods marked with ** are non-accredited methods.

Project Information Client: English Resources Project: Cardel Com# B6T # 2						Chain of Custody									Page of							
						Report Attention Report due by:				Lab Use Only							TAT			EPA Program		
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City, State, Zip Azta, NN 87410 Phone: 1505) 444-3004					Pho	City, State, Zip Aztc, NN 874/8 Phone: Ses 444-364				801	_			0						V		
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1	-	wi-	-	201	boratory with	this COC. The liabil	ity of the laboraotry	is limited to the	e amo	unt oa	aid for	on the	report									
				ech		5796 US Highway 64, Farmington, AW 874Q1				Ph (505) 632-0605 Fa (505)					05)622-	1865			envirotech-inc.			
Analytical Laboratory					У	Three Springs + 65 Mercado Sireer, Suite 1955, Durangs					rango, (0.81301) Ph (970) 259-0615 Fr (800) 36									laborate	ry Jenviotech-Inc.	

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 Supervisor

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



Enduring Resources, LLC BGT Closure Report Cardon COM SWD #1 30-045-24392

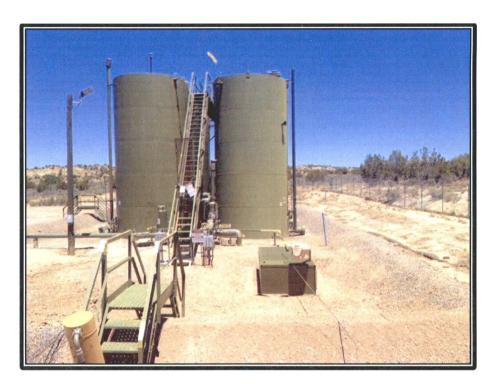


PHOTO 1: BGT Area after set of new Above Grade Tank

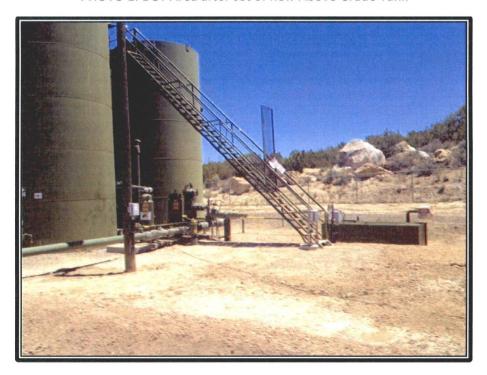


PHOTO 2: BGT Area after set of new Above Grade Tank