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

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.

This want to find the second state of the seco				
16394		Pit, Below-Grade	Tank, or	
	Proposed Alternati	ve Method Permit o	or Closure Plan A	pplication
	Closure of a Modification	it or proposed alternative m pit, below-grade tank, or pr to an existing permit/or reg	oposed alternative methoristration	od mitted pit, below-grade tank,
	Instructions: Please submit one appli	ication (Form C-144) per indi	vidual pit, below-grade tai	nk or alternative request
environment. Nor	hat approval of this request does not relieve does approval relieve the operator of its res	e the operator of liability should sponsibility to comply with any o	operations result in pollution other applicable government	n of surface water, ground water or the al authority's rules, regulations or ordinances.
1. Operator: Endu	ring Resources, LLC		OGRID #: 372286	NNOCD
-	Road 3100, Aztec, New Mexico 87410			NMUGU
				JUN 1 4 2018
U/L or Qtr/Qtr	<u>30-045-28792</u> <u>H</u> Section <u>3</u> T	Township <u>31N</u> Range	13W County:	<u>San Juan</u>
	sed Design: Latitude <u>36.931454</u>			
Surface Owner:	🗌 Federal 🗌 State 🔀 Private 🗌 Triba	l Trust or Indian Allotment		
2.				
Pit: Subsec	ction F, G or J of 19.15.17.11 NMAC			
Temporary:	Drilling 🗌 Workover			
	Emergency Cavitation P&A			
	nlined Liner type: Thickness	mil 🗌 LLDPE 🗌 HDPH	E PVC Other	
String-Reinfo				
Liner Seams:	Welded Factory Other	Volume	e:bbl Dimens	sions: L x W x D
3.	e tank: Subsection I of 19.15.17.11 NM	AAC		
Volume: 95				
	on material: Steel			
	containment with leak detection Visi		and automatic overflow sh	nut-off
	walls and liner 🗌 Visible sidewalls on			
	ckness mil 🗌 H			
4.				
Alternative]	Method:			
Submittal of an e	exception request is required. Exception	as must be submitted to the San	nta Fe Environmental Bure	au office for consideration of approval.
5.				
	ction D of 19.15.17.11 NMAC (Applies)		-	
institution or chi	ix feet in height, two strands of barbed w <i>urch</i>)	are at top (Required if located	within 1000 feet of a perma	anent residence, school, hospital,
Four foot hei	ght, four strands of barbed wire evenly s	paced between one and four fe	et	
Alternate. Pl	ease specify			
				(61)
	Form C-144	Oil Conservation Divi	sion	Page Loff (AO/

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)

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

Variances and Exceptions:

7

8

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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting	
<u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u> - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	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	☐ Yes ☐ No ☐ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) of the proposed site	Yes No

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No			
Temporary Pit Non-low chloride drilling fluid				
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No			
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes 🗌 No			
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
Permanent Pit or Multi-Well Fluid Management Pit				
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No			
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - 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 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:				
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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. 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 attached. □ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC	documents are			
 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 19.15.17.11 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 				
 Function of Mathematical Society, increasing frag, increasing				
^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>				
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			
14. 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	attached to the			
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC <i>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. F 19.15.17.10 NMAC for guidance.</i>				
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 □ NA			
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ 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 🗌				
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				

	🗌 Yes 🗌 No				
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No				
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No				
Within a 100-year floodplain. - FEMA map	Yes No				
·					
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 					
17. Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.				
Name (Print): Title:					
Signature: Date:					
e-mail address: Telephone:					
e-mail address: Telephone: OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Title: From it ownew for OCD Permit Number:	18 1B				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (out) POCD Conditions (see attachment) OCD Representative Signature:	18/18				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (out) OCD Conditions (see attachment) OCD Representative Signature:	the closure report.				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (out) OCD Conditions (see attachment) OCD Representative Signature:	the closure report.				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (out) OCD Conditions (see attachment) OCD Representative Signature:	the closure report.				

22. Operator Closure Certification:

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

Name (Print): James McDaniel	Title: <u>HSE Supervisor</u>
Signature:	Date: <u>6/13/2018</u>
e-mail address: imcdaniel@enduringresources.com	Telephone: <u>505-636-9731</u>

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

Oil Conservation Division

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

District IV 1220 S. St. Fran	cis Dr., Sant	a Fe, NM 8750	5			n St. Franc e, NM 875					
414 5012 501			Rele	ease Notific				ction			
						OPERA	ГOR		Initia	al Report	Final Repor
Name of Co	ompany: E	nduring Re	sources,	LLC		Contact: Ja	mes McDaniel				
Address: 33	2 Road 3	100, Aztec,	New Mex	tico 87410		Telephone	No.: 505-636-97	/31			
Facility Nat	me: Alber	ding 3-2				Facility Typ	e: Well Site (G	as)			
Surface Ow	mer: FEE			Mineral O	wner:	: FEE API No. 30-045-2			. 30-045-287	92	
				LOCA	TIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	Vest Line	County	
Н	3	31N	13W	1689	N	ORTH	790	E	AST	San Juan	
		Lat	ituda	26 021454	Lon	aituda	109 194225	1	NAD83		
		Lat	itude	36.931454		gitude	-108.184225		NAD83		
Type of Rele	ase NONE	7		NAT	URE	OF REL	EASE Release: NONE		Volume I	Recovered: NA	
Source of Re		<u> </u>					Hour of Occurrence	e: NA		Hour of Disco	
Was Immedi						If YES, To			2 417 4114	110 01 01 0 10 00	
			Yes	No 🛛 Not Re	equired						
By Whom?						Date and I					
Was a Water	course Rea		Yes] No		If YES, V	olume Impacting	the Wate	ercourse.		
If a Waterco	urce wee In	pacted, Desci									
II a watereo	urse was m	ipacted, Deser	noe i uny.								
Describe Cau	ise of Prob	em and Reme	dial Actio	n Taken.*							
		ed for this lo									
Describe Are	a Affected	and Cleanup	Action Tal	ken.*							
		-		on. No further ac	tion is	required.					
I hereby cert	ify that the	information g	iven above	e is true and compl	lete to t	he best of my	knowledge and u	Indersta	nd that purs	suant to NMOC	CD rules and
regulations a	ll operators	are required t	to report a	nd/or file certain re	elease n	otifications a	nd perform correct	ctive act	ions for rel	eases which ma	ay endanger
				ce of a C-141 repo investigate and re							
				otance of a C-141 r							
		ws and/or reg			report d	ioes not rene	e the operator of	respons	ionity for c	omphanee wh	in any other
	11	$\left(\right)$	1				OIL CON	SERV	ATION	DIVISION	1
Signature:	1/1	0	>								
		La Damial	/			Approved by Environmental Specialist:					
Printed Nam	e. James N										
Title: HSE S	upervisor					Approval Da	te:		Expiration	Date:	
E-mail Addr	ess: jmcdai	niel@endurin	gresource	es.com		Conditions o	f Approval:			Atto-h-J [-
Date: 6/13	/2019		DI	EDE (2(0521						Attached	
Date: 0/13	12010		rnone	: 505-636-9731						1	

* Attach Additional Sheets If Necessary

Enduring Resources, LLC Below Grade Tank Closure Report

Lease Name: Alberding 3-2 API No.: 30-045-28792 Description: Unit H, Section 3, Township 31N, 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

- 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 May 8, 2018
- 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 May 8, 2018
- 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.

- 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 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	0.000594 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	0.000594 mg/kg
TPH	EPA SW-846 8015M	100	< 9.193 mg/kg
Chlorides	EPA 9056A	250 or background	123 mg/kg

- 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.
- 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 May 4, 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.

Due to an oversight, the private surface owner was not notified prior to the closure of this BGT. Enduring will work to ensure that this type of notification oversight does not occur again in the future.

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 divisionapproved 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

James McDaniel

From:	James McDaniel
Sent:	Friday, May 04, 2018 6:25 PM
То:	Cory.Smith@state.nm.us; Vanessa.Fields@state.nm.us
Cc:	Jacob Ellis; Kyle Walter
Subject:	BGT Closure

Please accept this email as the required notification for BGT closure activities at the Alberding 3-2 wellsite, api 30-045-28792, section 3, township 31N, Range 13W, Jan Juan County, NM. Closure activities are scheduled to occur at 10 AM on Tuesday, May 8th.

James McDaniel HSE Supervisor Enduring Resources CSP #30009 CHMM #15676 Office: 505-636-9731 Cell: 505-444-3004 jmcdaniel@enduringresources.com



ANALYTICAL REPORT

L993283

May 17, 2018



Enduring Resources

Sample Delivery Group:
Samples Received:
Project Number:
Description:
Site:
Report To:

05/11/2018 **BGT** Closure ALBERDING James McDaniel 332 County Road 3100 Aztec, NM 87410

Entire Report Reviewed By: Napline & Richards

Daphne Richards Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

BGT CLOSURE COMP L993283-01 Soliid			Collected by James McDaniel	Collected date/time 05/08/18 12:00	Received date/time 05/111/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1112288	1	05/16/18 16:56	05/16/18 17:00	KS
Wet Chemistry by Method 9056A	WG1111615	1	05/15/18 15:41	05/15/18 20:52	NJM
Volatile Organic Compounds (GC) by Method 8015/8021	WG1110907	1	05/12/18 08:50	05/13/18 22:47	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1111756	1	05/15/18 15:41	05/15/18 20:52	MTJ



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CASE NARRATIVE

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 would affect the quality of the data.

Vaplime R Richards

Daphne Richards Technical Service Representative

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BGT CLOSURE COMP Collected date/time: 05/08/18 12:00

SAMPLE RESULTS - 01 L993283

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	_
Analyte	%			date / time		
Total Solids	88.2		1	05/16/2018 17:00	WG1112288	

Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	123		11.3	1	05/15/2018 20:52	WG1111615

Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.000594		0.000567	1	05/13/2018 22:47	WG1110907
Toluene	ND		0.00567	1	05/13/2018 22:47	WG1110907
Ethylbenzene	ND		0.000567	1	05/13/2018 22:47	WG1110907
Total Xylene	ND		0.00170	1	05/13/2018 22:47	WG1110907
TPH (GC/FID) Low Fraction	ND		0.113	1	05/13/2018 22:47	WG1110907
(S) a,a,a-Trifluorotoluene(FID)	100		77.0-120		05/13/2018 22:47	WG1110907
(S) a,a,a-Trifluorotoluene(PID)	104		75.0-128		05/13/2018 22:47	WG1110907

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.54	1	05/15/2018 20:52	WG1111756
C28-C40 Oil Range	ND		4.54	1	05/15/2018 20:52	WG1111756
(S) o-Terphenyl	122		18.0-148		05/15/2018 20:52	WG1111756

DATE/TIME:

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3310670-1 C)5/16/18 17:00			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L993292-01 Original Sample (OS) • Duplicate (DUP)

(OS) L993292-01 (05/16/18 17:00 • (DUP) F	23310670-3	05/16/18 17:	00		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.6	86.5	1	1.04		5

Laboratory Control Sample (LCS)

(LCS) R3310670-2 (05/16/18 17:00				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

²Tc ³Ss ⁴Cn

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⁸ Al
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ACCOUNT: Enduring Resources

PROJECT:

SDG: L993283 DATE/TIME: 05/17/18 11:20 PAGE: 6 of 13

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

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Method Blank (MB)

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(MR)	R3310132-1	05/15/18 19.0	11

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

L993256-12 Original Sample (OS) • Duplicate (DUP)

(OS) L993256-12 05/15/18 20:00 • (DUP) R3310132-6 05/15/18 20:09									
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	mg/kg	mg/kg		%		%			
Chloride	59.6	65.6	1	9.47		15			

L993256-13 Original Sample (OS) • Duplicate (DUP)

(OS) L993256-13 05/15	/18 22:34 • (DUP)	R3310132-7 ()5/15/18 22	2:42		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	61.3	65.1	1	6.01		15

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

(LCS) R3310132-2 05/15/18	8 19:09 • (LCSD) R3310132-3	05/15/18 19:18							
	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	209	211	104	105	80.0-120			0.983	15

L993256-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L993256-11 05/15/18	19:35 • (MS) R3	310132-4 05/15	5/18 19:43 • (M	SD) R3310132-5	5 05/15/18 19:5	2						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	65.2	621	602	111	107	1	80.0-120			3.17	15



Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3309425-5 05/13/	18 20:41				
Analyte	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	U		0.000120	0.000500	
Toluene	0.000419	7	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)	100			77.0-120	
(S) a,a,a-Trifluorotoluene(PID)	104			75.0-128	

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

(LCS) R3309425-1 05/13/18	8 18:56 • (LCSD) R3309425-2	05/13/18 19:17							
	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	%	%	%			%	%
Benzene	0.0500	0.0494	0.0499	98.9	99.9	71.0-121			1.00	20
Toluene	0.0500	0.0490	0.0493	97.9	98.5	72.0-120			0.595	20
Ethylbenzene	0.0500	0.0537	0.0542	107	108	76.0-121			0.831	20
Total Xylene	0.150	0.163	0.164	108	109	75.0-124			0.919	20
(S) a,a,a-Trifluorotoluene(FID)				99.4	99.6	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				104	104	75.0-128				

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

(LCS) R3309425-3 05/13	/18 19:38 • (LCSI	D) R3309425-	4 05/13/18 19:5	9							
	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	%	%	%			%	%	
TPH (GC/FID) Low Fraction	5.50	5.10	5.05	92.8	91.8	70.0-136			1.07	20	
(S) a,a,a-Trifluorotoluene(FID)				88.4	88.0	77.0-120					
(S) a,a,a-Trifluorotoluene(PID)				114	113	75.0-128					

ACCOUNT:	
Enduring Resources	

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Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

ONE LAB, NATIONWIDE.

L993293-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L993293-04 05/14/1	8 02:59 • (MS)	R3309425-6 0	5/14/18 04:02	2 • (MSD) R3309	9425-7 05/14/	/18 04:23						
	Spike Amount	Original Result	MS Result	MSD Result	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	5.50	ND	1.74	1.93	30.6	34.0	1	10.0-147			9.99	30
(S) a,a,a-Trifluorotoluene(FID)					97.4	97.3		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					105	104		75.0-128				



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ACCOUNT: Enduring Resources



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Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	113			18.0-148

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

(LCS) R3310069-2 05/1	5/18 20:04 • (LCS	D) R3310069	3 05/15/18 20:	16						
	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	%	%	%			%	%
C10-C28 Diesel Range	50.0	35.8	36.5	71.7	73.0	50.0-150			1.80	20
(S) o-Terphenyl				140	142	18.0-148				



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GLOSSARY OF TERMS



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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.

Abbreviations and Definitions

Abbre viations and	
(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.
DG	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.
J	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, 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.
Limits	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.
Driginal Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the resu 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.
Result	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 or report for this analyte.
Case Narrative (Cn)	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.
Quality Control Summary (Qc)	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.
Sample Chain of Custody (Sc)	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 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.
Sample Results (Sr)	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 fo each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	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

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The identification of the analyte is acceptable; the reported value is an estimate.

PROJECT:

SDG: L993283

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 concerning quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico 1	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ¹⁶	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
ouisiana	AI30792	Tennessee 1 4	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater 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.



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			Billing Information:					Analysis / Container / Press									
Enduring Resources		James McDaniel				Pres	s root	(00)	1003								
332 County Road 3100 Aztec, NM 87410		332 County Road 3100 Aztec, NM 87410				Chk	0.		Con							L A B 5.0	11 E - Par Strates
Report to: Dames McDanie Ema Project Description: BGT Closure			Email To: DMC	JMCOANIE (GENOUTCH), CO City/State Collected: La Plata, NM Lab Project # -2			MRO									12065 Lefeviori Rid Meuni Juliet, TH 37122 Phone 615-758 5858 Phone 800 767 5859 Tax: 615 758 5859	
hane 505-636-9731	Chent Project # Site/Facility ID # Alberding 3-2						RO.Y	(BTEX)	X							LI L993283 Ta E135 Acctnum: ENDRESANM Template:	
Sames Madanie							0,0										
nrhediately acked on Ice N Y	Same Da Next Da Two Day	Rush? (Lab MUST Be Notified) Same Day Five Day Next Day S Day (Rad Only) Two Day 10 Day (Rad Only) Three Day			Date Results Needed				oride						Prelogin: TSR: 288 - Daphne Richard PB:		hne Richards
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Contra	8015	800	5							Shipped Via: Remarks	Sample # (lab only)
GT Closure Comp	Comp	SS	-	5/8/10	3 1200	1	×	X	X								-01
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Matrix: i - Soll AIR - Air F - Filter W - Groundwater B - Bloassay W - WasteWater	per every										COC 5 Bottl	Sample Baceint Checklin COC Same Present/Intact:Y COC Signed/Accurate: Bottles arrive intact: Correct bottles used:					
W Drinking Water F Other		amples returned via: _UPSFedExCourier Tracking # 4/1/1					3260 1817						Bufficient volume senti				
		Date: 5/10/	18	Time: 655	Received by: (Signat	Contraction of the local division of the loc	and some second s			Trip Blank Received: Yes / No HCL / MeoH Tak			VCA zero Headspace: Y Preservation Correct/Checked: Y				
Elinquished by : (Signature)		Date:	and the local division of the local division	Time:	Received by: (Signature)					Temp: °C Bottles Received:							
telinquished by : (Signature)		Date:		Time:	Received for lab by:	(Signa	ture)	20		Date: S/11	the restory of the second second second	Time	845	Hold:			Condition NCF / OK

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 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 Alberding 3-2 30-045-28792

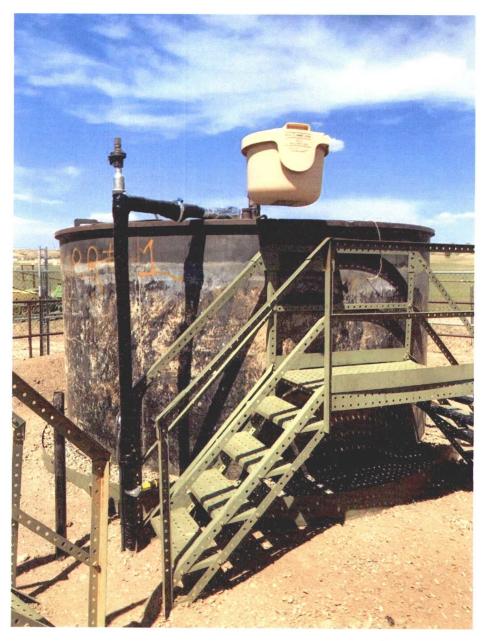


PHOTO 1: BGT Area after set of new Above Grade Tank