District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

		Ī	Pit, Below-Grade	Tank, or		.•
BGT 1	Propo	sed Alternativ	e Method Permit	or Closur	e Plan Applica	tion
16515	Type of action: or proposed alte	Below grade ta Permit of a pit Closure of a pi Modification to Closure plan o	onk registration or proposed alternative t, below-grade tank, or o an existing permit/or only submitted for an ex	e method proposed alter registration isting permitte	rnative method ed or non-permitted p	RCVD Via Email 5/24/19 pCS1914948958 oit, below-grade tank,
lease be advised to			ation (Form C-144) per in the operator of liability shown onsibility to comply with a	11	cult in pollution of surfa	ce water, ground water or the ity's rules, regulations or ordinances.
1. Operator: End	uring Resources, L	LC		OGRIE) #: <u>372286</u>	
Address: 200 I	Energy Court, Fari	mington, New Mexico	87401			
Facility or well	name: <u>NEU 2207</u>	16B Recycling Facilit	y			
API Number: _	NA		OCD Permit Numb	oer: <u>3RF-2</u>	8	
	DIXXIIA DITTIA	Castian 16	Township 22N	Range	W County:	NAD83
Center of Propo	osed Design: Latitud	de <u>36.144262</u>	Los	ngitude	7.576376	NAD83
Surface Owner:	: 🗌 Federal 🛛 Stat	e 🗌 Private 🔲 Tribal	Trust or Indian Allotmen	it		
Temporary: Permanent Lined String Pein	Unlined Liner type	over Cavitation ☐ P&A ☐ e: Thickness] Multi-Well Fluid Mana _mil	IDPE PVC	Other	ling Fluid yes no
Volume:2	otion material: containment with l	Steel eak detection Visible sidewalls on	Produced Water Produced Water ible sidewalls, liner, 6-inculy Other HDPE PVC Other			
4. Alternative Submittal of a	ve Method: nn exception request	is required. Exceptio	ns must be submitted to the	ne Santa Fe Env	ironmental Bureau offi	ce for consideration of approval.
☐ Chain link institution or ☐ Four foot	x, six feet in height, the church) height, four strands	two strands of barbed	spaced between one and f	cated within 10	elow-grade tanks) 00 feet of a permanent i	residence, school, hospital,

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	T ₀₀
Screen Netting Other Closed top tank	
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	
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.	y v
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 acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; ☑ Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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).	☐ Yes ⊠ No
- Topographic map; Visual inspection (certification) of the proposed site Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ 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 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the detatached. □ 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 19.15.17.1 NMAC □ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC □ Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC □ Previously Approved Design (attach copy of design) API Number: or Permit Number:	.9 NMAC 9.15.17.9 NMAC
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	19.15.17.9 NMAC

ermanent 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 doc	cuments are
ttached. 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	
3. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	id Management Pit
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Flu Alternative Proposed Closure Method: Waste Excavation and Removal	id Management 1 it
Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial Alternative Closure Method	
Maste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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	ttached to the
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	ce material are lease refer to
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 ☐ Yes ☐ No
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	□ 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	
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	6.2

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure poly 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 19.15.17.13 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 can 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	7.11 NMAC 9.15.17.11 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 be Name (Print): James McDaniel	elief.
Signature: 505-636-9731	7
e-mail address: <u>jmcdaniel@enduringresources.com</u> Telephone: <u>505-636-9731</u>	
e-mail address: <u>jmcdaniel@enduringresources.com</u> Telephone: <u>505-636-9731</u> 18. OCD Approval: Permit Application (including closure plan)	29/19
e-mail address:imcdaniel@enduringresources.com	29/19
e-mail address: <u>jmcdaniel@enduringresources.com</u> Telephone: <u>505-636-9731</u> 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) Approval Date: 5/2	29/19
e-mail address:imcdaniel@enduringresources.com	ing the closure report.
e-mail address: jmcdaniel@enduringresources.com Telephone:	ing the closure report.
e-mail address: jmcdaniel@enduringresources.com Telephone: 505-636-9731 18. OCD Approval: Mapproval Date: 50CD Approval: Mapproval: Mapproval	ing the closure report. not complete this
Signature:	ing the closure report. not complete this d-loop systems only)
Signature: e-mail address: imcdaniel@enduringresources.com	ing the closure report. not complete this d-loop systems only)
Signature: e-mail address: jmcdaniel@enduringresources.com	ing the closure report. not complete this d-loop systems only)

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 a	is true, accurate and complete to the best of my knowledge and and conditions specified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

Enduring Resources, LLC Below Grade Tank Closure Plan

Lease Name: N Escavada Unit 2207 16B Facility

OCD Num.: 3RF-28

Description: Section 16, Township 22N, Range 7W, Sandoval 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 obtain approval of this closure plan prior to commencing closure of the below grade tank at this location pursuant to 19.15.17.13.C (1) NMAC
- 2. Enduring will notify the surface owner by certified mail, return receipt requested, that the operator plans closure operations at least 72 hours, but no more than one week, prior to any closure operation. Notice will include:
 - a. Well Name
 - b. API
 - c. Well Location
 - *Enduring will notify government agencies by email of closure activities.
- 3. Enduring will notify the NMOCD Aztec Office by email that the operator plans closure operations at least 72 hours, but no more than one week, prior to any closure operation. Notice will include:
 - a. Well Name
 - b. API
 - c. Well Location
- 4. Within 60 days of cessation of operations, Enduring will remove all liquids and sludge from below grade tanks prior to implementing closure activities, and will dispose of the liquids and sludge at a division approved facility. Approved facilities and waste steams include:
 - a. Soils, tank bottoms, produced sands, pit sludge and other exempt wastes impacted by petroleum hydrocarbon will be disposed of at: *Envirotech: Permit #NM01-0011* and *IEI: Permit #NM01-0010B*
 - b. Produced water will be disposed of at: *Basin Disposal: Permit #NM01-005, Agua Moss: Permit #NM-009*, and
 Enduring owned disposal wells.
- 5. Within six (6) months of cessation of operations, 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 district office approves. If there is any equipment associated with a below grade tank,

- then the operator shall remove the equipment, unless the equipment is required for some other purpose.
- 6. Enduring will collect a closure sample of the soil beneath the location of the below grader tank or liner that is being closed. The closure sample will consist of a five-point composite sample to include any obvious stained or wet soils, or other evidence of contamination. The closure sample will be analyzed for all constituents listed in Table I below, including DRO+GRO, chlorides, TPH (C6-C36), benzene and BTEX.

		able I	
Minimum depth below any point within the horizontal boundary of the	Closure Criteria for So Constituent	Dils Impacted by a Release Method*	Limit**
release to ground water less than 10,000 mg/l TDS			
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

- 7. Enduring will close this BGT based on the requirements for groundwater over 100 feet.
- 8. If any contaminant concentration is higher than the parameters listed in Table I above, additional delineation may be required based on review of the results. Enduring will receive division approval prior to proceeding with additional closure activities. If all contaminant concentrations

- are less than, or equal to, the parameters listed in Table I above, the operator can proceed to backfill with non-waste containing, uncontaminated earthen material.
- 9. After closure has occurred, Enduring will reclaim the former BGT area, if it is no longer being utilized for the continued extraction of oil and gas, by substantially restoring the surface area to the condition that existed prior to oil and gas operations. Enduring will construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover materials. The soil cover shall consist of the background thickness of topsoil, or one foot of suitable materials to establish vegetation at the site, whichever is greater. All areas will be reclaimed as early as practicable, and as close to their original condition or land use as possible. They shall be maintained in such a way as to control dust and to minimize erosion.
- 10. Enduring will complete reclamation in accordance with the requirements listed in NMAC 19.15.17.13.H(5).
 - (a) Enduring will reclaim all areas disturbed by the closure below-grade tanks, except areas reasonably needed for production operations or for subsequent drilling operations, shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.
 - **(b)** Enduring will ensure that topsoils and subsoils are replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season following closure of the below-grade tank.
 - (c) Enduring will consider reclamation of disturbed areas no longer in use complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.
 - (d) Re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.
 - (c) The operator shall notify the division when reclamation and re-vegetation are complete
 - Within 60 days of closure of the below-grade tank, Enduring will submit a closure report to the Aztec office of the NMOCD. Closure report will be filed on form C-144 and include the following:
 - Proof of closure notice to division and surface owner;
 - Confirmation sampling analytical results;
 - Soil backfilling and cover installation;
 - Photo documentation of the site reclamation.
 - Alternative Table I groundwater criteria request, groundwater information, and received approval (If Needed)

Enduring Resources, LLC Below Grade Tank General Design and Construction Plan

Lease Name: N Escavada Unit 2207 16B Facility

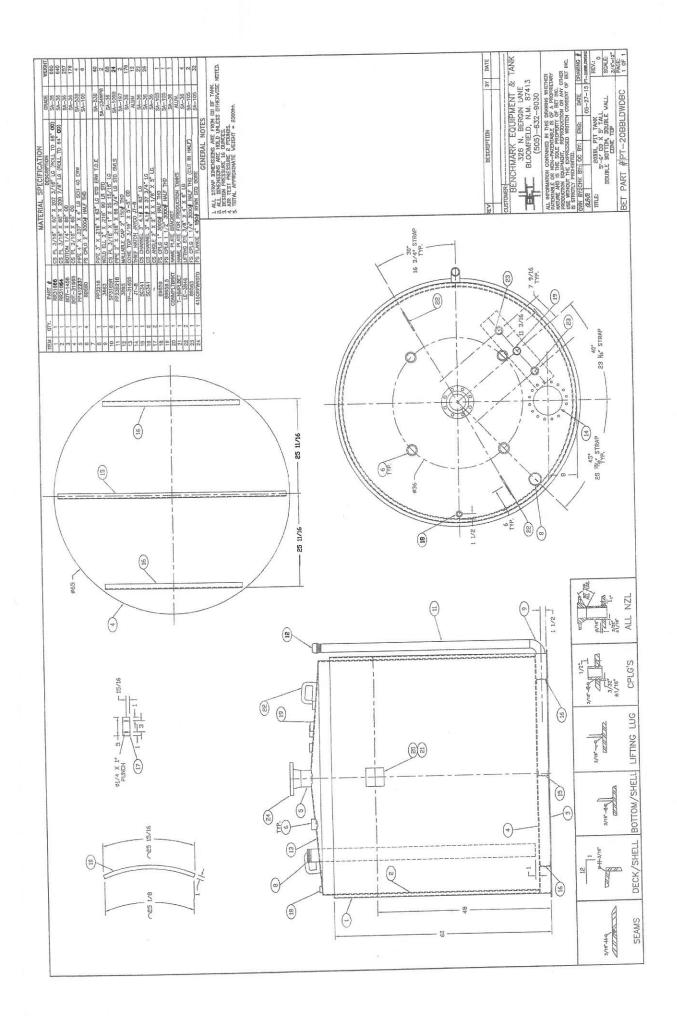
OCD Num.: 3RF-28

Description: Section 16, Township 22N, Range 7W, Sandoval County

In accordance with Rule 19.15.17.12 NMAC the following information describes the design and construction plan for this below grade tank (BGT).

Procedures

- 1. Enduring will design and construct the BGT at this facility to contain liquids and solid, prevent contamination of fresh water, and protect public health and the environment.
- 2. The tank will be a 20 bbl double-walled tank with leak detection capability. The tank will be constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight, and the sidewall of the tank exterior will be buried.
- 3. Enduring will equip the BGT with an automated shut off level control system to prevent overflows.
- 4. The top of the BGT will be at least 6" above ground level to prevent the collection of surface water and run on into the tank.
- 5. Enduring shall construct the BGT with a solid cone top with a hatch to inspect the tank insides.
- 6. The tank will be placed on a foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures or cracks in the tank bottom.
- 7. Enduring will post a facility sign that meets the criteria listed in 19.15.17.11.C NMAC.
- 8. Enduring is requesting approval of alternative fencing to be used around the below grade tank. This location has an existing 8' fence around the location, which will provide adequate protection to livestock and wildlife from the below grade tank. No specific fencing will be utilized for this below grade tank.



Enduring Resources, LLC Below Grade Tank Operations and Maintenance Plan

Lease Name: N Escavada Unit 2207 16B Facility

OCD Num.: 3RF-28

Description: Section 16, Township 22N, Range 7W, Sandoval County

In accordance with Rule 19.15.17.12 NMAC the following information describes the operations and maintenance requirements of below-grade tanks on Enduring Resources, LLC. (Enduring) locations. This is Enduring's standard procedure for all below-grade tanks.

Procedures

- 1. Enduring will operate below grade tanks in such a way as to contain liquids, and maintain the integrity of the secondary containment system. Enduring will operate the below grade tank in such a way as to prevent the contamination of freshwater, and protect public health and the environment.
- 2. Enduring will not discharge into or store any hazardous waste into a below grade tank.
- 3. In the event of a leak in the below grade tank, Enduring will:
 - a. Remove all liquids above the leak within 48 hours
 - b. Notify the Aztec Office of the NMOCD of the leak within 48 hours
 - c. Repair the leak, or replace the below grade tank, as necessary
- 4. All below grade tanks will be installed and operated in such a way as to prevent surface water run-on or collection.
- 5. Enduring will remove any measurable layer of oil from the fluid surface of a below grade tank as soon as practicable.
- 6. Enduring will inspect the below grade tank for leaks and damage at least monthly, documenting the inspections, and maintaining a record of inspection for five (5) years. The leak detection space in double walled tanks will be checked during this monthly inspection
- 7. Enduring will operate the below grade tank in such a way as to maintain adequate freeboard to prevent over topping of the below grade tank. Adequate freeboard will be considered 12" from the top of the tank.
- 8. In the event the below grade tank no longer demonstrates integrity, Enduring will close the below grade tank in accordance with the closure plan submitted with this registration.

Enduring Resources, LLC

Site Specific Hydrogeological Report

N Escavada Unit 2207 16B

BGT Location

The below grade tank is located in Sandoval County, New Mexico. The site the BGT will be located at is located in the southern portion of the San Juan Basin, approximately 8.0 miles South-West of Counselor, New Mexico. The elevation of the site the BGT will be located at is approximately 6,917 feet above sea level.

General Regional Groundwater Description

As a portion of the San Juan Basin, the FFO Region is underlain by sandstone aquifers of the Colorado Plateau. The primary aquifer of potential concern at this location is the Uinta-Animas Aquifer, composed primarily of Lower Tertiary rocks in the San Juan Basin. The aquifer consists of the San Jose Formation, the underlying Animas formation and its lateral equivalent, the Nacimiento formation, and the Ojo Alamo Sandstone formation. The thickness of the Uinta-Animas aquifer generally increases towards the central part of the basin. In this region, the maximum thickness of the aquifer is expected to be approximately 3,500 feet. This aquifer contains fresh to moderately saline water.

Groundwater generally flows towards the San Juan Rover and its tributaries, where is becomes alluvial groundwater or is discharged to stream flow.

Site Specific Information

This facility sits on a mesa with surface flow generally running to the east by south-east from the location. Surface flow drains into an unnamed ephemeral drainage feature, which drains into a dammed pond area after approximately 1.5 miles. Surface water then flows from the dammed pond area to another unnamed ephemeral wash. The first water wearing formation in this area is expected to be the San Jose formation, which overlays the Nacimiento formation. Based on available groundwater information in the area, groundwater is expected to be over 200 feet below ground surface, based on a cathodic ground bed that was drilled at the N Escavada Unit 329H Wellsite in 2016. The elevation of the ground bed log is approximately 6953' with a groundwater depth of 340'. The N Escavada Unit 2207 16B has an elevation of 6,917', which is a decrease of 36 feet. This establishes a depth to groundwater greater than 100 feet below the bottom of the BGT.

References

Allen, Erin. Undated. Colorado Plateau Aquifers

New Mexico Office of the State Engineer, iWaters Database

United States Geological Survey. 1995. Groundwater Atlas of the United States. HA 730-C

Google Earth



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (NAD83 UTM in meters) (quarters are smallest to largest)

No records found.

PLSS Search:

Section(s): 16

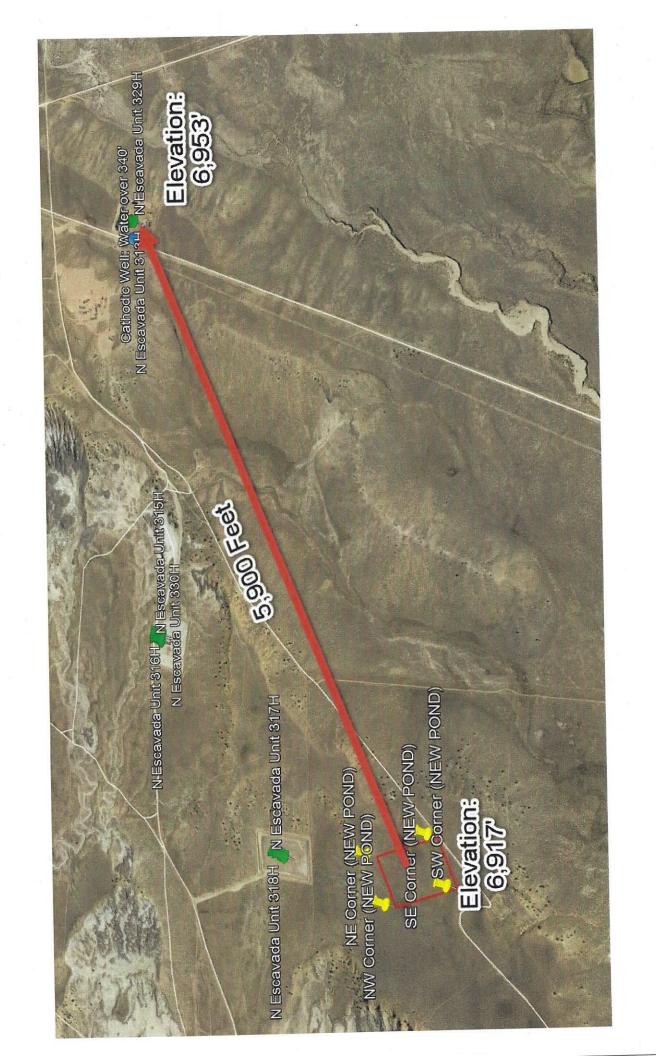
Township: 22N

Range: 07W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/20/18 5:38 AM

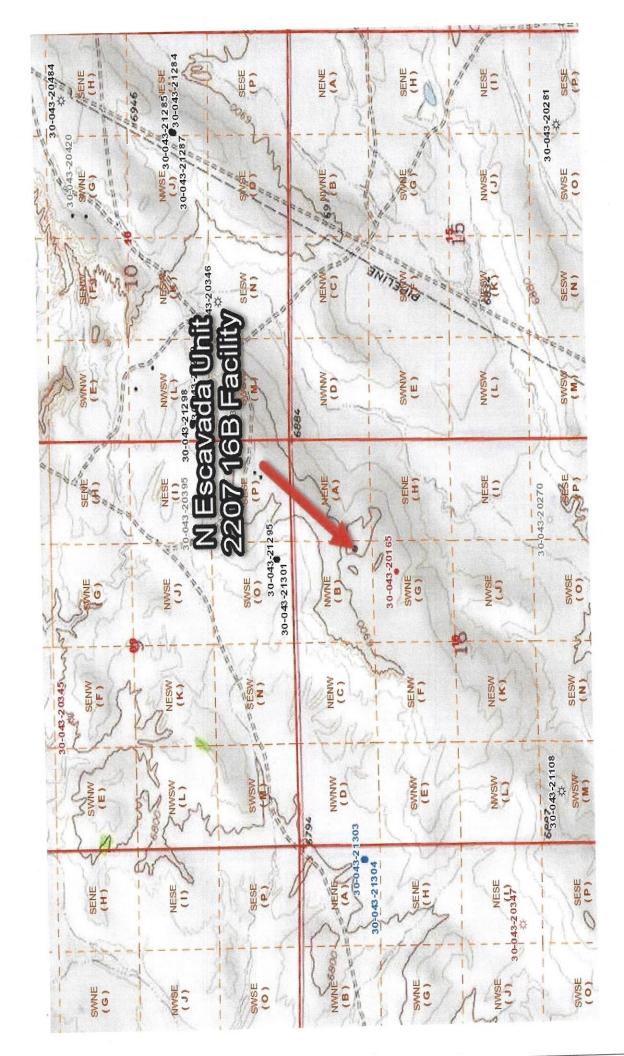
WATER COLUMN/ AVERAGE DEPTH TO WATER



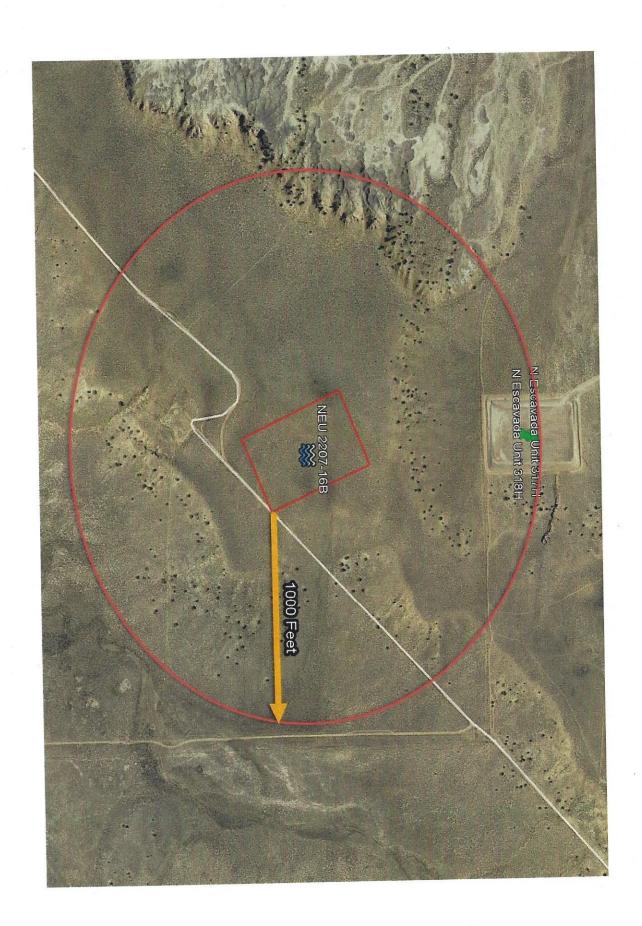
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Algan Feet SE Corner (NEW POND) SW Corner (N. W POND) N Escavada Unit 3/18H N Escavada Unit 3/17H NE Corner (NEW POND) NW Corner (NEW POND)



Enduring Resources, LLC Below Grade Tank Variance Page

Lease Name: N Escavada Unit 2207 16B

OCD Num.: 3RF-28

Description: Section 16, Township 22N, Range 7W, Sandoval County

 Enduring Resources proposes to utilize an 8' chain link fence around the entire facility in lieu of the fencing requirements outlined in subsection D of 19.15.17.11 NMAC.

• Enduring Resources proposes to use an enclosed tank in lieu of the screening and netting requirements outlined in subsection e of 19.15.17.11 NMAC

 Enduring Resources proposes to use an alternative to USEPA Method 418.1, as outlined in the attached Variance Request for 19.15.17 NMAC Tables I and Table II 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, Enduring Resources 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