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.

Santa Pe, INW 87303	the appropriate NWOCD District Office.
BGT 1 Proposed Alternative Method Permit or Closure Pla	n 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 Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or no or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit, below-gro	ide tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in prenvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable government.	
I. Operator:Epic Energy, L.L.C	
Address:7415 E. Main Street Farmington, NM 87402	
Facility or well name:US Argo #001E	4
API Number:30-045-24400 OCD Permit Numb	
U/L or Qtr/QtrNSection18Township27NRange10W	County:Rio Arriba
Center of Proposed Design: Latitude36.5702477 Longitude107.9401321	NAD83
Surface Owner: 🗵 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian Allotment	
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low	Chloride Drilling Fluid ☐ yes ☐ no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	×
☐ String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl I	Dimensions: L x W x D
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:53	low shut-off
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmenta	I Bureau office for consideration of approval.

Alternate. Please specify Four Foot height with mesh T-Post

institution or church)

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,

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

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 OtherDomed Fiberglas Top	
☐ 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.	ę
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	11
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). - 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.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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Within -	100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Tem	porary Pit Non-low chloride drilling fluid	
	300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, a 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
	500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock ag 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
Pern	nanent Pit or Multi-Well Fluid Management Pit	
Within lake (n	300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa neasured 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
	500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of 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
attacha	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 bitting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Deparating 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 1.15.17.13 NMAC	9.15.17.9 NMAC
☐ Pro	eviously Approved Design (attach copy of design) API Number: or Permit Number:	
Instruction attached	Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Actions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the act. 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 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 eviously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	19.15.17.9 NMAC
Received by OCD: 1/31/20201	Form C-144 Oil Conservation Division Page 3 of	. 6

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-	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	locuments 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 	
L	13.	
	<u>Proposed Closure</u> : 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 Fl Alternative Proposed Closure Method: Waste Excavation and Removal	uid Management Pit
	 ✓ 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 	
I	Alternative Closure Method	
	Waste 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	nttached to the
	 ☑ 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 	
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	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.	
	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
6.94 PA	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
400	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
4134196	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
4	Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
11.00	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	
0	Form C-144 Oil Conservation Division Page 4 o	f 6

dopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	
50 2	☐ 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 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	11 NMAC 15.17.11 NMAC
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
	*
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3/24/2	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3/24/2	2020
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3/24/2 Title: Environmental Specialist OCD Permit Number: BGT 1 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.

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Operator Closure Certification:	
are the submitted information and attachments submitted in the submitted i	nitted with this closure report is true, accurate and complete to the best of my knowledge and
	licable closure requirements and conditions specified in the approved closure plan.
Name (Print): Vanessa Fields	Title: Decoleton Counting Manage
Name (Print): Vanessa Fields	Title:Regulatory Compliance Manager
Signature:	Date: 1/31/2020
Digitatire.	Datc1/31/2020
e-mail address: vanessa@walsheng.net	Telephone: 505-327-4892

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesin, 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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fa NIM 97505

	Santa PC, INIVI 87303										
Release Notification and Corrective Action											
						OPERA'		🛛 Initi	al Report		Final Report
					ern Andrews	902 606 220	1762 (0011)				
Facility Name			mington,	NM 87410				892 or 505-320- Vatural Gas Well			
		r IL		The state of the s			e-1 roddong r				
Surface Owne	r - BLM			Mineral C	wner -	Federal		API No	30-045-	24400)
				LOCA	TIO	OF RE	LEASE				
	Section 18	Township 27N	Range 10W	Feet from the	North	South Line	Feet from the	East/West Line	County San Juan		
						F F	e <u>W107.940135</u>	i			
				NAT	URE	OF REL					
Type of Release Source of Relea			nk				Release – 25.84 lour of Occurrence		Recovered - Hour of Dis		,
Source of Reica	130 - 1100	uction on ra	iii K			2/14 - 2/2	1/17		@ 1015 hrs		
Was Immediate Notice Given?			If YES, To Whom? NMOCD called Walsh Engineering office @ 1012 hrs on 2/21/17 Left voice message @ 1530 hrs on 2/22/17 at Farmington BLM office for Katrina Diemer – Environmental Specialist								
By Whom? Ver						Date and Hour -NMOCD - Jonathan Kelly notified Walsh @ 1012 hrs 2/21/17					
Was a Watercon	urse Reacl		Yes 🗵] No		If YES, Volume Impacting the Watercourse. NA OIL CONS. DIV DIST. 3 FEB 23 2017					
If a Watercours			ibe Fully.					III CONS.	6017		
NA - Watercon	irse was n	ot impacted.				į.	CER 23 20"				
							FEO				
Describe Cause of Problem and Remedial Action Taken.* 2-21-17 - Sales valve on production oil tank failed due to crack in outlet side of valve. Valve was plugged, suspect ice froze and cracked vive housing, then thawed out in warmer weather and the release occurred. Jonathan Kelly reported the release to Walsh Engineering's office on 2/22/17 @ appx. 10:12 am. Mike Coley (Production Foreman) was notified by the Walsh office staff and he responded to site. Mike found the sales valve sealed in the closed position with oil drained inside of the tank containment, affecting an area appx. 30' x 10', there was no standing oil on site inside the tank containment. No oil contamination was found outside of the containment. Tank level prior to leak was 3'-7.25'' - 72.09 bbls in the single oil tank on the well. Post release gauge was 2'-3.75'' - 46.25 bbls in a 300 bbl tank. The release was 25.84 bbls of produced condensate in the tank berm. A separate top over of the below grade water pit tank was also discovered, with an unknown amount of produced water and condensate released in the area around the pit due to a leak where the dump line hole was cut thru the side of the tank below the top. Condensate and water was leaking out of the pit tank upon Mike's arrival. The last reported pit gauge by the lease operator was on 2/14/17 of 3'-8'' in a 6'0'' tall pit tank. Normal water production 2-22-17 We moved the pit tank and oil tank and began excavating the contaminated soil in the below grade tank area and hauled it to Envirotech's landfarm facility.											
appx. 12'x 12'.	. See attac	hed pictures.				7					
			*								

	regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective actions for releathe NMOCD marked as "Final Report" does not relieate contamination that pose a threat to ground water,	ases which may endanger eve the operator of liability surface water, human health
	Signature: Vern O. Andrews Printed Name: Vern O. Andrews	OIL CONSERVATION I	DIVISION
	Title: Production Superintendent	Approval Date: 0 33 300 Expiration D	Pate:
	E-mail Address: vern@walsheng.net Date: 2/22/17 Phone: 505-327-4892	Conditions of Approval: WYF1705349202	Attuched 💢
*	Attack Additional Charte If Nagaggary	- 1 1M -	

operator/Responsible Party,

The OCD has received the form C-141 you provided on The information contained on that form has been entered into our incident database and remediation case number NE 170534322has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soll contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₅ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Object of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, If any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved Iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by emoval cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

lim Griswold

DCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Thompson Engineering & Production

Argo US #1E
Unit Letter: N, Section 18, T27N, R10W
Rio Arriba County, New Mexico

Below-Grade Tank Closure Report Attachment Checklist

1) Notification:

Jonathan Kelly who found the release while inspecting the location, reported the release to Walsh Engineering's office on 2/22/17. Vanessa Fields with NMOCD and on location on 2/22/17.

Whitney Thomas with BLM (managing surface agency) was notified via phone and email on 2/22/2017.

Approval to proceed with back filling was granted on 3/28/17 (Vanessa Fields – NMOCD)

- 2)
 All liquids, sludge and contaminated soil was removed and hauled to Envirotech Land Farm, Disposal Facility, Section 6, T26N, R10W, CR #7175, San Juan, New Mexico Permit #NM-01-0011.
- 3) BGT removal: The BGT was removed and replaced with a 95 bbl steel tank.
- 4) Temporary Tank: A temporary tank was not utilized; the well was shut in while excavation took place.
- 5) Soil Tests: Soil samples were tested once the area of release was excavated and all sampling results have been included as per the closure documentation on Form C-141.
- 6) C-141: Results of the soil sample testing has been filed with the Aztec NMOCD office
- 7) Due to the release that was discovered, Thompson E&P has complied with rule 19.15.3.116 NMAC and 19.15.1.19 NMAC.
- 8) Due to the release the site had to be excavated prior to back filling with compacted, non-waste containing, earthen material. The site was then covered with a division prescribed soil cover before being re-contoured in order to comply with Subsections G, H and I of 19.15.17.13

NMAC. A new 95 bbl steel tank was then placed and piped into the production tank and separator.

- 9) After approval the area that was excavated was reclaimed following section 19.15.17.13 G (1) and (2) and were reclaimed to a safe and stable condition that blends with the surrounding area by placement of soil cover that restored the area to the surface conditions that existed prior to oil and gas operations that involved the BGT. Re-vegetation is not necessary since the release and subsequent remediation was within the containment area of the tanks and all on location.
- 10) Soil Cover: Because the site had to be excavated, once approval was approved, new top soil was hauled into location and used in accordance with section 19.15.17.13H (1) and (3).
- 11) This closure report contains all necessary attachments to document the closure activities, including sampling results, information required by 19.15.17 NMAC and related details (with pictures) as per the closure plan that is on file with NMOCD.

EPIC Energy, L.L.C Below Grade Tank Closure Plan

US Argo #001E

U/L: N, Section 18, TWN: 27N. RNG: 10W

San Juan County, New Mexico

As stipulated in Rule 19 .15 .17 .13 NMAC, the following information adheres to the requirements established in closing below-grade tanks (BGTs) on EPIC Energy, L.L.C well sites. This plan will address the standard protocols and procedures for closure of BGTs.

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

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

- 1. Prior notification of EPIC Energy, L.L.C intent to close the BGT will follow 19.15.17.13J (I) and (2).
 - a. EPIC Energy, L.L.C will notify the surface owner by certified mail, return receipt requested, of closure plans. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is enough to demonstrate compliance with this requirement.
 - b. Notification will also be given to the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice will include the operator's name and the well's name, number, and API number, in addition to the well's legal description, including the unit letter, section, township, and range.

Notice was provided to the NMOCD District III office and the Farmington NM BLM Office. However, with the closure being historic the records were unable to be located.

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

Fluid disposal:

Agua Moss

Sunco well #1

U/L=E, SWNW, Section 2, T29N-RI2W San Juan, New Mexico

Permit #NM-01-0009

Basin Disposal Inc.

Basin Disposal well #1

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

Permit #NM-01-0005

Solid disposal: Envirotech Land Farm

Disposal Facility

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

Permit #NM-01-0011

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT removal has been removed and an above ground tank was installed after removal of the BGT.

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

Analytical results came back above closure standards demonstrating a release did occur. OCD and BLM representative were onsite to witness the removal of the BGT and all confirmation sampling.

Constituents	Testing Method	Closure Standards (mg/Kg)
Benzene	US EPA SW-846 methods 8021B or 8260B	0.2
total BTEX	US EPA SW-846 methods 8021B or 8260B	50
TPH	US EPA method 418.1	100
Chlorides	US EPA method 300.1	250 or background

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

6.EPIC Energy, L.L.C will notify the division District III office of the soil test results on Form C-14 l. It is understood that the NMOCD may require additional delineation upon review of the results.

A C-141 is attached demonstrating a release did occur. A final C-141 will be submitted demonstrating closure.

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

A C-141 is attached demonstrating a release did occur. A final C-141 will be submitted demonstrating closure.

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

NMAC.

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

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

- a. The BGT location and all areas associated with the BGT, including associated access roads, if applicable, will be reclaimed to a safe and stable condition that blends with the surrounding undisturbed area. It is understood that EPIC Energy, L.L.C shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19 .15 .1 7 .13 NMA C and re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography.
- b. Re-vegetation will not be completed at the time the BGT pit is reclaimed but will instead be applied for as part of the P&A process when the well is plugged and abandoned. 10.Soil cover will follow 19.15.17.13H (1) and (3).
 - a. The soil cover for closures where the BGT has been removed or contaminated soil has been remediated to the NMOCD's satisfaction will consist of the background thickness of topsoil or one (1) foot of suitable material to establish vegetation at the site, whichever is greater.
 - b. The soil cover will be constructed to the site's existing grade, and all possible efforts will be conducted to prevent ponding of water and erosion of the cover material.

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

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





