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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or

	Proposed Alternative Method Permit or Closure Plan App	<u>lication</u>
	Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed X Closure of a pit, closed-loop system, below-grade tank, or proposed Modification to an existing permit Closure plan only submitted for an existing permitted or non-permit system, below-grade tank, or proposed alternative method	alternative method
	Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-gro	ade tank or alternative request
	Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of	surface water, ground water or the
	environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental at	thority's rules, regulations or ordinances
	Operator: Cambrian Management LTDOGRID #: 198688	
	Address: PO Box 272 Midland, TX 79702	
	Facility or well name: Renata 16 State Comm No. 001	
i	API Number: 30-015-35029 OCD Permit Number:	
1	U/L or Qtr/Qtr A Section 16 Township 23S Range 24E County: I	
	Center of Proposed Design: Latitude N32.30920 Longitude W-104.49810	NAD: 1927 X 1983
, [Surface Owner: Federal X State Private Tribal Trust or Indian Allotment	
	X Pit: Subsection F or G of 19.15.17.11 NMAC	RECEIVED
	Temporary: X Drilling Workover X Permanent Emergency Cavitation P&A	OCT 2 4 2013
	X Fermanent Emergency Cavitation F&A	1
	X Lined Unlined Liner type: Thickness 20mil LLDPE X HDPE PVC Other X String-Reinforced	THEOD ARTESIA
	Liner Seams: Welded Factory X Other Stitched Volume: 2000 bbl Dimensions: L 125	' x W 125' x D 8'
٦	3.	
	Closed-loop System: Subsection H of 19.15.17.11 NMAC	
1	Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require pricintent)	or approval of a permit or notice of
	☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other	
	☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	······································
	Liner Seams: Welded Factory Other	
	Below-grade tank: Subsection I of 19.15.17.11 NMAC	
	Volume:bbl Type of fluid:	
	voidine	

Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams: Welded Factory Other
4
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
5. Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, schinstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Sereen Netting Other	ool. hospital,
Monthly inspections (If netting or screening is not physically feasible)	
8. 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	
Administrative Approvals 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bure consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	au office for
10. 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 act material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of act of the second provided and exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to deabove-grade tanks associated with a closed-loop system.	propriate district of approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Visual inspection (certification) of the proposed site, Aeria photo, saterine image Vithin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock vatering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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
Vithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted 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
Vithin 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
/ithin the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
/ithin an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No
fithin a 100-year floodplain FEMA map	☐ Yes ☐ No

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THE SECTION

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Temporary Pits, Emergency Pits, and Below-grade Tan Instructions: Each of the following items must be attache attached.	ks Permit Application Attachied to the application. Please in	ment Checklist: Subsection B of 19.15.17.9 NMAC dicate, by a check mark in the box, that the documents are
Hydrogeologic Report (Below-grade Tanks) - based	s) - based upon the requirements spon the appropriate requirement its of 19.15.17.11 NMAC	of Paragraph (2) of Subsection B of 19.15.17.9 NMAC s of 19.15.17.10 NMAC
Closure Plan (Please complete Boxes 14 through 18, and 19.15.17.13 NMAC	if applicable) - based upon the a	ppropriate requirements of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design)	API Number:	or Permit Number:
Closed-loop Systems Permit Application Attachment Cl Instructions: Each of the following items must be attached attached.	ed to the application. Please inc	licate, by a check mark in the box, that the documents are
Geologic and Hydrogeologic Data (only for on-site of Siting Criteria Compliance Demonstrations (only for Design Plan - based upon the appropriate requirement Operating and Maintenance Plan - based upon the appropriate Plan (Please complete Boxes 14 through 18, and 19.15.17.13 NMAC	on-site closure) - based upon thats of 19.15.17.11 NMAC propriate requirements of 19.15.	e appropriate requirements of 19.15.17.10 NMAC
Previously Approved Design (attach copy of design)	API Number:	
☐ Previously Approved Operating and Maintenance Plan	API Number:	(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to im	plement waste removal for closu	re)
Instructions: Each of the following items must be attached attached. Hydrogeologic Report - based upon the requirements Siting Criteria Compliance Demonstrations - based upon the Climatological Factors Assessment Certified Engineering Design Plans - based upon the a Dike Protection and Structural Integrity Design - base Leak Detection Design - based upon the appropriate reliable Liner Specifications and Compatibility Assessment - I Quality Control/Quality Assurance Construction and I Operating and Maintenance Plan - based upon the app Freeboard and Overtopping Prevention Plan - based upon the App Control Plan Control Plan Construction Plan Construction and I Dolf Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirement	of Paragraph (1) of Subsection I poin the appropriate requirements of 19.1 and upon the appropriate requirements of 19.15.17.11 NM. based upon the appropriate requirements of 19.15.17.11 poin the appropriate requirements of 19.15.17.11 poin the appropriate requirements of 19.15.1 poin the appropriate requirements of 19.15.1 poin the appropriate requirements of 19.15.1	3 of 19.15.17.9 NMAC s of 19.15.17.10 NMAC 5.17.11 NMAC ents of 19.15.17.11 NMAC AC rements of 19.15.17.11 NMAC 7.12 NMAC s of 19.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes.	14 through 18, in regards to the	proposed closure plan.
Type: X Drilling Workover Emergency Cavitati		•
☐ In-place Burial [p systems only) ly for temporary pits and closed- On-site Trench Burial	loop systems) the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (closure plan. Please indicate, by a check mark in the box, the X-Protocols and Procedures - based upon the appropriate real X-Confirmation Sampling Plan (if applicable) - based upon X-Disposal Facility Name and Permit Number (for liquids, X-Soil Backfill and Cover Design Specifications - based upon X-Re-vegetation Plan - based upon the appropriate required X-Site Reclamatical Plan - based upon the appropriate required X-Site Reclamatical Plan - based upon the appropriate required X-Site Reclamatical Plan - based upon the appropriate required X-Site Reclamatical Plan - based upon the appropriate required X-Site Reclamati	19.15.17.13 NMAC) Instruction that the documents are attached, equirements of 19.15.17.13 NML the appropriate requirements of drilling fluids and drill cuttings on the appropriate requirements of the appropriate requirements of Subsection I of 19.15.1	AC Subsection F of 19.15.17.13 NMAC of Subsection H of 19.15.17.13 NMAC

. - 44 ---Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required. Disposal Facility Name: _____ Disposal Facility Permit Number: _____ Disposal Facility Name: Disposal Facility Permit Number: Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No Required for impacted areas which will not be used for future service and operations: 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. Ground water is less than 50 feet below the bottom of the buried waste. ☐ Yes ☐ No □ NA NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells Ground water is between 50 and 100 feet below the bottom of the buried waste ☐ Yes ☐ No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells \square NA Ground water is more than 100 feet below the bottom of the buried waste. ☐ Yes ☐ No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells □ NA Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa Yes No lake (measured from the ordinary high-water mark). Topographic map: Visual inspection (certification) of the proposed site Within 300 feet from a 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 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock Yes No watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database: Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance ☐ Yes ☐ No adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. ☐ Yes ☐ No US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. ☐ Yes ☐ No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological ☐ Yes ☐ No Society; Topographic map Within a 100-year floodplain. Yes No FEMA map

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 F of 19.15.17.13 NMAC
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 19.15.17.11 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 Subsection F of 19.15.17.13 NMAC
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 I of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Title:
Telephone: 432-557-0120
Approval Date: Approval Date: Description of the closure activities and submitting the closure report of the closure activities. Please do not complete this exactivities have been completed. Closure Completion Date: Closure Method Waste Removal (Closed-loop systems only) Statistize Above Ground Steel Tanks or Haul-off Bins Only: Cluids and drill cuttings were disposed. Use attachment if more that posal Facility Permit Number:
19.15.17.13 NMAC plementing any closure activities and submitting the closure report impletion of the closure activities. Please do not complete this e activities have been completed. Closure Completion Date: 2 CCT 3 Closure Method Waste Removal (Closed-loop systems only) Lutilize Above Ground Steel Tanks or Haul-off Bins Only: Cluids and drill cuttings were disposed. Use attachment if more the
19.15.17.13 NMAC plementing any closure activities and submitting the closure report possible plementing any closure activities. Please do not complete this exactivities have been completed. Closure Completion Date:
plementing any closure activities and submitting the closure report in pletion of the closure activities. Please do not complete this activities have been completed. Closure Completion Date: Closure Method Waste Removal (Closed-loop systems only) Utilize Above Ground Steel Tanks or Haul-off Bins Only: Thirds and drill cuttings were disposed. Use attachment if more the posal Facility Permit Number:
Closure Method
Utilize Above Ground Steel Tanks or Haul-off Bins Only: Tuids and drill cuttings were disposed. Use attachment if more the posal Facility Permit Number:
nuids and drill cuttings were disposed. Use attachment if more the
posal Facility Permit Number:eas that will not be used for future service and operations?
ust be attached to the closure report. Please indicate, by a check
104. 4€ \$1.0 NAD: □1927 □ 1983
s true, accurate and complete to the best of my knowledge and and conditions specified in the approved closure plan.
Title: <u>E. M. (1807)</u> Date: <u>17007</u> 13
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