

District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District II 1000 Rio Briszos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr., Santa Fe, NM 87505 State of New Mexico
Energy Minerals and Natural Resources CD-ARTESIA
Department
Department
Oil Conservation Division

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505 JUI - 3 2008

Form C-144 June 24, 2008

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 Application

	ystem, below-grade tank, or proposed alternative method system, below-grade tank, or proposed alternative method	
Instructions: Please submit one application (Form C-144) per is	rdividual pit, closed-loop system, below-grade tank or alternative request	
Please be advised that approval of this request does not relieve the operator of liability should operations result in polintion of surface water, ground water or the environment. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.		
Operator: RKI EXPLORATION & PRODUCTION	OGRID #: 246289	
Address: 3817 N.W. EXPRESSWAY SUITE 950 O	KLAHOMA CITY, OKLAHOMA 73112	
Facility or well name: RDX 16-2		
API Number: 30-015-36383	OCD Permit Number:	
U/L or Qtr/Qtr K Section 16 Township 26	S Range 30E County; EDDY	
Center of Proposed Design: Latitude 32°.0414650	Longitude 103°.8891090 NAD: □1927 <b>XX</b> 1983	
Surface Owner:  Federal State Private Tribal Trust or Indian Allotment		
Pit: Subsection F or G of 19.15 17 11 NMAC	Closed-loop System: Subsection H of 19.15.17.11 NMAC	
Temporary: 🗖 Drilling 🔲 Workover	Drying Pad Tanks Haul-off Bins Other	
Permanent Emergency Cavitation Steel Pit	☐ Lined ☐ Unlined	
☐ Lined ☐ Unlined	Liner type: Thickness mil	
Liner type: Thicknessmil	Other	
Other String-Reinforced	Seams: Welded Factory Other	
Scams: Welded Factory Other	Volume:bblyd³	
Volume:bbl Dimensions: I,x Wx D	Dimensions: Lengthx Width	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Dimensions: Lengthx Width  Fencing: Subsection D of 19.15.17.11 NMAC  Chair Both old Continuous August 1977 August 1	
Volume:bbl	Chain link, six feet in height, two strands of barbed wire at top	
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and	
Tank Construction material:	four feet	
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC	
Visible sidewalts, liner, 6-inch lift and automatic overflow shut-off	Screen Notting Other	
☐ Visible sidewalls and liner	☐ Monthly inspections	
☐ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC	
Other	12'x24', 2' lettering, providing Operator's name, site location, and	
Liner type: Thicknessmil	emergency telophone numbers	
Other	Signed in compliance with 19.15.3.103 NMAC	
Alternative Method:	Administrative Approvals and Exceptions:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Pe Environmental Parcety office for consideration	Justifications and/or demonstrations of equivalency are required. Please refer to	
of approval.	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 Bureau office for	
	consideration of approval.	
	Environmental Bureau office for consideration of approval.	

0208104

Siting Criteria (regarding permittion): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. 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. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pada or above-grade tanks associated with a closed-loop system.	`	
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 ☐ NA	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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 search; Visual inspection (certification) of the proposed size	☐ 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.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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	
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 ares.  - 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	☐ Yex ☐ No	
Temporary Pits. Emergency Pits. and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 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  Closure Plan - based upon the appropriate requirements of 19.15.17.19 NMAC and 19.15.17.13 NMAC  Previously Approved Design (attach copy of design) API Number:  or Permit Number:		
Closed loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17 9 NMAC.  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	cuments are	
attached.  Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 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  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	19,15.17.9 NMAC	
Previously Approved Design (attach copy of design) API Number:		

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Permanent Pits Permit Application Checklist: Subsection B of 19,15,17.9 NMAC	
Permanent Pita Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Buch of the following items must be attached to the application. Please indicate, by a check mark in the box, that the deatached 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 19.15.17.11 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 Lank 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 Nulsance or Flazardous Odors, including H <sub>2</sub> S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Cristure Plan - based upon the appropriate requirements of Subsection C of 19 15.17.9 NMAC and 19.15 17 13 NMAC	ocumania are
Proposed Closure: 19.15.17.13 NMAC	
Type. Drilling Workover Demergency Cavitation Permanent Pit Below-grade Trink Closed-loop System [	Alternative
Proposed Closure Method:  Wasto Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial  Alternative Closure, Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for co	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Instructions: Each string 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 un exception which must be submitted to the Santa-Fc 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.  - NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bettem of the buried waste  - NM Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells	Yea No
Ground water is more than 100 feet below the bottom of the huried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes □ No NA
Within 300 fact of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebod, sinkhole, or plays lake (measured from the ordinary high-water mark).  • Topographic map; Visual inspection (corrification) 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	☐ Yus ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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	Ver 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  Written confirmation or verification from the municipality; Written approval obtained from the municipality	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
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

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NM	AC) Instructions: Each of the following items must be attached to the
closure plan. Please indicate, by a check mark in the box, that the document	s are attached. Not applicable - Closed Loop System
Protocols and Procedures - based upon the appropriate requirements of 1	19.15 17 13 NMAC
L Confirmation Sampling Plan (if applicable) - based upon the appropriate	requirements of Subsection F of 19 15 17 13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluids a	und drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection	ate requirements of Subsection H of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subs	section G of 19.15.17.13 NMAC
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bir	
or facilities for the disposal of liquids, drilling fluids and drill cuttings.	
Disposal Facility Name: Controlled Recovery Inc. On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of	Disposai Facility Permit Number: R-9166
by a check mark in the box, that the documents are attached. Not applic	
Siting Criteria Compliance Demonstrations - based upon the appropriate Proof of Surface Owner Notice - based upon the appropriate requirement	requirements of 19.15.17.10 NMAC
Construction and Design of Burial Trench (if applicable) based upon the	e appropriate requirements of 19 15 17 11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 1	9.15.17.13 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	s of Subsection F of 19.15.17.13 NMAC
<ul> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids at</li> <li>Soil Cover Design - based upon the appropriate requirements of Subsection</li> </ul>	nd drill cuttings of in case on-site closure standards cannot be achieved)
Re-vegetation Plan - based upon the appropriate requirements of Subsect	tion Lof 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subs	Section G of 19.15.17.13 NMAC
Operator Application Certification:	
i hereby certify that the information submitted with this application is true, acc	anners and normalists to the book of the second of the second of the second
N	arrane and complete to the best of my knowledge and benef,
Name (Print): Pat McCollom	Title: Drilling Manager
Signature: Personal to Cr	, 56.
Signature:	Date: 7-2-2008
e-mail address: <u>pmccollom@rkixp.com</u>	Telephone: 405-996-5748
OCD Approval: Permit Application (including closure plan) Closure	
OCD Representative Signature: Signed By Mile Branche	Approval Date: JUL 1 2008
OCD Representative Signature: Signed By: Mile Brance: Field Supervisor	Approval Date: JUL 1 2008
OCD Representative Signature: Signed By: Mile Brance:  Field Supervisor  Title:	OCD Permit Number: 02-08-104
OCD Representative Signature: Signed By: Mile Brance: Field Supervisor	Approval Date: JUL 1 1 2008  OCD Permit Number: 02-08-104  on K of 19.15.17.13 NMAC
OCD Representative Signature: Signed By: Mile Brance:  Field Supervisor  Title:	OCD Permit Number: 02-08-104
OCD Representative Signature: Signed By: While Example:  Field Supervisor  Title: Closure Report (required within 60 days of closure completion): Subsection  Closure Method:	Approval Date: JUL 1 1 2008  OCD Permit Number: 02-08-104  on K of 19.15.17.13 NMAC  Closure Completion Date:
OCD Representative Signature: Signed By: Walls Executed  Field Supervisor  Title: Closure Report (required within 60 days of closure completion): Subsection  Closure Method: On-Site Closure Method Alternative Alternative Signature: Alternative Signature: Signed By: Walls Executed Signature: Signature: Signed By: Walls Executed Signature: Sig	Approval Date: JUL 1 1 2008  OCD Permit Number: 02-08-104  on K of 19.15.17.13 NMAC
OCD Representative Signature: Signed By: Male Branches  Field Supervisor  Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.	Approval Date: JUL 1 1 2008  OCD Permit Number: O2-O8-IO4  on K of 19.15.17.13 NMAC  Closure Completion Date:  mative Closure Method
Field Supervisor  Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following	Approval Date: JUL 1 1 2008  OCD Permit Number: O2-O8-IO4  on K of 19.15.17.13 NMAC  Closure Completion Date:  mative Closure Method
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Field Supervisor  Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan  Confirmation Sampling Analytical Results  Waste Material Sampling Analytical Results  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation	Approval Date: JUL 1 1 2008  OCD Permit Number: O2-O8-IO4  on K of 19.15.17.13 NMAC  Closure Completion Date:  mative Closure Method
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Field Supervisor  Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confurnation Sampling Analytical Results Waste Material Sampling Analytical Results Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude  Operator Closure Certification:	Approval Date: JUL 1 1 2008  OCD Permit Number: O2-O8-IO4  on K of 19.15.17.13 NMAC  Closure Completion Date:  mative Closure Method  Items must be attached to the closure report. Please Indicate, by a check
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Field Supervisor  Title:  Closure Report (required within 60 days of closure completion): Subsection  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Long  Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure	Approval Date: JUL 1 1 2008  OCD Permit Number: O2-O8-IO4  on K of 19.15.17.13 NMAC  Closure Completion Date:  mative Closure Method  Items must be attached to the closure report. Please Indicate, by a check  expert is true, accurate and complete to the best of my knowledge and ements and conditions specified in the approved closure plan.
Field Supervisor  Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Long  Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required.	Approval Date: JUL 1 1 2008  OCD Permit Number: O2 - O8 - IO 4  on K of 19.15.17.13 NMAC  Closure Completion Date:  mative Closure Method  Items must be attached to the closure report. Please indicate, by a check  gitude NAD: 1927 1983  e report is true, accurate and complete to the best of my knowledge and ements and conditions specified in the approved closure plan.  Title:
Field Supervisor  Title:  Closure Report (required within 60 days of closure completion): Subsection  Closure Method:  Waste Excavation and Removal On-Site Closure Method Altern  If different from approved plan, please explain.  Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan  Confurnation Sampling Analytical Results  Waste Material Sampling Analytical Results  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure Location: Latitude  Long  Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required	Approval Date: JUL 1 1 2008  OCD Permit Number: O2-O8-IO4  on K of 19.15.17.13 NMAC  Closure Completion Date:  mative Closure Method  Items must be attached to the closure report. Please Indicate, by a check  gitude

RKI EXPLORATION & PRODUCTION 3817 N.W. EXPRESSWAY SUITE 950 OKLAHOMA CITY, OKLAHOMA 73112

## Closed Loop System

## Design Plan

Equipment list,

- 2-414 Swaco Centrifuges
- 2- 4 screen Mongoose shale shakers
- 2-250 BBL tanks to hold fluid
- 2- CRI Bins with track system
- 2-500 BBL frac tanks for fresh water
- 2-500 BBL frac tanks for brine water

## Operation and Maintenance

Closed Loop equipment will be inspected daily by each tour and any necessary maintenance performed

Any leak in system will be repaired and/or contained immediately

OCD notified within 48 hours

Remediation process started

## Closure Plan

During drilling operations all liquids, drilling fluids and cuttings Will be hauled off via: CRI(Controlled Recovery Incorporated Permit R-9166).