District I 1625 N French Dr , Hobbs, NM 88240 District II 1301 W Grand Avenue, 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 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 10 2008				
Proposed Alternative Method Permit or Closure Plan Application Type of action. Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method				
<u> </u>	system, below-grade tank, or proposed alternative method			
	dividual pit, closed-loop system, below-grade tank or alternative request			
	bility should operations result in pollution of surface water, ground water or the oly with any other applicable governmental authority's rules, regulations or ordinances.			
Operator: Waterford Operating, LLC	OGRID# 259169			
Address. 1001 McKinney Suite 2000 Houston, TX 7700	2			
Facility or well name: Crystal Diamond # 133				
APLNumber: 30-005-64022 New Drill OCD Per	rmit Number:			
U/L or Qtr/Qtr J Section 33 Township 12S	Range 28E County: Chaves			
Center of Proposed Design Latitude 33.232408 N	Longitude 104.136752 W NAD. ⊠1927 ☐ 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 _ LLDPE _ HDPE _ PVC			
Liner type Thicknessmil LLDPE HDPE PVC	Other			
Other String-Reinforced	Seams: Welded Factory Other			
Seams. Welded Factory Other	Volumebblyd ³			
Volumebbl	Dimensions Length x Width			
Below-grade tank: Subsection I of 19.15 17.11 NMAC Fencing: Subsection D of 19.15.17 11 NMAC				
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			
Fank Construction material:	four feet			
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC			
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting 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			
mil HDPE PVC	emergency telephone numbers			
Other	Signed in compliance with 19.15.3.103 NMAC			
Alternative Method: Submittal of an exception request is required. Exceptions must be	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to			
submitted to the Santa Fe Environmental Bureau office for consideration	19 15 17 NMAC for guidance			
of approval	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			

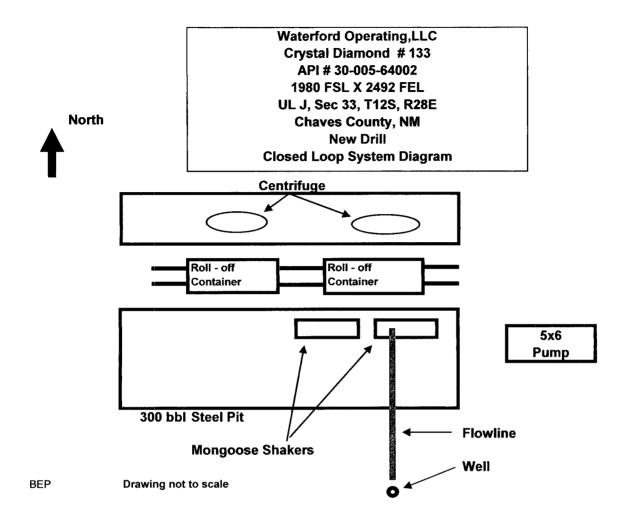
Exception(s): Requests must be submitted to the Santa Fe

Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19 15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. 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 pads 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				
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				
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				
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				
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 site				
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				
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			
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 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 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 documents are attached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.11 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 - based upon the appropriate requirements of Subsection C of 19.15.17 9 NMAC and 19.15.17 13 NMAC NMAC				
Freyrously Approved Design (adacti copy of design) API Number:				

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 documents are				
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.10 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 H ₂ S. Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Proposed Closure: 19.15.17.13 NMAC				
	Alternative			
Type: Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank Closed-loop System Proposed Closure Method: Waste Excavation and Removal	Anemative			
Waste Removal (Closed-loop systems only)				
☐ On-site Closure Method (Only for temporary pits and closed-loop systems) ☐ In-place Burial ☐ On-site Trench Burial				
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for con	nsideration)			
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 - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is between 50 and 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			
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				
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				
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 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	☐ 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 area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS, NM Geological Society, Topographic map	☐ Ycs ☐ No			
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No			

Waste Excavation and Removal 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. 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 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 G of 19 15 17.13 NMAC				
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Only or facilities for the disposal of liquids, drilling fluids and drill cuttings.	<u>v</u> : (19.15.17.13.D	NMAC) Instructions: Please indentify the facility		
	sposal Facility Pe	rmit Number:		
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 and Design of Burial Trench (if applicable) 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 I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 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 belief.				
Name (Print). Billy (Bill) E. Prichard	_	for Waterford Operating, LLC		
Signature: Billy E. Kruhw	Date	7/8/08		
e-mail address: billy@pwllc.net	Telephone [.]	575-390-9100		
OCD Approval: Permit Application (including closure plan) Closure Plan (o OCD Representative Signature: Title:		Approval Date: 7/15/08		
Closure Report (required within 60 days of closure completion): Subsection K of	19.15.17.13 NM. Closure Comp			
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain				
Closure Report Attachment Checklist: Instructions: Each of the following items is 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)				
The state of the s		NAD: 1927 1983		
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.				
Name (Print)·	Title:			
Signature:				
e-mail address:	Telephone:			



Operating and Maintenance Plan

Cuttings will be discharged from shaker into roll - off containers

Centrifuges set directly over roll - off containers and solids are discharges directly in to roll - offs

Roll - off containers are monitored 24 hours a day by solid control specialist

Roll - off containers will be replaced as needed

Closure Plan

Drilled solids will be removed as needed in roll - off containers

Drill solids will be transported to CRI Permit # R 9166

Drilling fluids will be hauled to suitable off location waste disposal facility