7/14/08

District 1 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

Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method		
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method		
ons: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternativ			

21 <u>====</u>	system, below-grade tank, or proposed alternative method	
Instructions: Please submit one application (Form C-144) per in	dividual pit, closed-loop system, below-grade tank or alternative request	
Please be advised that approval of this request does not relieve the operator of lia environment. Nor does approval relieve the operator of its responsibility to comp	bility should operations result in pollution of surface water, ground water or the ply with any other applicable governmental authority's rules, regulations or ordinances.	
Operator: Parallel Petroleum Corporation	OGRID #:	
Address: 1004 N. Big Spring, Suite 400, Midland, Texas 79701		
Facility or well name: Unbridled 1525-28 #2 Dual well site with	the John Town 1525-29 #2	
API Number: <u>30-005-64035</u>	OCD Permit Number:	
	S Range 25x E County: <u>Chaves</u>	
Center of Proposed Design: Latitude 32°58'50.91"		
Surface Owner: Federal State Private Tribal Trust or Indian		
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: Thicknessmil	
Lincr type: Thicknessmil	Other	
Other String-Reinforced	Seams: Welded Factory Other	
Seams: Welded Factory Other	Volume:yd³	
Volume: bbl Dimensions: L x W x D	Dimensions: Lengthx 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	
Tank 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	
Liner type: Thicknessmil HDPE PVC	emergency telephone numbers	
Other	☐ Signed in compliance with 19.15.3.103 NMAC	
Alternative Method:	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to	
Submittal of an exception request is required. Exceptions must be 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	
	consideration of approval. 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 puts) - 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				
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 				
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 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the definition of the following items must be attached to the application.				
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 19.15.17.11 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				
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 19.15.17.10 NMAC 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				
Previously Approved Design (attach 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					
attached. 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					
Proposed Closure: 19.15.17.13 NMAC					
Type: 🛛 Drilling 🗌 Workover 🔲 Emergency 🔲 Cavitation 🔲 Permanent Pit 🔲 Below-grade Tank 🔯 Closed-loop System 🗍	Alternative				
Proposed Closure Method: Waste Excavation and Removal					
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.	☐ Yes ☐ No				
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA				
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	□ 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	☐ Yes ☐ No				
- 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	☐ Yes ☐ No				
Society; Topographic map					
Within a 100-year floodplain.	☐ Yes ☐ No				
- FEMA map					

closure plan. Please indicate, by a check mark in the box, that the docum	NMAC) Instructions: Each	. Cal C. II			
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 Continuation Sampling Plan (if applicable), based upon the appropriate requirements of Subscript F of 10.15.17.13 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 Su Site Reclamation Plan - based upon the appropriate requirements of	bsection I of 19.15.17.13 NM	IΛC			
Waste Removal Closure For Closed-loop Systems That Utilize Haul-of		·			
or facilities for the disposal of liquids, drilling fluids and drill outlings		_			
Disposal Facility Name: _CRI _Controlled Recovery, /	NC. Disposal Facility Pern	nit Number: R 9/66			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Ed	ach of the following items mu	ust 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 require Proof of Surface Owner Notice - based upon the appropriate require					
Construction and Design of Burial Trench (if applicable) based upo		ts of 19.15.17.11 NMAC			
Protocols and Procedures - based upon the appropriate requirements Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements	oriate requirements of Subsect				
 ☐ Waste Material Sampling Plan - based upon the appropriate requirer ☐ Disposal Facility Name and Permit Number (for liquids, drilling flu 					
Soil Cover Design - based upon the appropriate requirements of Sub	bsection H of 19.15.17.13 NM	1AC			
Re-vegetation Plan - based upon the appropriate requirements of Su Site Reclamation Plan - based upon the appropriate requirements of					
Operator Application Certification:					
I hereby certify that the information submitted with this application is true	e, accurate and complete to th	e best of my knowledge and belief.			
Name (Print): Deane Durham	Title: <u>Dri</u>	Iling Engineer			
Signature: Deane Muchan	Date:	7-09-2008			
e-mail address: ddurham@pllfcom	Telephone:	432-684-3727			
OCD Approval: Permit Application (including closure plan) Clo		,			
OCD Representative Signature:	W	Approval Date: 7/22/08			
Title: Nativity II Some	OCD Permit Numb	per: 0208165			
Closure Report (required within 60 days of closure completion): Sub		ΛC			
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method				
Closure Report Attachment Checklist: Instructions: Each of the follo	wing items must be attached	to the closure report. Please indicate, by a check			
mark in the box, that the documents are attached.	ű	to the examine reports a removal and the second			
☐ Proof of Closure Notice☐ Proof of Deed Notice (if applicable)	·				
 □ Proof of Closure Notice □ Proof of Deed Notice (if applicable) □ Plot Plan □ Confirmation Sampling Analytical Results 	·				
 □ Proof of Closure Notice □ Proof of Deed Notice (if applicable) □ Plot Plan □ Confirmation Sampling Analytical Results □ Waste Material Sampling Analytical Results 	·				
 □ Proof of Closure Notice □ Proof of Deed Notice (if applicable) □ Plot Plan □ Confirmation Sampling Analytical Results 	·				
 □ 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 					
□ 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)	,				
 □ 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 	Longitude	NAD: □1927 □ 1983			
 □ 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 	Longitude	NAD: □1927 □ 1983 and complete to the best of my knowledge and			
☐ 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 ☐ Derator Closure Certification: I hereby certify that the information and attachments submitted with this certification.	Longitudeelosure report is true, accurate requirements and conditions s	NAD: □1927 □ 1983 and complete to the best of my knowledge and			
□ 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 □ Operator Closure Certification: I hereby certify that the information and attachments submitted with this elbelief. I also certify that the closure complies with all applicable closure results.	Longitudeelosure report is true, accurate requirements and conditions s	and complete to the best of my knowledge and pecified in the approved closure plan.			

CLOSED-LOOP SYSTEM DETAILS

Personnel:

The drilling contractor will utilize a 5-man crew with the 5th man dedicated to working the shaker and pit area. The solids control company will provide a solids control technical specialist to work and maintain all closed-loop equipment (see inventory). These 2 individuals will work regular tours and coordinate with the mud engineer and tour derrick man to insure all fluid flow and solids handling is done as designed.

General procedures and flow path:

Rig pumps, shakers and pits will be used with added equipment for the extraction and disposal of solids while maintaining designed clean mud system for the drilling of the well. Flow from flow-line to shaker then sand trap as normal. The drilling fluids with remaining solids are routed to the auger pit where weir plates and the auger trap separates remaining solids. A transfer pump carries the solids slurry from the auger pit to the centrifuge level, and last remaining solids are removed. Dry solids are collected in the 3-sided tank and loaded into cuttings bins for delivery to approved disposal facility. Clear fluids are routed back to the rig working tanks for circulation. In addition, a 250 BBL open-top ½ tank will be used to take cement returns and any other disposal liquids, and 4 additional frac tanks will be used for volume control during all operations.

Addition equipment inventory for Closed-loop system:

Mud / Auger Tank (drop solids out and pump to centrifuge level)

Shale Bin (3-sided bin to catch dry cuttings)

Flygt 2" Trash Pump complete with hoses (system pump)

Flygt 4" Trash Pump complete with hoses (system pump)

Komatsu 250pt loader complete with Pipe Grapple /forks/Bucket (to load cuttings into transport bins and other rig funtions)

Alfa Laval Decanter Lynx 20W pump and stand (centrifuge pump)

Alfa Laval Decanter Lynx 40W pump with stand (centrifuge pump)

Full open-top bins and rails (for hauling cuttings to disposal)

½ tank (for cement returns)

4 Additional Frac tanks (for additional fluid capacity)

See attached drawing.

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Patriot #1 CLosed Loop Syste.	FRAC TANK FRAC TANK FRAC, TANK
Well head 48' 70'6" 46" TALL	ROAD EDGE OF PAD OR FW POND