Role SU Permitted PART 17 Closure

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 July 21, 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 Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method				
Instructions: Please submit one application (Form C-144) per individual 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 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 authority's rules, regulations or ordinances.				
Operator: Parallel Petroleum Corporation OGRID #: 230387				
Address: 1004 N. Big Spring, Suite 400, Midland, Texas 79701				
Facility or well name: John Town 1525-29 #1 Dual well site with the Unbridled 1525-28 #1				
ÁPI Number: 30=005-63880 OCD Permit Number: NA				
U/L or Qtr/Qtr M Section 28 Township 15S Range 25W County: Chaves				
Center of Proposed Design: Latitude 32.98400 N Longitude 104.45671 W NAD: ⊠1927 ☐ 1983				
Surface Owner: Federal State Private Tribal Trust or Indian Allotment				
2				
☑ Pit: Subsection F or G of 19.15.17.11 NMAC Pre Rule Pit approval drilling when rule passed,				
Temporary: ☑ Drilling ☐ Workover				
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A				
☑ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☑ HDPE ☐ PVC ☐ Other				
⊠ String-Reinforced				
Liner Seams: Welded Factory Other Volume: 25000 bbl Dimensions: L 150 x W 150_x D 15				
Closed-loop System: Subsection H of 19.15.17.11 NMAC 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 Dined Unlined Liner type: Thickness mil LLDRE HDPE PVC Other Liner Seams: Welded Factory Other				
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:				
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, school, hospital, institution or church)				
Four foot height, four strands of barbed wire evenly spaced between one and four feet				
Alternate. Please specify				
7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top, tanks)				
Screen Netting Other				
☐ Monthly inspections (If netting or screening is not physically feasible)				
8.				
Signs: Subsection C of 19.15.17.11 NMÂC				
12"x 24", 2" leftering, providing Operator's name, site location, and emergency telephone numbers				
Signed in compliance with 19.15.3.103 NMAC				
9. 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 Bureau of the Santa Fe En	office for			
consideration of approval.	501CC 101			
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	<u> </u>			
Siting Criteria (regarding permitting): 19.1517.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryl above-grade tanks associated with a closed-loop system.	priate district pproval.			
above-grade tanks associated with a ciosed-toop system.	п. п.			
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)	☐ Yes ☐ No ☐ NA			
- 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 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 19.15.17.11 NMAC Operating and Maintehance 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 19.15.17.9 NMAC Province of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit 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 (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only 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 (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan 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 II ₂ S, Prevention Plan Emergency Response Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Erosion Control Plan Erosion Control 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
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 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 consideration)
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 Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13. Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if nacilities 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 server Yes (If yes, please provide the information below) \(\subseteq \) 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 II 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	2				
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 may require administrative approval from the appropriate distances and exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be				
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	☐ Yes ☐ No ☐ NA				
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. - 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 purguant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Ýcs ☐ Ño				
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				
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 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 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of Subsection F 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					

19.	
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):	
Signature:	Date:
e-mail address:	Telephone:
OCD Approval: Permit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OGD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
	plan prior to implementing any closure activities and submitting the closure report. 60 days of the completion of the closure activities. Please do not complete this
	☐ Closure Completion Date: 9-22-08
Closure Method: Waste Excavation and Removal	☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
23.	September 71 at 1/4:11 at 1 Committee in Trade of Pine Onto
	op Systems That Utilize Aboye Ground Steel Tanks or Haul-off Bins Only: liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
two facilities were utilized.	7
	Disposal Facility Permit Number: R-9166
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate compliance to the items below)	ormed on or in areas that will not be used for future service and operations? No
Required for impacted areas which will not be used for future service	and operations:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
74.	
	following items must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	0 1 0- 01-01-05
Proof of Deed Notice (required for on-site closure)	Pre-rule 50 PIT CLOSURE
☐ Plot Plan (for on-site closures and temporary pits) ☐ Confirmation Sampling Analytical Results (if applicable)	A
Waste Material Sampling Analytical Results (required for on-s	ite closure)
☐ Disposal Facility Name and Permit Number	PosemAfed woken Zule 50
Soil Backfilling and Cover Installation	PERMITED another Chilo
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude	Longitude
25,	
Operator Closure Certification:	
belief. I also certify that the closure complies with all applicable clos	his closure report is true, accurate and complete to the best of my knowledge and ure requirements and conditions specified in the approved closure plan.
Name (Print): Degne Durham	Title: ENGINEER
Signature: A kang Author	Date: 10-10-08
e-mail address: daurham@p/1/, con	m. Telephone: (432) $684-3727$

Accepted for record NMOCD

OCT 1 4 2008

420 3 3 63

Highlander Environmental Corp. Pit Closure Sampling Report

		1 10 0	Siosare Campin	ig report	
Job Number:	115-6402764		Date:	9/22/2008	
Client:	Parrallel Pe	etroleum			
Well Name	John Town	1525-29 #1	and Unbridled	1525-28 #1	
API#	30-005-638	80			
Depth of Pit	1:	5			
Depth to		Orientation of	f pit West		
Groundwater	95'	Burial trench	location from res	erve nit NA	

All pit sample depths are below pit bottom (BPB) Field Chloride Lab Chloride Results Sample Soil to be Soil to be Depth (BPB) (mg/Kg)and and TPH 418.1 excavated left in-situ Location **OVM Results** (mg/kg) (ppm) ΝE 2' 200 mg/kg <100 mg/kg .07 ppm 98.4 200 mg/kg NW <100 mg/kg <10.0 4.5 ppm SE 200 mg/kg <100 mg/kg <10.0 4.5 ppm SW 100 mg/kg 145 mg/kg <10.0 .07 ppm

BGS- Below Ground Surface

BPB- Below Pit Bottom

Work Order: 8092319 Parallel-John Town #1 Page Number: 1 of 2 Chavez County, NM

Summary Report

Gary Miller Tetra Tech

1910 N. Big Spring Street Midland, TX, 79705

Report Date: October 1, 2008

Work Order:

Project Name:

Project Location: Chavez County, NM Parallel-John Town #1

Project Number:

2764

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
174398	NE 2'	soil	2008-09-22	00:00	2008-09-23
174399	NW 2'	soil	2008-09-22	00:00	2008-09-23
174400	SE 2'	soil	2008-09-22	00:00	2008-09-23
174401	SW 2'	soil	2008-09-22	00:00	2008-09-23

	TPH 418.1	TPH DRO	TPH GRO
	TRPHC	DRO	GRO
Sample - Field Code	. (mg/Kg)	(mg/Kg)	(mg/Kg)
174398 - NE 2'	98.4	< 50.0	<1.00
174399 - NW 2'	<10.0⋅	< 50.0	< 1.00
174400 - SE 2'	<10.0	< 50.0	< 1.00
174401 - SW 2'	<10.0	< 50.0	< 1.00

Sample: 174398 - NE 2'

Param	Flag	Result	Units	RL
Benzene		< 0.0100	mg/Kg	0.0100
Toluene		< 0.0100	m mg/Kg	0.0100
Ethylbenzene		< 0.0100	mg/Kg	0.0100
Xylene		< 0.0100	m mg/Kg	0.0100
Total BTEX		< 0.0600	mg/Kg	0.0600
Chloride		<100	mg/Kg	2.00

Sample: 174399 - NW 2'

 $continued \dots$

Report Date: October 1, 2008 Work Order: 8092319 Page Number: 2 of 2 2764 Parallel-John Town #1 Chavez County, NM

sample 174399 continued ...

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	m RL
Benzene		< 0.0100	mg/Kg	0.0100
Toluene		< 0.0100	${ m mg/Kg}$	0.0100
Ethylbenzene		< 0.0100	mg/Kg	0.0100
Xylene		< 0.0100	$_{ m mg/Kg}$	0.0100
Total BTEX		< 0.0600	mg/Kg	0.0600
Chloride		<100	m mg/Kg	2.00

Sample: 174400 - SE 2'

Param	Flag	Result	${ m Units}$	RL
Benzene		< 0.0100	mg/Kg	0.0100
Toluene		< 0.0100	${ m mg/Kg}$	0.0100
Ethylbenzene		< 0.0100	${ m mg/Kg}$	0.0100
Xylene		< 0.0100	${ m mg/Kg}$	0.0100
Total BTEX	,	< 0.0600	${ m mg/Kg}$	0.0600
Chloride		<100	m mg/Kg	2.00

Sample: 174401 - SW 2'

Param	Flag	Result	Units	RL
Benzene		< 0.0100	mg/Kg	0.0100
Toluene		< 0.0100	${ m mg/Kg}$	0.0100
Ethylbenzene		< 0.0100	${ m mg/Kg}$	0.0100
Xylene		< 0.0100	${ m mg/Kg}$	0.0100
Total BTEX		< 0.0600	${ m mg/Kg}$	0.0600
Chloride		145	mg/Kg	2.00