State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr Santa Fe, NM 87505 FEB 1 0 2009

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

6

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	_ 138 ⁸
	☐ Modification to an existing permit	
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,	
below-grade tank	s, 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: Thunder Gulch Fed Com 1525-4 #1H Dual well site with the Grindstone 1525-5 #1H					
API Number: 30-005-63948 OCD Permit Number: NA					
U/L or Qtr/Qtr I Section 5 Township 15S Range 25W County: Chaves					
Center of Proposed Design: Latitude 32°02' 32.00" N Longitude 104°27' 24.03" 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_					
3.					
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					
☐ 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, school, institution or church)	hospital,		
 ☒ 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 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers			
⊠ Signed in compliance with 19.15.3.103 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 Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for		
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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate 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 drying above-grade tanks associated with a closed-loop system.	priate district pproval.		
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		
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 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			
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 (Please complete Boxes 14 through 18, if applicable) - 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 (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 and 19.15.17.13 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 implement waste removal for closure)
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 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 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 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

nd Steel Tanks or Haul-off Bins Only: (Is, drilling fluids and drill cuttings. Use at Disposal Facility Permit Number:	tachment if more than two
Disposal Facility Permit Number:	
•	R-0166
D' IP 'I' D 'AN I .	
•	
occur on or in areas that will not be used f	for future service and operations?
ate requirements of Subsection H of 19.15 on I of 19.15.17.13 NMAC	.17.13 NMAC
7	
he closure plan. Recommendations of ac uire administrative approval from the app atal Bureau office for consideration of ap	propriate district office or may be
Oata obtained from nearby wells	☐ Yes ☐ No ☐ NA
Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
significant watercourse or lakebed, sinkho	le, or playa Yes No
	ation.
or spring, in existence at the time of initial	
	ordinance Yes No
isual inspection (certification) of the propo	sed site
ing and Mineral Division	☐ Yes ☐ No
ogy & Mineral Resources; USGS; NM Ge	cological Yes No
	☐ Yes ☐ No
requirements of 19.15.17.10 NMAC s of Subsection F of 19.15.17.13 NMAC e appropriate requirements of 19.15.17.11 g pad) - based upon the appropriate requirements of Subsection F of 19.15.17. of Subsection F of 19.15.17.13 NMAC d drill cuttings or in case on-site closure ston H of 19.15.17.13 NMAC	NMAC ements of 19.15.17.11 NMAC 13 NMAC
	tions: ate requirements of Subsection H of 19.15 on I of 19.15.17.13 NMAC action G of 19.15.17.13 NMAC The closure plan. Recommendations of activities administrative approval from the application of a

Operator Application Certification:	
I hereby certify that the information submitted with this application is tru	ne, accurate and complete to the best of my knowledge and belief.
Name (Print):	Title: <u>Drilling Engineer</u>
Signature:	Date:
e-mail address: ddurham@plll.com	Telephone: 432-684-3727
OCD Approval: Permit Application (including closure plan)	losure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
	n prior to implementing any closure activities and submitting the closure report. days of the completion of the closure activities. Please do not complete this
22.	
Closure Method:	Alternative Closure Method Waste Removal (Closed-loop systems only)
Instructions: Please indentify the facility or facilities for where the liquitwo facilities were utilized.	Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: uids, drilling fluids and drill cuttings were disposed. Use attachment if more than
	osal Facility Permit Number: R-9166
	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below)	
Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	d operations:
mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation)	closure) NAD: \$\implies 1927 \square 1983
25. Operator Cleaner Contification	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.
Name (Print):	Title: <u>Drilling Engineer</u>
Signature: Aldre Verhem	Date: 2-9-09
e-mail address: ddurham@plll.com	Telephone: 432-684-3 727

Accepted for record NMOCD

FEB 1 9 2009

Page 5 of 5

Tetra Tech

Pit Closure Sampling Report

Job Number:

115-6402896

Date:

12/1/2008

Client:

Parrallel Petroleum

Well Name

Thunder Gulch 1525-4 Fed Com#1

API#

30-005-63948

Depth of Pit

15

Depth to Groundwater Orientation of pi North

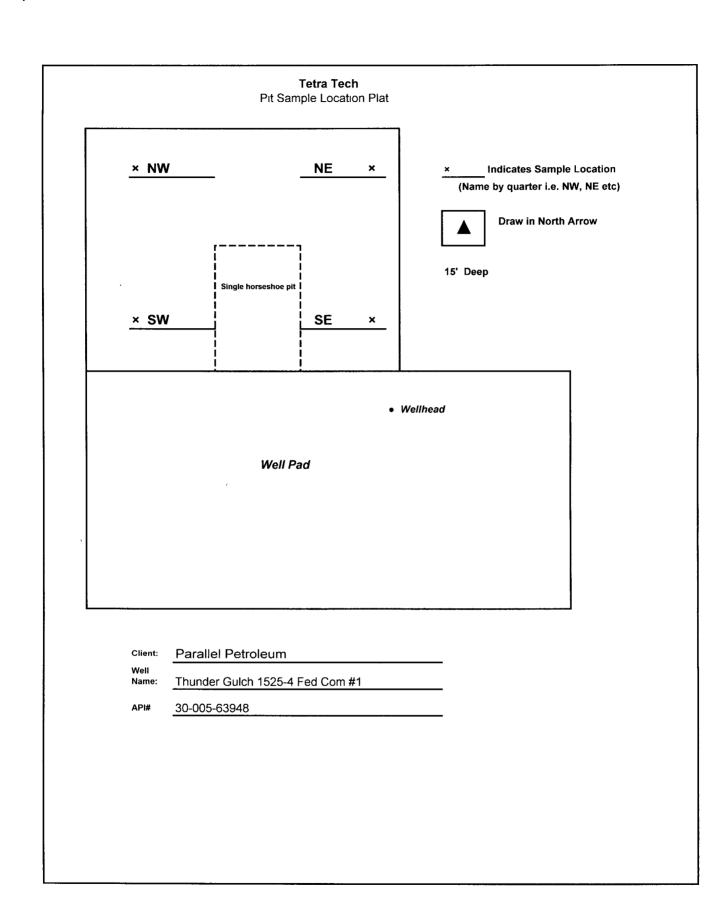
95'

Burial trench location from reserve pit NA

All pit sample depths are below pit bottom (BPB) Field Chloride Lab Chloride Results Sample Soil to be Soil to be and TPH 418.1 Depth (BPB) (mg/Kg)and excavated lleft in-situ Location OVM Results (mg/kg) (ppm) NE 2' 271 mg/kg 150 mg/kg <10.0 .00 ppm NW 1950 mg/kg 0.0 ppm NW 5' 2000 mg/kg 2.1 ppm NW 10' 100 mg/kg 161 mg/kg <10.0 0.0 ppm SE 2' 3450 mg/kg 3300 mg/kg Rock-Solid 0.3 ppm <10.0 5' SE 1850 mg/kg Rock-Solid 0.3 ppm SE 10' 299 mg/kg 0.0 ppm 222 mg/kg SE 12' 199 mg/kg 0.0 ppm <10.0 SW 2' 650 mg/kg 4.0 ppm 5' SW 500 mg/kg 0.0 ppm SW 10' 499 mg/kg Rock-Solid 0.0 ppm SW 15' 199 mg/kg 222 mg/kg <10.0 0.0 ppm

BGS- Below Ground Surface

BPB- Below Pit Bottom



Report Date: November 20, 2008 2896

Work Order: 8111227 Thunder Gulch 1525-4 Fed. Com. #1

Summary Report

Gary Miller Tetra Tech

1910 N. Big Spring Street

Midland, TX 79705

Report Date: November 20, 2008

Page Number: 1 of 2

Chaves Co., NM

Work Order: 8111227

Project Location: Chaves Co., NM

Project Name:

Thunder Gulch 1525-4 Fed. Com. #1

Project Number: 2896

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
179044	NE 2'	soil	2008-11-11	00:00	2008-11-12
179045	NW 10'	soil	2008-11-11	00:00	2008-11-12
179046	SE 2'	soil	2008-11-11	00:00	2008-11-12
179047	SW 15'	soil	2008-11-11	00:00	2008-11-12

	BTEX			TPH 418.1	TPH DRO	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	TRPHC	DRO	$_{ m GRO}$
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
179044 - NE 2'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	<10.0	< 50.0	< 1.00
179045 - NW 10'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	<10.0	< 50.0	< 1.00
179046 - SE 2'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	<10.0	< 50.0	1.12
179047 - SW 15'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	<10.0	< 50.0	1.09

Sample: 179044 - NE 2'

Param	Flag	Result	${ m Units}$	RL
Chloride		271	mg/Kg	2.00

Sample: 179045 - NW 10'

Param	Flag	Result	Units	RL
Chloride		161	mg/Kg	2.00

Sample: 179046 - SE 2'

Report Date: November 20, 2008 Work Order: 8111227 Page Number: 2 of 2 2896 Thunder Gulch 1525-4 Fed. Com. #1 Chaves Co., NM

Param	Flag	Result	Units	RL
Chloride		3450	mg/Kg	2.00

Sample: 179047 - SW 15'

Param	Flag	Result	Units	RL
Chloride		759	mg/Kg	2.00

Report Date: December 11, 2008 2896

Work Order: 8120229 Thunder Gulch 1525-4 Fed. Com. #1

Page Number: 1 of 1

Chaves Co., NM

Summary Report

Gary Miller Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: December 11, 2008

Work Order: 8120229

Project Location: Chaves Co., NM

Project Name:

Thunder Gulch 1525-4 Fed. Com. #1

Project Number: 2896

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
180923	SE 12'	soil	2008-12-01	00:00	2008-12-02
180924	SW 15'	soil	2008-12-01	00:00	2008-12-02

	BTEX			TPH 418.1	TPH DRO	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	TRPHC	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
180923 - SE 12'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	<10.0	< 50.0	4.46
180924 - SW 15'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	<10.0	< 50.0	< 1.00

Sample: 180923 - SE 12'

Param	Flag	Result	Units	RL
Chloride		138	mg/Kg	2.00

Sample: 180924 - SW 15'

Param	Flag	Result	Units	RL
Chloride		222	mg/Kg	2.00

N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia, NM 88210

JUN 20 2007

5. Lease Serial No.

TITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANA	NM NM 112249				
APPLICATION FOR PERMIT TO I	6. If Indian, Allotee or Tribe Name		•		
la. Type of work: DRILL REENTE	R		7 If Unit or CA Agreem		
`			8. Lease Name and We	II No.	36573
ib. Type of Well. Oil Well Gas Well Other	Single Zone Multip	ole Zone	Thunder Gulch	1525-4 Fed Com #1	•
2 Name of Operator Parallel Petroleum Corporation	230387		9_API Well No.	s- 63948	8
3a Address 1004 North Big Spring, Suite 400	3b. Phone No. (include area code)		10. Field and Pool, or Ex		-
Midland, Texas	432/684-3727	1 100	Wolfcamp		
4 Location of Well (Report location clearly and in accordance with am		1 404	11/Sec., T. R. M or Blk	and Survey or Area	-
At surface SHL 1880' FSL AND 190' FEL Sec At proposed prod. zone BHL 1880' FSL AND 660' FEL Sec	4-T15S-R25E	,			
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State	_
5 miles North of Artesia, New Mexico			Chaves	NM	
15. Distance from proposed* location to nearest property or lease line, ft (Also to perset flow until line if any) 660'	16. No. of acres in lease	17. Spacir	g Unit dedicated to this we	11	-
(Also to hearest diffe, unit file, if any)					
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2500'	19. Proposed Depth 5500'	BIA Bond No. on file 8000265			
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	irt*	23 Estimated duration		
GL 3546'	05/15/2007		30 days		
			CONTROLLED WATER	BASIN	-
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No I, shall be a	attached to th	nis form.		
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office) 	Lands, the Item 20 above). 5. Operator certification is a second of the	cation specific inf	ons unless covered by an ex		e
25 5:		-) oto	=
25. Signature Clan	Name (Printed/Typed) Deane Durham)ate 3-19-07	
Title Engineer, Parallel Petroleum Corporation					
Approved by South OHNS SIMIT	7 Name (Printed/Typed)	IC	CIMITZ	JUN 182	לחחל

Acting Assistant Field Manager, Lands And Minerals

APPROVED FOR 2 YEARS

Application approval does not warrant or certify that the applicant holds legal or equitable, title to those rights in the conduct operations thereon. Conditions of approval, if any, are attached.

'itle the applicant to

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for States any false, fictitious or fraudulent statements or representations as to any n

*(Instructions on page 2)

If earthen pits are used in association with the drilling of this agency of the United well, an OCD pit permit must be obtained prior to pit construction.

DECLARED WATER BASE

CEMENT BEHIND THE CASING MUST BE CTA APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED



February 6, 2009

Mr. Mike Bratcher NMOCD District II 1301 W. Grand Avenue Artesia, New Mexico 88210

Re: Parallel Petroleum Corporation,

Thunder Gulch 1525-4 #1H and Grindstone 1525-5 #1H

Dual well location Final Pit Closure results

Dear Mr. Bratcher:

The following information is being submitted with the attached C-144 for the above mentioned wellsite. The second well was drilling at the time the new pit rules were put into effect and this is a Federal location.

Section 15

Protocols and Procedures – based upon the appropriate requirements of 19.15.17.13 NMAC will be followed.

Confirmation Sampling Plan (required) – based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC. The pit a single horseshoe design, the drilling mud and cutting will be removed and the four corners will be sampled. Samples will be analyzed for BTEX, Chlorides, and Total Petroleum Hydrocarbons utilizing both the 418.1 and 8015 methods. Results of the field and lab analysis are attached.

Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Controlled Recovery Inc. Permit Number R-9166

Soil and Backfill Cover Design Specifications – based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC, Backfill will consist of a minimum of 3' native soil and 1' of top soil as per BLM and NMOCD requirements. Due to rock conditions some elevated chlorides were left in the pit area. The bottom of the pit was leveled and a 20 mil liner was bedded with sand and the pit backfilled. Photographs of the liner and backfilled pit area are attached.

Re-vegetation Plan – based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC, This is a Federal well site and the Re-vegetation will be performed to BLM specifications.

Site Reclamation Plan – based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC. This is a Federal well site and the Site Reclamation will be performed to BLM specifications.

If you require any additional information please call 432-682-4559.

Sincerely,

Tel 432,682 4559

Gary Miller, Sr. Project Manager



February 6, 2009

Mr. Mike Bratcher NMOCD District II 1301 W. Grand Avenue Artesia, New Mexico 88210

Re: Parallel Petroleum Corporation,

Thunder Gulch 1525-4 #1H and Grindstone 1525-5 #1H

Dual well location Final Pit Closure results

Dear Mr. Bratcher;

The following information is being submitted with the attached C-144 for the above mentioned wellsite. The second well was drilling at the time the new pit rules were put into effect and this is a Federal location.

Section 24

Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC will be followed.

Confirmation Sampling Plan (required) – based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC. The pit a single horseshoe design, the drilling mud and cutting will be removed and the four corners will be sampled. Samples will be analyzed for BTEX, Chlorides, and Total Petroleum Hydrocarbons utilizing both the 418.1 and 8015 methods. Results of the field and lab analysis are attached.

Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Controlled Recovery Inc. Permit Number R-9166

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Re-vegetation Plan – based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC, This is a Federal well site and the Re-vegetation will be performed to BLM specifications.

Site Reclamation Plan – based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC. This is a Federal well site and the Site Reclamation will be performed to BLM specifications.

If you require any additional information please call 432-682-4559.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Fax 432 682 3946 www.tetratech.com

∕gary Miller, ∕sr. Project Manager