District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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

Submit to appropriate District Office

Tor.

AMENDED REPORT

APPLICATION FOR PE			ENTER, DI	EEPEN	, PLUGBAC			
Oper Paralle	rator Name and Addre el Petroleum Co	ss orn		per				
1004 N. Big Spring Stre	eet, Suite 400,	Midland, T	X. 79701		30 - 0	APPNumber	30017	
³ Property Code	_ 	³ Property N	Jame		1 30 0	*W	ell No.	
35788	Chatte	r Box 1823-	·19 State Co	m 			1	
·	sed Pool 1		¹⁰ Proposed Pool 2					
Four Mile Draw Wolf	fcamp							
		⁷ Surface	Location					
	Range Lot I 23E	dn Feet from			Feet from the 742"	East/West line West	County Eddy	
	⁸ Proposed Botto	om Hole Locat	ion If Differen	t From Si	urface			
UL or lot no. Section Township 1 19 18S	Range Lot I		in the North/So	outh line	Feet from the 742'	East/West line West	County Eddy	
1 10 100		ditional We			7 12	77 050	Ludy	
1 \	Vell Type Code	¹³ Cable	/Rotary		ease Type Code	15 Gr	ound Level Elevation	
	O & G	F			<u>P</u>		4066'	
	Proposed Depth 1D,4550TVD	¹⁸ Forr Wolfe	1		Ontractor NA		²⁰ Spud Date NA	
Depth to Groundwater 460'		e from nearest fres		00'		nearest surface		
Pit: Liner: Synthetic X 12 mils thick				Orilling Met				
Closed-Loop System	, 🗀				X Brine Diese	J/Oil-based □	Gas/Air 🗍	
	²¹ Propos	sed Casing a					040,711	
Hole Size Casing Siz	ize Casing	Casing weight/foot		Setting Depth		ment	Estimated TOC	
12-1/4" 9-5/8"	,,	36#		1400'			Surface	
8-3/4"/7-7/8" 5-1/2"	,	17#	TVD 4550'		NA		Tie back to	
				<u>58'</u>			Surface casing	
1)2) (T								
Describe the proposed program. If this a	application is to DEE	PEN or PI LIG BA	CK give the dat	a on the pre	Re Surve	and propose	d new productive zone	
Describe the blowout prevention program,				u on the pro	soon productive 20	ac una propose	a new productive zone.	
Well to be Drilled as a Horizontal							tains details on the	
cement and mud programs as well 1. Prepare surface location. N							and tost DOD's	
2. Drill 12 ¼" Surface hole to						tor. Histan	and test bor s.	
3. Drill 8 3/4" production hole	to kickoff point	at 3590' drill	and advance	8 ¾" an	d 7 7/8" hole t			
point at approximately 660.	.1' FSL and 742	FWL of the	SW corner of	f the sect	ion and contin	ue drilling	to BHL. (9058'	
MD & 4550' TVD)	ant book to the su	unfano ancina	Doufouata m	auasitu a	nd stimulate o		(am a aifi a	
4. Set 5 ½" to TD and tie ceme procedure to be determined		ui iace casing.	. remorate b	orosity a	ma samulate a	в песезвагу	(specific	
5. Place well on test.	,-							
6. No H2S if anticipated durin								
²³ I hereby certify that the information gives				OIL C	ONSERVAT	ION DIVI	SION	
best of my knowledge and belief. I further constructed according to NMOCD guide			Approved by:					
(attached) alternative OCD-approved pla		7 1	FF		BRYAN G.	ARRANT	r	
Printed name: Deane Durham	leadel	un	Title:		DISTRICT			
Title: Drilling Engineer			Approval Da	UN 0 8	8 2006 E	piration Date:	JUN 0 8 2007	
E-mail Address: ddurham@plll.com								
Date: Ph	hone: 432-684	3727	Conditions of Approval Attached					

DISTRICT 1 1825 N. French Dr., Hobbs, NM 88240

DISTRICT II

DISTRICT III

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Frances Dr.

Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

1000 Rio Brazos Rd., Aztec, NM 87410

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code		Pool Name					
		Undes.	Four	Mile	Draw.	Morrow		
Property Code	Property Name							
	CHATTER B	OX 1823-19	STATE	<u> </u>		1		
OGRID No.	0	perator Name				Elevation		
	PARALLEL PETF	ROLEUM CORF	PORATION	NC		4067'		

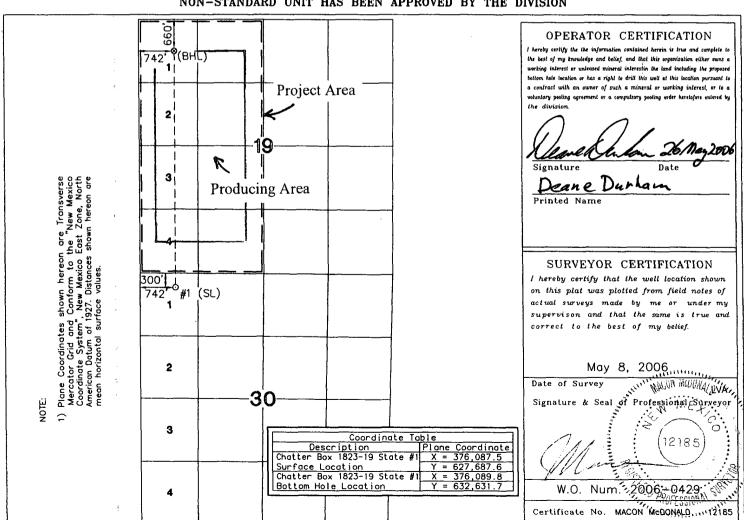
Surface Location

-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	. 1	30	18 S	23 E		300	NORTH	742	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	19	18 S	23 E		660	NORTH	742	WEST	EDDY
Dedicated Acres	Joint or	Infill Co	nsolidation	Code Or	der No.			<u> </u>	L

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





11	PET	A R ROLEL	A L	LEL		IRVEY C	CALCULA	TIOI	N PROGE	RAM
OPER	ATOR:		Parallel P	etroleum Co	orporati	on	Supervisor	s:		
WELL				ox 1823-19						
	LOCA					18-S R-23-E				
BHL	DCATIC)N:			c. 19 T-	18-S R-23-E	ļ	-1		
14044444		<u> </u>	COMM	CM19:		·····	1 Tabakasakasaka	MAGIN	EC.(-/+)	
l									ORR (-/+)	
ļ									CORR (-/+)	0.0
		DATE:	05/24/06		TIME:	8:16 AM	TRUE TO GRID		<u> </u>	₩.
MINIM	JM CURV	ATURE C	ALCULATIO	NS(SPE-3362)	P	ROPOSED	DIRECTION[0.0	TARGET TO CE	
SVY NUM	MD	INC	GRID AZM	TVD	VERT	N-S	E-W	DLS/ 100	ABOVE(+) BELOW(-)	
TIE	0	0.0	0.0	0.0	0.0	0.0	0.0			
1	3590	0.0	0.0	3590.0	0.0	0.0	0.0	0.0	960.0	0.0
2	3600	0.6	0.0	3600.0	0.1	0.1	0.0	6.0	950.0	0.0
3	3610	1.2	0.0	3610.0	0.2	0.2	0.0	6.0	940.0	0.0
4	5098	90.0	0.0	4550.0	960.1	960.1	0.0	6.0	0.0	0.0
5	9058	90.0	0.0	4550.0	4920.1	4920.1	0.0	0.0	0.0	0.0

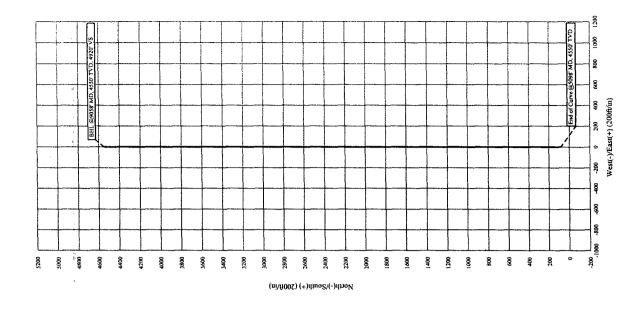
KOP @ 3590' MD BUR = 6 DEG per 100 FT End Curve @ 5098' MD, 4550' TVD BHL @ 9058' MD, 4550' TVD, 4920' VS

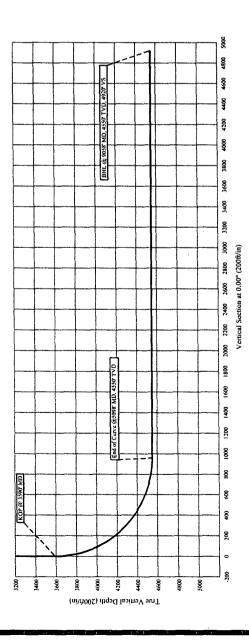
Parallel Petroleum Corp.

Surf. Loc.: Section 30, T 18-S, R 23-E BH Loc.: Section 19, T 18-S, R 23-E Eddy County, New Mexico Chatter Box 1823-19 State #1

COMPANY DETAILS

Parallel Petroleum Corp. 1004 N. Big Spring, Ste 400 Midland, Texas 79701





PARALLEL PETROLEUM CORPORATION CHATTER BOX 1823-19 STATE #1

SL: 742' FWL AND 300' FNL, BHL: 742' FWL AND 660' FNL SL: SEC 30, T18S, R23E, BHL: SEC 19, T18S, R23E EDDY COUNTY, NEW MEXICO

Objective

Drill a horizontal in the Wolfcamp.

Expected Geologic Tops

Est GL from topo: 4067', KB 4079'. Glorieta 1825'
Tubb 2835'
Abo Shale 3425'
Wolfcamp 4550'
Wolfcamp Shale 4740'

Well Geometry

- 9 5/8" casing at 1400'
- kick-off at 3590' for horizontal zone of interest
- 5 1/2" casing through the horizontal Wolfcamp; Cement per completion.

Casing Program

Hole	<u>MD</u> (ft)	Casing	Weight	Grade	Coupling	COMMENT
12-1/4"	0 – 1400	9-5/8"	36	J55	LT&C	
8-3/4" 7-7/8"	0 – 9058'	5-1/2"	17	N80	LT&C	Run through the horizontal lateral.
		<u> </u>	<u> </u>			

Casing Cementing Program

9-5/8" slurry: Lead: 125 sacks (50:50) Poz (Fly Ash): Class C + 5% bwow Sodium Chloride + 10% bwoc Bentonite + 151.7% fresh water. Tail: 200 sacks Class C + 1% bwoc Calcium Chloride + 56.3% fresh water

<u>Note</u>: If cement does not circulate to surface, notify OCD. A temperature survey will most likely be required. Top out to surface with 1" pipe in the annulus.

<u>Note</u>: 5-1/2" Cement per completion procedure. Top of Cement should be a tied-back to surface casing.

Mud Program

<u>Depth</u>	<u>Hole</u>	MW	Visc.	<u>WL</u>	Synopsis
0 - 300	12-1/4"	8.4	32 - 38	No	Fresh gel Lime floc.(outer)
				control	reserve. Fresh gel sweeps, paper
					& cotton seed hulls for losses.
300 - 1400	12-1/4"	8.4 –	28 - 29	No	FRESH WATER mud only to
#		8.6		control	1400 ft. Severe loss potential.
					Circulate inner reserve. LCM:
	l —				paper, fiber, cotton seed hulls.
1400 - 3400	8-3/4"	8.6 –	28 -29	No	Cut brine. Start w/existing & add
		9.2		control	brine t/80K-120K chlorides
g g					
3400 - KOP	8-3/4"	8.9 –	38 - 45	10-12	XCD/Starch polymer as req'd
:		9.5	}		for hole cleaning. Lubricants.
KOP – TD	8-3/4"	8.9 –	38 - 45	10-12	XCD/Starch polymer as req'd
Horizontal	&	9.5			for hole cleaning. Lubricants.
L	7-7/8"				



1004 North Big Spring, Suite 400 • Midland, TX 79701 • Ph: 432-684-3727 • Fax: 432-685-6580

May 26, 2006

Mr. Bryan Arrant New Mexico Oil Conservation Division 1301 W. Grand Ave. Artesia, New Mexico 88210

Re:

Hydrogen Sulfide Potential

South Hope Area Wolfcamp Program Specifically: Chatter Box 1823-19 State #1

Eddy County, New Mexico

Dear Mr. Arrant:

Parallel Petroleum Corporation operates the Boxtop 1921-1 Federal #1 well located in Section 1, T-19-S, R-21-E. The well which was tested in the Wolfcamp formation did not have any indications of hydrogen sulfide from this formation. We believe the potential for it on locations in this area are negligible.

Should you need any additional information regarding this issue, please contact me at the address or phone number listed or email at ddurham@plll.com.

Sincerely,

A. Deane Durham Senior Engineer



Highlander Environmental Corp.

Midland, Texas

November 8, 2005



Mr. Bryan Arrant
State Of New Mexico,
Oil Conservation Division
1301 W. Grand Ave.
Artesia, New Mexico 88210

Re: Parallel Petroleum Corporation, Eddy County, New Mexico permits

Dear Mr. Arrant'

The attached is a permit package contains APD's packages for the Chatter Box 1823-19 State Com #1 well. I have included one original and two copies of the package and a letter covering the Hydrogen Sulfide Potential for the site. The package also includes a form C-101, C-102, detailed drilling plan, horizontal plots and calculations.

The well will be drilled from the same well pad as the Ice Box 1823-30 State #1 (18' west) which was just recently permitted and the location is currently under construction. This is a directional well and the penetration point for the Wolfcamp formation will be 660' FSL of Section 19.

I will be acting as agent for Parallel for the permitting of this well. If you have any questions please call at 432-682-4559 or email me at gmiller@hec-enviro.com.

Gary E. Miller, Agent