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

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

SURFACE CASING

☐ AMENDED REPORT

1220 S. St. Franc	eis Dr., Santa I	e, NM	1 87505		Santa	Fe, NM 875	505					
APPLIC	CATION	FOF				ENTER, D	EEPEI	N, PLUGBA	CK, OF	R ADD A	ZONE	
		Pa	Operator Name a	and Addres	ss O rn .			23	OGRIDI	· i		
1004	N. Big Sp		Street, Suite			X. 79701		3,	³ API Nu	mber 3 484 3	<u></u>	
³ Property	Code		Do	w O C	Property hocolates 19	Name	Com	RECEIVE	D Z	Well No.		
33	480						Com	MAY 0.8 70	06	<u></u>		
(4):1	g cai.		Proposed Pool 1 Wolfcamp	94	6086			MAY Un Profitsed Pool 2				
4011)		vi oneamp			Location						
UL or lot no. S				Lot Idn Feet from 300		m the North/S			East/West Wes		County Edddy	
			⁸ Propos	ed Botto	om Hole Locat	ion If Differe	nt From S	Surface			· · · · · · · · · · · · · · · · · · ·	
		nship	Range	Lot I	dn Feet fro	m the North/S	South line	Feet from the	East/West	- 1	County	
D	5 19	9S_	23E	Ad	ditional We	·	orth	760'	Wes	st	Eddy	
11 Work Type	e Code		12 Well Type Code		13 Cable			Lease Type Code		15 Ground Lev	el Elevation	
N			: G		R			<u>P</u>		4036'		
16 Multip No		85	17 Proposed Depth 88MD,5500'		18 Form Wolfe			19 Contractor NA		²⁰ Spud Date NA		
Depth to Groundy		05	001412,5500		from nearest fres		00,	Distance from	n nearest su			
\ <u>\</u>	ynthetic X _1	2_mi	ls thick Clay	<u> </u>	ume:25,000 bbls		Drilling M					
	Loop System	_				F	resh Water	X Brine Dies	el/Oil-based	I ☐ Gas/Ai	<u>r </u>	
	-		21	Propos	ed Casing a	nd Cement	Prograi	m				
Hole Size		Cas	ing Size		; weight/foot	Setting D		Sacks of Ce	ment	Estim	nated TOC	
12-1/4"			-5/8"	24#			1300'		225		Surface	
8-3/4"		5	-1/2"		17#	TVD 5500'		NA		100'Above		
·						MD 85	88′	Tie be		Glotpota		
								116	Da	CK //	727	
							ta on the p	resent productive z	one and pro	posed new p	roductive zone.	
			gram, if any. Use				will he i	utilized for this	test and	contains d	etails on the	
								summary of thi		contains u	ctans on the	
								and set condu	ctor. Ins	tall and te	st BOP's.	
			le to a minimu	-			_	ement. s DLL/CNL/Ll	DT/CAI	/CD to TD		
								point at approx				
FWL of	f the SW c	ornei	of the section	and co	ntinue drillin	g to BHL. (8	8588' M	D & 4447' TV	D)			
L.			nent to a poin nd stimulate a		,			forate porosity	(first pe	rforations	will be	
	ell on test.	лі) аі	iu siimuiate a	s necess	sary (specific	procedure id	be dete	rinneu).				
7. No H2S	if anticipa	ited (during the dri	lling of	this well							
			n given above is tr				OIL C	CONSERVAT	TION D	IVISION		
			guidelines X, a g			Approved by:						
(attached) alteri	native OCD-a	pprov	ved plan .		1			BRYAN G. A	RRAN	T		
Printed name:	Deane Du	rhar	n & knd	dela	~~	Title:		DISTRICT I				
Title: Drill:	ing Engi	nee	r			Approval Date		0 0 0000	xpiration D	hata.	0 8 2007	
E-mail Address:		lll.com	1]	·								
Date: 6-4						Conditions of A	Approval A		NOTIFY OCD OF SPUD & TIME TO WITNESS CEMENTING OF			

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT_II

1301 W. Grand Avenue, Artesia, NM 98210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	96086 Wildrati Wolf	Name Camp
Property Code	Property Name BOX O CHOCOLATES 1923-5 STATE COM	Well Number
OGRID No.	Operator Name PARALLEL PETROLEUM CORPORATION	Elevation 4036'

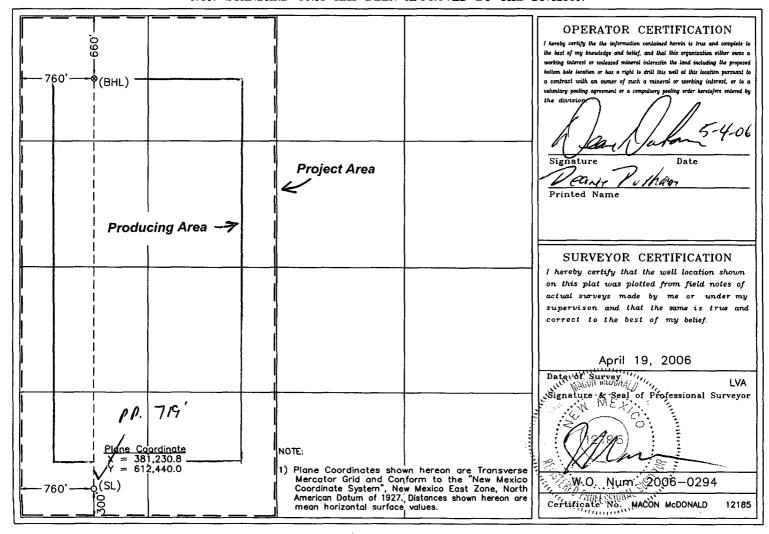
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	19 S	23 E		300	SOUTH	760	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
D	5	19 S	23 E		660	NORTH	760	WEST	EDDY
Dedicated Acres Joint or Infill Consolidation Code					der No.				
}		ì		ì					

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



PARALLEL PETROLEUM CORPORATION BOX O CHOCOLATES 1923-5 STATE COM #1 SL: 760' FWL AND 300' FSL, BHL: 760' FWL AND 660' FNL SEC 5, T19S, R23E EDDY COUNTY, NEW MEXICO

Objective

Drill a vertical well through the Wolfcamp pay. Log and evaluate for a sidetrack to horizontal in the Wolfcamp.

Expected Geologic Tops

GL: 4036', KB 4048'. Glorieta 1780' Tubb 2790' Abo Shale 3435' Wolfcamp 4450' Wolfcamp Shale 4560'

Well Geometry

- 8 5/8" casing at 1300'
- Set kick-off plug for horizontal through the zone of interest
- 5 1/2" casing through the horizontal Wolfcamp; Cement per completion.

Casing Program

<u>Hole</u>	<u>MD</u> (ft)	Casing	Weight	Grade	Coupling	COMMENT
12-1/4"	0 – 1300	8-5/8"	24	J55	ST&C	
8-3/4"	0 – 5500'	5-1/2"	17	N80	LT&C	Run through the horizontal lateral.

Casing Cementing Program

8-5/8" 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

Note: 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.

Note: 5-1/2" Cement per completion procedure. Top of Cement should be a minimum

Tle back

Mud Program

Depth	Hole	MW	Visc.	WL	Synopsis
0 - 1300	12-1/4"	8.4 –	28 - 29	No	FRESH WATER mud only to
		8.6		control	1200 ft. Severe loss potential.
					Circulate inner reserve. LCM:
					paper, fiber, cotton seed hulls.
1300 - 3400	7-7/8"	8.6 –	28 -29	No	Cut brine. Start w/existing & add
		9.2		control	brine t/80K-120K chlorides
3400 – TD	7-7/8"	8.9 –	38 - 45	6 - 10	XCD/Starch polymer as req'd
		9.5			for hole cleaning. Lubricants.
KOP – TD	7-7/8"	8.9 –	38 - 45	6 - 10	XCD/Starch polymer as req'd
Horizontal		9.5			for hole cleaning. Lubricants.

11	PET	AR	RAL	LE		URVEY C	CALCULA	TION	I PROGR	AM		
OPER	ATOR:		Parallel P	etroleum (Corporati							
WELL			Box O Ch	Box O Chocolates 1923-5 State Com #1								
	TION:		Sec. 5 T-1	9-S R-23-E								
API N	UMBER	₹.										
			COMM	ENTS:							:	
									EC.(-/+)			
									ORR.(-/+)			
				·····				TOTAL	CORR.(-/+)	0.0		
		DATE	05/01/06		TIME;	7:54 AM	TRUE TO GRID)		▼		
MINIM	M CURV	ATURE C	ALCULATIO	VS(SPE-3362) P	ROPOSED	DIRECTION	0.0	TARGET T	*.*.*.* <i>.</i> *.*.*.*.*.*.*.*.*.		
SVY NUM	ΜĐ	INC	GRID AZM	TVD	VERT SECT	N-S	E-W	DLS/ 100	ABOVE(+) BELOW(-)	RIGHT(+)		
TIE	0	0.0	0.0	0.0	0.0	0.0	0.0		<u></u>	<u> </u>	_	
1	4030	0.0	0.0	4030.0	0.0	0.0	0.0	0.0	420.0	0.0		
2	4041	1.5	0.0	4041.0	0.1	0.1	0.0	13.6	409.0	0.0		
3	4052	3.0	0.0	4052.0	0.6	0.6	0.0	13.6	398.0	0.0		
4	4688	90.3	0.0	4447.6	419.6	419.6	0.0	13.7	0.3	0.0		
5	8588	90.3	0.0	4427 1	4319.5	4319.5	0.0	0.0	0.3	0.0		

KOP @ 4030' MD BUR = 13.6 DEG per 100 FT End Curve @ 4688' MD, 4447.6' TVD BHL @ 8588' MD, 4427.1' TVD, 4319.5' VS

Parallel Petroleum Corp.

Box O Chocolates 1923-5 State Com #1 Section 5, T 19-S, R 23-E Eddy County, New Mexico

COMPANY DETAILS

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

