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

Date 10-8-07

#### NOTIFY OCD OF SPUD & TIME TO WITNESS CEMENTING OF SURFACE CASING

Form C-101 May 27, 2004

Submit to appropriate District Office

Phone: 432-684-3727

1220 South St. Francis Dr. OCT 11 2007

■ AMENDED REPORT

	1220 S St Fi				4 87505 R PERMIT	тоБ	RII I	Santa F	-		(	OCD-ART	ESIA	A OR AT	DD A 7.0	NE.
		ICATI	ONI		Operator Name	and Addre	ess	, KE-E	71112	, D		2 3	, <sup>2</sup> 00	GRID Numbe		
	100	04 N. B	ig Sp	Pa ring	arallel Petrol g Street, Suit	eum C e 400.	orp. Midla	nd. TX	ζ. 797	01		3	- 3	3 8 7 API Number		•
		rty Code	-6 ~ F				3	Property Na	ame			30	70	15 - 3-	<u>8836</u> II No	
	367	·	•			Paris 1	Draw	State C	OM 1	624-	21			•	7	
	UN	Des.			Proposed Pool 1							10 Pro	posed	Pool 2		
	CoTTony	ned C	امما	<u>.                                    </u>	Wolfcamp	We:	57									
							<sup>7</sup> St	ırface L	ocatio	on						
	UL or lot no A	Section 20	Town 16		Range 24E	Lot	Idn	Feet from 760		North/So	outh line	Feet from the 195'	Ŀa	est/West line E	Cou Ed	
			<b></b>		<sup>8</sup> Propos	sed Bott	om Hol	le Locatio	on If D	ifferen	t From S	lurface				
	UL or lot no	Section 21	Town		Range	Lot	Idn	Feet from 760		_	outh line	Feet from the 660°	Ea	ast/West line	Cou	
	A		16	<u>s</u>	24E	Λ.	ldition	nal Well		matic	<u> </u>	000		E	Ed	uy
	11 Work	Type Code	T		12 Well Type Cod			13 Cable/R		mane		Lease Type Code		<sup>15</sup> Gro	und Level Elev	ation
		N			O & G			R	•			P			3638'	
		ultiple	ĺ	00	17 Proposed Dept			<sup>18</sup> Forma				19 Contractor			20 Spud Date	
	Depth to Grou	<u>vo</u>	50'	89	12MD,4435	Distance from nearest fre			Camp 5000'		NA Distance from the same			NA surface water 600'		
	<u> </u>	Synthetic			7 4:1 01 1								om nea	rest surface w	aler 000	
	'	d-Loop Sys			nils thick Clay [	PIL V	olume 23	5,000 bbls			Drilling M	Brine □ D	Nagal/C	Na board 🖂	Coo/Arr 🗖	
	Close	u-Loop Sys	item L		21	D.,	- 1 C-		10-				nesei/C	ni-baseu	Gas/All	
		····	<del></del>		ŀ			sing an				1		<del>-  </del>		
	Hole S				ing Size	Casing	g weight/	/foot	Se	tting De		Sacks of C		-	Estimated 1	
	7-7/8		-		-5/8" -1/2"		24#		ту	1 <b>50</b> 0 D 44		32: NA			Surfac Tie bac	
			<del> </del>		-1/2		1/#			D 89		INF	, ,	*	To surfa	
								<u> </u>	171	D 07			_		casing	
X	Derify	5 Su	Dmi	7	CBLCA.	Temi	s Su	+ 044							<del></del>	
	22 Describe th				f this application	s to DEE	PEN or P	PLU <del>O BÁ</del> C		the data	on the pro	esent productive	zone a	nd proposed	new product	ive zone
					gram, if any Use ontal Wolfcan					nlan v	will be u	tilized for the	s test	and conta	ins detail:	s on the
	cement and	l mud pr	ograr	ns as	s well as the d	irection	al infor	rmation.	The f	ollowi	ng is a s	ummary of t	nis pla	an.		
	1. Prep	are surfa	ice loc	atio	on. Move in a	nd rig t	ıp drill	ling rig,	spud v	vell an	nd drill a	and set cond	uctor.	. Install a	nd test Bo	OP's.
	2. Drill 3. Drill	7 7/8" n	ace no	ole t tion	o a minimum hole 5000' T	depth o Dande	01 1 <b>2</b> 00 valuati	Set 8	5/8"ca	ising a	ind cemo	ent. e DLL/CNL	/L.DT	'/CAL/GR	to TD	
	4. Set k	ickoff p	oint a	t 358	80' and drill a	ind adv	ance h	ole to a '	Wolfe	amp p	enetrati	on point at a	ppro	ximately 7	60' FNL	and
	1				21 and contin		_	,				•	•	·		
				tie	cement back	to surfa	ce casi	ng. Per	forate	poros	ity and	stimulate as	neces	sary (spec	ific proce	dure to
	1	termined	-	No I	H2S is anticip	ated du	ring th	ae drillin	ıa of tl	nic wal	13					
					nd common r							1624-20 #8.				
			<u>-</u>		n given above is ti							ONSERVA	TIO	N DIVIS	ION	
					orther certify tha						OIL C	JINSERVA	1101	DIVID	IOIN	
	(attached) al				guidelines X, a g ⁄ed plan ∑.	епегат ре		, or an	Approve	ed by.						
	ļ				1/2	1			T:41			BRYAN G			ZIGAL	
	Printed name		Dur	nan	" temp	راکسی ا	yw		Title.	1.5	00±		- TT (	tion Date 0	) T 1 5 2	ODE
	Title, Drilling		· · · · · · · · · · · · · · · · · · ·						Approva	l Date.	UC   1	5 2007	Expira	tion Date		
	E-mail Addre	ss ddurha	ım@pll	l.com	)			1								

Conditions of Approval Attached

DISTRICT I 1625 N. French Dr., Hobbs, NM 86240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 1220 South St. Frances Dr. Santa Fe, NM 87505

□ AMENDED REPORT

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

			WELL LOC										
API N	lumber		-	Pool Code			UNDEZ			Pool Name			
Property Co	de	ſ		Property Name					(Neli;	w	Tolfeamp.	(M62)	
Troperty Co	ode			PARIS DRAW STATE COM 1624–21							7	ipei	
OGRID No.						ator Nan			·		Elevatio	n	
23038	7		PA	RALLE	L PETRO	LEUM	CORP	ORATION	١		3638	3'	
					Surfa	ce Loc	ation		·				
UL or lot No.	Townshi	ip Range	Lot Idi	n Feet fro	m the	North/S	South line	Feet from t	he	East/West line	County		
A 20 1			3   24 E		76	0	NORTH		195		EAST	EDDY	
<u> </u>		···	Bottom	Hole	Location 1	f Diffe	rent F	rom Sur	face				
UL or lot No.	Section	Township Range		Lot Idi	n Feet fro	m the	North/S	South line	Feet from t	he	East/West line	County	
Α	21	16 S	6   24 E	]	76	0	NO	RTH	660		EAST	EDDY	
Dedicated Acres	Joint or	Infill	Consolidation	Code	Order No.					4.			
320				1									
NO ALLOWAB	LE WILL		SSIGNED TO NON-STANDA							EEN	CONSOLIDATE	D OR A	
NOTE:									OPE	DATC	OR CERTIFICA	TION	
Mexico Coordina	cator Grid o ate System' n Datum o	and Confo ", New Mo f 1983. [	orm to the "New exico East Zone, Distances shown						the best of my k working interest bottom hale locatu a contract with	nowledge as or unleased on or has o an owner	formation contained herein is tru and belief, and that this organizal d mineral interestin the land incli a right to drill this well at this lo r of such a mineral or working t or a compulsory pooling order her	non enther owns a using the proposed catron pursuant to unterest, or to a	
	(SL) (PP) (BHL)								Signatur	ane	e Dunlam	1007	
Project Area  Project Area  SURVEYOR CERTIFICA  I hereby certify that the well locate on this plat was plotted from field actual surveys made by me or supervison and that the same is correct to the best of my belief								on shown notes of under my true and					
September 17, 2007													

	PET	A R	A L	LE PORATIO		JRVEY (	CALCUL	ATION	I PROGR	AM	
OPER	ATOR:		Parallel P	etroleum (	Corporatio	on	Superviso	rs:			
WELL			Paris Drav	w State Co	m 1624-2	1 #7				]::: :	
LOCA	TION:		N/2 Sec. 2	1 T-16-S F	R-24-E						
		-	COMM	IENTS:			1	·		-	
		*	GOIII	ILITIO.			+	MAG D	EC.(-/+)		• • • •
									ORR.(-/+)		
									CORR.(-/+)	0.0	
		DATE:	10/02/07		TIME:	1:24 PM	TRUE TO GRI			•	7
MINIMU	JM CURV	ATURE C	ALCULATION	NS(SPE-3362	) P	ROPOSED	DIRECTION	90.0	TARGET T		G
SVY			GRID		VERT			DLS/	ABOVE(+)	RIGHT(	+)
NUM	MD	_INC	AZM	TVD	SECT	N-S	E-W	100	BELOW(-)	LEFT(-)	
TIE	0	0.0	0.0	0.0	0.0	0.0	0.0				
1	3580	0.0	0.0	3580.0	0.0	0.0	0.0	0.0	855.0	0.0	
2	3590	0.7	90.0	3590.0	0.1	0.0	0.1	7.0	845.0	0.0	
3	3600	1.4	90.0	3600.0	0.2	0.0	0.2	7.0	835.0	0.0	
4	4924	90.0	90.0	4435.0	855.9	0.0	855.9	6.7	0.0	0.0	
5	8912	90.0	90.0	4435.0	4844.3	0.0	4844.3	0.0	0.0	0.0	

KOP @ 3580' MD BUR = 6.7 DEG per 100 FT End Curve @ 4924' MD, 4435' TVD BHL @ 8912' MD, 4435' TVD, 4844' VS

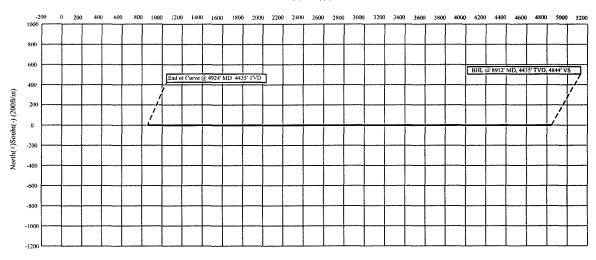
### Parallel Petroleum Corp.

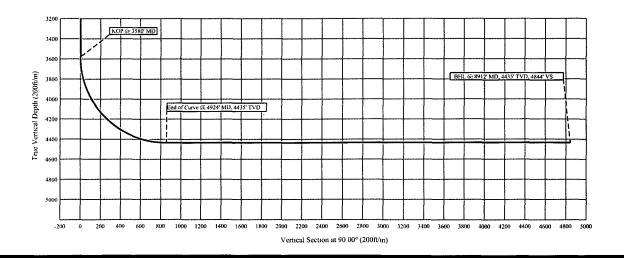
#### COMPANY DETAILS

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

Paris Draw State Com. 1624-21 #7 N/2 Sec. 21, T-16-S, R-24-E Eddy County, New Mexico

East(+)/West(-) (200ft/in)





#### PARALLEL PETROLEUM CORPORATION PARIS DRAW STATE COM 1624-21 #7

SL: 760' FNL AND 195' FEL, BHL: 760' FNL AND 660' FEL SL: SEC 20, T16S, R24E, BHL: SEC 21, T16S, R24E EDDY COUNTY, NEW MEXICO

#### **Objective**

Drill a horizontal in the Wolfcamp.

#### **Expected Geologic Tops**

GL: 3638', KB 3654'. Glorieta 1365' Tubb 2375' Abo Shale 3020' Wolfcamp 4435' Wolfcamp Shale 4545'

#### **Well Geometry**

• 8 5/8" casing at 1500'

- kick-off at 3580' for horizontal zone of interest
- 5 1/2" casing through the horizontal Wolfcamp; Acid soluble cement per completion.

#### **Casing Program**

Hole	MD	Casing	Weight	Grade	Coupling	COMMENT
	(ft) //	0				
11"	0 –	8-5/8"	24	J55	ST&C	
	1 <b>5</b> 00					
7-7/8"	0 –	5-1/2"	17	N80	LT&C	Run through the
	8912'					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

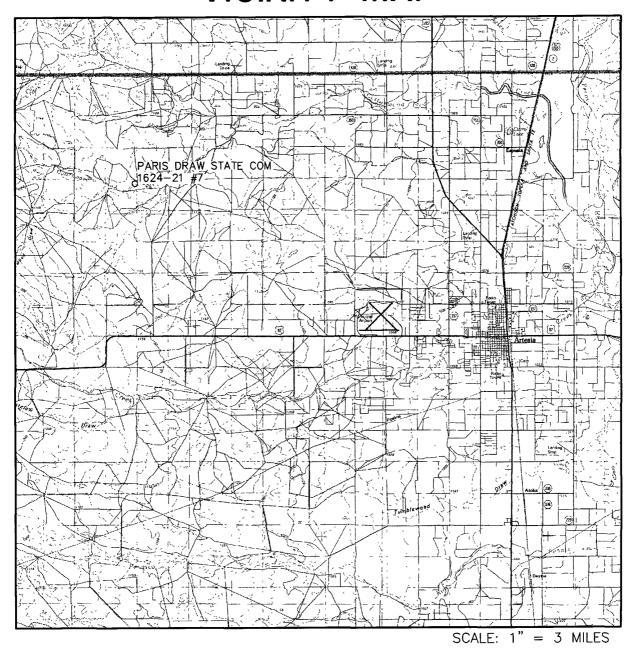
<u>Note</u>: If cement does not circulate to surface, notify OCD. A temperature survey will be required. Top out to surface with 1" pipe in the annulus.

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

#### **Mud Program**

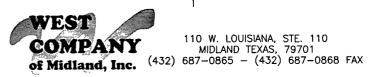
Depth/	Hole	MW	Visc.	WL	Synopsis
0 - 1/500	11"	8.4 –	28 - 29	No	FRESH WATER mud only to
		8.6		control	1500 ft. Severe loss potential.
1100					Circulate inner reserve. LCM:
					paper, fiber, cotton seed hulls.
1300 - 3000	7-7/8"	8.6 -	28 -29	No	Cut brine. Start w/existing & add
		9.2		control	brine t/50K-60K chlorides
3000 – KOP	7-7/8"	8.9 –	38 - 45	12-14	XCD/polymer as req'd for hole
		9.5			cleaning. Lubricants.
KOP – TD	7-7/8"	8.9 –	38 - 45	12-14	XCD/polymer as req'd for hole
Horizontal		9.5			cleaning. Lubricants.

# VICINITY MAP

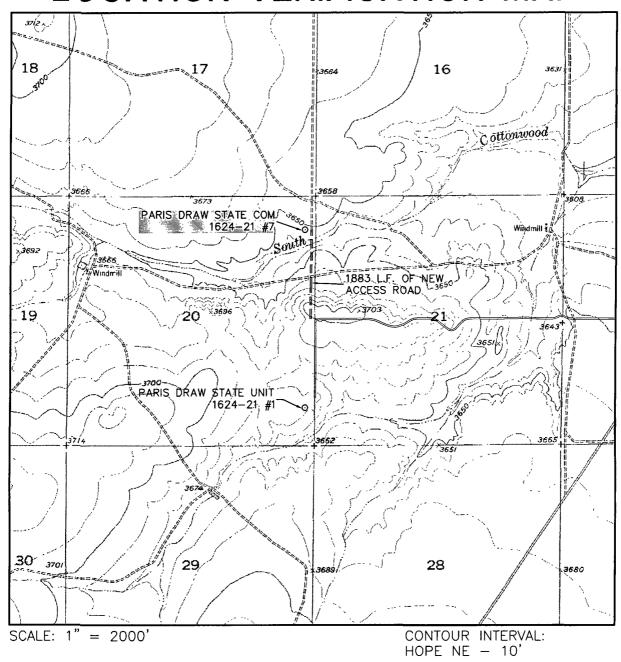


SEC. 20 TWP. 16-S RGE. 24-E SURVEY \_\_\_ N.M.P.M. COUNTY CHAVES DESCRIPTION 760' FNL & 195' FEL ELEVATION 3638' OPERATOR PARALLEL PETROLEUM CORPORATION LEASE PARIS DRAW STATE COM 1624-21





## LOCATION VERIFICATION MAP



SEC. 20 TWP. 16-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY CHAVES

DESCRIPTION 760' FNL & 195' FEL

ELEVATION 3638'

OPERATOR PARALLEL PETROLEUM CORPORATION

LEASE PARIS DRAW STATE COM 1624-21

U.S.G.S. TOPOGRAPHIC MAP HOPE NE



