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 RECEIVED Submit to appropriate District Office

1220 South St. Francis Dr. OCD-ANTECM

JUN 2 0 2006

☐ AMENDED REPORT

1220 S. St. FI	rancis Dr., S	anta re, N	MI 8/303		Santa	10, 111	<b>VI</b> 0750	,5					
APPL	ICATIO	ON FO	R PERMIT			ENTE	R, DE	EPEN,	PLUGBA	CK, OR			
		P	arallel Petro	leum Co	orp.				2303	27			
		g Sprin	g Street, Sui	te 400, ]	Midland, T		701		30	API Nu	mber _	3831	
	erty Code	,		В	Property lernardini 14	ty Name "Well No.						No.	
<u>.</u>	806		Proposed Pool 1			<sup>10</sup> Proposed Pool 2							
W. Idean Wolfcamp													
	<sup>7</sup> Surface						e Location						
UL or lot no.	Section 27	Township 14S	Range Lot Idn Feet fro 26E 39					Feet from the East/West W		line	County Chaves		
			<sup>8</sup> Propo	sed Botto	om Hole Locat	ion If I	Different	From Su	rface				
UL or lot no.	Section 22	Township 14S	Range 26E	Lot I	dn Feet fro		North/So		Feet from the 744'	East/West	line	County Chaves	
			***************************************		ditional We		rmatio						
	Type Code N		12 Well Type Co O & G	de	<sup>13</sup> Cable	Rotary		<sup>14</sup> Le	ease Type Code		<sup>15</sup> Ground Level Elevation 3424'		
	1N fultiple	_	17 Proposed Dep	oth		mation	-+	15	Contractor			Spud Date	
	No		799MD,5235		Wolf				NA			NA	
Depth to Grou					e from nearest fres				Distance from	n nearest sur	face wa	iter 3000'	
Pit: Liner: Synthetic X _12 _ mils thick Clay  Pit Volume:25,000 bbls									—				
21									Brine Die	sel/Oil-based	LL G	as/Air 🔲	
				Propos	ed Casing a	nd Ce	ment I	rogram					
Hole S			asing Size	Casing weight/foot		S	Setting Depth		Sacks of Cement		Estimated TOC		
12-1/ 8-3/			9-5/8" 5-1/2"	36#			1400' TVD 5235'		325 NA		Surface Tie back		
0-3/4	4		)-1/2	17#		MD 9799'			IVA			To surface	
1) 20:4	4 h	CAL	or Temp	S. S.		IVID 3733					casing		
		l program.	If this application	is to DEEI	PEN PLUG BA		e the data	on the pres	ent productive z	one and pro	posed n	new productive zone.	
ľ	_	_	rogram, if any. Us				ım the r	and of the	Assault #1	The atta	chod d	lrilling plan will	
						_						. The following	
is a summ	ary of thi	s plan.			·								
1. Prep	are surfa	ice locati	ion. Move in	and rig w	p drilling rig	, spud	well an	d drill a	nd set condu	ctor. Ins	tall ar	nd test BOP's.	
1			ole to a minim hole 5500° TI	_			•	-		DT/CAL/	CD to	TD	
1	_		177' and drill			_	_						
744'	FWL of	the secti	on 22 and con	tinue dri	illing to BHL	. (9799	' MD &	2 5235' T	CVD)	-	•		
1			e cement back	to surfa	ce casing. Pe	rforate	e poros	ity and st	imulate as n	ecessary	(speci	fic procedure to	
	be determined). 6. Place well on test.												
<ul><li>7. No H2S is anticipated during the drilling of this well.</li></ul>													
<sup>23</sup> I hereby ce	rtify that the	e informati	on given above is	true and co	mplete to the	OIL CONSERVATION DIVISION						ON	
, ,	best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines X, a general permit , or an Approved by:												
(attached) alternative OCD-approved plan .							rod oy.		BRYAN G	. ARRA	NT		
Printed name	Printed name: Deane Durham & Bulkhown								DISTRIC			GIST	
Title: Dri	lling E	Engine	er			Approv	val Date.	N 28	2006 E	Expiration D	ate:	JUN 2 8 200	
E-mail Addre	ess: ddurha	ım@plll.co	m					-					
Date: 6-16-2006 Phone: 432-684-3727				Condit	ions of Ap	proval Atta	ched	SEE	Rev	2552			

As a condition of approval, if during pit construction water is encountered or if water seeps in pits after construction the OCD MUST BE CONTACTED IMMEDIATEY!

USGS information shows this area to be water sensitive.

NOTIFY OCD OF SPUD & TIME TO WITNESS CEMENTING OF SURFACE CASING DISTRICT J 1625 N. French Dr., Hobbs, NM 88240

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

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

API Number	Pool Code	Pool Name				
	96086	Wild cat	Wolfcamp			
Property Code	Proper	Well Number				
	BERNARDINI	1				
OGRID No.	Operate	Elevation				
ĺ	PARALLEL PETROLI	EUM CORPORATION	3425'			

WELL LOCATION AND ACREAGE DEDICATION PLAT

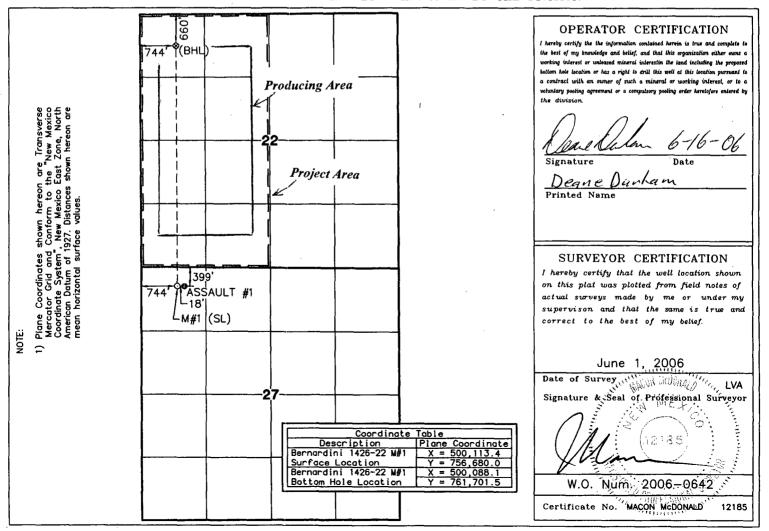
### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	14 S	26 E		399	NORTH	744	WEST	CHAVES

### 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 D	22	14 S	26 E		660	NORTH	744	WEST	CHAVES
Dedicated Acres	Joint or	r Infill Co	nsolidation	Code Or	der No.				
320		j							

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 BERNARDINI 1426-22 M#1

SL: 744' FWL AND 399' FNL, SEC 27, T14S, R26E BHL: 744' FWL AND 660' FNL, SEC 22, T14S, R26E CHAVES COUNTY, NEW MEXICO

### **Objective**

Drill a horizontal well in the Wolfcamp.

### **Expected Geologic Tops**

GL: 3425', KB 3437'. Glorieta 2525' Tubb 3560' Abo Shale 4300' Wolfcamp 5235' Wolfcamp Shale 5420'

### Well Geometry

- 9 5/8" casing at 1400"
- 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"	0 – TD'	5-1/2"	17	N80	LT&C	Run through the horizontal lateral.
	TD					horizontal lateral.

### **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

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 depth to tie back to the 9-5/8" casing.

### Mud Program

Depth	<u>Hole</u>	MW	Visc.	WL	Synopsis
0 - 1400	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.
1400 - 4100	8-3/4"	8.6 –	28 -29	No	Cut brine. Start w/existing & add
		9.2		control	brine t/80K-120K chlorides
KOP – TD	8-3/4"	8.9 –	38 - 45	6 - 10	XCD/Starch polymer as req'd
Horizontal	&	9.5			for hole cleaning. Lubricants.
	7-7/8"				

11	PET	AR	A L	PORATIO		IRVEY C	CALCULA	ΤΙΟΙ	N PROGE	RAM
OPER	ATOR:		Parallel P	etroleum (	Supervisors:					
WELL			Bernardin	i 1426-22 l	VI#1					
LOCA	TION:		Sec. 22 T-	14-S R-26-	·E					
API N	UMBEI	₹;								
			COMM	ENTS:						
			,					GRID C	EC.(-/+) ORR.(-/+) CORR.(-/+)	0.0
		DATE	06/14/06		TIME:	2:12 PM	TRUE TO GRID	)		▼
MINIM1	JM CURV	ATURE (	ALCULATIO	NS(SPE+3362	) P	ROPOSEDI	DIRECTION[	0.0	TARGET 1	RACKING NTER
SVY NUM	MD	INC	GRID AZM	TVD	VERT SECT	N-S	E-W	DLS/ 100	ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)
TIE	0	0.0	0.0	0.0	0.0	0.0	0.0			
1	4177	0.0	0.0	4177.0	0.0	0.0	0.0	0.0	1058.0	0.0
2	4187	0.6	0.0	4187.0	0.1	0.1	0.0	6.0	1048.0	0.0
3	4197	1.2	0.0	4197.0	0.2	0.2	0.0	6.0	1038.0	0.0
4	5841	90.0	0.0	5235.5	1060.7	1060.7	0.0	5.4	-0.5	0.0
5 ·	9799	90.0	0.0	5235.5	5018.7	5018.7	0.0	0.0	-0.5	0.0

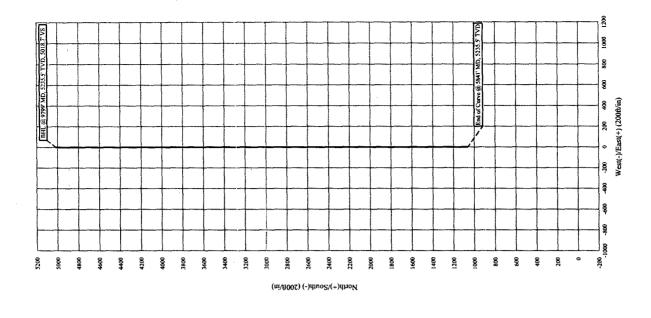
KOP @ 4177' MD BUR = 5.4 DEG per 100 FT End Curve @ 5841' MD, 5235.5' TVD BHL @ 9799' MD, 5235.5' TVD, 5018.7' VS

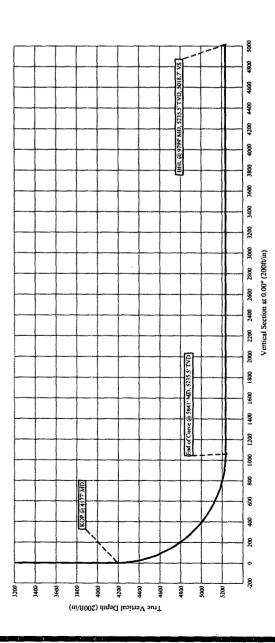
# Parallel Petroleum Corp.

Bernardini 1426-22 M#1 Section 22, T 14-S, R 26-E Chaves County, New Mexico

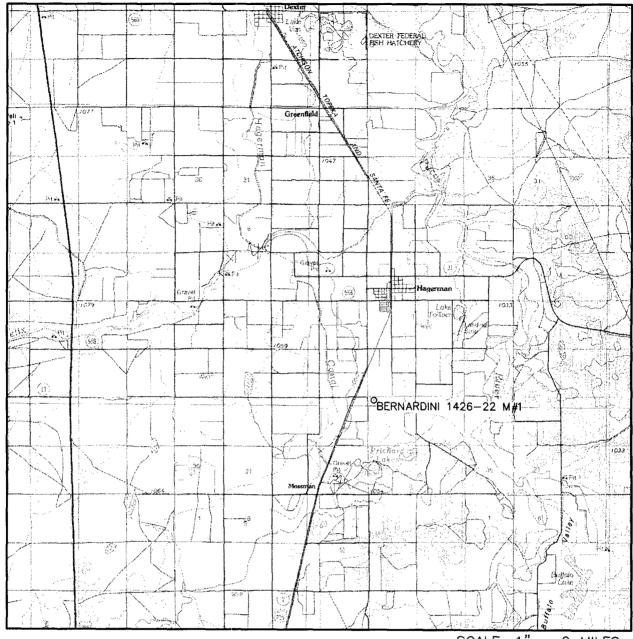
COMPANY DETAILS

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





# VICINITY MAP



= 2 MILES SCALE: 1"

SEC. 2/ IV	WP. 14-5 RGE. 26-E					
SURVEY	N.M.P.M.					
COUNTY	CHAVES					
	399' FNL & 744' FWL					
ELEVATION 3425'						
OPERATOR PARALLEL PETROLEUM CORPORATION						
<del></del> _	RNARDINI 1426-22 M					



WEST

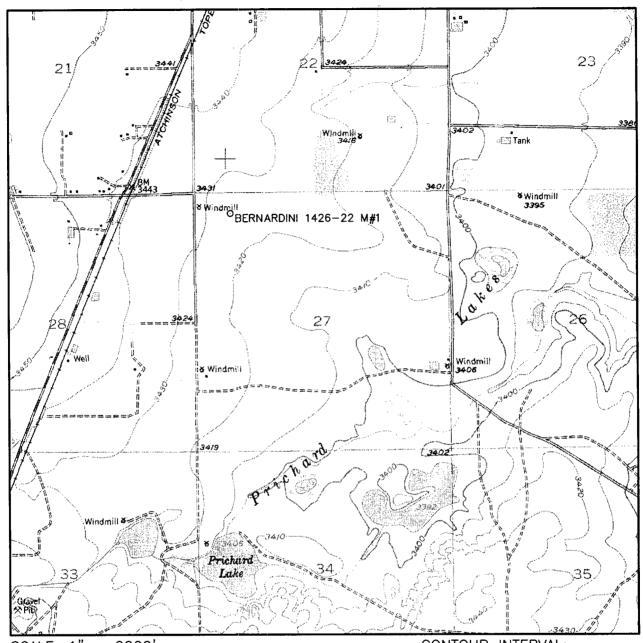
COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc. (432) 687–0865 – (432) 687–0868 FAX

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

HAGERMAN, N.M.

CONTOUR INTERVAL: HAGERMAN - 10'

SEC. 27 TWP. 14-S RGE. 26-E SURVEY N.M.P.M. COUNTY \_\_\_ CHAVES DESCRIPTION 399' FNL & 744' FWL ELEVATION 3425' OPERATOR PARALLEL PETROLEUM CORPORATION LEASE BERNARDINI 1426-22 M U.S.G.S. TOPOGRAPHIC MAP



WEST

COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc. (432) 687–0865 – (432) 687–0868 FAX



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

June 16, 2006

New Mexico Oil conservation Division 1301 W. Grand Ave. Artesia, New Mexico 88210

Re: Hydrogen Sulfide Potential

Hagerman Area Wolfcamp Program

Section 27, T14S, R26E Chaves County, New Mexico

### Gentlemen:

Parallel Petroleum Corporation operates the Seabiscuit #1 well located in Section 33, T-14-S, R-26-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. There are no occupied dwellings within 1.5 miles of this well.

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

Sincerely,

Deane Durham Drilling Engineer