District I			State	of New Mex	cico			Form C-101	
1625 N. French Dr., Hobb District II	As a condition	n of approva	l, if during	s and Natur	As a co	ndition of a	oproval. a	May 27, 2004	
District III	pit constructio	on water is		ervation I	closure	plan must l	e submitte	d strict Office	
1000 Rio Brazos Road, .				th St Frat		proved prior		D REPORT	
1220 S St Francis Dr	after construct BE CONTAC			Fe. NM 8'	<u>comme</u>	ncement of	<u>closure</u>	UREFORT	
APPLICATIO					DIOCED		UK. UK A	UP A ZONE	
	<sup>1</sup> Operat	or Name and Addr Petroleum C	xx 72	0387			<sup>2</sup> OGRID Numb	er	
1004 N. Bi	g Spring Stree	et, Suite 400,				30-0	API Number		
' Property Code			' Property	Name				ell No.	
3520	<sup>9</sup> Proposed	Pool 1	Affirm			<sup>10</sup> Drong	osed Pool 2	1	
WILPCA			( shant	ē]		Пор	Sed F0012		
			<sup>7</sup> Surface	Location				· · · · · · · · · · · · · · · · · · ·	
UL or lot no. Section N 33	Township Ra	ange Lot 6E	Idn Feet from 40		South line	Feet from the 1880"	East/West line W	County Chaves	
		<sup>8</sup> Proposed Bot			nt From S			• <u>••••</u> •••••	
UL or lot no. Section C 33	Township Ra	ange Lot 6E		om the North/S	outh line	Feet from the 1880'	East/West line W	County Chaves	
	170 2		dditional We			1000			
<sup>11</sup> Work Type Code	<sup>12</sup> Well	Type Code		e/Rotary	14	Lease Type Code P	<sup>15</sup> Gro	ound Level Elevation 3446'	
<sup>16</sup> Multiple	<sup>17</sup> Prop	oosed Depth	-	mation		<sup>19</sup> Contractor		<sup>20</sup> Spud Date	
/ <u>No</u>		<u>),5244TVD</u>	Wolf	amp NA				<u>NA</u>	
Depth to Groundwater 3	10% / 201	<u>.</u>	e from nearest fres	h water well 150	)0'	Distance from	nearest surface w	vater 3500'	
Pit: Liner: Synthetic		Clay 🔲 Pit Vol	ume:10,000 bbls		illing Meth				
Closed-Loop Sys		<sup>21</sup> Dron o				X Brine Diese	el/Oil-based	Gas/Air	
			sed Casing a			1	<u> </u>		
Hole Size 17-1/2"	Casing Size 13-3/8"	Casir	ng weight/foot 48#	Setting D 300	_	Sacks of Ce 440	ment	Estimated TOC Surface	
12-1/4"	9-5/8"		36#	1300		325		Surface	
8-3/4"	5-1/2"		17#		TVD 5244'			4310'	
<sup>22</sup> Describe the proposed		il gas e	Water brea	tring Zone	<u>5</u>	1x- Gier			
Describe the blowout pre					on the pre	sent productive zor	e and proposed r	iew productive zone.	
Well to be Drilled a								<u>ains details on the</u>	
<u>cement and mud pr</u> 1. Prepare surfa	ograms as well a location. Mo							and test BOP's	
	surface hole with								
	termediate hole								
	oduction hole 55 bint at 4872' and								
	n continue drilli				ренена	ion point at af	proximatery	700 anu 730	
6. Set $5\frac{1}{2}$ to T	D and cement to				e as nece	ssary (specific	procedure to	be determined).	
7. Place well on 8. No H2S is and	test. ticipated during	the drilling o	f this well.	$\sim$					
<sup>23</sup> I hereby certify that the				XIII		ONSERVAT		SION	
best of my knowledge and constructed according to		•		Approved by:					
(attached) alternative O				Approved by:	N. J		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N. A.	
Printed name: Deane	Durham	eane l.	shan	Title:	ente	et the	Segre	whow	
Title: Drilling H	Ingineer			Approval Date	NDV	022005 E	xpiration Date:	VAV 0.9 2000	
E-mail Address: ddurha	m@plll.com]						,	0 0 2000	
Date: 10-24-0	75 Phor	ne: 432-684-	3727	Conditions of A	pproval At	tached 🗌 💪 ,	TAOSS CP	mentine of	
<u> </u>	<b></b>			• <u>••••</u> •••		13/8 0	1518" Cas		

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DISTRICT I

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1625 N. French Dr., Hobbs, NM 88240

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DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT\_IV

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2040 South Pacheco, Santa Fe, NM 87505

#### State of New Mexico

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Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

#### OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

□ AMENDED REPORT

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#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number			Pool Code		Pool Name				
<u>.</u>		1	90	6086			WILDCAT	Well Number		
Property (	Code					rty Nam RMED			weii Number	
OGRID N	0.		PA	RALLEL	0pera PETROL		Elevation 3446'			
					Surfac	e Loca	ation		<b>L</b>	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West line	County
N	33	14 S	14 S 26 E		40	0	SOUTH	1880	WEST	CHAVES
			Bottom	Hole Lo	cation I	Diffe	rent From Surf	ace		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/West line	County
C Dedicated Acre	33	14 S	26 E	Codo Do	der No.		NORTH	1880	WEST	CHAVES
Jedicated Acres	s Joine e				uer NO.					
	BLE WILI	BE ASSI	GNED TO	THIS CO	MPLETIO	UNT	IL ALL INTERES	S HAVE BEEN	CONSOLIDAT	ED OR A
							PROVED BY THE		001100110111	
		<u> </u>		9			· · · · · · · · · · · · · · · · · · ·	OPERATO	OR CERTIFICA	TION
		560		ا	Coor	dingte	Table		y certify the the i	
	1880'	Ī	704	Affirm	Description ed #1	<u> </u>	Plane Coordinate X = 495,992.1		n is true and comp wledge grad belief.	plete to the
	19880	(BHL)		Affirn			Y = 746,823.0 X = 495,991.1			
				Affirn			Y = 747, 122.8 X = 495, 977.3	1 K	1	
					Hole Loco	ition	Y = 751,063.3	Signature	7	
								1 CTAIN	E. Miller	
		ļ						Printed Nam	e	
				Prov	eer a	<b>N</b> <i>a</i> -		Title	····	
									1-05	
				K				Date		
							<u> </u>		OR CERTIFICA	TION
				Pro	ducing				y that the well loca	
					string		~	11 -	as plotted from fie made by me or	- 1
		1							ud that the same i e best of my beli	
		ļ	V						h	.
								Date Surveye	ber13, 2005	W There
								Signature & Professional	Seal of MET	
		1							(12185)	
		(PP)		NOTE:					nin (1907)	
	1880' —	#1 (C) \	<u> </u>	1) Plane (	Coordinates	shown !	hereon are Transverse	W.O. N	um. 2005–09	964
<b>  -</b>	1880'	ا (SL) #1 - (SL) - (C	8 1	Coordin	nate System'	', New M	m to the "New Mexico lexico East Zone, North tances shown hereon are	Certificate N	MACON MCDONA	LD. 12185
			— 768' ——	mean t	horizontal su	irface va	lues.		"FOFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	
<u> </u>				U				_) L		

### PARALLEL PETROLEUM CORPORATION AFFIRMED #1 SL: 1880' FWL AND 400' FSL, BHL: 1880' FWL AND 660' FNL SEC 33, T14S, R26E CHAVES 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**

Est GL from topo: 3446', KB 3458'. Glorieta 2535' Tubb 3570' Abo Shale 4310' Wolfcamp 5245' Wolfcamp Shale 5430'

#### Well Geometry

- 13 3/8" casing at 300'
- 9 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**

Hole	$\frac{MD}{(ft)}$	Casing	Weight	Grade	Coupling	COMMENT
17-1/2"	0 – 300	13-3/8"	48	H40	ST&C	Must be below 300' (+KB).
12-1/4"	0 – 1300	9-5/8"	36	J55	LT&C	
8-3/4"	0 – 5500'	5-1/2"	17	N80	LT&C	Run through the horizontal lateral.

#### **Casing Cementing Program**

13-3/8" slurry: 440 sacks Class C + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 56.3% fresh water

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.

Note: 5-1/2" Cement per completion procedure. Top of Cement should be a minimum of 100' above Abo Shale at 4310'.

Depth	Hole	MW	Visc.	WL	Synopsis
0-300	17-1/2"	8.4	32 - 38	No	Fresh gel Lime floc.(outer)
				control	reserve. Fresh gel sweeps, paper
					& cotton seed hulls for losses.
300 - 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 - 4100	8-3/4"	8.6 –	28 - 29	No	Cut brine. Start w/existing & add
		9.2		control	brine t/80K-120K chlorides
4100 – TD	8-3/4"	8.9 -	38 - 45	6 - 10	XCD/Starch polymer as req'd
		9.5			for hole cleaning. Lubricants.
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"				

#### Mud Program

# VICINITY MAP



COMPANY of Midland, Inc. (432) 110 W. LOUISIANA, STE. 110 MIDLAND TEXAS, 79701 687-0865 - (432) 687-0868 FAX

## LOCATION VERIFICATION MAP



### **PARALLEL** Petroleum Corporation

1004 North Big Spring, Suite 400 • Midland, TX 79701 • Ph: 432-684-3727 • Fax: 432-684-3905

October 21, 2005

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

Re: Hydrogen Sulfide Potential Hagerman Area Wolfcamp Program Chavez 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.

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

Sincerely,

Deane Durham Drilling Engineer

				ORATIO	N					
	RATOR		Parallel Pe		Corporatio	on	Supervisor	's:		
WELI			Affirmed #							
	ATION:		Sec. 33 T-	<u>14-S R-26</u>	•E					
<u>41~1 IN</u>	UMBE	<u> </u>	COMM	CHITC	·····	<u></u>				
	<u></u>			CH13;				MAGD	EC (-/+)	
			•						ORR.(-/+)	•
									CORR.(-/+)	0.0
		DATE:	10/20/05		TIME:	3:14 PM	TRUE TO GRI	)	····	-
AINIM	UM CUR	ATURE C	ALCULATION	IS(SPE-3362	) Pf	ROPOSED	DIRECTION	0.0	TARGET T	RACKING
									TO CE	
SVY			TRUE		VERT			DLS/	ABOVE(+)	
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	4863	0.0	0.0	4863.0	0.0	0.0	0.0	0.0	382.0	0.0
2	4873	1.5	0.0	4873.0	0.1	0.1	0.0	15.0	372.0	0.0
3	4883	3.0	0.0	4883.0	0.5	0.5	0.0	15.0	362.0	0.0
4	5462	90.0	0.0	5244.3	381.3	381.3	0.0	15.0	0.7	0.0
	9300	90.0	0.0							

KOP @ 4863' MD BUR = 15 DEG per 100 FT End Curve @ 5462' MD, 5244.3' TVD BHL @ 9300' MD, 5244.3' TVD, 4219.3' VS



Affirmed #1 Section 33, T 14-S, R 26-E Chaves County, New Mexico

**COMPANY DETAILS** 

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



