Page 1 of 1

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Stogner, Mi	chael, EMNRD				
From:	Joe Fitzgerald [fitzgeraldj@patenergy.com]	Sent: Fri 4/21/2006 1:03 PM			
То:	Stogner, Michael, EMNRD				
Cc:					
Subject: Request for NSL for Patterson's Gen Montcalm 25 St #1, 25-17-33, Lea County NM					
Attachments	Gen Montcalm Unorthodox location request to N	MOCD.doc(49KB)			
	#1.tif(756KB) Gen_Montcalm_Target.ppt(67KB)				

Mr. Stogner:

Attached is my request letter, APD and some geological information for the subject well. I hope I have provided you with everything you may need for your consideration to this request. Please let me know if you need other information or if I have submitted anything in error. I truly appriecate your consideration to this request and hope it will meet with your approval.

Joe Fitzgerald Land Manager Patterson Petroleum, LP Ph. 432-685-1414 Fax 432-685-1133

The information transmitted is intended for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of , or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited. If you received this in error, please contact the sender and delete the material from any computer

1:10 pm 4-21-2006 Talked as for Fitzgerald who called to check to see if I had received his e-mail W/ a thackmands indard.

PATTERSON PETROLEUM, LP 1004 N. Big Spring, Suite 523 Midland, TX 79707 Ph# (432)685-1414

April 21, 2006

Mike E. Stogner Chief Examiner New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505

Re: Request for Administrative Approval of an Unorthodox Location for the Patterson Petroleum, LP, Gen Montcalm 25 State #1,Located 1980' FNL & 1260' FEL of Section 25, T-17-S, R-33-E, Lea County, New Mexico 32-025-37823

Dear Mr. Stogner:

Patterson Petroleum, LP, hereby requests administrative approval of the captioned. The subject location was derived by the use of extensive 3-D seismic data and analysis thereof for a Morrow location. ConocoPhillips and BP are our partners in this well. Attached hereto is a seismic map and brief explanation of same, prepared by BP's geological and geophysical group, showing why this location is necessary.

We have formed an E/2 320 acre pool unit and plan to drill a 13,800' Morrow test. In drilling this well we may encounter a number of other potential pay zones such as the Paddock, Abo, Wolfcamp and Atoka Formations in which we may want to attempt a completion; however, we would be unorthodox at this location for the Paddock, Abo, and Wolfcamp. Therefore we request Administrative Approval of this unorthodox location for the Paddock, Abo and Wolfcamp. Also enclosed with this letter is a copy of our application for permit to drill which we filed with the Hobbs NMOCD office. The C-101 shows the various pools that may be effected

The subject well is located on State Lease B-2148-3. Record title to the subject acreage is owned by ConocoPhillips. Patterson, ConocoPhillips and BP have entered into an operating agreement covering the E/2 of Section 25-17-33, as to all rights below the base of the San Andres Formation.

Please let me know your decision concerning this request. Should you have any question or need further information do not hesitate to call, my toll free phone number is 1-800-470-4200. My email address is fitzgeraldj@patenergy.com.

Sincerely,

Joe Fitzgerald Land Manager 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 1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Form C-101 May 27, 2004

Submit to appropriate District Office

AMENDED	REPORI
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		P	^T Operator Name a A ITERSON PETI P.O. DRAWE SNYDER, 12	nd Address ROLEUM R 1416 (79550	s LP		30 -	API Number	141928
⁷ Prope	rty Code			G	Property Name EN MONTCALM 25 ST	ATE		• W.	ell No t
* Proposed	Pool 1	Propose	ed Pool 2	Prop	posed Pool 3	Proposed Pool 4	Proposed F	Pool 5	Proposed Pool 6
VACUUM; M	ORROW	VACUUM;	ATOKA, WESI	LEAN	EX; PADDOCK	CORBIN; ABO	CORBIN; WOL	LFCAMP, EASI	LEAMEX; PENN
					⁷ Surface Locat	ion			
UI, or lot no.	Section	Township	Range	Loi Id	n Feet from the	North/South line	Feet from the	East/West line	County
н	25	17-5	33-E		1980	NORTH	1260	EAST	LEA
			⁸ Propos	ed Botto	m Hole Location If I	Different From	Surface		
UL or fet no	Section	Township	Range	Lot Id	Foct from the	Nontr/South line	Feet from the	East/West line	County
	L	<u></u>		Add	litional Well Info	imation	·····	L	<u> </u>
1 Work	Type Code N		¹² Well Type Code G	T	¹³ Cable/Rotar ROTARY		* Lease Type Code S	¹⁵ Gro	und Level Elevation 4088'
¹⁶ Multiple ¹⁷ Proposed Depth N 13,800'			h ¹⁸ Formation MORROW			¹⁹ Contractor 1200'		³⁰ Spud Date 08/01/2006	
Depth to Groundwater				Distance from nearest fresh water well		Distance from	Distance from nearest surface water SO' TO HIGH MARK OF PLAYA LAKE		
Pit: Liner:	Synthetic	🛛mils	thick Clay	Pit Volun	ne: 15 000 bbls	Drilling Metho	od:		

Pit: Liner: Synthetic I ____ mils thick Clay Pit Volume:_15 000_bbls Closed-Loop System

Fresh Water 🛛 Brine 🖾 Diesel/Oil-based 🗌 Gae/Air 🗌

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Sening Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	400'	500	SURFACE
12-1/4"	9-5/8"	40#	4800'	1750	SURFACE
8-3/4"	5-1/2"	20#	13,800'	2200	4600'
			I		

² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any Use additional sheets if necessary

DRILLING FLUID SYNOPSIS ATTACHED

BOP: SERIES 900 5000# WP - SEE FIGURE 2 5 ATTACHED

ADDITIONAL CASING & CEMENTING INFORMATION ATTACHED

²³ I hereby certify that the information g	given above is true and complete to the best	OIL CONSERVATION DIVISION		
constructed according to NMOCD g an (attached) alternative OCD-appro	uidelines 🖾, a general permit 🗍, or oved plan	Approved by:		
Printed name: NOLAN VON ROEDER	Manker	Title:		
Title: ENGINEER		Approval Date: Expiration Date:		
E-mail Address:				
Date: 04/10/2006 Phone: 325/573-1938		Conditions of Approval Attached		

DISTRICT 1 1826 N. FRENCH DE. HOBBS. NM 88240

DISTRICT II 1304 W. GRAND AVENUE, ARTESIA NN 80210

DISTRICT III 1000 Rio Brazos Bd., Aztec, NM 97410

State of New Mexico

Energy. Minerals and Natural Resources Department.

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT IV		NM 87505	WELL LO	DCATION	I AND ACREA	AGE DEDICATI	ON PLAT	🗆 AMEND	ED REPOR
API Number Pool Code Pool Name									
<u>30-025-37823</u> <u>86840</u> <u>VACUUM: MORROW (</u>									
Property	Code	T			Property Nan	ue		Weli Nun	ober
35602				GEN	MONTCALM	25 STATE		1	
OGRID N	0	T			Operator Nam	ae		Elevatio	a
141928 PATTERSON PETROLEUM, LP								408	8'
h o Geographic and a construction of a section of the section of t					Surface Loc	ation			
UI or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fest from the	Bast/West line	County
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	Pattern Wale Constitute If Different Dans Surface								
	·····		Bottom	Hole Lo	cation If Diffe	tent from Sur	face	T	
UL or lot No.	Section	Township	Range	Lot kin	Feet from the	North/South line	Feet from the	Sast/West line	County
		<u> </u>						[
Dedicated Acres	a Jointo	r Infill C	onsolidation	Code Or	der No.				
320	1			1					
NO ALLO	WABLE W	ILL BE A	SSIGNED	TO THIS	COMPLETION U	INTIL ALL INTER	ESTS HAVE BI	EN CONSOLIDA	TED
		OR A	NON-STAN	IDARD UN	IT HAS BEEN	APPROVED BY	THE DIVISION		
	r				/				
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				owner of such	mineral of working	interest,			
				<u> </u>			by the division	ling arder besetaton	e entered
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			ť		1		Certificate No	GARY BUSSON	12641
			1				The Bogson	Child Stranger	
					1 11		"All TUPE	CULUS AND	

District 1 1625 N French Dr Hobbs, NM 88240 District 11	State of New Mexico Energy Minetals and Natural Resources	Form C-144 June 1 200		
1301 W. Grand Avenue, Artesia NM 83210 <u>District III</u> 1000 Rio Brazos Road. Aztec NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe. NM 87505	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office		
Pit o Is pit or Iype of action: Operator:PATTERSON PETROLEUM LP	r Below-Grade Tank Registration of below-grade tank covered by a "general plan"? Registration of a pit or below-grade tank Z Closure of a pit relephone:325-573-1938e- mail address:	r Closure √es □ No ⊠ or below-grade tank □		
Facility or well name: _GEN MONICALM 25 STA County:LEA	JSUU/L or Qfr/Qtr Latitude32 48 26.81Longitu	HSec25T17SR33E ude103``36`41`69"NAD: 1927 🖾 1983 🗍		
Pit Ivpe: Drilling Production Disposal Workover DEmonstrates []	Below-grade tank Volume:bbl I ype of fluid: Construction material:			

Lined 🛛 Unlined 🔲 Liner type: Synthetic 🖾 Thickness12_mil Clay [] Pit Volume _15.000_bbl	Double-walled, with leak detection? Yes [] If not, explain why not			
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (10 points)		
Wellhead protection area: (Less than 200 feet from a private domestic water source or less than 1000 feet from all other water sources)	Yes	(20 points) (0 points)		
Distance to surface water: (borizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	Less than 200 feet 200 feet or more but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)		
	Ranking Score (Total Points)	20		

If this is a pit closure: (1) Attach a diagram of the facility showing the pit s relationship to other equipment and tanks (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite [] offsite [] If offsite name of facility______ (3) Attach a general description of remedial action taken including remediation start date and end date (4) Groundwater encountered: No [] Yes [] If yes, show depth below ground surface______ft and attach sample results

(5) Attach soil sample results and a diagram of sample locations and excavations.

	Additional Comments:
1	

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines 3, a general permit], or an (attached) alternative OCD-approved plan].

Date: __04/10/2006_____

Printed Name/Title ____NOLAN VON ROEDER_ENGINEER_

_____ Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state or local laws and/or regulations

Approval:

Printed Name/Title

Signature

Date:



LOCATION VERIFICATION MAP



BUCKEYE, N.M.

VICINITY MAP



 SEC
 25
 TWP
 17-S
 RGE
 33-E

 SURVEY
 N.M.P.M.

 COUNTY
 LEA
 STATE
 NEW
 MEXICO

 DESCRIPTION
 1980'
 FNL
 & 1260'
 FEL

 ELEVATION
 4088
 PATTERSON

 OPERATOR
 PETROLEUM, LP
 LEASE
 GEN.
 MONTCALM
 25
 STATE





PATTERSON PETROLEUM LP

P.O. Box 1416, Snyder, TX 79550 4510 Lamesa Hwy., Snyder, TX 79549 Phone: 325-573-1938 • Fax 325-573-1939

DRILLING FLUID SYNOPSIS

PATTERSON PETROLEUM LP

Gen. Montcaim 25 State No. 1

Section 25 T-17-S R-33-E Lea County, New Mexico

CASING				
13 3/8"	at	400'		
9 5/8"	at	4800'		
51/2"	at	13,800'		

DEPTH	MUDWT	VISCOSITY	FLUID LOSS	DRILL SOLIDS	COMMENTS
0' - 400'	84 to 90	28 to 40	No Control	5%	FW Spud mud & paper
400' - 4800'	8.4 to 10.3	28 to 33	No Control	1%	Brine water, paper,caustic
4800 - 12,900'	8.4 to 9.2	28 to 30	No Control	1%	Cut-brine, paper & caustic
12,900 - 13,800'	10 to 10.5	36 to 46	10 cc or less	< 5%	Xanthan gum, starch, pac, & caustic

PATTERSON PETROLEUM LP

PROPOSED CASING & CEMENTING PROGRAM

GEN. MONTCALM 25 STATE WELL NO. 1

13 3/8", 48 lb/ft, H-40 Surface Casing Set at 400' - in a 17 1/2" Hole

Circulate to surface with 500 sacks of Class "C" + 2% CaCl2 + 1/4 lb/sk celloflake

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 cu ft/sk
Water Requirement:	6 3 gal./sk

9 5/8", 40 lb/ft, J-55 & N-80 Intermediate Casing Set at 4800' - in a 121/4" Hole

Lead : 1500 sx of 35:65 Poz Class "C" + 5% salt + 6% gel + 1/4 lb/sk celloflake + 2/10 % antifoamer

Desired TOC = Surface
Slurry Weight
Slurry Yield:
Water Requirement:

12.4 ppg 2.15 cu ft/sk 11.99 gal/sk

Tail: 250 sx of Class "C" Neat

Slurry Weight: Slurry Yield: Water Requirement: 14.8 ppg 1.32 cu.ft/sk 6.31 gal/sk

51/2", 20 lb/ft P110 Production String Casing Set at 13,800' - in an 8 3/4" Hole

Desired TOC = 4600'

1st Stage Lead : 800 sx of Halliburton Light H + 5% salt + 3/10% HR-7 retarder

Slurry Weight:	12.7 ppg
Slurry Yield:	1 95 cu ft/sk
Water Requirement:	10 48 gal/sk

1st Stage Tail : 300 sx of Halliburton Super H w/ 0.5% Lap-1+ 0.4% dispersant + 0.25% antifoamer and 0.25% retarder

Slurry Weight:	13.2 ppg
Slurry Yield:	1.60 cu.ft/sk
Water Requirement:	8.21 gal/sk

PATTERSON PETROLEUM LP

PROPOSED CASING & CEMENTING PROGRAM CONTINUED

GEN. MONTCALM 25 STATE WELL NO. 1

51/3" DV TOOL @ ± 8500'

2nd Stage Lead : 1000 sx of Halliburton Lite + 5% salt + 3/10% HR-7 retarder

Slurry Weight: Slurry Yield: Water Requirement:

12.7 ppg 1.95 cu fl/sk 10 48 gal/sk

2nd Stage Tail: 100 sx "C" neat

Sturry Weight: Sturry Yield: Water Requirement: 14.8 ppg 1 32 cu.ft/sk 6 31 gal/sk



Fig. 2.5. Class' 3 BOP and Choke Manifold.

2-25

20



The Gen. Montcalm 25 State #1 has been located to ideally test two seismic features in the Morrow
formation that roughly correlated to two different sands producing in nearby wells—a middle Morrow
sand in the Hawkeye 30 State #1 and a lower Morrow sand in the Uncas 31 State #1. Although,
these anomalies overlap in much of the SE/NE Section 25, there is an area of dim amplitudes that
cover most of the possible locations that would be standard for both Morrow gas and shallower oil.
The narrow strip (~990 FEL) would be satisfactory if the natural drift of the well was to the north or
Northwest. Based on other wells in the area, the most likely direction for drift is northeast. This
would cause the bottomhole for the well to be within the dim amplitude zone. By moving the surface
To 1260 FEL, both Morrow targets will be penetrated without the need to directionally drill.
I here is potential in shallower oil zones (Abo, Wolfcamp, Upper Penn) that will be penetrated by this
well (the LeaMex #38 already is producing the San Andres/Grayburg). Since any shallow oil productio
would be serendipity. no formation specific geologic reasons can be given to support the non-standard

oil location. However, the following information should be considered:

- The LeaMex #38 already occupies 1980 FNL 990 FEL.
- The possible oil zones are bail-out zones, not primary targets.
- The location is 12,000' from the nearest Abo production, 6500' from the nearest
 - Wolfcamp production, and 9000' from the nearest Upper Penn production.
 - Lease ownership is the same in all adjacent oil spacing units.