

DATE IN <u>10/29/09</u>	SUSPENSE	ENGINEER <u>Jones</u>	LOGGED IN <u>10/29/09</u>	TYPE <u>DHC</u>	APP NO. <u>0930250873</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



Enervest  
143199

Mesa RAF State No. 1

**ADMINISTRATIVE APPLICATION CHECKLIST**

30-025-29827

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
 [B] ☐ Offset Operators, Leaseholders or Surface Owner  
 [C] ☐ Application is One Which Requires Published Legal Notice  
 [D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
                     U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ronnie L. Young  
 Print or Type Name

Ronnie Young/bmh  
 Signature

Compliance Supervisor  
 Title

10-28-09  
 Date

ryoung@enervest.net  
 E-Mail Address

RECEIVED OCD  
 2009 OCT 29 A 11:29

October 28, 2009

Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

RECEIVED OCD

2009 OCT 29 A 11: 29

Attention: Mr. Mark E. Fesmire, Director

Re: Form C-107A  
EnerVest Operating, L.L.C.  
Mesa "AAF" State No. 1  
API No. 30-025-29827  
990' FSL & 990' FWL (Unit M)  
Section 28, T-13S, R-33E, NMPM,  
Lea County, New Mexico

Dear Mr. Fesmire,

Enclosed please find a Division Form C-107A for the EnerVest Operating, L.L.C. Mesa "AAF" State Well No. 1. It is proposed to downhole commingle the South Baum-Wolfcamp and Lazy J Upper-Penn Pools within the subject well. Approval of the application will allow EnerVest Operating, L.L.C. to economically produce the oil and gas reserves in the Wolfcamp and Pennsylvanian intervals, thereby preventing waste. Please note that the interest ownership between the commingled zones is common throughout. Consequently, the proposed downhole commingling will not violate correlative rights.

The Mesa "AAF" State Well No. 1 is located on a State of New Mexico lease and pursuant to Division rules, the Commissioner of Public Lands is being provided a copy of this application.

I believe that all the information necessary to approve the application is enclosed. If additional information is needed, please contact me at (713) 495-6530.

Sincerely,

*Ronnie Young/bmh*

Ronnie L. Young  
Compliance Supervisor  
EnerVest Operating, L.L.C.  
1001 Fannin Street, Suite 800  
Houston, Texas 77002

Xc: OCD-Hobbs



## District I

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

## District IV

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

## State of New Mexico

Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-025-29827</b>	<sup>2</sup> Pool Code <b>4967</b>	<sup>3</sup> Pool Name <b>Baum; Wolfcamp, South</b>
<sup>4</sup> Property Code <b>12557</b>	<sup>5</sup> Property Name <b>Mesa AAF State</b>	<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>025575</b>	<sup>8</sup> Operator Name <b>Yates Petroleum Corporation</b>	<sup>9</sup> Elevation <b>4246.5' GR</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>M</b>	<b>28</b>	<b>13S</b>	<b>33E</b>	<b>M</b>	<b>990</b>	<b>South</b>	<b>990</b>	<b>West</b>	<b>Lea</b>

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres <b>40</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

<sup>16</sup> 				<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Stormi Davis Printed Name Regulatory Compliance Technician Title and E-mail Address stormid@ypcnn.com Date 12-5-05
				<sup>18</sup> SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-4-65

All distances must be from the outer boundaries of the Section.

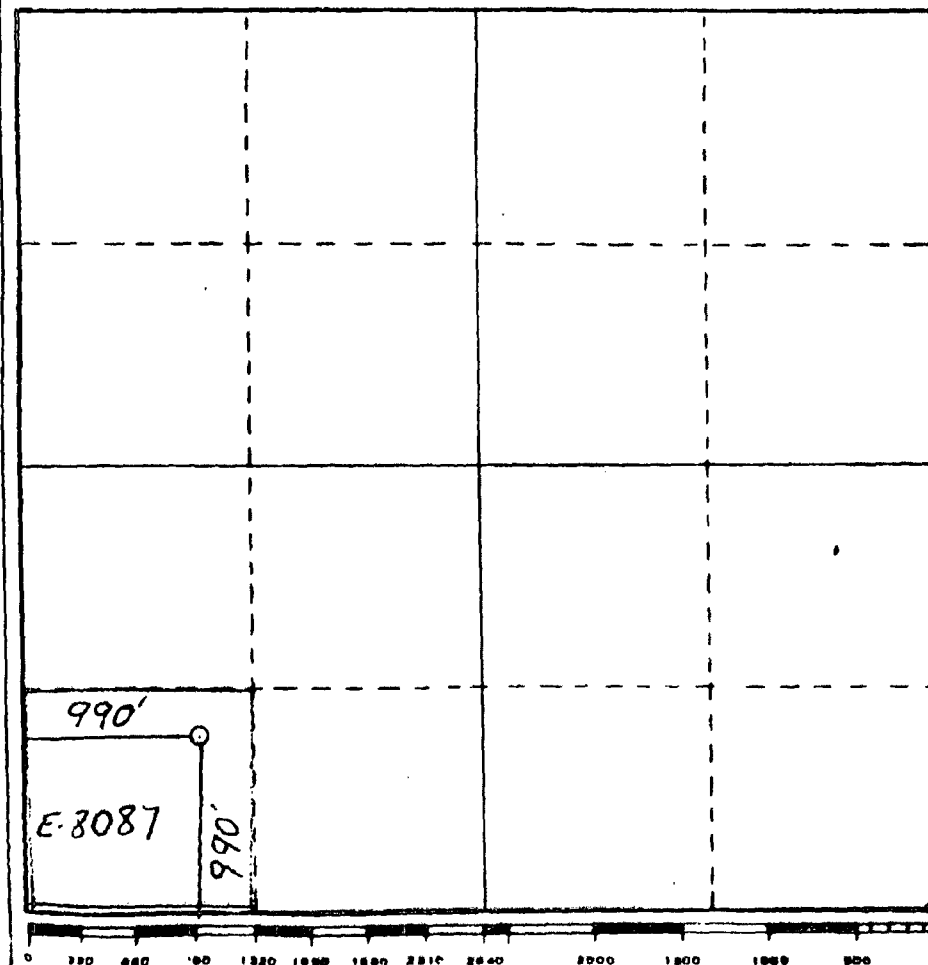
Operator <b>YATES PETROLEUM CORPORATION</b>			County <b>MESA AAF STATE</b>		Well No. <b>1</b>
Unit Letter <b>M</b>	Section <b>28</b>	Township <b>13S</b>	Range <b>33E</b>	County <b>LEA</b>	
Actual Footage Location of Well:					
990		feet from the	South	line and	990
feet from the		West	line		
Ground Level Elevation <b>4246.5'</b>	Producing Formation <b>Bough D</b>		Depth <b>LAZY J</b>	Dedicated Acreage: <b>40</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, forced-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Cy Cowan*  
Name  
Cy Cowan

Position  
Regulatory Agent

Company  
Yates Petroleum Corporation

Date  
Dec. 16, 1986

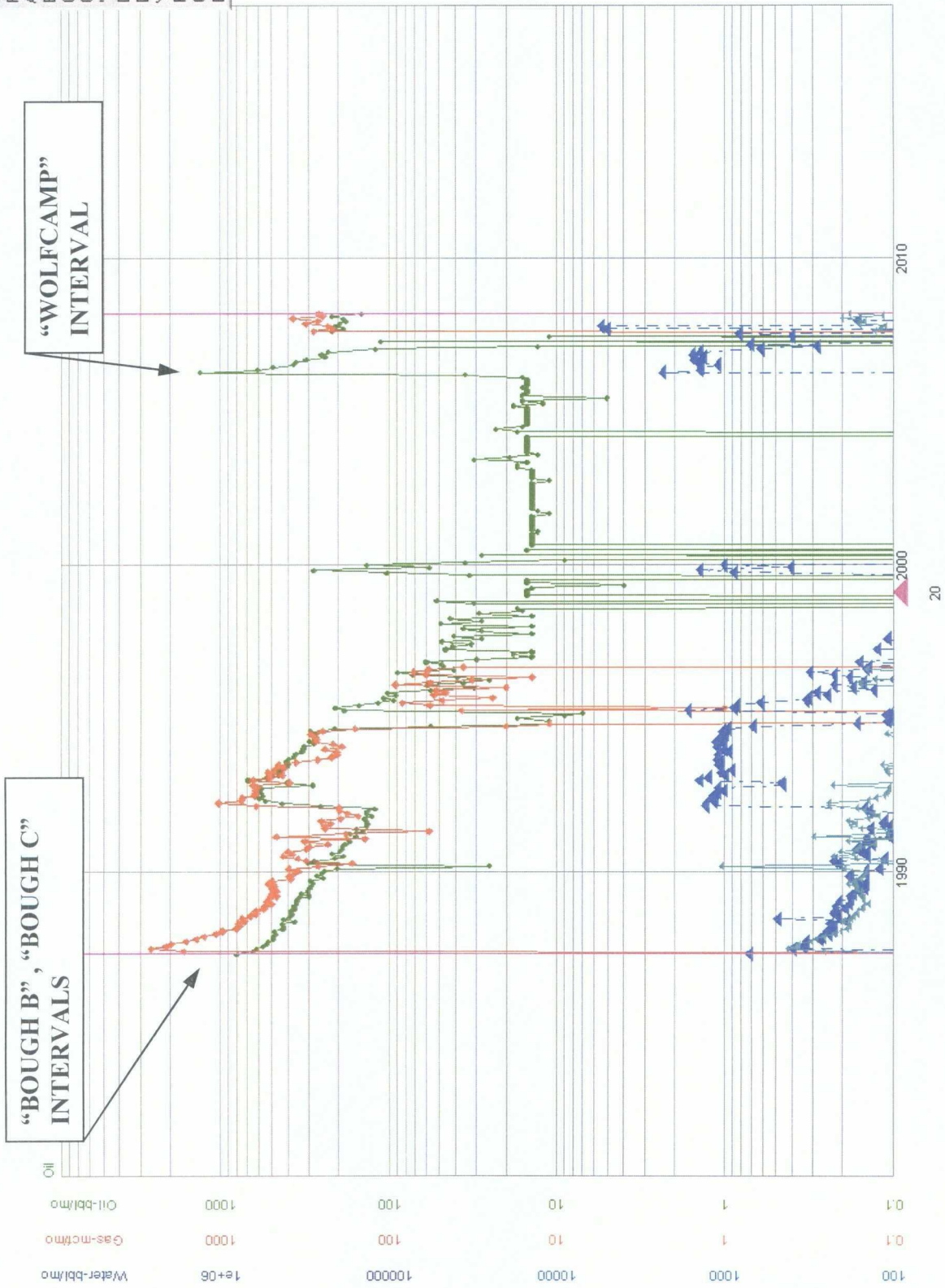
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

State of New Mexico  
Date Received  
DEC 17 1986

Registered Professional Engineer  
and/or Land Surveyor  
J. L. LANG

Certificate No.  
3640

Results	
Qual	EV0110
Ref	3/1/2008
Act	145,000
Est	0.000
Qref	0.000
Qab	0.000
"b"	0.000000
De	0.000000
Dmin	0.000
Yrs	0.082
Rem	0
Cum	40682
EUR	40682



Attachments and/or Supporting Data  
Application for Downhole Commingling  
EnerVest Operating, L.L.C.  
Mesa "AAF" State No. 1 (API No. 30-025-29827)  
Unit M, Section 28, Township 13 South, Range 33 East, NMPM,  
Lea County, New Mexico

**Production Data & Proposed Allocation**

The Mesa "AAF" State No. 1 was drilled in 1987 and was initially completed in the Bough "C" interval of the Pennsylvanian formation through perforations from 9,814'-9,834'. In 1992, additional pay in the Bough "B" and "C" intervals was perforated in the well from 9,708'-9,794'. The well produced from the Pennsylvanian interval until February, 2006, at which time the Pennsylvanian formation was shut-in and isolated below a CIBP set at 9,650'. At the time the Pennsylvanian formation was shut-in, this interval produced at an average rate of approximately 5.8 BOPD.

In February, 2006, the Wolfcamp interval was perforated from 8,990'-9,097'. Initial production from the Wolfcamp interval was approximately 49 BOPD and 86 BWPD. The well declined rapidly and produced only until March, 2007 at which time the Wolfcamp interval was producing at a rate of approximately 6 BOPD and 8.0 MCFGPD.

EnerVest Operating, L.L.C. now proposes to perforate additional pay in the Bough "D" interval from 9,967'-10,030', and subsequently downhole commingle the Wolfcamp and Pennsylvanian intervals within the wellbore. The Bough "B", "C" and "D" intervals are all within the vertical limits of the Lazy J Upper-Penn Pool.

EnerVest Operating, L.L.C. proposes that the production allocation be established after completion of the Bough "D" interval. At that time, the South Baum-Wolfcamp Pool will be allocated 6 BOPD and 8.0 MCFGPD (as per the March, 2007 producing rate), and the remaining production from the well will be allocated to the Lazy J Upper-Penn Pool. EnerVest Operating, L.L.C. will provide production data and proposed allocation to the Santa Fe Office of the Division upon completion of the Bough "D" interval.