Office	Appropriate District		e of New Me erals and Natu				Form C-10. June 19, 200	
<u>District I</u> 1625 N French Dr , District II	Hobbs, NM 8	ENERGY, MILL			WELL API 1	NO. 30-025-29	1827	Ĵ
1301 W Grand Ave District III	e , Artesia, NM 88210 I , Aztec, NM 874	DIVISION icis Dr.	5. Indicate Type of Lease					
1000 Rio Brazos Ro <u>District IV</u> 1220 S St Francis	I , Aztec, NM 874 HUN Dr , Santa Fe, NMOBL	SSOCD San	ta Fe, NM 87	/505		& Gas Lease No		
87505	SUNDRY NOTIC		S ON WELLS		7 Lease Na	me or Unit Agro	ement Name	_
DIFFERENT RESE	IS FORM FOR PROPOSA ERVOIR USE "APPLICA	LS TO DRILL OR TO	DEEPEN OR PLU	JG BACK TO A		a "AAF" State	,	
PROPOSALS) 1. Type of Wel	l: Oil Well 🗹 🛛	as Well 🔀 Othe	er /		8. Well Nun	nber 1	$\checkmark$	
2. Name of Op	<sup>erator</sup> EnerVest Op	perating, L.L.C.	/		9. OGRID N	Number 14319	9 /	
3. Address of C	<sup>)perator</sup> 1001 Fanr Houston.	nin, Suite 800 FX 77002				ne or Wildcat olfcamp & Laz	y J Upp Pen	/ n
4. Well Locatio								
Unit L		990 feet from				et from the	Vest line	/
Sectior	1 28	Townshi		inge 33E		Lea County		
		11. Elevation <i>(She</i> 4246.5' = 0		кк <i>в</i> , к <i>1</i> , Gк, ей	.)			
<u></u>								
	12. Check A <sub>l</sub>	opropriate Box	to Indicate N	ature of Notice	, Report or O	ther Data		
	NOTICE OF INT	ENTION TO:		SUE	BSEQUENT	REPORT C	DF:	
PERFORM RE	MEDIAL WORK 🗌	PLUG AND ABAN		REMEDIAL WO	RK	ALTERIN	G CASING	
TEMPORARILY	_	CHANGE PLANS						1
PULL OR ALTE DOWNHOLE C	_	MULTIPLE COMF	νL 🗌	CASING/CEMEN	II JOB			
		NUC 1001 attach	o d**					
OTHER	e proposed or comple	DHC 4221 attach		OTHER:		·	b h a satimata d	
In Descrip	e proposed or comple	ted operations. (C	fearly state and	bertiment details, a	nu give perimen	n uates, menuun	ig estimated u	on
of starti	ng any proposed wor	k). SEE RULE 11	03. For Multip	le Completions: A	ttach wellbore	diagram of prop	losed completi	
of starti or recon	npletion.	k). SEE RULE 11	03. For Multip	le Completions: A	ttach wellbore	diagram of prop	oosed completi	
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New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Joanna Prukop Cabinet Secretary DEC 0 3 2009

HOBESOCD

Mark Fesmire Division Director Oil Conservation Division



Administrative Order DHC-4221 Order Date: 11/23/2009 Application Reference Number: pTGW0930250873

ENERVEST OPERATING L.L.C. 1001 FANNIN ST, STE 800, HOUSTON, TX 77002

Attention: Ronnie I. Young

MESA AAF STATE Well No. 001 API No: 30-025-29827 Unit M, Section 28, Township 13 South, Range 33 East, NMPM Lea County, New Mexico Pool: BAUM;WOLFCAMP, SOUTH Oil 4967 Names: LAZY J;PENN Oil 37430

Reference is made to your recent application for an exception to Rule 12.9A. of the Division Rules and Regulations to permit the above-described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 12.11A., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion or otherwise required separation of the zones is hereby placed in abeyance.

In accordance with Division 12.11A.(6), the production attributed to any commingled pool within the well shall not exceed the allowable applicable to that pool.

The production allocation percentages of oil and gas between these pools shall be supplied to the Division's Santa Fe office within 60 days following completion of this workover.

REMARKS: The operator shall notify the Division's district office upon implementation of commingling operations.



Administrative Order DHC-4221 ENERVEST OPERATING L.L.C. 11/23/2009 Page 2 of 2

Pursuant to Rule 12.11B., the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

n MARKE. FESMIRE, P.E.

Director

MEF/wvjj

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cc: Oil Conservation Division – Hobbs State Land Office - Oil, Gas, and Minerals Division

DATE IN	0/29/09 SUSPEN		129/09 THE DHC APPING	0930250873
		ABOVE THIS LINE FOR DWIS NEW MEXICO OIL CONSERVAT - Engineering Bureau 1220 South St. Francis Drive, Santa	TION DIVISION	Enervest 143199 MesnAAF State
,		ADMINISTRATIVE APPLI		MesARAF SLate 1 T 30-025-2982
 Ti		ANDATORY FOR ALL ADMINISTRATIVE APPLICATION	ONS FOR EXCEPTIONS TO DIVISION RU	
Applic	[DHC-Dow [PC-Po	ndard Location] [NSP-Non-Standard Pro mhole Commingling] [CTB-Lease Com ool Commingling] [OLS - Off-Lease Sto	oration Unit] [SD-Simultaneous Imingling] [PLC-Pool/Lease C orage] [OLM-Off-Lease Meas Pressure Maintenance Expansio Injection Pressure Increase]	Commingling] urement] on]
	TYPE OF A [A]	PPLICATION - Check Those Which Ap Location - Spacing Unit - Simultaneou NSL NSP SD		
	Chec [B]	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC		PIEC
	[C]	Injection - Disposal - Pressure Increase		RECEIVED OCD
	[D]	Other: Specify		A 11
[2]	NOTIFICAT [A]	<b>ION REQUIRED TO:</b> - Check Those W Working, Royalty or Overriding	••••	<b>.</b>
	[B]	Offset Operators, Leaseholders of	r Surface Owner	ئ <u>ِ</u>
	[C]	Application is One Which Requir	res Published Legal Notice	
	[D]	Notification and/or Concurrent A US Bureau of Land Management - Commissione	or SLO by BLM or SLO or Public Lands, State Land Office	
	[E]	For all of the above, Proof of Not	tification or Publication is Attach	ned, and/or,
	[F]	Waivers are Attached		
[3]		CCURATE AND COMPLETE INFORMATION INDICATED ABOVE.	MATION REQUIRED TO PR	OCESS THE TYPE
	val is <b>accurate</b>	<b>ATION:</b> I hereby certify that the informat and <b>complete</b> to the best of my knowledg equired information and notifications are	e. I also understand that no acti	
appin				
аррис	Not	e: Statement must be completed by an individua	I with managerial and/or supervisory	capacity.

ryoung@enervest.net E-Mail Address

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October 28, 2009

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

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

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District 1 1625 N. French Dave Habes NA(182241)		ew Mexico ural Resources Department	Form C-107A Revised June 10, 2003	
District II (301 W. Gened Avenue: Artesio NM 88210	Oil Conser	RECEIVED		
District III	1220 Sout	DEC 0.0 FOR		
District IV		ew Mexico 87505	Establish Pre-Approved Pools EXISTING WELLBORE	DEC 03 2009
1230 5 St. Frates Dr. South Fe. NKI 27505	APPLICATION FOR DOV	WNHOLE COMMINGLING	X Yes No	DEC 0 3 ZIUD9 MOBESOCD
		DH	C-422)	- utp
EnerVest Operating, L.I	. <u>C. 1001 Fannin S</u>		Texas 77002	
Operator			-33E Lea	
Mesa "AAF" State No.		<u>SL &amp; 990' FWL M-28-13S</u> Section-Township-Range	County	
OGRID No. 143199 Property Code	e API No. <u>30-0</u>	<u>25-29827</u> Lease Type <sup>.</sup> F	ederal <u>X</u> State Fee	
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	
Pool Name	South Baum-Wolfcamp Pool		Lazy J Upper-Penn Pool	
Pool Code	Oil-4967		Oil-37430	
	0		9,708'-9,834' (Existing Perfs)	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	8,990'-9,097' (Perforated)		9,967'-10,030' (Proposed Perfs)	
Method of Production	Artificial Lift		Artificial Lift	
(Flowing or Artificial Lift) Bottomhole Pressure	Artificial Dift			
(Note: Pressure data will not be required if the boiltom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Not Required		Not Required	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	41.9° API		41.9° API	
Producing, Shut-In or New Zone	Shut-In: Zone Completed 02/2006		Shut-In: Currently Isolated Below CIBP	
Date and Oil/Gas/Water Rates of Last Production (Note For new zones with no production fistory applicant shall be required to attack production escurates and supporting data }	Date: 3/2007 Rates 6 BOPD 8 MCFGPD 36 BWPD	Date. Rates:	Date: 02/2006 Rates: 5.8 BOPD 0 MCFGPD 0 BWPD	
Fixed Allocation Percentage (Nore: If allocation is based upon something other than current or past production, supponing data or explimation will be required.)	Oil Gas To Be Provided After Completion	Oil Gas % %	Otl Gas To Be Provided After Completion	
		NAL DATA	,,	I
Are all working, royalty and overriding			Yes XNo	
If not, have all working, royalty and over	erriding royalty interest owners be	en notified by certified mail?	YesNo	
Are all produced fluids from all commi	ngled zones compatible with each	other?	Yes <u>X</u> No	
Will commingling decrease the value of			Yes NoX	
If this well is on, or communitized with or the United States Bureau of Land M	n, state or federal lands, has either t anagement been notified in writing	he Commissioner of Public Lands of this application?	Yes <u>X</u> No	
NMOCI) Reference Case No. applicab	le to this well.			
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histo Data to support allocation method Notification list of working, royalty Any additional statements, data or	at least one year. (If not available, ry, estimated production rates and a or formula y and overriding royalty interests for	attach explanation.) supporting data or uncommon interest cases		
	PRE-APPR	OVED POOLS		
If application is		the following additional information w	ill be required	
List of other orders approving downho List of all operators within the propose Proof that all operators within the prop Bottomhole pressure data	le commingling within the propose d Pre-Approved Pools losed Pre-Approved Pools were pro	d Pre-Approved Pools		
I hereby certify that the informatio				-
SIGNATURE Roming You	walkah TITIE	Compliance Supervisor	DATE 10/28/2009	

SIGNATURE Konnie Jourg/bmh	TITLE	Compliance Supervisor	DATE	10/28/2009
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TYPE OR PRINT NAME Ronnie L. Young TELEPHONE NO. (713) 495-6530

E-MAIL ADDRESS ryoung@enervest net

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HORRSOCD

District 1 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 & Natural Resources Department OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fce Lease - 3 Copies

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

AMENDED REPORT

WELL LOCAT	ION AND ACREAGE	DEDICATION PLAT

	Pl Number 025-298			4967 Baum; Wolfcamp, South						
Property (									Well Number	
1255				Mesa AAF State					1	
OGRID	the second s				<sup>#</sup> Operato	r Name			* Elevation	
02557	5			Yate	es Petroleur	n Corporation		· · · ·	4246.5' GR	
					<sup>10</sup> Surface	e Location	······			
JL or lot no.	Section	Township	Range	Lotidn	Feet from the	North/South line	Feet from the	East/West line	County	
М	28	135	33E	M	990	South	990	West	Lea	
	I <u></u>		<sup>17</sup> Bot	tom Hole	e Location	If Different Fro	m Surface			
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	
							1			
<sup>12</sup> Dedicated	1º Jaint	or Infill 1* C	onsolidatio	n Code <sup>15</sup> Or	rder No.					
Acres										
40		Į		Į						

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

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

# RECEIVED

## -DEC 0 3 2009

### NEW MEXICO OIL CONSERVATION COMMISSION HOBBSOCD WELL LOCATION AND ACREAGE DEDICATION PLAT

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### 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.