

District I
1625 N. French Drive, Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Hondo Road, Aztec, NM 87416

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
☒ Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
☐ Yes ☒ No
*New well

APPLICATION FOR DOWNHOLE COMMINGLING

Operator EnerVest Operating, L.L.C. Address 1001 Fannin, Suite 800 Houston, TX 77002
Lease New Mexico AA State Well No. 8 Unit Letter-Section-Township-Range G - Sec 22, T 23S, R 36E County _____
OGRID No. 143199 Property Code 303916 API No. 30-025-38701 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Jalmat (T-Y-7R) (Gas)		Langlie Matix (7R-Q-G) (Oil)
Pool Code	79240		37240
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2928' - 3545'		3592' - 3700'
Method of Production (Flowing or Artificial Lift)	Pump		Pump
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	N/A		N/A
Oil Gravity or Gas BTU (Degree API or Gas BTU)	N/A		N/A
Producing, Shut-In or New Zone	Producing		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 5-23-08 Rates: 21.75 Mcf	Date: Rates:	Date: 5-23-08 Rates: 3.25 Mcf
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % 87 %	Oil Gas % %	Oil Gas % 13 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No _____
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes _____ No _____
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No _____
Will commingling decrease the value of production? Yes _____ No ☒
If this well is on, or communized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes _____ No ☒
NMOCD Reference Case No. applicable to this well: _____

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
Production curve for each zone for at least one year. (If not available, attach explanation.)
For zones with no production history, estimated production rates and supporting data.
Data to support allocation method or formula.
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

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

SIGNATURE Bridget Helfrich TITLE Regulatory Tech. DATE 3-2-09
TYPE OR PRINT NAME BRIDGET HELFRICH TELEPHONE NO. (713) 495-6537
E-MAIL ADDRESS bhelfrich@enervest.net

Form C-105

June 19, 2008

**State of New Mexico
Energy, Minerals and Natural Resources**

**Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**

WELL API NO.

30-025-38701

5. Indicate Type of Lease

STATE ☒ FEE ☐

State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____

b. Type of Completion:

NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. ☐
WELL OVER BACK RESVR. ☐ OTHER _____

2. Name of Operator

EnerVest Operating, L.L.C.

7. Lease Name or Unit Agreement Name

NM AA State

3. Address of Operator

1001 Fannin, Suite 800
Houston, TX 77002

8. Well No.

8

9. Pool name or Wildcat

Jalmat (Tansill-Yates-7 Rivers) (Gas)

4. Well Location

Unit Letter G : 1980 Feet From The North Line and 1805 Feet From The East Line

Section 22 Township 23S Range 36E NMPM Lea County

10. Date Spudded

4-7-08

11. Date T.D. Reached

4-13-08

12. Date Rig Released

4-15-08

13. Date Completed (Ready to Produce)

5-16-08

14. Elevations (DF and RKB,

RT, GR, etc.) GR = 3379'

15. Total Measured Depth of Well

3835'

16. Plug Back Measured Depth

3775'

17. If Multiple Compl. How Many Zones?

Two

18. Producing Interval(s), of this completion - Top, Bottom, Name

Jalmat (Tansill-Yates-7 Rivers) (Gas)

19. Was Directional Survey Made

No

20. Type Electric and Other Logs Run

Spectral Gamma Ray, Dual Spaced Neutron, Spectral Density

21. Was Well Cored

No

22. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	1254'	12-1/4"	610 sx	
4-1/2"	11.6#	3830'	7-7/8"	604 sx	

23. LINER RECORD

24. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	3712'	

25. Perforation record (interval, size, and number)

Jalmat 2928' - 3545' w/ 34 holes, 1 SPF
Langlie Matrix 3592' - 3700' w/ 5 holes, 1 SPF

26. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2928'-3700'	Acidized w/ 6000 gals 15% HCL w/ ball sealers.
2928'-3700'	Frac'd w/ 250,280 lbs 12/20 brown sand and 50,010 lbs 16/30 Siber prop sand.

27. PRODUCTION

Date First Production	5-16-08	Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing	Well Status (Prod. or Shut-in) Producing											
Date of Test	5-23-08	Hours Tested	24	Choke Size	64/64"	Prod'n For Test Period	Oil - Bbl	0	Gas - MCF	25	Water - Bbl.	9	Gas - Oil Ratio	N/A
Flow Tubing Press. SI	Casing Pressure	19	Calculated 24-Hour Rate	Oil - Bbl.	0	Gas - MCF	25	Water - Bbl.	9	Oil Gravity - API - (Corr.)	N/A			

28. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

Test Witnessed By

29. List Attachments

Spectral Gamma Ray, Dual Spaced Neutron, Spectral Density (LOG); Deviation survey

30. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

N/A

31. If an on-site burial was used at the well, report the exact location of the on-site burial:

N/A

Latitude

Longitude

NAD 1927 1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Bridget Helfrich Printed Name Bridget Helfrich

Title Regulatory Tech.

Date 6/30/08

E-mail Address bhelfrich@enervest.net

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
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State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised Feb. 26, 2007

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
5 Copies

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EnerVest Operating, L.L.C. 1001 Fannin, Suite 800 Houston, TX 77002		² OGRID Number 143199
		³ Reason for Filing Code/ Effective Date NW / 5-16-08
⁴ API Number 30 - 025-38701	⁵ Pool Name Langlie Mattix (7 Rivers-Queen-Grayburg) (Oil)	⁶ Pool Code 37240
⁷ Property Code 303916	⁸ Property Name NM AA State	⁹ Well Number 8

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	22	23S	36E		1980	North	1805	East	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	22	23S	36E		1980	North	1805	East	Lea

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
S	P	5-16-08			

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
020809	Southern Union Gas Services 201 Main Street Fort Worth, TX 76102	G
217817	ConocoPhillips P.O. Box 7500 Bartlesville, OK 74005	O

IV. Well Completion Data

²¹ Spud Date 4-7-08	²² Ready Date 5-16-08	²³ TD 3835'	²⁴ PBTD 3775'	²⁵ Perforations 2928'-3700'	²⁶ DHC, MC Pending
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
12-1/4"		8-5/8"		1254'	610sx
7-7/8"		4-1/2"		3830'	604sx
		2-3/8"		3712'	

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
5-16-08	5-16-08	5-23-08	24 Hr.	SI	19
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
64/64"	0	9	25		Flowing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Bridget Helfrich

Printed name:
Bridget Helfrich

Title:
Regulatory Tech.

E-mail Address:
bhelfrich@cnervest.net

Date:
6-30-08

Phone:
713-495-6537

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised Feb. 26, 2007

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
5 Copies

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

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		³ Reason for Filing Code/ Effective Date NW / 5-16-08
⁴ API Number 30 - 025-38701	⁵ Pool Name Jalmat (Tansill-Yates-7 Rivers) (Gas)	⁶ Pool Code 79240
⁷ Property Code 303916	⁸ Property Name NM AA State	⁹ Well Number 8

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	22	23S	36E		1980	North	1805	East	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	22	23S	36E		1980	North	1805	East	Lea

¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 5-16-08	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
020809	Southern Union Gas Services 201 Main Street Fort Worth, TX 76102	G
217817	ConocoPhillips P.O. Box 7500 Bartlesville, OK 74005	O

IV. Well Completion Data

²¹ Spud Date 4-7-08	²² Ready Date 5-16-08	²³ TD 3835'	²⁴ FBTD 3775'	²⁵ Perforations 2928'-3700'	²⁶ DHC, MC Pending
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	8-5/8"	1254'	610sx		
7-7/8"	4-1/2"	3830'	604sx		
	2-3/8"	3712'			

V. Well Test Data

³¹ Date New Oil 5-16-08	³² Gas Delivery Date 5-16-08	³³ Test Date 5-23-08	³⁴ Test Length 24 Hr.	³⁵ Tbg. Pressure SI	³⁶ Csg. Pressure 19
³⁷ Choke Size 64/64"	³⁸ Oil 0	³⁹ Water 9	⁴⁰ Gas 25		⁴¹ Test Method Flowing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Bridget Helfrich

Printed name:

Bridget Helfrich

Title:

Regulatory Tech.

E-mail Address:

bhelfrich@enervest.net

Date:

6-30-08

Phone:

713-495-6537

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 3050'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers 3250'	T. Devonian	T. Menefee	T. Madison
T. Queen 3652'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T.	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

RECEIVED

DISTRICT I
1425 N. FRENCH DR., S0285, NM 87540

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 87010

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico JAN 1 8 2008
Energy, Minerals and Natural Resources Department

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

Form C-102
Revised October 12, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 2 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-387D1	Pool Code 79240	Pool Name Jal mat (T-Y-7R) Gas
Property Code 303916	Property Name NM AA STATE	Well Number 8
OGRID No. 143199	Operator Name EnerVest Operating	Elevation 3379'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	22	23-S	36-E		1980	NORTH	1805	EAST	LEA

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
Dedicated Acres 160	Joint or Infill Y	Consolidation Code	Order No.						

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

<p>GEODETIC COORDINATES NAD 27 NME Y=471515.7 N X=834797.8 E LAT.=32.291664° N LONG.=103.249906° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or retained mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>[Signature]</i> 1-15-08 Signature Date <i>Gary E. Edson</i> Printed Name Agent</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p><i>[Seal and Signature]</i> Date Surveyed JANUARY 7, 2008 DSS Signature and Seal of Professional Surveyor Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3210</p>

RECEIVED

DISTRICT I
1625 N. FRENCH DR., SUITE 200, ALBUQUERQUE, NM 87102

DISTRICT II
1301 W. GRAND AVENUE, ALBUQUERQUE, NM 87102

DISTRICT III
1000 Rio Brazos Bld., Alameda, NM 87410

DISTRICT IV
1820 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, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 37240	Pool Name Langhe Mathis (LGR-Q)
Property Code 303916	Property Name NM AA STATE	Well Number 8
OCRID No. 143199	Operator Name EnerVest Operating	Elevation 3379'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	22	23-S	36-E		1980	NORTH	1805	EAST	LEA

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
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
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<p>GEODETIC COORDINATES NAD 27 NME Y=471515.7 N X=834797.8 E LAT.=32.291664° N LONG.=103.249906° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>[Signature]</i> Date: 1-15-08 Printed Name: Gary Mathis</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Stamp: J. E. IDSON, SURVEYOR, MEXICO, DSS, 3230 Signature: <i>[Signature]</i> Date: 1/11/08 Certificate No. GARY IDSON 12841, RONALD J. IDSON 3230</p>

NM AA State #8

Offset wells in this area indicate that the Jalmat field comprises the majority of production, versus the Langlie Mattix.

Percentage allocation is based on the following information:

Jalmat (T-Y-7R) Gas	2928' – 3545'
	1 SPF
	Total Shots = 34
	34/39 = 87%

Langlie Mattix (7R-Q-G) (Oil)	3592' – 3700'
	1 SPF
	Total Shots = 5
	5/39 = 13%

For future drilling in this area:

1. Where more than one Pool/zone is perforated, we will file Form C-103 Sundry prior to work being done for NMOCD approval.
2. If commingling is needed, we will test pools individually.