

DATE 7-15-10	SUSPENSE	ENGINEER WJ	LOGGED IN 7-15-10	TYPE DHC 4293	APP NO. 1019654819
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PTG-W

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

**ADMINISTRATIVE APPLICATION CHECKLIST**

*Jicarilla C #5N*

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]**

*30-039-29812*

**[1] TYPE OF APPLICATION - Check Those Which Apply for [A] Jicarilla C #5N**

[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

RECEIVED OCD  
 2010 JUL 15 P 2:05

**[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 Young

*Ronnie L Young*

Compliance Supervisor

7-9-10

Print or Type Name

Signature

Title

Date

ryoung@enervest.net  
 e-mail Address

District I  
1625 N. French Drive, 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 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

APPLICATION FOR DOWNHOLE COMMINGLING

EnerVest Operating, L.L.C. 1001 Fannin, Suite 800 Houston, TX 77002  
Operator Address  
Jicarilla C 5N O- Sec 24 - Twp 26N - Rg 5W Rio Arriba  
Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No. 143199 Property Code 33461 API No. 30-039-29812 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Blanco-Mesaverde	Tapacito-Gallup Associated	Basin-Dakota
Pool Code	72319	58090	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5084' - 5322' (proposed)	6785' - 6810' (proposed)	7328' - 7524' (proposed)
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
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)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone	New Zone	New Zone	New Zone
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:  Rates:	Date:  Rates:	Date:  Rates:
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  25 % 18 %	Oil Gas  42 % 29 %	Oil Gas  33 % 53 %

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 communitized 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: DHC 2879 AZ

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 7-9-10  
TYPE OR PRINT NAME Bridget Helfrich TELEPHONE NO. ( 713 ) 495-6537  
E-MAIL ADDRESS bhelfrich@enervest.net

Proposed Allocation Percentages by Formation  
Jicarilla C #5N  
Based on Nearby Offsets

<u>Well</u>	<u>Formation</u>	January, 2010 Gas Production (MCF/Month)	Gas Allocation Percentage	January, 2010 Oil Production (Bbls./Month)	Oil Allocation Percentage
Jicarilla 153 #23	Mesaverde	456	18%	3	25%
Jicarilla 103 #7	Dakota	1333	53%	4	33%
Jicarilla 103 #7	Gallup	718	29%	5	42%
Total:		2507	100%	12	100%

Form C-102  
Revised October 15, 2009  
Submit one copy to appropriate  
District Office  
☒ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-29812	<sup>2</sup> Pool Code 72319/71599/58090	<sup>3</sup> Pool Name Blanco Mesaverde / Basin Dakota / Tapacito - Gallup Associated
<sup>4</sup> Property Code 33461	<sup>5</sup> Property Name JICARILLA C	<sup>6</sup> Well Number 5N
<sup>7</sup> OGRID No. 143199	<sup>8</sup> Operator Name ENERVEST OPERATING, L.L.C.	<sup>9</sup> Elevation 6597'

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	24	26N	5W		700	SOUTH	2350	EAST	RIO ARriba

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
MV-E/320ac. DK-E/320ac.	Y		NSL-5395

TGA- S<sup>1</sup>/<sub>2</sub> of SE 80 ac.

No allowance will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16

Calcd Cor.  
by SGL Porp.

17 OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Bridget Helferich* 6-18-10  
Signature Date

BRIDGET HELFERICH  
Printed Name

24

320 ac.  
MV  
DK

N 00-24-45 E  
5218.48' (C)

18 SURVEYOR CERTIFICATION

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.

9-17-05  
Date of Survey

Signature and Seal of Professional Surveyor:  
JOHN A. VURONICH

80 ac. T&A  
2350'

700'

Calcd Cor.  
by DBL Porp.

N 88-51-57 W  
5338.44' (C)

Calcd Cor.  
by SGL Porp.

14881  
Certificate Number

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Ave, 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  
Bureau of Minerals and Natural Resources

Form C-103  
May 27, 2004

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-039-29812
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. Jicarilla Contract 108
7. Lease Name or Unit Agreement Name Jicarilla C
8. Well Number 5N
9. OGRID Number 222374
10. Pool name or Wildcat Blanco Mesaverde/Basin Dakota

COPY

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator  
CDX RIO, LLC

3. Address of Operator  
2700 Farmington Avenue, Building K, Suite I, Farmington, New Mexico 87401

4. Well Location

Unit Letter O : 700' feet from the South line and 2350' feet from the East line  
Section 24 Township 26N Range 5W NMPM Rio Arriba County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
6661' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type New Drill Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water Distance from nearest surface water

Pit Liner Thickness: mil Below-Grade Tank: Volume bbls Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: Down Hole Commingle Application

☒

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

It is intended to drill and complete the subject well in the Blanco Mesaverde (Pool Code 72319) and the Basin Dakota (Pool Code 71599). The production will be commingled according to the Oil Conservation Division Order Number 11363. Production allocation for the two pools will be determined by the subtraction method. Commingling will not reduce the value of production. The Bureau of Land Management has been notified in writing of this application.

Interest is common. No notification is necessary.

RCVD MAY 15 '08  
OIL CONS. DIV.

DIST. 3

014C 2879 AZ

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

SIGNATURE Nancy Oltmanns TITLE Agent DATE 5/13/08

Type or print name Nancy Oltmanns E-mail address: nancy.oltmanns@cdxgas.com Telephone No. (505) 326-3003  
For State Use Only

APPROVED BY: [Signature] TITLE Deputy Oil & Gas Inspector, DATE MAY 22 2008  
Conditions of Approval (if any): District #3