

DISTRICT II  
811 South First St., Artesia, NM 88210-2835

OIL CONSERVATION DIVISION  
2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:  
☒ Administrative ☐ Hearing

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE  
☒ YES ☐ NO

Elm Ridge Resources, Inc.		312 W. La Plata St.		Farmington, NM 87401	
Operator		Address			
Jicarilla		1E		A Sec. 4, T24N, R5W	
Lease		Well No.		Unit Ltr. - Sec - Twp - Rge	
				County	
				Spacing Unit Lease Types: (check 1 or more)	
OGRID NO. 149052		Property Code 22558		API NO. 30-039-25796	
				Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> (and/or) Fee <input type="checkbox"/>	

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Otero Gallup 48450		Basin Dakota 71599
2. Top and Bottom of Pay Section (Perforations)	5984'-6224'		6982'-7040'
3. Type of Production (Oil or Gas)	Oil		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 650 psi b. (Original) 1100 (est.)	RECEIVED JUN 11 1999 OIL CON. DIV. DIST. 3	800 psi 1700 (est.)
6. Oil Gravity (° API) or Gas BTU Content	40°, 1200 (est.)		1200 (est.)
7. Producing or Shut-In?	SI-pending approval		SI-pending approval
Production Marginal? (yes or no)	Yes		Yes
• If Shut-In, give 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  • If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: 6/1/99 Rates: 8 BOPD 185 MCFD	Date: Rates:	Date: 11/30/98 Rates: 0.4 BOPD 169 MCFD
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 95.2 % Gas: 52.3 %	Oil: % Gas: %	Oil: 4.8 % Gas: 47.7 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No  
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) \_\_\_\_\_
16. 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 all offset operators.
  - \* Notification list of working, overriding, and royalty interests for uncommon interest cases.
  - \* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Dana L. Delventhal TITLE Agent DATE 6/8/99  
TYPE OR PRINT NAME Dana L. Delventhal TELEPHONE NO. ( 505 ) 326-4125

District I  
P. O. Box 1980, Hobbs, NM 88241-1980  
District II  
P.O. Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos RD., Aztec, NM 87410  
District IV  
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, NM 87504-2088

AMENDED REPORT

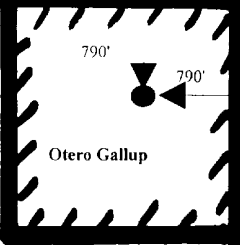
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number <b>30-039-25796</b>	2 Pool Code <b>48450 / 71599</b>	3 Pool Name <b>Otero Gallup / Basin Dakota</b>
4 Property Code <b>22558</b>	5 Property Name <b>Jicarilla</b>	6 Well Number <b>1E</b>
7 OGRID No. <b>149052</b>	8 Operator Name <b>Elm Ridge Resources, Inc.</b>	9 Elevation

10 Surface Location									
UL or lot no. <b>A</b>	Section <b>4</b>	Township <b>24N</b>	Range <b>5W</b>	Lot Idn	Feet from the <b>790'</b>	North/South line <b>North</b>	Feet from the <b>790'</b>	East/West line <b>East</b>	County <b>Rio Arriba</b>

11 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
12 Dedicated Acres <b>40 / 320</b>		13 Joint or Infill <b>N</b>	14 Consolidation Code		15 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

<div>6</div> <div></div> <div>Lease No: BIA No. 10</div> <div>Basin Dakota</div>	<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div>Signature: <i>Dana L. Delventhal</i></div> <div>Printed Name <b>Dana L. Delventhal</b></div> <div>Title <b>Agent</b></div> <div>Date <b>8-Jun-99</b></div>
	<div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>Date of Survey</div> <div>Signature and Seal Professional Surveyor:</div>
	Certificate Number

Submit 2 copies to Appropriate  
District Office.  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240  
DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-116  
Revised 1/1/89

## OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

### GAS - OIL RATIO TEST

Operator Elm Ridge Resources, Inc.		Pool Otero Gallup/Basin Dakota		County Rio Arriba									
Address 312 W. La Plata St. Farmington, NM 87401		TYPE OF TEST - (X)		Completion <input checked="" type="checkbox"/> Special <input type="checkbox"/>									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL
		U	S	T						R	WATER BBLs.	GRAV. OIL	
Jicarilla	1E	A	4	24N	5W								
Otero Gallup						6/1/99	F	105		24	3	8	185
Basin Dakota						11/30/98	F	105		24	0	0.4	169

#### Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature Dana J. Delventhal

Printed name and title Dana J. Delventhal, Agent

Date 6/8/99 (505) 326-4125

Telephone No. \_\_\_\_\_

June 8, 1999

Conoco, Inc.  
10 Desta Drive, Suite 100W  
Midland, TX 79705-4500

RE: Downhole Commingling Request  
Jicarilla No. 1E  
790' FNL, 790' FEL  
Section 4, T24N, R5W  
Rio Arriba County, New Mexico

Dear Sirs:

Elm Ridge Resources, Inc. has requested administrative approval from the New Mexico Oil Conservation Division to downhole commingle production from the Otero Gallup and Basin Dakota formations in the subject well. As an offset operator, you are being notified of this application and a copy is being provided for your consideration.

The Division Director may approve the proposed commingling request within 20 days after the receipt of this application, in the absence of valid objections from any offset operator. If you have any questions regarding this application, please give me a call at (505) 326-4125. Thank you for your consideration of this matter.

Sincerely,



Dana L. Delventhal  
Agent

June 8, 1999

Floyd Oil Co.  
711 Louisiana, Suite 1740  
Houston, TX 77002

RE: Downhole Commingling Request  
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Section 4, T24N, R5W  
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Sincerely,

A handwritten signature in black ink, reading "Dana L. Delventhal". The signature is fluid and cursive, with the first name "Dana" and last name "Delventhal" clearly legible.

Dana L. Delventhal  
Agent

June 8, 1999

Four Star Oil and Gas Company  
P. O. Box 2100  
Denver, CO 80201

RE: Downhole Commingling Request  
Jicarilla No. 1E  
790' FNL, 790' FEL  
Section 4, T24N, R5W  
Rio Arriba County, New Mexico

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Dana L. Delventhal  
Agent