

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

CONT 145

6. If Indian, Allottee or Tribe Name

Jicarilla

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Jicarilla K No. 17

9. API Well No.

30-039-20433

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

Rio Arriba, NM

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

CONOCO INC.

3. Address and Telephone No.

10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424

4. Location of Well (Footage Sec., T. R. M. or Survey Description)

1450' FSL & 2140' FWL  
K Sec. 12, T-25N, R-5W

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Repon  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☒ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracrunng  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

Note: Repon result of multiple completion on well completion or recompletion report and log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

It is proposed to recomplete this well to the Blanco Mesaverde and downhole with the Chacra & Dakota by the following procedure:

1. Perforate Mesaverde at 5461'-5677' with 23 holes.
2. Treat perforations with 600 gals 15% HCl
3. Install 2-7/8" frac liner from 4140'-4240' to straddle Chacra completion.
4. Slick water frac new Mesaverde perforations.
5. POOH with 2-7/8" frac liner

An application to downhole commingle the Chacra, Mesaverde, and Dakota has been filed. When DHC approval has been received, the above work will be done and all three zones downhole commingled.

RECEIVED  
JUL 28 1997

OIL CON. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed

Jerry W. Hoover

Title

Sr. Conservation Coordinator

Date

6/12/97

(This space for Federal or State office use)

Approved by

Title

for Chief, Lands and Mineral Resources

Date

JUL 24 1997

Vol. MV C-104 for NSZ

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994  
instructions on back

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

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20433	2 Pool Code 72319	3 Pool Name Blanco Mesaverde
4 Property Code 18022	5 Property Name Jicarilla K	6 Well Number 17
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	9 Elevation 6953

#### 10 Surface Location

UL or lot no. K	Section 12	Township 25N	Range 5W	Lot Idn	Feet from the 1450	North/South line South	Feet from the 2140	East/West line West	County Rio Arriba
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#### 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 S/320	13 Joint or Infill	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

16		17 OPERATOR CERTIFICATION
		<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p></p> <p>Signature Jerry W. Hoover</p> <p>Printed Name Sr. Conservation Coordinator</p> <p>Title 6/12/97</p> <p>Date</p>
		18 SURVEYOR CERTIFICATION
		<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>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980  
DISTRICT II  
811 South First St., Artesia, NM 88210-2835  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410-1693

State of New Mexico  
Energy, Minerals and Natural Resources Department  
OIL CONSERVATION DIVISION  
2040 S. Pacheco  
Santa Fe, New Mexico 87505-8423

RECEIVED  
JUL 28 1997  
OIL CON. DIV.  
DIST. 3

Form C-107-A  
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc. 10 Desta Dr., Ste 100W, Midland, TX 79705-4500  
Operator Address

Jicarilla K 17 K-12-T-25N-R5W Rio Arriba  
Lease Well No Unit Ltr Sec Twp Rgs County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 005073 Property Code 18023 API NO. 30039-20433 Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Otero Chacra 82329	Blanco Mesa Verde 72319	Basin Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	Proposed 4174'-4204'	Proposed 5461'-5677'	Current 7664'-7670'
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	To flow	To flow	Flowing
5. Bottom hole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	970 PSIA	745 PSIA	881 PSIA
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	976 PSIA	1134 PSIA	2789 PSIA
6. Oil Gravity (*API) or Gas BTU Content	1193-BTU	1265-BTU	1233-BTU
7. Producing or Shut-In?	Shut - in	To be completed	Producing
Production Marginal? (yes or no)	Yes	Expected to be	Yes
• If Shut-In give date and oil/gas/water rates of last production	Date Rates	Date Rates	Date Rates
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 Rates	Date Rates	Date Rates
	Split Chacra & Dakota by percentages below after subtraction	Incremental Production by subtraction see attached sheet	Split Chacra & Dakota by percentages after subtraction
8. Fixed Percentage Allocation Formula - % for each zone	Oil      Gas 0      %      27      %	Oil      Gas %      %      %	Oil      Gas 100      %      73      %

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 others ☒ 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 Jerry W. Hoover TITLE Sr. Conservation Coord. DATE 6/13/97  
TYPE OR PRINT NAME Jerry W. Hoover TELEPHONE NO. (915) 686-6548

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator <b>SOUTHERN UNION PRODUCTION COMPANY</b>		Lease <b>JICARILLA #K#</b>		Well No. <b>17</b>
Unit Letter <b>K</b>	Section <b>12</b>	Township <b>25 NORTH</b>	Range <b>5 WEST</b>	County <b>RIO ARriba</b>
Actual Footage Location of Well: <b>1450</b> feet from the <b>SOUTH</b> line and <b>2140</b> feet from the <b>WEST</b> line				
Ground Level Elev. <b>6953.0</b>	Producing Formation <b>DAKOTA</b>	Pool <b>BASIN DAKOTA</b>	Dedicated Acreage: <b>5/2 - 320</b> Acres	

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

( ) Yes ( ) No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually 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.

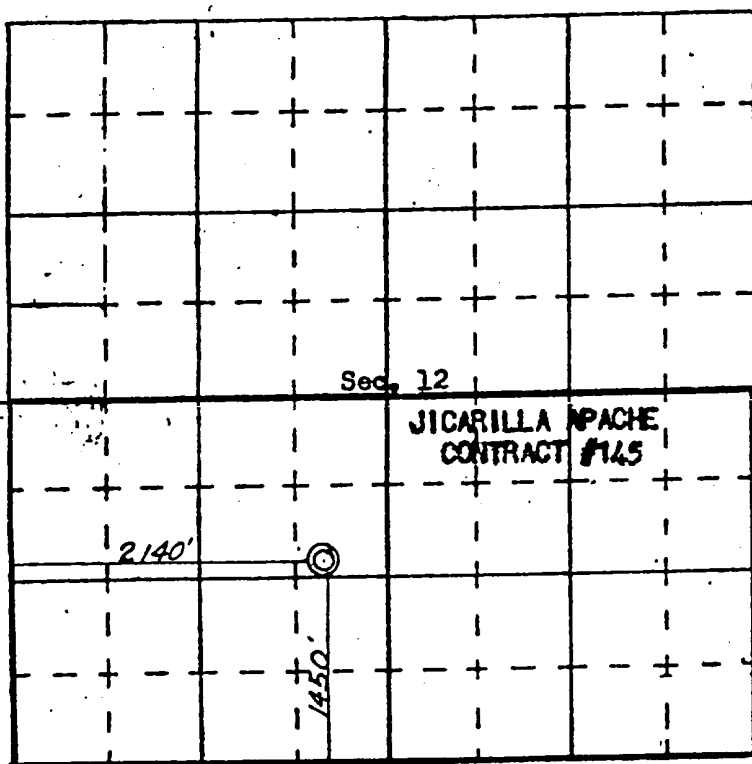
ORIGINAL SIGNED BY  
**B. R. VANDERSLICE**

Name  
**B. R. VANDERSLICE**

Position  
**AREA SUPERINTENDENT**

Company  
**SOUTHERN UNION PRODUCTION**

Date  
**OCTOBER 7, 1971**



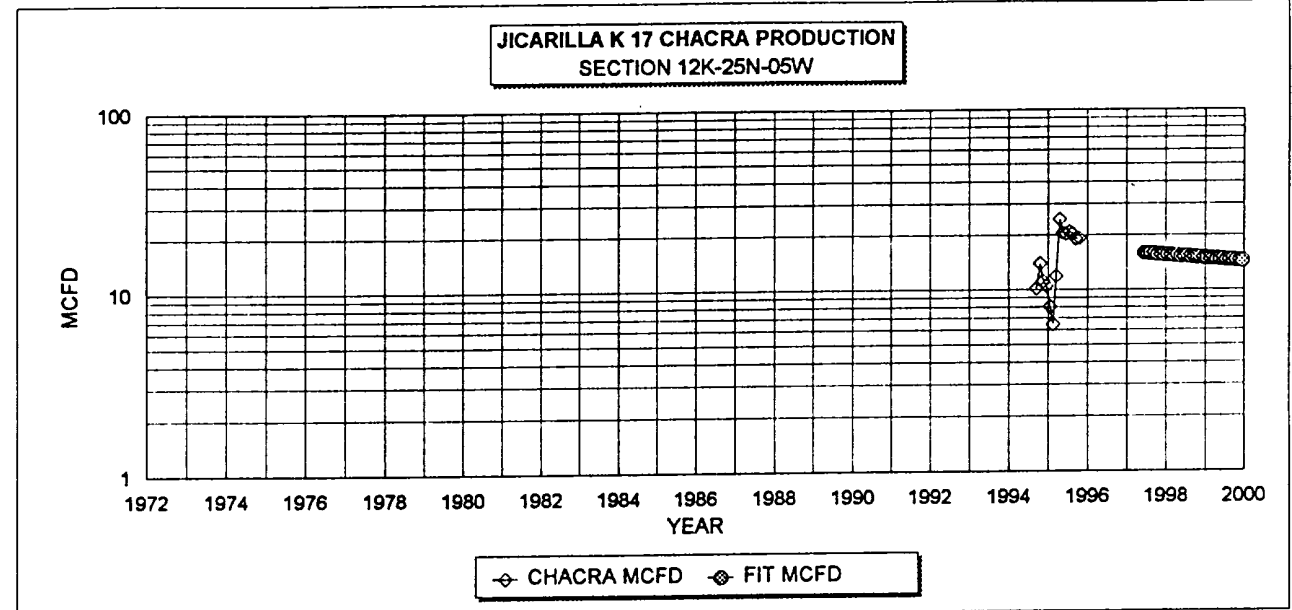
SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

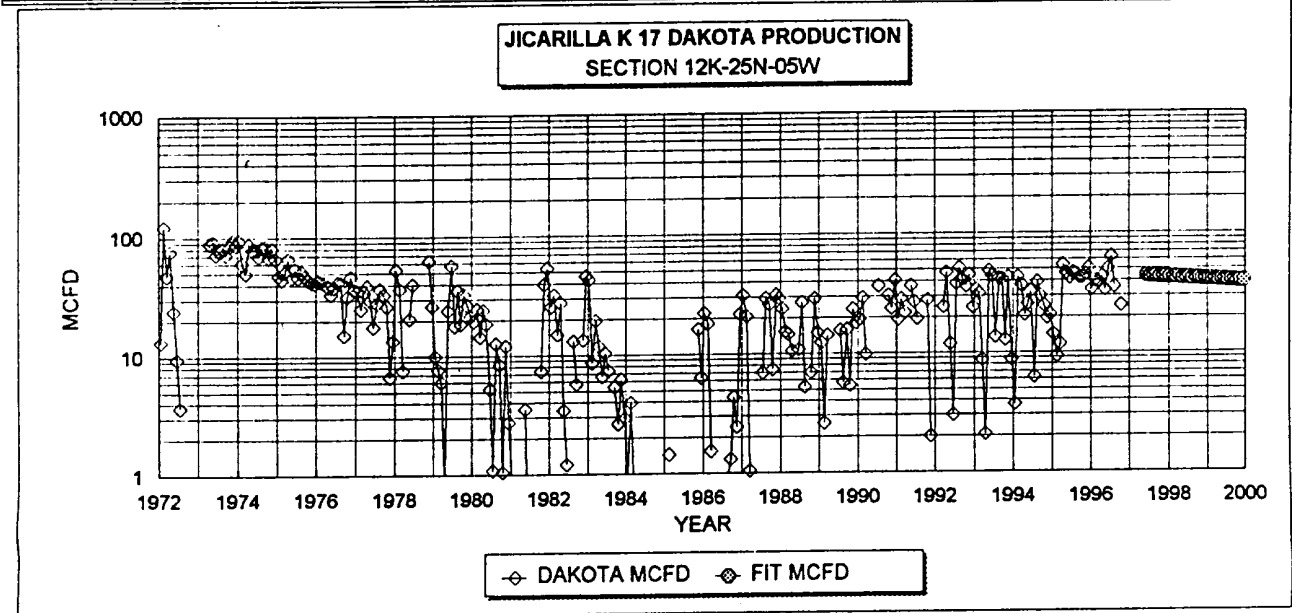
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

5 PROFESSIONAL ENGINEER  
Date Signed **10/7/71**  
Registered Professional Engineer  
and/or Land Surveyor  
**JAMES E. WENNER**  
1463  
Certificate No. \_\_\_\_\_

PREPARED BY: PDB



CHACRA HISTORICAL DATA:	1ST PROD: 09/94	CHACRA PROJECTED DATA
OIL CUM:	0.00 MBO	6/1/97 Q1: 16 MCFD
GAS CUM:	6.6 MMCF	DECLINE RATE: 4.0% (EXPONENTIAL)
OIL YIELD:	0.0000 BBL/MCF	



DAKOTA HISTORICAL DATA	1ST PROD: 01/72	DAKOTA PROJECTED DATA
OIL CUM:	4.6 MBO	6/1/97 Q1: 44 MCFD
GAS CUM:	214.4 MMCF	DECLINE RATE: 4.0% (EXPONENTIAL)
OIL YIELD:	0.0216 BBL/MCF	

FIXED COMMINGLE ALLOCATION FACTORS:			GAS	OIL	GAS ALLOCATION BASED ON PROJECTED 1997 RATES
CHACRA	27%	0%			OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS
DAKOTA	73%	100%			

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGY DATA

PREPARED BY: PDB

JICARILLA K 17: CHACRA AND DAKOTA FORECAST FOR SUBTRACTION COMMINGLE WITH MESAVERDE  
12K-25N-05W

YEAR	CHACRA	DAKOTA	TOTAL		
	MCFD	MCFD	MCFD	CHACRA	DAKOTA
(6-12/97 AVG)				OIL; BOPD	OIL; BOPD
1997	16	43	58	0.0	0.9
1998	15	42	57	0.0	0.9
1999	15	40	55	0.0	0.9
2000	14	38	53	0.0	0.8
2001	14	37	51	0.0	0.8
2002	13	35	49	0.0	0.8
2003	13	34	47	0.0	0.7
2004	12	33	45	0.0	0.7
2005	12	31	43	0.0	0.7
2006	11	30	41	0.0	0.7
2007	11	29	40	0.0	0.6
2008	10	28	38	0.0	0.6
2009	10	27	36	0.0	0.6
2010	9	26	35	0.0	0.6
2011	9	25	34	0.0	0.5
2012	9	24	32	0.0	0.5
2013	8	23	31	0.0	0.5
2014	8	22	30	0.0	0.5
2015	8	21	29	0.0	0.5
2016	7	20	27	0.0	0.4
2017	7	19	26	0.0	0.4
2018	7	18	25	0.0	0.4
2019	7	18	24	0.0	0.4
2020	6	17	23	0.0	0.4
2021	6	16	22	0.0	0.4
2022	6	16	21	0.0	0.3
2023	6	15	21	0.0	0.3
2024	6	14	20	0.0	0.3
2025	6	14	19	0.0	0.3
2026	6	13	18	0.0	0.3
2027	6	13	17	0.0	0.3
2028	6	12	17	0.0	0.3
2029	4	12	16	0.0	0.3
2030	4	11	15	0.0	0.2

JICARILLA K #17  
OFFSET OPERATORS

CONOCO, INC. MFRIT ENERGY CORP.  2	CONOCO, INC.  1	BURLINGTON RESOURCES EL PASO EXPL. CO.  6
	125N R5W	125N R4W
CONOCO, INC. MFRIT ENERGY CORP.  11	CONOCO, INC.  12	BURLINGTON RESOURCES EL PASO EXPL. CO.  7
	JIC K 17 O 125N R5W	125N R5W
AMOCO PHOIL.  14	AMOCO PHOIL.  13	CONOCO, INC.  18

Township 25N --- Range 5W

Conoco, Inc.  
Form C-107-A, Application for Downhole Commingling  
Filing date: June 13, 1997

**Offset Operators for Wells as listed below:**

Jicarilla K, Well #11  
Marathon Oil Co.  
Burlington Resources  
Amoco Production Co.

Jicarilla K, Well #17  
Burlinton Resources  
Amoco Production

Jicarilla K, Well #16  
Burlington Resources  
Amoco Production

Newsom, Well #17E  
Amoco Production  
Snyder Oil Co.  
Robert R. Click

Jicarilla K, Well #15E  
Burlington Resources

Jicarilla E, Well #10  
Burlington Resources

Jicarilla E, Well #12  
Burlington Resources

Federal, Well #13E  
Burlington Resources  
Caulkins Oil Co.

AXI Apache J, Well #18A  
Amoco Production  
Elm Ridge Resources

Federal, Well #11E  
Caulkins Oil Co.  
Amoco Production  
Burlington Resources

Reames COM, Well #2  
Caulkins Oil Co.  
Burlington Resources