

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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)

960' FNL & 790' FWL
Sec. 12, T-25N, R-5W

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. 16

9. API Well No.

30-039-20428

10. Field and Pool, or Exploratory Area

Blanco Mesaverde ext

11. County or Parish, State

Rio Arriba, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Repon	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracrunng
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

Note: Repon result of multiple completion on Wdl 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 by and downhole with the Dakota by the following procedure:

1. Set 4'1/2" CIBP @ 5750' over top of Dakota.
2. Perforate Menefee/Point Lookout at 5341'-5701' w/23 holes
3. Treat perforations w/600 gals 15% HCl.
4. Slick water frac perforations.

An application to downhole commingle the Mesaverde and Dakota has been filed. When DHC approval has been received, the next step will be done.

5. Drill out CIBP and downhole commingle Mesaverde and Dakota.

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

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

Signed [Signature]

Title Sr. Conservation Coordinator

Date 6/12/97

(This space for Federal or State office use)

Approved by [Signature]

Title for Chief, Lands and Mineral Resources

Date JUL 24 1997

Conditions of approval if any:

<p>16</p>	<h3 style="text-align: center;">17 OPERATOR CERTIFICATION</h3> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Jerry W. Hoover</i></p> <hr/> <p>Signature _____ Printed Name Jerry W. Hoover</p> <hr/> <p>Title Sr. Conservation Coordinator</p> <hr/> <p>Date 6/12/97</p>
<p style="font-size: 2em; font-weight: bold;">RECEIVED</p> <p style="font-size: 1.5em;">JUL 28 1997</p> <p style="font-size: 1.5em; font-weight: bold;">OIL CON. DIV. DIST. 3</p>	<h3 style="text-align: center;">18 SURVEYOR CERTIFICATION</h3> <p><i>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.</i></p> <hr/> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <hr/> <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 2 8 1997

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-5420Form 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

16

D-12-T-25N-R5W

Rio Arriba

Lease

Well No

Unit Ltr Sec Twp Rge

County

OGRID NO. 005073

Property Code

18023

API NO.

30039-20428

Spacing Unit Lease Types: (check 1 or more)

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)	4202' - 4230'	Proposed 5341' - 5701'	Current 7512' - 7710'
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing	To Flow	Flowing
5. Bottom hole Pressure	a. (Current) 494 PSIA	a. 1133 PSIA	a. 829 PSIA
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original) 967 PSIA	b. 1133 PSIA	b. 2792 PSIA
6. Oil Gravity (*API) or Gas BTU Content	1258 - BTU	1265 - BTU	1280 - BTU
7. Producing or Shut-In?	Producing	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 <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.</small>	Date Rates Split Chacra & Dakota by percentages below after subtraction	Date Rates:	Date Rates Split Chacra & Dakota by percentages below after subtraction
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date Rates	Date Rates Incremental Production by subtraction see attached sheet	Date Rates
8. Fixed Percentage Allocation Formula - % for each zone	Oil 0 % Gas 16 %	Oil % Gas %	Oil 100 % Gas 84 %

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?

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 ☐ No11. 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 ☐ No13. 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. NMOC 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

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 SOUTHERN UNION PRODUCTION COMPANY		Lease JICARILLA "K"		Well No. 16	
Init Letter D	Section 12	Township 25 NORTH	Range 5 WEST	County RIO ARriba	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 960 feet from the NORTH line and 790 feet from the WEST line </div>					
Round Level Elev. 6990.0	Producing Formation DAKOTA	Pool BASIN DAKOTA	Dedicated Acreage. N/2 - 320 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by unitization, 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 herein is true and complete to the best of my knowledge and belief.

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

Name
BILL VANDERSLICE

Position
AREA SUPERINTENDENT

Company
SOUTHERN UNION PRODUCTION

Date
SEPTEMBER 21, 1971

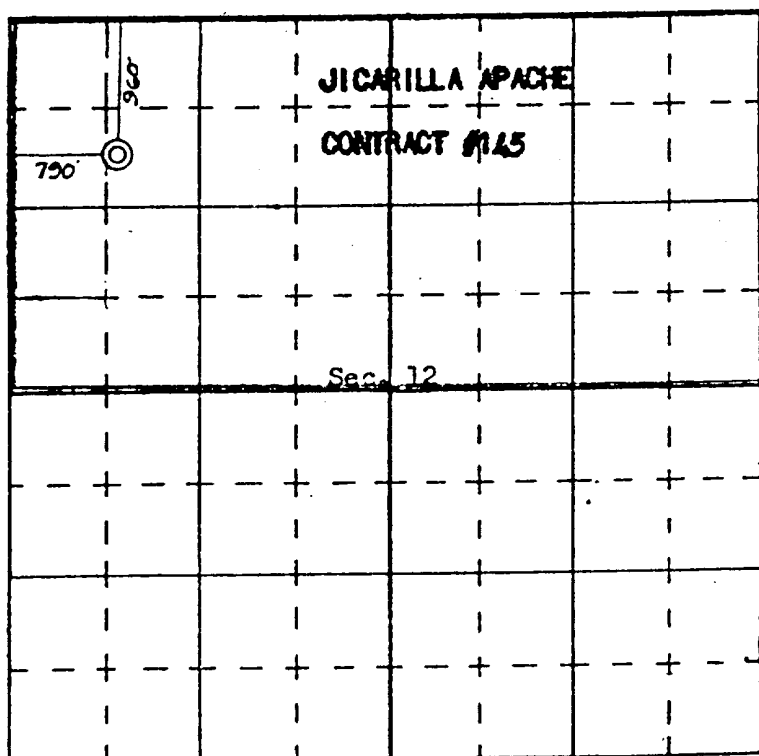
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

16 September, 1971
Date Surveyed

James P. Leese
Registered Professional Engineer
and a Land Surveyor

JAMES P. LEESE

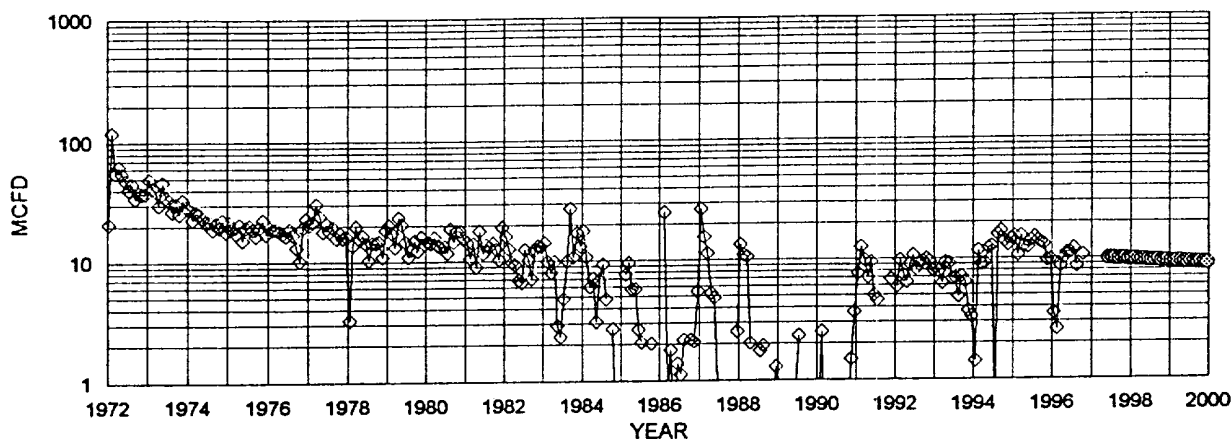
1463
Certificate No.



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

**JICARILLA K 16 CHACRA PRODUCTION
SECTION 12D-25N-05W**

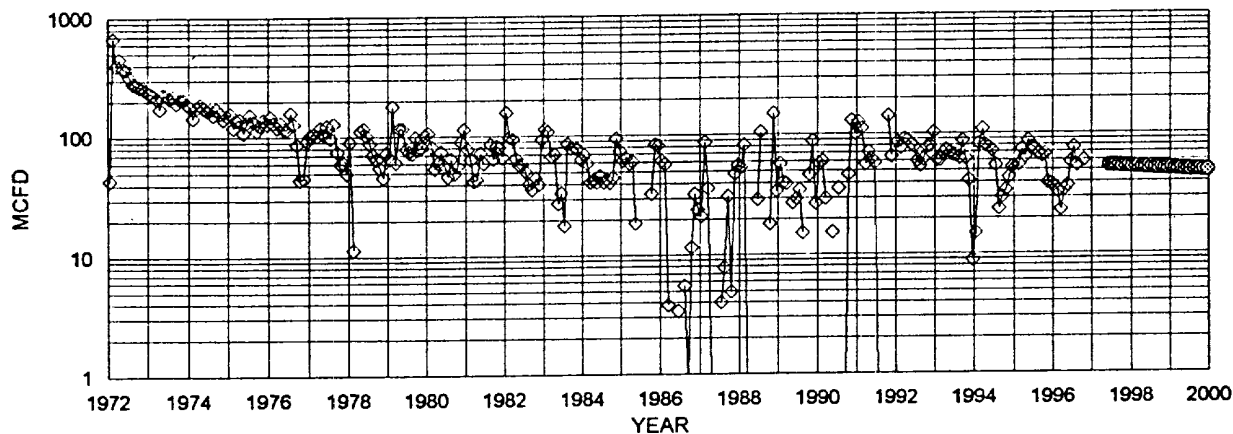


◇ CHACRA MCFD ◇ FIT MCFD

CHACRA HISTORICAL DATA: **1ST PROD: 01/72**
OIL CUM: 0.01 MBO
GAS CUM: 115.9 MMCF
OIL YIELD: 0.0001 BBL/MCF

CHACRA PROJECTED DATA
6/1/97 Q1: 10 MCFD
DECLINE RATE: 4.0% (EXPONENTIAL)

**JICARILLA K 16 DAKOTA PRODUCTION
SECTION 12D-25N-05W**



◇ DAKOTA MCFD ◇ FIT MCFD

DAKOTA HISTORICAL DATA **1ST PROD: 01/72**
OIL CUM: 9.6 MBO
GAS CUM: 767.0 MMCF
OIL YIELD: 0.0126 BBL/MCF

DAKOTA PROJECTED DATA
6/1/97 Q1: 54 MCFD
DECLINE RATE: 4.0% (EXPONENTIAL)

FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
CHACRA	16%	0%
DAKOTA	84%	100%

GAS ALLOCATION BASED ON PROJECTED 1997 RATES
OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGY DATA

10³
10⁰
10³
10

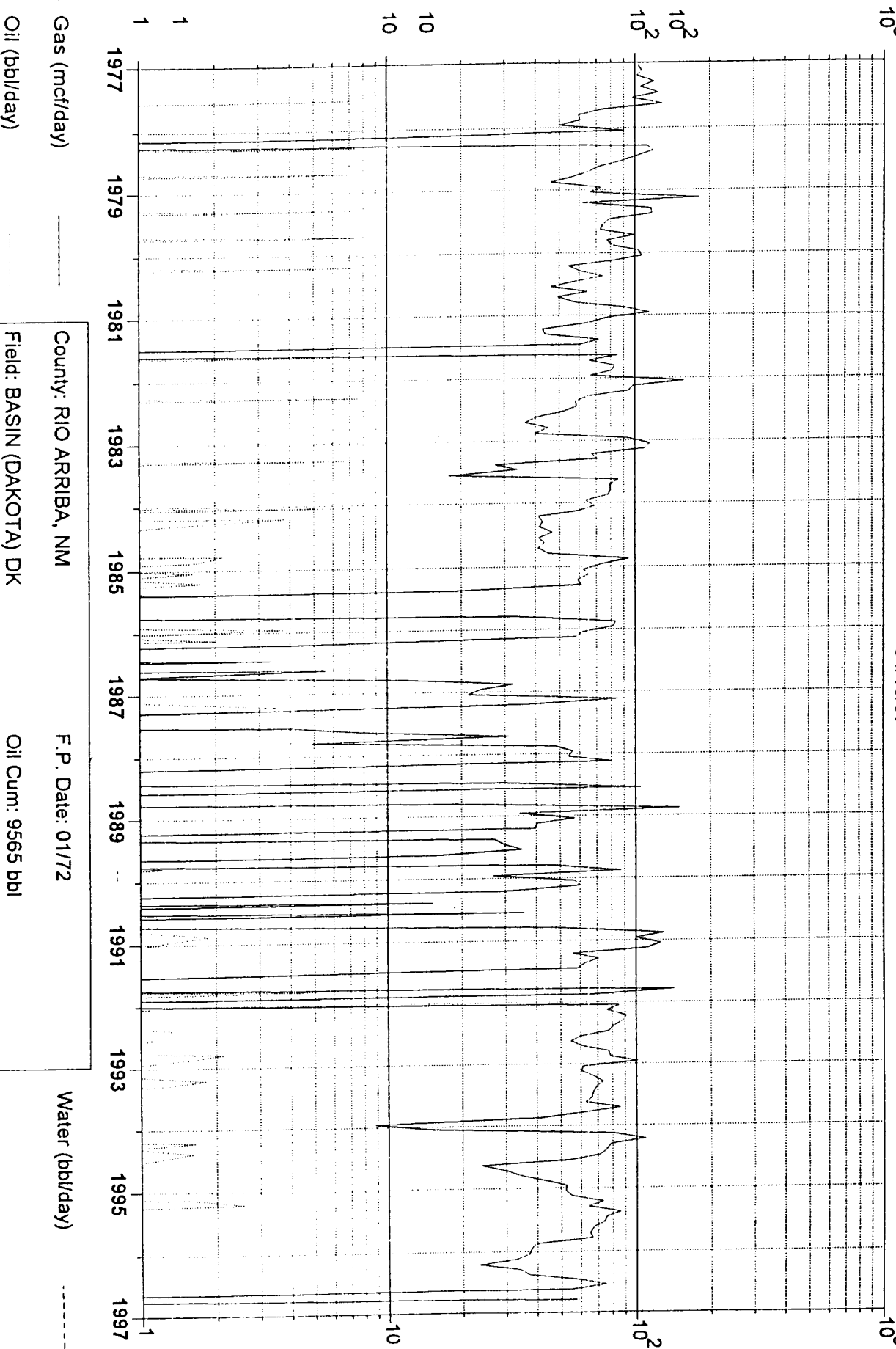
Lease: JICARILLA K (16)

Dwights

04/10/97

Retrieval Code: 251,039,25N05W12D00DK

10³
10²
10



Gas (mcf/day)

Oil (bbl/day)

County: RIO ARRIBA, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: CONOCO INC

F.P. Date: 01/72

Oil Cum: 9565 bbl

Gas Cum: 757.0 mmcf

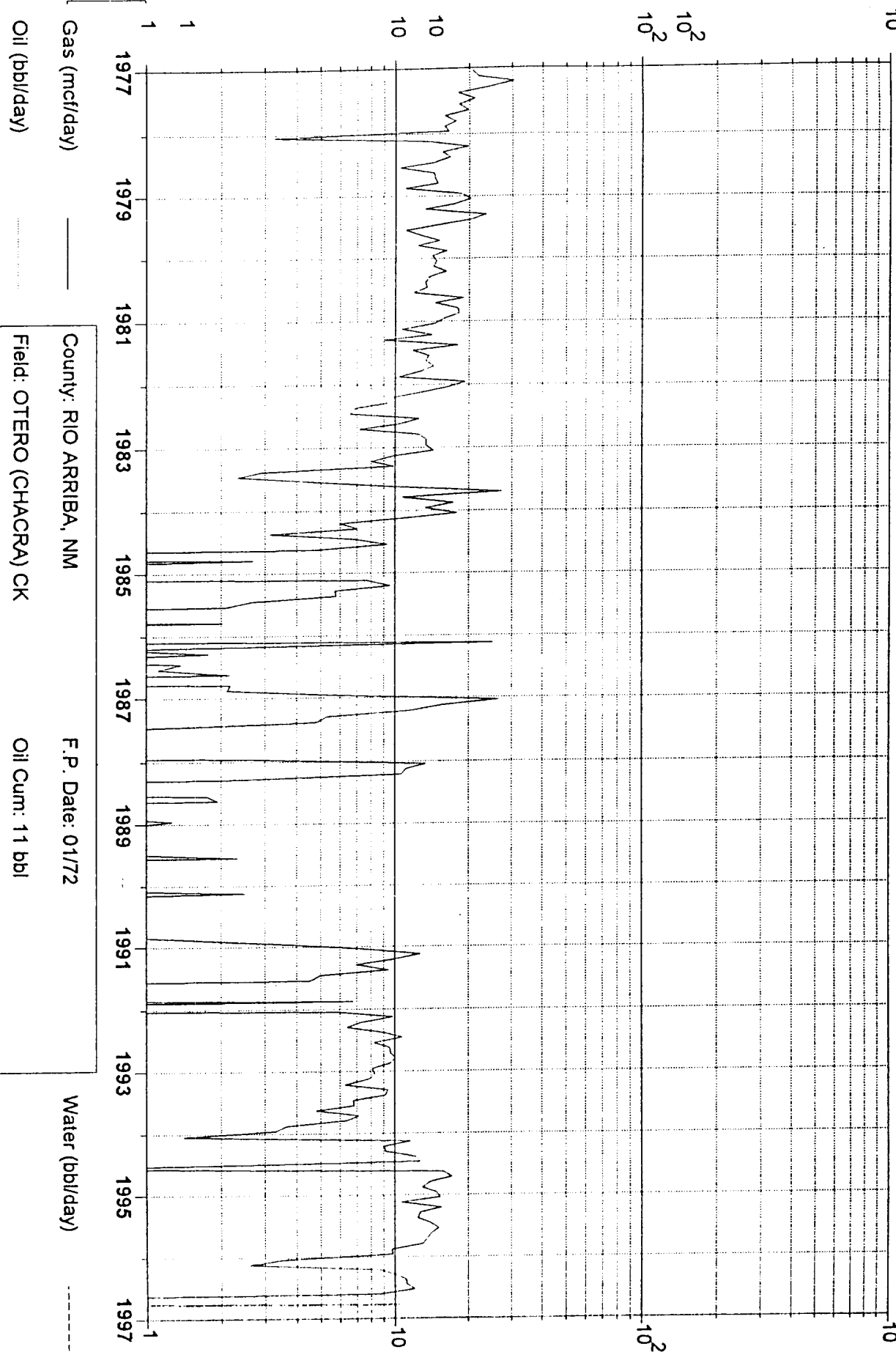
Location: 12D 25N 5W

Water (bbl/day)

Lease: JICARILLA K (16)

Dwights
04/10/97

Retrieval Code: 251,039,25N05W12D00CK



Gas (mcf/day) —
Oil (bbl/day) - - -

County: RIO ARriba, NM
Field: OTERO (CHACRA) CK
Reservoir: CHACRA

F.P. Date: 01/72
Oil Cum: 11 bbl
Gas Cum: 115.9 mmcf

Operator: CONOCO INC
Location: 12D 25N 5W

JICARILLA K 16: CHACRA AND DAKOTA FORECAST FOR SUBTRACTION COMMINGLE WITH MESAVERDE

12D-25N-05W

YEAR	CHACRA	DAKOTA	TOTAL	CHACRA	DAKOTA
	MCFD	MCFD	MCFD	OIL; BOPD	OIL; BOPD
(6-12/97 AVG)					
1997	10	53	63	0.0	0.7
1998	9.6	52	61	0.0	0.7
1999	9	50	59	0.0	0.6
2000	9	48	57	0.0	0.6
2001	8	46	54	0.0	0.6
2002	8	44	52	0.0	0.6
2003	8	42	50	0.0	0.5
2004	8	41	48	0.0	0.5
2005	7	39	46	0.0	0.5
2006	7	37	44	0.0	0.5
2007	7	36	43	0.0	0.5
2008	6	34	41	0.0	0.4
2009	6	33	39	0.0	0.4
2010	6	32	38	0.0	0.4
2011	6	30	36	0.0	0.4
2012	5	29	35	0.0	0.4
2013	5	28	33	0.0	0.4
2014	5	27	32	0.0	0.3
2015	5	26	31	0.0	0.3
2016	5	25	29	0.0	0.3
2017	4	24	28	0.0	0.3
2018	4	23	27	0.0	0.3
2019	4	22	26	0.0	0.3
2020	4	21	25	0.0	0.3
2021	4	20	24	0.0	0.3
2022	4	19	23	0.0	0.2
2023	3	19	22	0.0	0.2
2024	3	18	21	0.0	0.2
2025	3	17	20	0.0	0.2
2026	3	17	20	0.0	0.2
2027	3	16	19	0.0	0.2
2028	3	15	18	0.0	0.2
2029	3	15	17	0.0	0.2
2030	3	14	17	0.0	0.2

JICARILLA K #16

OFFSET OPERATORS

<p>CONOCO, INC. MERIT ENERGY CORP.</p> <p>2</p>	<p>CONOCO, INC.</p> <p>1</p>	<p>BURLINGTON RESOURCES EL PASO EXPL. CO.</p> <p>6</p>
<p>CONOCO, INC. MERIT ENERGY CORP.</p> <p>11</p>	<p>CONOCO, INC.</p> <p>12</p>	<p>BURLINGTON RESOURCES EL PASO EXPL. CO.</p> <p>7</p>
<p>AMOCO PROD.</p> <p>14</p>	<p>AMOCO PROD.</p> <p>13</p>	<p>CONOCO, INC.</p> <p>18</p>

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