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OIL CONSERVATION DIVISION  
SANTA FE

Southern

Rockies

Business

Unit

April 11, 1996

Mr. William J. LeMay, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P. O. Box 6429  
Santa Fe, NM 87505

**Application for Exception to Rule 303-C Downhole Commingling  
Jicarilla Apache 102 #8E Well  
Unit I Section 3-T26N-R4W  
Basin Dakota and Blanco Mesaverde Pools  
Rio Arriba County, New Mexico**

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. By copy of this application by certified mail, return receipt requested, Amoco is notifying all offset operators in the formations captioned above as well as all affected interest owners if the ownership of those formations is not common. The Division Director may approve the proposed downhole commingling in the absence of a valid objection from any offset operator or any interest owner in those instances where ownership is not common in the zones to be commingled within 20 days after the receipt of the application if, in his opinion, waste will not result thereby, and correlative rights will not be violated.

Should there be questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,

Pamela W. Staley

Enclosures

- cc: Steve Smethie
- Patty Haeefe
- Wellfile
- Proration file

Frank Chavez, Supervisor  
NMOCD District III  
1000 Rio Brazos Road  
Aztec, NM 87410

Robert Kent  
Bureau of Land Management  
435 Montano NE  
Albuquerque, NM 87107

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

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

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

Administrative  Hearing

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE  
 YES  NO

Amoco Production Company		P.O. Box 800 Denver, CO 80201	
Operator Jicarilla Apache 102	8E	Address Unit I Section 3-T26N-R4W	Rio Arriba
Lease	Well No.	Unit Ltr. - Sec Twp - Rge	County
Spacing Unit Lease Types: (check 1 or more)			
OGRID NO. 000778	Property Code 000735	API NO. 3003922454	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	BLANCO MESAVERDE 72319		BASIN DAKOTA 71599
2. Top and Bottom of Pay Section (Perforations)	5358' - 5594'		7840' - 8026'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated or Measured Original	a. (Current) 653 PSI	a.	a. 1058 PSI
	b. (Original) 1364 PSI	b.	b. 3100 PSI
6. Oil Gravity (° API) or Gas BTU Content	1190 BTU / 63.6 DEG API		1266 BTU / 66.7 DEG API
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)	YES		NO
• If Shut-In, give data 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:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 2/96 Rates: 75 MCFD 1.44 BCPD 0.55 BWPD	Date: Rates:	Date: 2/96 Rates: 250 MCFD 2.36 BCPD 1.61 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 38 % Gas 23 %	Oil: % Gas %	Oil: 62 % Gas 77 %

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 JICARILLA APACHE 102
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 *Pamela W. Staley* TITLE REGULATORY AFFAIRS REP DATE 4/11/96  
TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. ( 303 ) 830-5344

All distances must be from the outer boundaries of the Section.

REVISED Form C-102

Operator <b>AMOCO PRODUCTION COMPANY</b>		Lease <b>JICARILLA APACHE 102</b>			Well No. <b>8E</b>
Unit Letter <b>I</b>	Section <b>3</b>	Township <b>26N</b>	Range <b>1W</b>	County <b>Rio Arriba</b>	

Actual Footage Location of Well:

**1700** feet from the **South** line and **940** feet from the **East** line

Ground Level Elev. <b>6905</b>	Producing Formation <b>Dakota/Mesaverde</b>	Pool <b>Basin Dakota/Blanco Mesaverde</b>	Dedicated Acreage: <b>320/321.68</b> Acres
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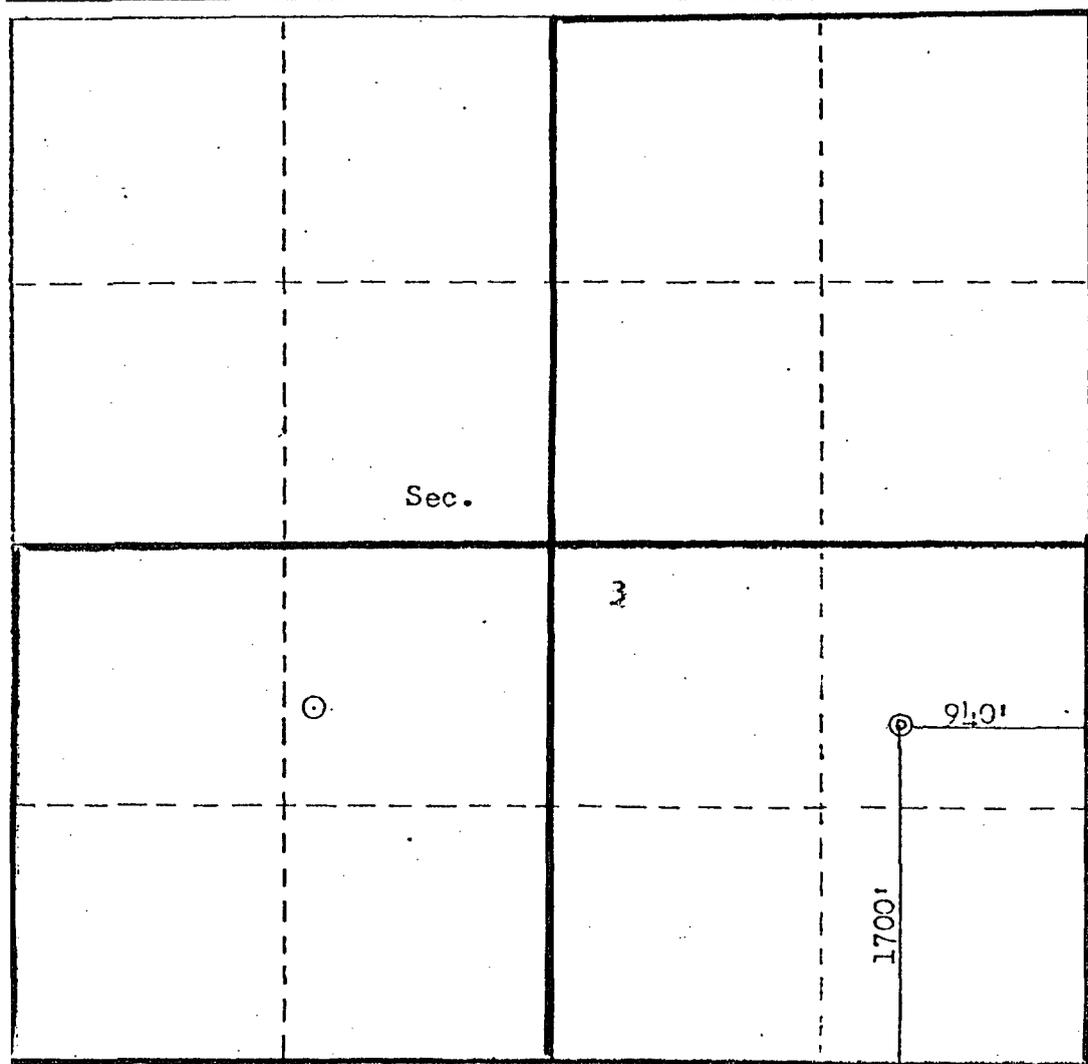
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by 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 been 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.

MV ↓



CERTIFICATION

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

*D.H. Shoemaker*  
Name

D. H. Shoemaker

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

May 26, 1982

I hereby certify that the well location shown on this plot 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.

ADMN 36601

Date Surveyed

April 23, 1980

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Certificate No.

3950

# Dwights

Lease: JICARILLA APACHE 102 00008E

04/09/96

Retrieval Code: 251,039,26N04W03100MV

10<sup>3</sup>  
10<sup>3</sup>  
10<sup>3</sup>

10<sup>5</sup>

10<sup>2</sup>  
10<sup>2</sup>  
10<sup>2</sup>

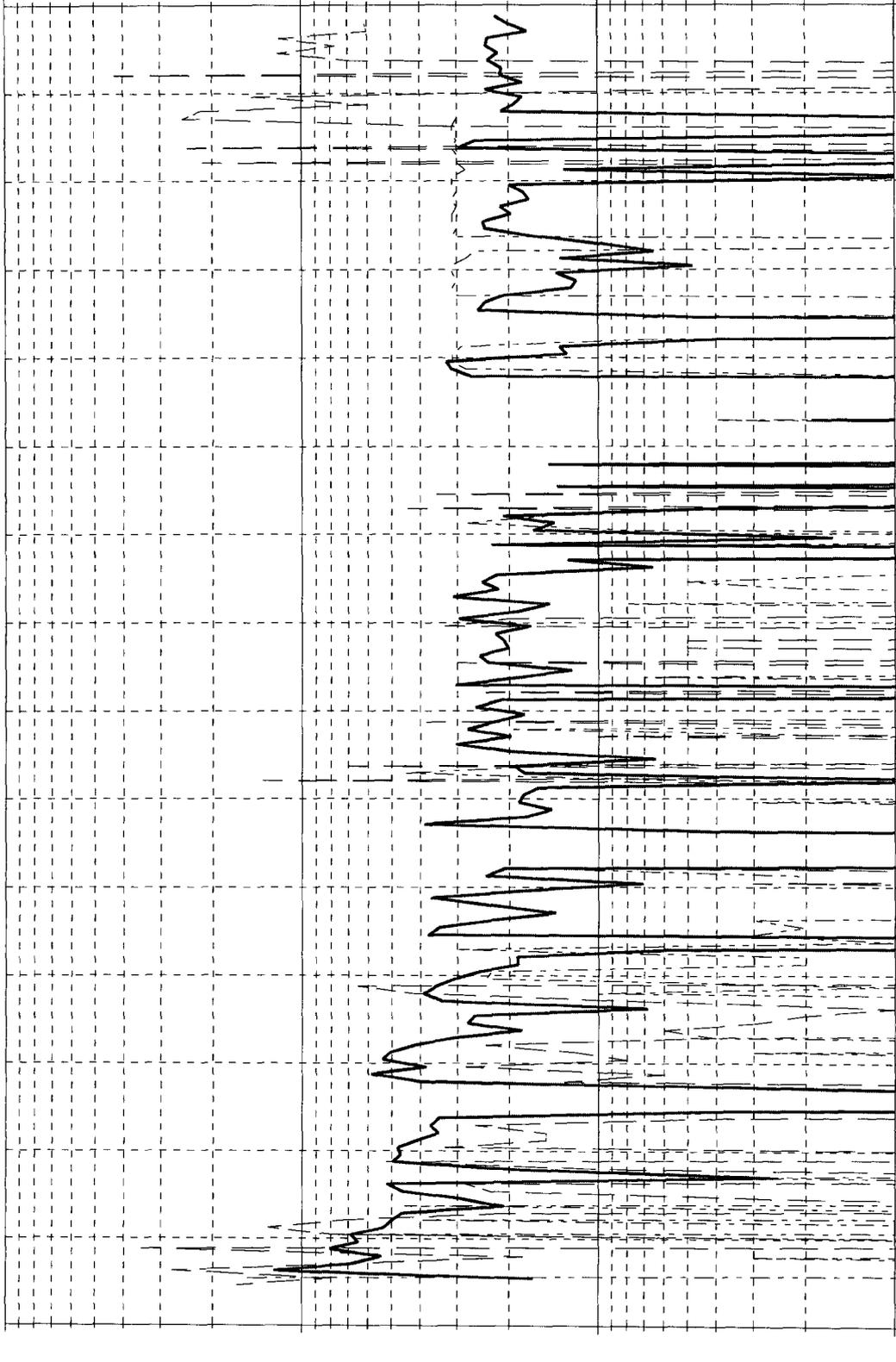
10<sup>4</sup>

10  
10

10<sup>3</sup>

1  
1

10<sup>2</sup>



Oil (bbi/mo)

Water (bbi/mo)

Gas (mcf/mo)

County: RIO ARRIBA, NM F.P. Date: 06/81

Field: BLANCO (MESAVERDE) MV Oil Cum: 4252 bbl

Reservoir: MESAVERDE Gas Cum: 355.7 mmcf

Operator: AMOCO PRODUCTION CO Location: 31 26N 4W

# Dwights

Lease: JICARILLA APACHE 102 00008E

Retrieval Code: 251,039,26N04W03I00DK

04/09/96

$10^3$   
 $10^3$

$10^2$   
 $10^2$

10  
10

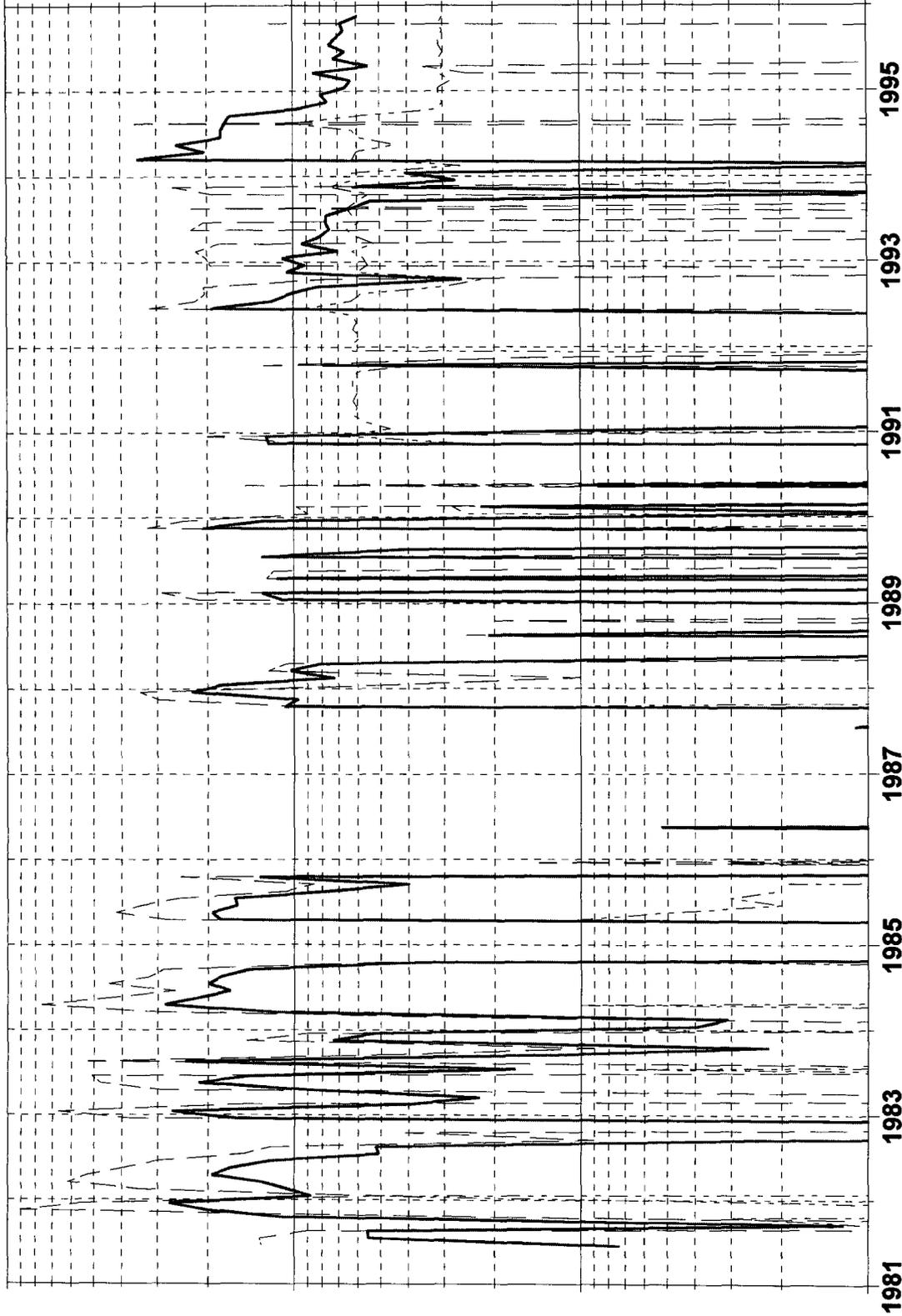
1  
1

$10^5$

$10^4$

$10^3$

$10^2$



Oil (bbbl/mo)

Water (bbbl/mo)

Gas (mcf/mo)

F.P. Date: 06/81

County: RIO ARRIBA, NM

Oil Cum: 18.91 mbbl

Field: BASIN (DAKOTA) DK

Gas Cum: 1139 mmcf

Reservoir: DAKOTA

Location: 31 26N 4W

Operator: AMOCO PRODUCTION CO

**OFFSET OPERATORS**  
**JICARILLA APACHE 102 #8E**

Meridian Oil, Inc.  
P.O. Box 4289  
Farmington, NM 87499

Snyder Oil Corp.  
1625 Broadway  
Denver, Co. 80202