

DHC 1352 8/21/96

Southern
Rockies
Business
Unit

July 29, 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-A
Downhole Commingling
Jicarilla Contract 146 Well #11E
Unit O Section 4-T25N-R5W
Basin Dakota and Blanco Mesaverde Pools
San Juan 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 Haefele
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 87505-8429

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 146

11E

Address
Unit O Section 4-T25N-R5W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000738 API NO. 3003922520 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	BLANCO MESAVERDE 72319		BASIN DAKOTA 71599
2. Top and Bottom of Pay Section (Perforations)	5190' - 5350'		7183' - 7369'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure	(Current) 851 PSI	a.	a. 1212 PSI
Oil Zones - Artificial Lift: Estimated Current			
Gas & Oil - Flowing: Measured Current	(Original) 1402 PSI	b.	b. 2976 PSI
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity (° API) or Gas BTU Content	1283 BTU		1264 BTU
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	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: 6/96 Rates: 111 MCFD 0.4 BCPD 0.90 BWPD	Date: Rates:	Date: 6/96 Rates: 102 MCFD 0.7 BCPD 0.7 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 36 % Gas 52 %	Oil: % Gas %	Oil: 64 % Gas 48 %

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)

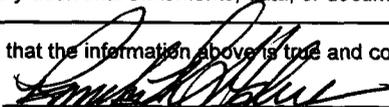
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. Yes No JICARILLA APACHE 146

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  TITLE REGULATORY AFFAIRS REP DATE 7/29/96
TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. (303) 830-5344

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-77

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

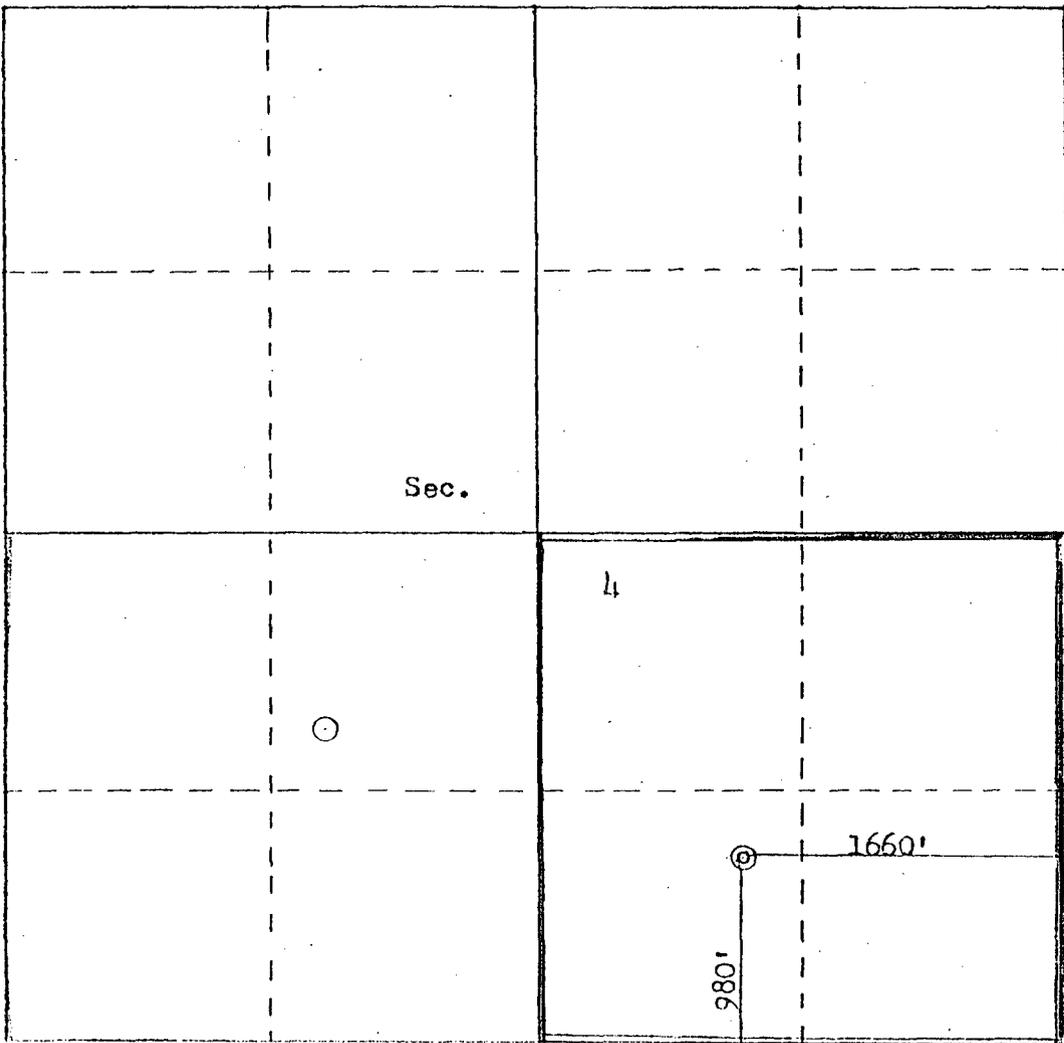
Operator AMOCO PRODUCTION COMPANY		Lease JICARILLA CONTRACT 146			Well No. 11E
Unit Letter 0	Section 4	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 980 feet from the South line and 1660 feet from the East line					
Ground Level Elev: 6726	Producing Formation Chacra-Mesaverde/Dakota		Pool Otero Chacra-Gonzales MV/ Basin Dakota		Dedicated Acreage: 160/320 Acres

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.



Scale: 1"=1000'

CERTIFICATION

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

R. A. Downey

Name
R. A. DOWNEY

Position
DISTRICT ENGINEER

Company
AMOCO PRODUCTION COMPANY

Date
SEPTEMBER 5, 1980

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.

Date Surveyed
July 29, 1980

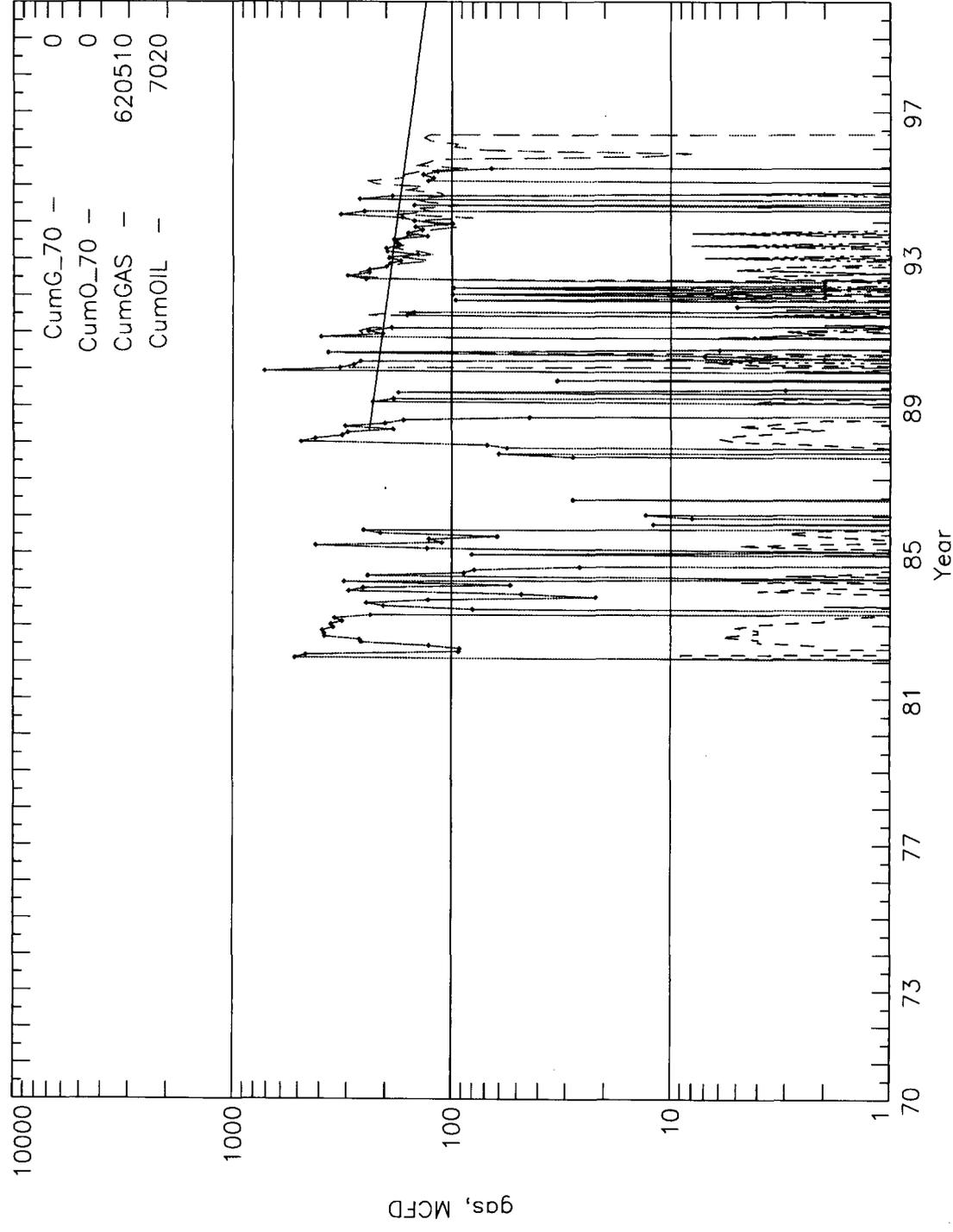
Registered Professional Engineer and Land Surveyor
Fred B. Kern Jr.

Certificate No. **12**

3950

For: zhab0b
Engr: zhab0b

JICARILLA CONTRACT 146 11E
Operator— AMOCO PRODUCTION CO
300392252000DK 0042505--011EDK APC_WI — 1.00000000



DCLN 0.0508
CurrQ NA
RemRes 1131452
EUR 1751962
Fit_date NA

For: zhab0b

Engr: zhab0b

JICARILLA CONTRACT 146 11E

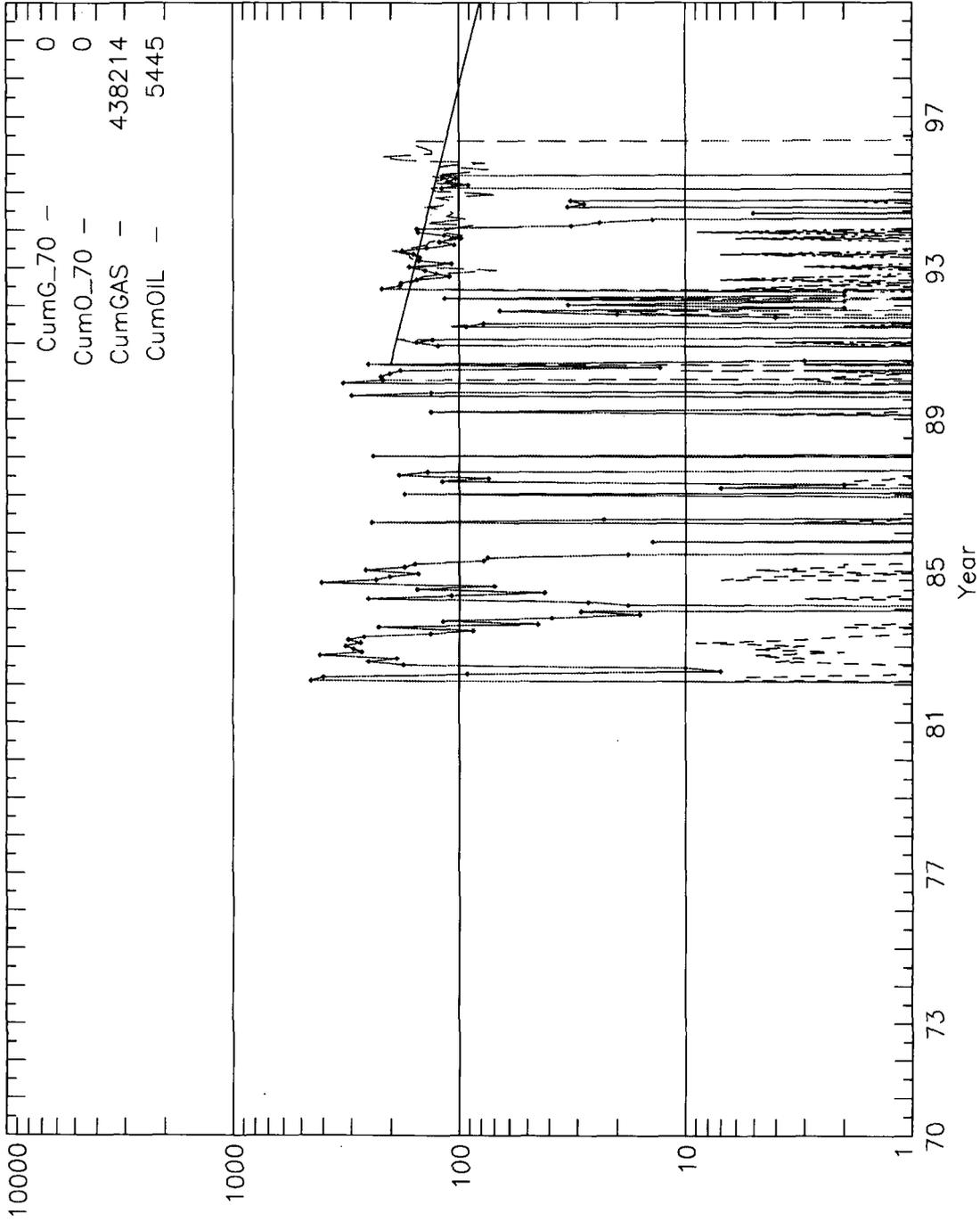
Operator— AMOCO PRODUCTION CO

300392252000MV 0042505—011EMV

APC_WI — 1.0000000

CumG_70	—	0
CumO_70	—	0
CumGAS	—	438214
CumOIL	—	5445

gas, MCFD



DCLN	0.0951
CurrQ	NA
RemRes	445472
EUR	883686
Fit_date	NA
Reserves	0.0951

Last Op. Forecast by zhab0b in 04/1996

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #: JIC CONTRACT 146 11E

Location of Well: ~~0042505~~ Meter #: 85523 RTU: 1-109-01 County: RIO ARRIB

	NAME RESERVOIR OR POOL		TYPE PROD	METHOD PROD	MEDIUM PROD
UPR COMP	BLANCO MESAVERDE	85524	GAS	FLOW	TBG
LWR COMP	BASIN DAKOTA	85523	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour/Date Shut-In	Length of Time Shut-In	SI Press. PSIG	Stabilized
UPR COMP	11/19/90	72 Hours	430	No
LWR COMP	11/19/90	72 Hours	630	No

FLOW TEST DATE NO.1

Commenced at (hour, date)*				Zone Producing (Upr/Lwr)	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		Prod Temp.	REMARKS
		Upper	Lower		
11/19/90	Day 1	270	359		Both Zones SI
11/20/90	Day 2	435	535		Both Zones SI
11/21/90	Day 3	468	643		Both Zones SI
11/22/90	Day 4	430	630		<i>flowed lower zone</i>
11/23/90	Day 5	432	331		
11/24/90	Day 6	434	377		

Production rate during test

Oil: _____ BOPD based on _____ BBLs in _____ Hrs _____ Grav _____ GOR _____

Gas: _____ MFCPD: Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

RECEIVED

DEC 3 1990

UPR COMP	Hour, Date SI	Length of Time SI	SI Press. PSIG	Stabilized (yes/no)

OIL CON. DIV
DIST. 3

ESTIMATED BOTTOMHOLE PRESSURES BY FORMATION
Jicarilla Contract 146 Well #11E

MV midperf at 5270'
DK midperf at 7276'

Shut in pressures --- MV = 430 PSIG
DK = 630 PSIG

GRADIENT = 0.08 PSI/FT

MV BHP = 430 PSIG + 5270' X 0.08 PSIG
= 851 PSIG

DK BHP = 630 PSIG + 7276' X 0.08 PSIG
= 1212 PSIG

OFFSET OPERATORS
Jicarilla Contract 146 Well #11E

Conoco, Inc.
10 Desta Drive West
Midland, Texas 79705