

DHC 1368 9/16/96

Southern
Rockies
Business
Unit

August 23, 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 102 Well #10E
Unit K Section 4-T26N-R4W
Basin Dakota and B.S. 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 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

DISTRICT I
P.O. Box 1980, Hobbs NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

EXISTING WELLBORE
☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Amoco Production Company

P.O. Box 800 Denver, CO 80201

Operator
Jicarilla Apache 102

10E

Address
Unit K Section 4-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. 3003922455 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	B.S. MESA GALLUP 72920 GAS		BASIN DAKOTA 71599
2. Top and Bottom of Pay Section (Perforations)	7308' - 7676'		8022' - 8320'
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) 807 PSI b. (Original) 1819 PSI	a. b.	a. 1105 PSI b. 3100 PSI
6. Oil Gravity (" API) or Gas BTU Content	1190 BTU / 68 DEG API		1266 BTU / 58 DEG API
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or 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 • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	YES Date: Rates: 8/96 15 MCFD 2.38 BCPD 0.01 BWPD	 Date: Rates: Date: Rates:	NO Date: Rates: 8/96 350 MCFD 3.22 BCPD 0.01 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 43 % Gas 4 %	Oil: % Gas %	Oil: 58 % Gas 96 %

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?

Have all offset operators been given written notice of the proposed downhole commingling?

☒ Yes ☐ No

☐ Yes ☐ No

☒ 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. 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 
TYPE OR PRINT NAME PAMELA W. STALEY

TITLE REGULATORY AFFAIRS REP DATE 8/22/96

TELEPHONE NO. (303) 830-5344

CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA APACHE 102		Well No. 10-E
Unit Letter K	Section 4	Township 26N	Range 4W	County Rio Arriba	
Actual Footage Location of Well:					
1700 feet from the South line and		1530 feet from the West line			
Ground Level Elev. 7196	Producing Formation Dakota/Gallup	Pool Basin Dakota/B.S.Mesa Gallup		Dedicated Acreage: 322.88 Acres	

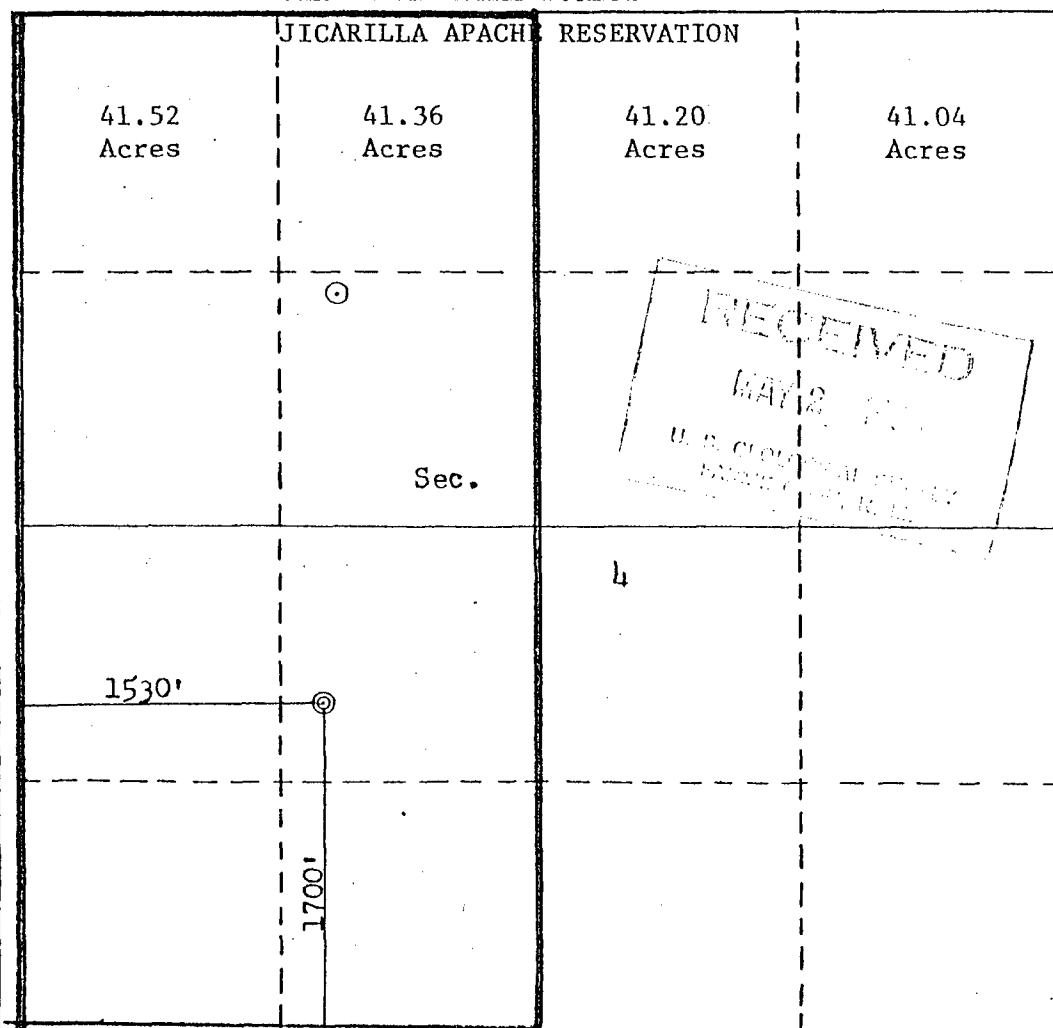
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

CARSON NATIONAL FOREST



CERTIFICATION

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

B.E. Fackrell

Name

B.E. FACKRELL

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

APRIL 29, 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

April 25, 1980

Registered Professional Engineer and/or Land Surveyor

Arad B. Kerr Jr.

Certificate No.

3990 B. KERR, JR.

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

For: zhab0b

Engr: zhab0b

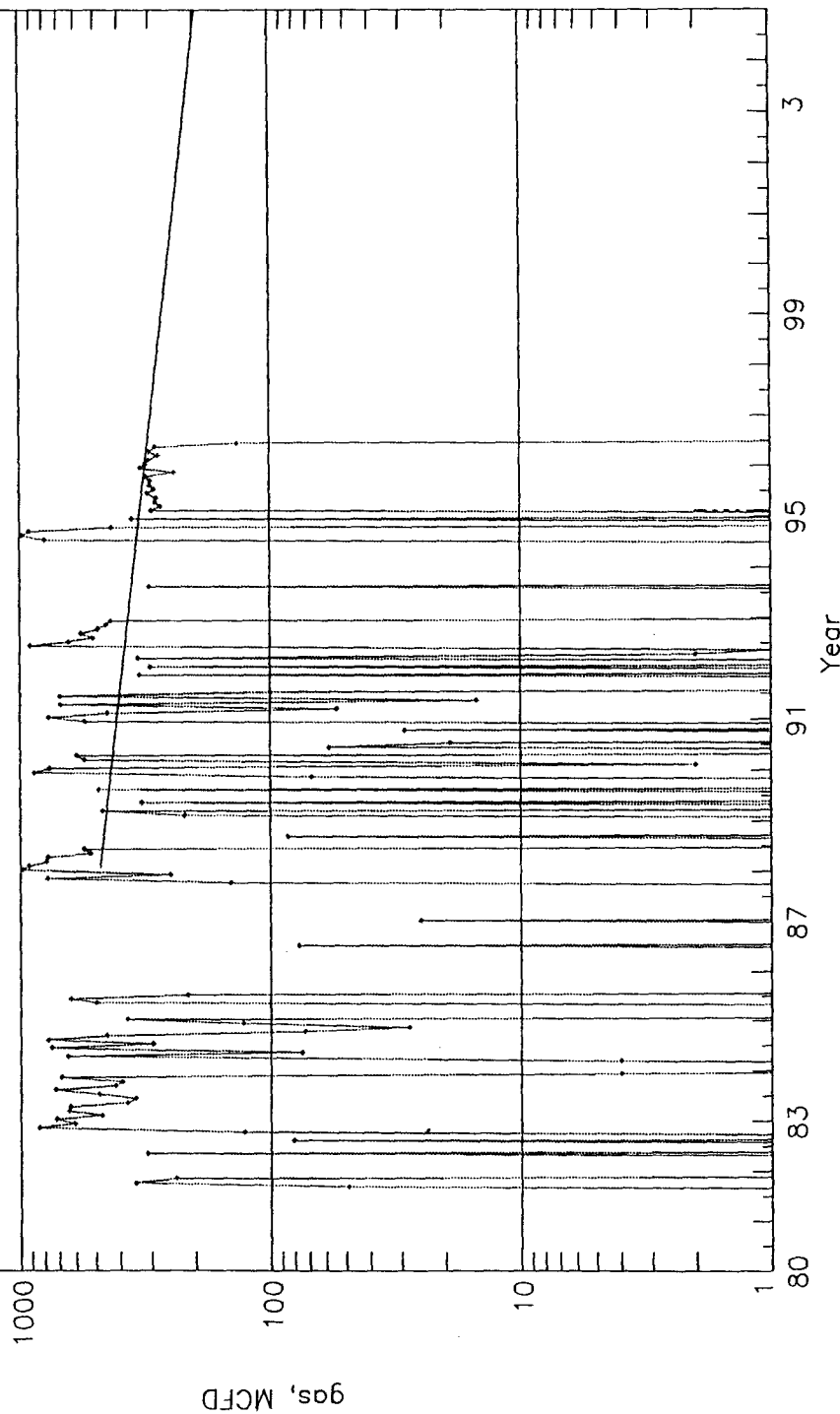
Operator-- AMOCO PRODUCTION COMPANY

JICARILLA APACHE 10-E

300392245500 602DKOT

APC_WI - 1.00000000

CumG_70	-	0
CumO_70	-	0
CumGAS	-	1241506
CumOIL	-	0



Last Op. Forecast by zhab0b in 06/1996

For: zhab0b
Engr: zhab0b

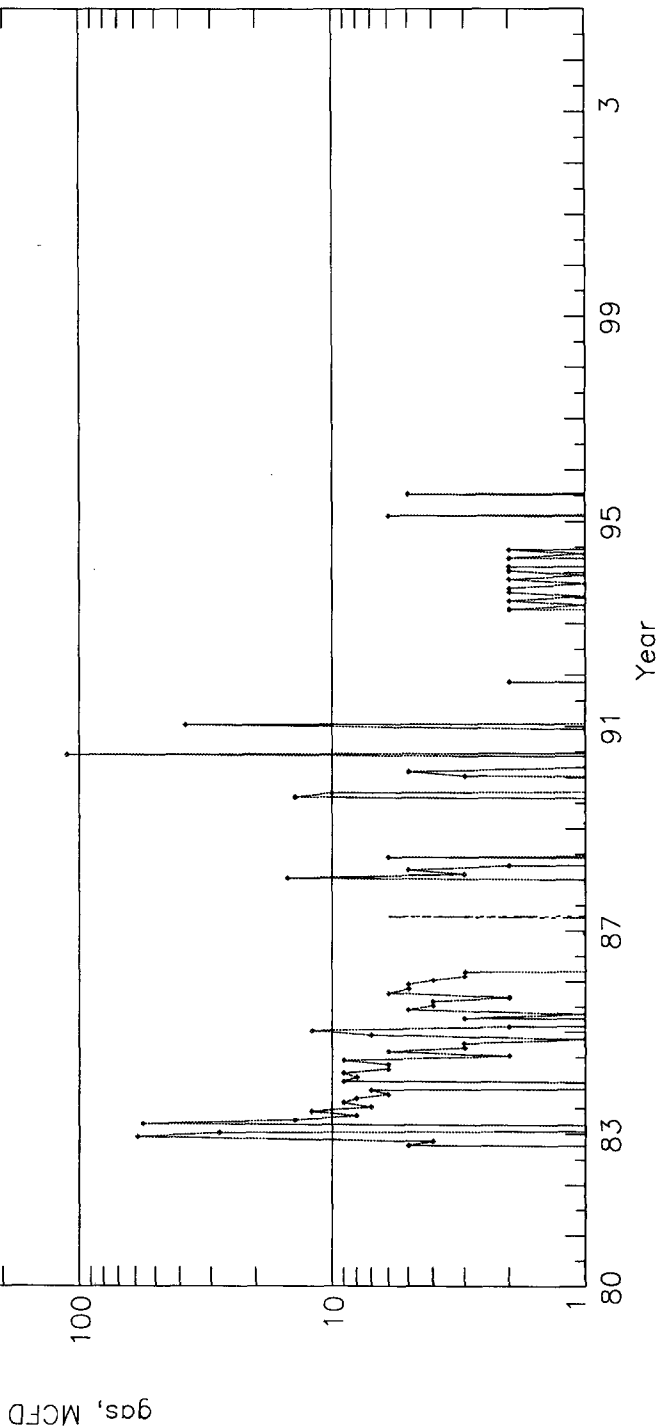
JICARILLA APACHE 10-E

300392245500 603GLLP

Operator- AMOCO PRODUCTION COMPANY

APC_WI - 1.00000000

CumG_70	-	0
CumO_70	-	0
CumGAS	-	19256
CumOIL	-	0



Last Op. Forecast by None in None

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Page 1
Revised 10/01/78

This form is not to
be used for reporting
packer leakage tests
in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator AMOCO PRODUCTION COMPANY Lease JICARILLA APACHE 102 Well No. 10E
Location of Well: Unit K Sec. 4 Twp. 26 Rgc. 4 County RIO ARRIBA

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	GALLUP	GAS	FLOW	CSG
Lower Completion	DAKOTA	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	8-14-88	5 days	582	yes
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	8-14-88	3 days	860	yes

FLOW TEST NO. 1

Commenced at (hour, date) * 8-17-88				Zone producing (Upper or Lower): Lower	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
8-14-88	Day 1	575	800		Both zones SI
8-15-88	Day 2	578	800		Both zones SI
8-16-88	Day 3	580	800		Both zones SI
8-17-88	Day 4	582	860		Both zones SI
8-18-88	Day 5	583	370		Lower zone Flow
8-19-88	Day 6	583	410		Lower zone Flow

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

(Continue on reverse side)

OFFSET OPERATORS
Jicarilla Contract 102 Well #10E

Burlington Resources Oil and Gas Co.
P.O. Box 4289
Farmington, NM 87499

Snyder Oil Corp.
1625 Broadway
Denver, Co. 80202