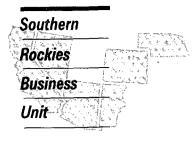
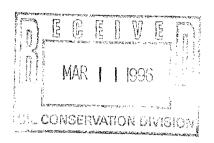
DHC 4.1.96



March 7, 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
Fields A #4A Well
840' FSL & 1580' FEL, Unit O Section 28-T32N-R11W
Undesignated Fruitland Sand and Blanco Mesaverde (Pool IDN 72319) Pools
San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval to downhole commingle production from the Undesignated Fruitland Sand and Blanco Mesaverde Pools in the Fields A #4A well referenced above. The Fields A #4A is currently a dual completion in the Fruitland Sand and Mesaverde formations. We plan to complete the well with both the Fruitland Sand and Mesaverde formations being downhole commingled in the wellbore. This well will benefit from downhole commingling because of the reduced costs of operation offered by commingling. The two zones are expected to produce at a total commingled rate of about 446 MCFD with less than 1.15 BCPD. The ownership (WI, RI,ORI) of these pools is common in this wellbore. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. Offset operators to this well will receive a copy of this application by certified mail.

The allocation method that we plan to use for this commingled well is as follows. Both formations have been producing at stabilized rates for some time. We recommend that the Mesaverde and Fruitland Sand formations gas and condensate be allocated based on current rates. The Mesaverde is currently producing at 433 MCFD with 1.15 BCPD while the Fruitland Sand is currently producing 13 MCFD with no condensate. The recommended allocation percentages after downhole commingling would be set as a percentage of the total rate with the Mesaverde attributing 97% of gas production and 100% of condensate production. The Fruitland Sand would be allocated at 3% of gas production and no condensate production. The actual commercial value of the commingled production will not be less than the sum of the values of the production from each of the common sources of supply.

Attached to aid in your review are plats showing the location of the well and offset wells in the same formation, a historical and recent production plot and a C-102 for each formation. This spacing unit

is located on a federal lease (NM-010989) and we will send a copy of the application to the BLM as their notice. Should you have questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,

Pamela W. Staley

Enclosures

cc: Khanh Vu

Gail Jefferson

Frank Chavez, Supervisor

NMOCD District III

1000 Rio Brazos Road

Aztec, NM 87410

Duane Spencer

Bureau of Land Management

1235 La Plata Hwy.

Farmington, NM 87401

Application for Exception to Rule 303: SEGREGATION OF PRODUCTION FROM POOLS

Requirements

(1) Name and address of the operator:

Amoco Production Company P.O. Box 800 Denver, CO 80201

(2) Lease name, well number, well location, name of the pools to be commingled:

Lease Name:

Fields A

Well Number:

#4A

Well Location:

840' FSL & 1580' FEL

Unit O Section 28-T32N-R11W San Juan County, New Mexico

Pools Commingled:

Blanco Mesaverde Pool

Undesignated Fruitland Sand Pool

(3) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

Attached

(4) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.

The Blanco Mesaverde produced an average stabilized rate of 433 MCFD and 1.15 BCPD. The Undesignated Fruitland Sand zone produced at an average rate of about 13 MCFD and no condensate.

(5) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes.

Blanco Mesaverde Completion: Undesignated Fruitland Sand Completion: Historical production curve attached. Historical production curve attached.

(6) Estimated bottomhole pressure for each zone. A current (within 30 days) measured bottom hole pressure for each zone capable of flowing.

Bottomhole pressures were estimated from 72 hour shut-in pressures during a packer leakage test for the well. Estimated bottomhole pressure in the Fruitland Sand formation is 391 PSI while the estimated bottomhole pressure in the Mesaverde is 587 PSI. See attached calculations.

(7) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore.

The two formations do not produce any measurable amount of fluids and therefore are not expected to any effect that would prohibit commingling, or promote the creation of emulsions or scale.

(8) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams:

Since the BTU content of the produced gasses are very similar, we would expect the commingled production to have a similar value as the sum of the individual streams.

(9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

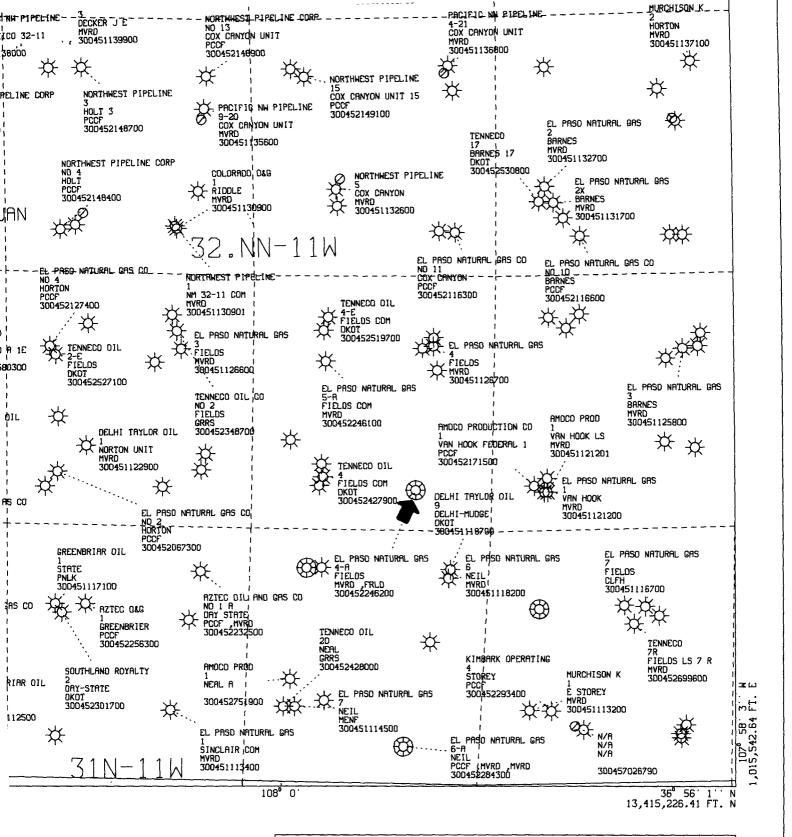
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(10) A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.

BLM will receive a copy of this application by certified mail. The offsetting operators listed on the attached sheet will receive a copy of this application by certified mail.

(11) Referencing NMOCD Order No. 10470 Rule 303 (D) (11): In a case where there is diversity of ownership between the zones to be commingled (including working royalty, or overriding royalty interest), the applicant shall submit a statement that all such interest owners have been notified in writing of the proposed commingling.

Interests are common between the formations.





AMOCO PRODUCTION COMPANY
PLAT MAP
Fields A 4A
Offset Wells

SCALE 1 IN. = 2,000 FT. APR 27, 1995

OIL CONSERVATION DIVISION P. O. DOX 2088

Form C-107 Revised 10-1-78

CHERRY AND MINURALS GEPARTMENT SANTA FE, NEW MEXICO 87501 💛

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Form C-102 Supersedes C-128 Effective 1-1-65

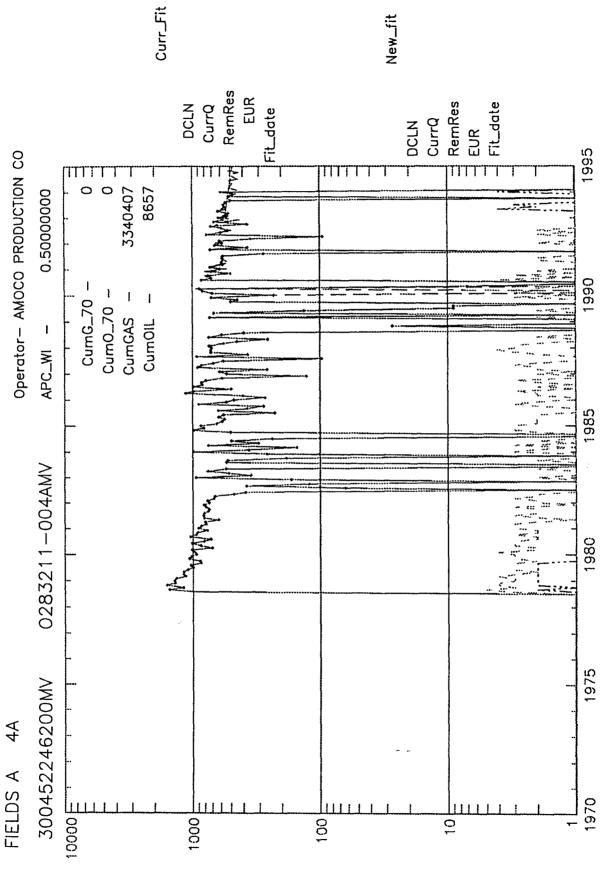
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Cperator EL PASO	NATURAL GAS CO	OMPANY	Lease FIELDS	(NM-010989)	Well No. 4A		
Unit Letter	Section 28	Township 32-N	Ronge	County SAN	JUAN		
Actual Footage Loc 840		SOUTH line and	1580	feet from the EAST	line		
Ground Level Elev. 6185	Producing For		Pool UNDESIGN BLANCO	ATED FRUITLAND MESA VERDE	Dedicated Acreage: 160.00 & 320.00 _{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?							
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NEW MEXICO OIL CONSERVATION COMMISSION LL JCATION AND ACREAGE DEDICATION AND ACREAGE DEDICA

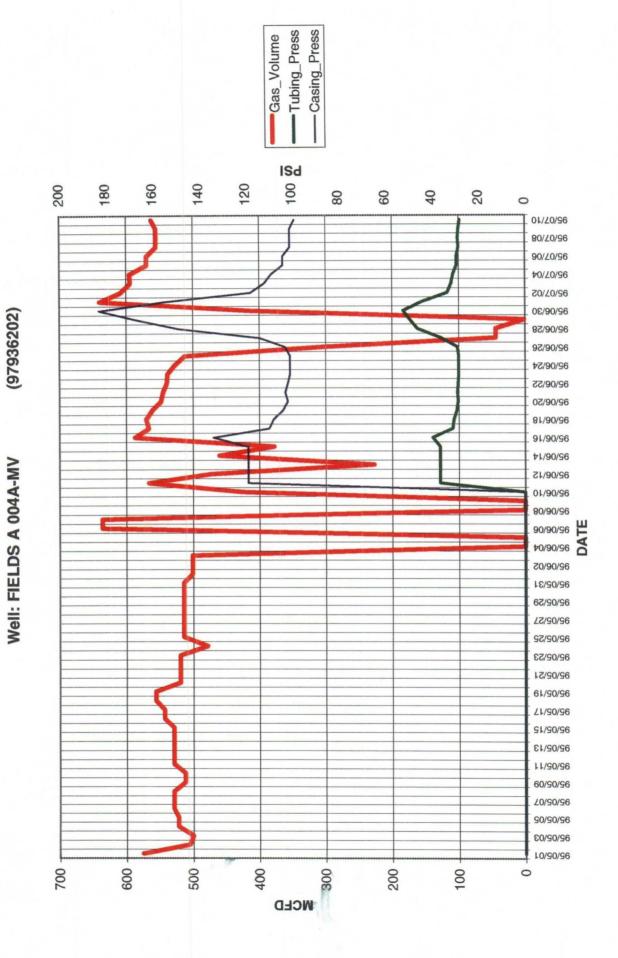
Effective 14-65 All distances must be from the outer boundaries of the Section. Well No. Cperater 4A FIELDS (NM-010989)EL PASO NATURAL GAS COMPANY Range Section County 28 32-N 11-W SAN JUAN Actual Footage Location of Well: 1580 EAST SOUTH leet from the line and teet from the Ground Level Elev. **Producing Formation** Pool Dedicated Acresses 320.0 6185 MESA VERDE BLANCO MESA VERDE 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? If answer is "yes," type of consolidation _ Yes 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Original Signed by D. G. Bring April NM-010989 Date SECTION 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. MARCH 22, 1977 Registered Professional Engineer and/as Land Surveyor

Certificato No.

1760



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ESTIMATED BOTTOMHOLE PRESSURES BY FORMATION Fields A #4A

FT Perforations at 2448-2663' midperf at 2556' MV Perforations at 4431-5570' midperf at 5001'

6/94 shut in pressures --- MV =187 PSIG FT =315 PSIG

GRADIENT = 0.08 PSI/FT MV 0.03 PSI/FT FT

MV BHP = 187 PSIG + 5001' X 0.08 PSIG = 587 PSIG

FT BHP = 315 PSIG +2556' X 0.03 PSIG =391 PSIG resentionel.

STATE OF NEW MEXICO ERGY and MINERALS DEPARTMENT

0-27-32-11

Location of Well: 0283211 Page 1

OIL CONSERVATION DIVISION NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

MOCO PROPUCTION COMPANY TORSO/Well #:FTFLDS A 004A

	NAME RESERVO	IR OR POO	L	TYPE PROD	METHOD PRO	D W	EDIUM PROD	
PR OMP	FIELDS A 004A BFT 90082			GAS	FLOW		TBG	
WR OMP	FIELDS A 004A BMV 90081			GAS	FLOW		TBG	
		PRE-F	LOW SHUT-IN	PRESSURE DA	TA			
<u>· </u>	Hour/Date Sh	ut-In L	ength of Time	e Shut-In	SI Press.	PSIG	Stabilzed	
PR OMP	10/01/93		ستون		3/5			
WR OMP	10/01/93		72		187		neal	
	.		FLOW TEST	DATE NO.1			1	
omme	enced at (hour,	date) *			Zone Pr	oduci	ng (Upx/Lw	
	TIME I	APSED TIM	F PR	ESSURE	Prod			

TIME	LAPSED TIME	PRES	SURE	Prod	
(hour, date)	SINCE*	Upper	Lower	Temp.	REMARKS
10/01/93	Day 1	293/193	37		Both Zones SI
10/02/93	Day 2	303/303	105		Both Zones SI
10/03/93	Day 3	311/311	/63		Both Zones SI
10/04/93	Day 4	3/5/3/5	187		LOWER ZONE ON 7:30 HM
10/05/93	Day 5	319/319	109		france low 1: 19
10/06/93	Day 6	3/7/3/7	107		2.0

Production rate during test Oil: BOPD based on BBLs in Hrs Grav GOR MFCPD: Tested theu (Orifice or Meter): METER Gas: MID-TEST SHUT-IN PRESSURE DATA

UPR C' 3	Hour, Date SI	Length of Time SI	SI Press. PSIG	Stabilized (yes/no)
LWR				

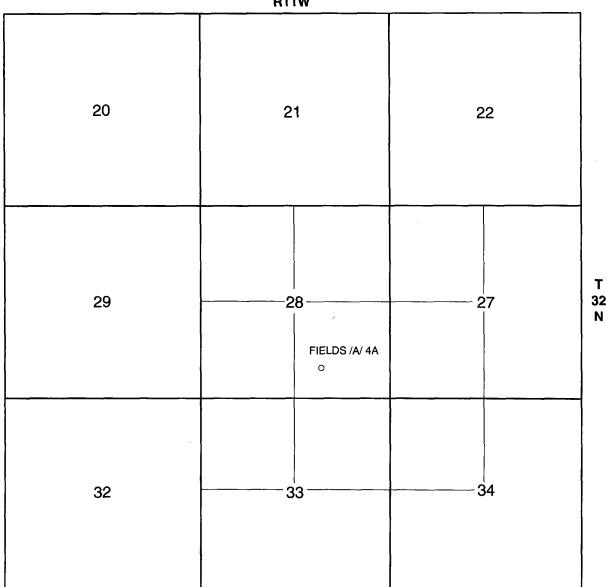
(Continue on reverse side)

Amoco Production Company

Offset Operator Plat Fields /A/ 4A T32N-R11W Sec. 28

Undes Fruitland Sand Formation

R11W



R11W

Amoco Production Company

Offset Operator Plat Fields /A/ 4A T32N-R11W Sec. 28

Blanco Mesaverde Formation

R11W 21-22-20 2 1 T 32 29 1 28 (2) 27 FIELDS /A/ 4A 0 3 4 34 32 33

R11W

- 1 Amoco Production Company
- 2 Basin Minerals Inc.
- 3 Conoco Inc.
- 4 Meridian Oil Production Inc.

<u>LIST OF ADDRESSES FOR OFFSET OPERATORS</u> Fields A #4A

- 1 Meridian Oil, Inc.P.O. Box 4289Farmington, NM 87499
- 2 Conoco, Inc.10 Desta Drive WestMidland, Texas 79705
- 3 Basin Minerals, Inc. C/O Walsh Eng. and Prod. Corp 204 N. Auburn Farmington, NM 87401