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OG5SECT

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INQUIRE LAND BY SECTION

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OGOMES -TPRD
PAGE NO: 1

Sec : 03 Twp : 26N Rng : 04W Section Type : NORMAL

4 40.91 Indian owned A A A	3 40.77 Indian owned	2 40.64 Indian owned	1 40.50 Indian owned A
E 40.00 Indian owned	F 40.00 Indian owned	G 40.00 Indian owned A	H 40.00 Indian owned A
<i>Basic Value</i>			
40.00 Indian owned	K 40.00 Indian owned A A	J 40.00 Indian owned	I 40.00 Indian owned A
M 40.00 Indian owned	N 40.00 Indian owned	O 40.00 Indian owned <i>AKL</i>	P 40.00 Indian owned <i>0 SL</i> A A

40.64
40.50
81.14
161.14
321.14

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 19, 1970



**Pan American Petroleum Corporation
Security Life Building
Denver, Colorado 80202**

Attention: Mr. T. M. Curtis

Administrative Order NSL-457

Gentlemen:

Reference is made to your application for approval of an unorthodox well location for your Jicarilla Apache 102 Well No. 7, located 1850 feet from the North line and 2390 feet from the East line of Section 3, Township 26 North, Range 4 West, NMPM, undesignated Gallup Pool, Rio Arriba County, New Mexico.

By authority granted me under the provisions of Rule 104 F of the Commission Rules and Regulations, the above-described unorthodox well location is hereby approved.

Very truly yours,

**A. L. PORTER, Jr.
Secretary-Director**

ALP/GMH/esr

**cc: Oil Conservation Commission - Aztec
United States Geological Survey - Farmington
Oil & Gas Engineering Committee - Hobbs**

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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

ADMINISTRATIVE ORDER DHC-2947

Amoco Production Company
P.O. Box 3092
Houston, Texas 77253-3092

Attention: Ms. Cherry Hlava

*Jicarilla Apache "102" No. 7
API No. 30-039-06709
Unit G, Section 3, Township 26 North, Range 4 West, NMPM,
Rio Arriba County, New Mexico.
BS Mesa-Gallup (Gas - 72920),
Blanco-Mesaverde (Prorated Gas - 72319) and
Basin-Dakota (Prorated Gas - 71599) Pools*

Dear Ms. Hlava:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Production from the well shall be allocated as follows:

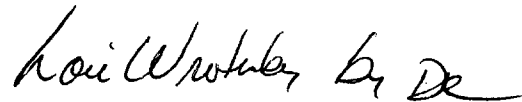
Oil and gas production from the BS Mesa-Gallup and Basin-Dakota Gas Pools shall be determined by utilizing the production forecast for each zone that was submitted as an attachment to the downhole commingling application. Oil and gas production from the Blanco-Mesaverde Gas Pool shall be determined by subtracting BS Mesa-Gallup and Basin-Dakota Gas Pool production from the well's total monthly oil and gas production.

Administrative Order DHC-2947
Amoco Production Company
August 22, 2001
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Pursuant to Rule 303.C.(2), the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 22nd day of August, 2001.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



LORI WROTENBERY
Director

SEAL

LW/DRC

cc: Oil Conservation Division - Aztec
Bureau of Land Management-Farmington

Entered November 10, 1970

A.L.P.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 4443
Order No. R-4059

APPLICATION OF PAN AMERICAN PETROLEUM
CORPORATION FOR DOWN-HOLE COMMINGLING,
RIO ARriba COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 28, 1970,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 10th day of November, 1970, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Pan American Petroleum Corporation,
is the owner and operator of the Jicarilla Apache 102 Lease com-
prising Sections 3, 4, 9, and 10, Township 26 North, Range 4 West,
NMPM, Rio Arriba County, New Mexico.

(3) That the applicant seeks authority to commingle produc-
tion from the BS Mesa-Gallup and Basin-Dakota Gas Pools in the
well-bores of four wells located on said lease as follows:

Jicarilla Apache Well No. 7 - Unit G - Section 3
Jicarilla Apache Well No. 9 - Unit G - Section 4
Jicarilla Apache Well No. 12 - Unit G - Section 9
Jicarilla Apache Well No. 11 - Unit C - Section 10

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Order No. R-4059

(4) That the applicant further seeks a procedure whereby other wells on said Jicarilla Apache 102 Lease may be approved administratively for down-hole commingling.

(5) That the applicant proposes, as to each of said wells, to produce the commingled production through a single string of tubing set in a packer just above the Dakota perforations.

(6) That each of the above-described four wells is capable of producing only a very small amount of gas from either or both of the subject pools.

(7) That it is uneconomical to produce each of the above-described four wells as dual completions.

(8) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling.

(9) That the proposed commingling may result in the recovery of additional gas from each of the subject pools as to each of said four wells, thereby preventing waste, and will not violate correlative rights.

(10) That production tests should be conducted prior to commingling, to determine the production from each zone in each well.

(11) That a procedure should be adopted whereby other wells on said Jicarilla Apache 102 Lease having the same characteristics as the above-described four wells may be approved administratively for down-hole commingling.

(12) That Administrative Orders Nos. MC-1798 and MC-1858 should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, Pan American Petroleum Corporation, is hereby authorized to complete each of the following-described four wells located in Township 26 North, Range 4 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to produce gas from the BS Mesa-Gallup and Basin-Dakota Gas Pools through a

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single string of tubing, commingling in the well-bore the production from each of said zones until further order of the Commission:

Jicarilla Apache Well No. 7 - Unit G - Section 3
Jicarilla Apache Well No. 9 - Unit G - Section 4
Jicarilla Apache Well No. 12 - Unit G - Section 9
Jicarilla Apache Well No. 11 - Unit C - Section 10

(2) That the production of each zone in each of the above-described wells shall be established and future production allocated to the Gallup and Dakota zones in each of the subject wells in accordance with the following procedure:

1. Prior to commingling, the daily rate of flow from the Dakota formation shall be established by employing the last 24 hours of a seven-day flow period of said zone. (Test #1.)
2. Subsequent to commingling, the daily rate of flow from the commingled Dakota and Gallup zones shall be established by employing the final 24 hours of a seven-day flow test of the commingled zones. (Test #2.)
3. Determine the BS Mesa-Gallup allocation of production factor as follows:
$$(\text{Gallup}_f) = \frac{\text{Test \#2} - \text{Test \#1}}{\text{Test \#2}}$$
4. Determine the monthly allocation of production as follows:
 - a. BS Mesa-Gallup gas production = $\text{Gallup}_f \times \text{commingled gas production}$.
 - b. Basin-Dakota gas production = commingled gas production less calculated BS Mesa-Gallup gas production.

(3) That the Secretary-Director of the Commission may approve the down-hole commingling of BS Mesa-Gallup and Basin-Dakota gas production in other wells located on the Jicarilla 102 Lease comprising Sections 3, 4, 9, and 10 of said Township and Range,

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Order No. R-4059

provided such commingling is reasonably necessary to prevent waste and will not violate correlative rights.

(4) To obtain approval for down-hole commingling, the operator of the well shall submit the following in duplicate to the Secretary-Director of the Commission plus one copy to the appropriate District Office of the Commission:

- (a) Name and address of the operator.
- (b) Lease name, well number, well location.
- (c) Names of the pools the well is completed in and the Commission order number which authorized the dual completion.
- (d) A current (within 30 days) 24-hour productivity test on Commission Form C-116 showing the amount of oil, gas, and water produced from each zone.
- (e) 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. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted.)
- (f) Estimated bottom-hole pressure for each artificially lifted zone. A current (within 30 days) measured bottom-hole pressure for each zone capable of flowing.
- (g) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.
- (h) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

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- (i) A statement that all offset operators and, in the case of a well on Federal land, the United States Geological Survey, have been notified in writing of the proposed commingling.

(5) The Secretary-Director of the Commission may approve the proposed down-hole commingling in the absence of a valid objection within 20 days after the receipt of the application if, in his opinion, there is no disqualifying disparity of bottom-hole pressures or other reservoir characteristics, waste will not result thereby, and correlative rights will not be violated. The 20-day waiting period may be dispensed with upon receipt of waivers of objection from all parties mentioned in Order (4), paragraph (i).

(6) Upon such approval, the well shall be operated in accordance with the provisions of the administrative order which authorized the commingling, and allocation of the commingled production from the well to each of the producing zones shall be in accordance with the allocation formula set forth in the order.

(7) The Secretary-Director may rescind authority to commingle production in the well-bore and require both zones to be produced separately, if, in his opinion, waste or reservoir damage is resulting thereby.

(8) That the operator shall file with the Santa Fe Office of the Commission semi-annually a report showing the monthly Gallup production, the monthly Dakota production, and the monthly commingled production for each well during the preceding six months. Said report to be filed as stated until further order of the Commission.

(9) That the provisions of Order No. R-333-F shall continue to apply to the subject wells.

(10) That Administrative Orders Nos. MC-1798 and MC-1858 are hereby superseded.

(11) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.


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DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALEX J. ARMILLO, Member


A. L. PORTER, Jr., Member & Secretary

S E A L

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