



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

COMMINGLING ORDER PC-795

Unocal Oil & Gas Division
3300 North Butler Avenue
Suite 300
Farmington, New Mexico 87401

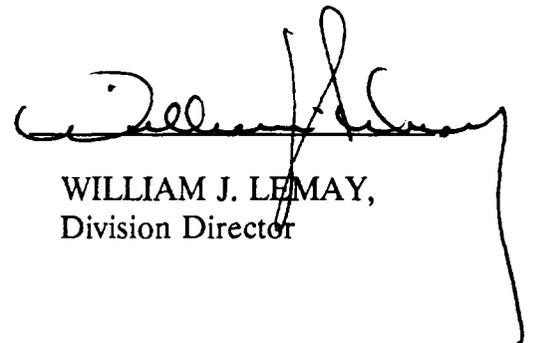
Attention: Glen O. Papp

LEASE NAME: Rincon Unit (Well No. 159-M)
DESCRIPTION: N/2 Section 18, Township 27 North, Range 6 West, NMPM,
Rio Arriba County, New Mexico

The above-named company is hereby authorized to commingle Basin-Dakota and Blanco-Mesaverde Pool production in a common gas sales line and to determine the gas production from each pool by separately metering individual gas production by allocation meters and multiplying said volumes by an allocation factor. The allocation factor shall be determined by dividing the central sales meter volume by the sum of the individual allocation meter volumes.

NOTE: This installation shall be installed and operated in accordance with the applicable provisions of Rule 303 of the Division Rules and Regulations and the Division "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

DONE at Santa Fe, New Mexico, on this 28th day of July 1992.



WILLIAM J. LEMAY,
Division Director

cc: Oil Conservation Division - Aztec

Unocal North American Oil & Gas Division

Unocal Corporation
3300 North Butler Avenue, Suite 200
Farmington, New Mexico 87401
Telephone (505) 326-7600
Fax (505) 326-6145

UNOCAL OIL & GAS DIVISION
RECEIVED

'92 JUN 17 AM 9 16



June 16, 1992

Russell C. Hanscom
Project Manager
Farmington District

New Mexico Oil Conservation Division
310 Old Santa Fe Trail, Box 2088
Santa Fe, NM 87504-2088
Attn: David Catanach

SUBJECT:
Requesting Approval for
Exception to Rule 303-A
Rincon Unit, Well No. 159-M
Sec. 18, T-27-N, R-6-W
Rio Arriba County, New Mexico

Union Oil Company of California, dba Unocal, requests permission to surface commingle gas from its Rincon Unit, Well No. 159-M, Rio Arriba County, New Mexico. The following describes and demonstrates how Unocal proposes to allocate gas production under the context of BLM Onshore Oil and Gas Order No. 5, Measurement of Gas for commingling, and under the New Mexico Oil Conservation Commission Manual for the Installation and Operation of Commingling Facilities.

The Rincon Unit, No. 159-M well is a development gas well scheduled to be drilled by Unocal. The well is to be completed as a dual Dakota/Mesa Verde producer; and it is anticipated that it will be ready for pipeline deliveries August 10, 1992. The local gas gathering company, El Paso Natural Gas (EPNG), has requested that Unocal deliver this gas to a pre-determined tie-in point on their gathering system. EPNG wishes only to set one sales meter, at this tie-in point, in order to minimize chart handling.

Unocal is proposing to set two allocation meters at the well site and measure gas from each stream separately. Downstream of the allocation meters the gas will be surface commingled in the flow line and measured again at the EPNG sales meter downstream (Exhibit No. 1). Royalties will be paid based on the gas volume measured at EPNG's sales meter.

The proposed location is within existing Dakota and Mesa Verde participating areas in the Rincon Unit (Exhibit No. 2). The lease is a federal lease and it is described in

Exhibit No. 3. The royalty in the two formations is the same.

Unocal is requesting from the New Mexico Oil Conservation Division, approval for surface commingling of the produced gas and approval for the following method of allocating production from the central meter to the individual meters. Unocal will calculate a monthly allocation factor, as shown in Exhibit No. 4, part 1. The allocation factor will then be used as illustrated in Exhibit No. 4, part 2, to determine individual meter volumes. To ensure the accuracy of the individual meters, Unocal will continue to calibrate, perform orifice plate inspections, and settlement tests as described in BLM Onshore Oil and Gas order No. 5, Measurement of Gas.

Should you have any questions or need any additional information to process this request, please feel free to contact me at the above letterhead address or phone.

Very truly yours,

Union Oil Company of California
dba Unocal



Glen O. Papp
District Production Engineer

pmh
cc:NMOCD Aztec Office--Frank Chavez
BLM--Ken Townsend
Return Receipt Requested

EXHIBIT No. 1 UNOCAL

GAS ACCOUNTING SCHEMATIC

RINCON UNIT # 159-M

RIO ARRIBA COUNTY, NEW MEXICO

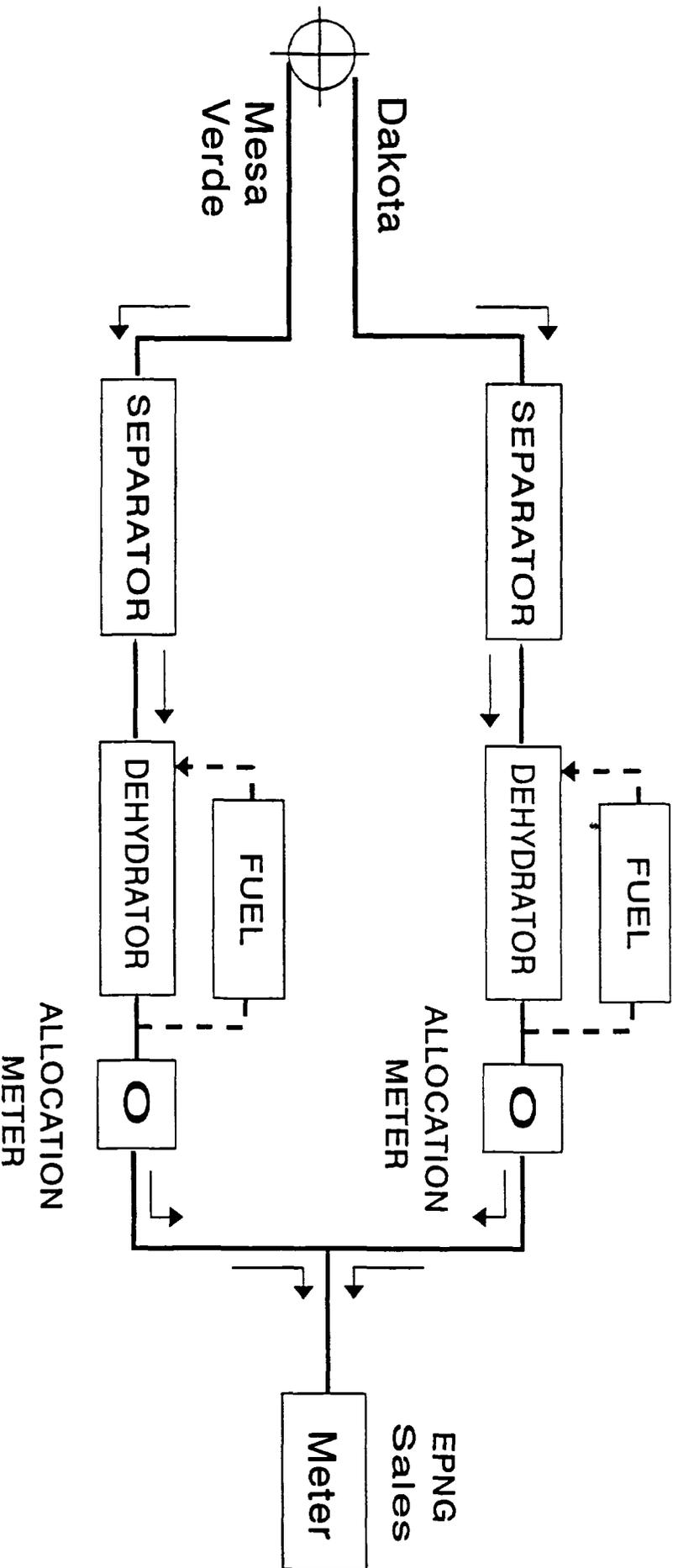
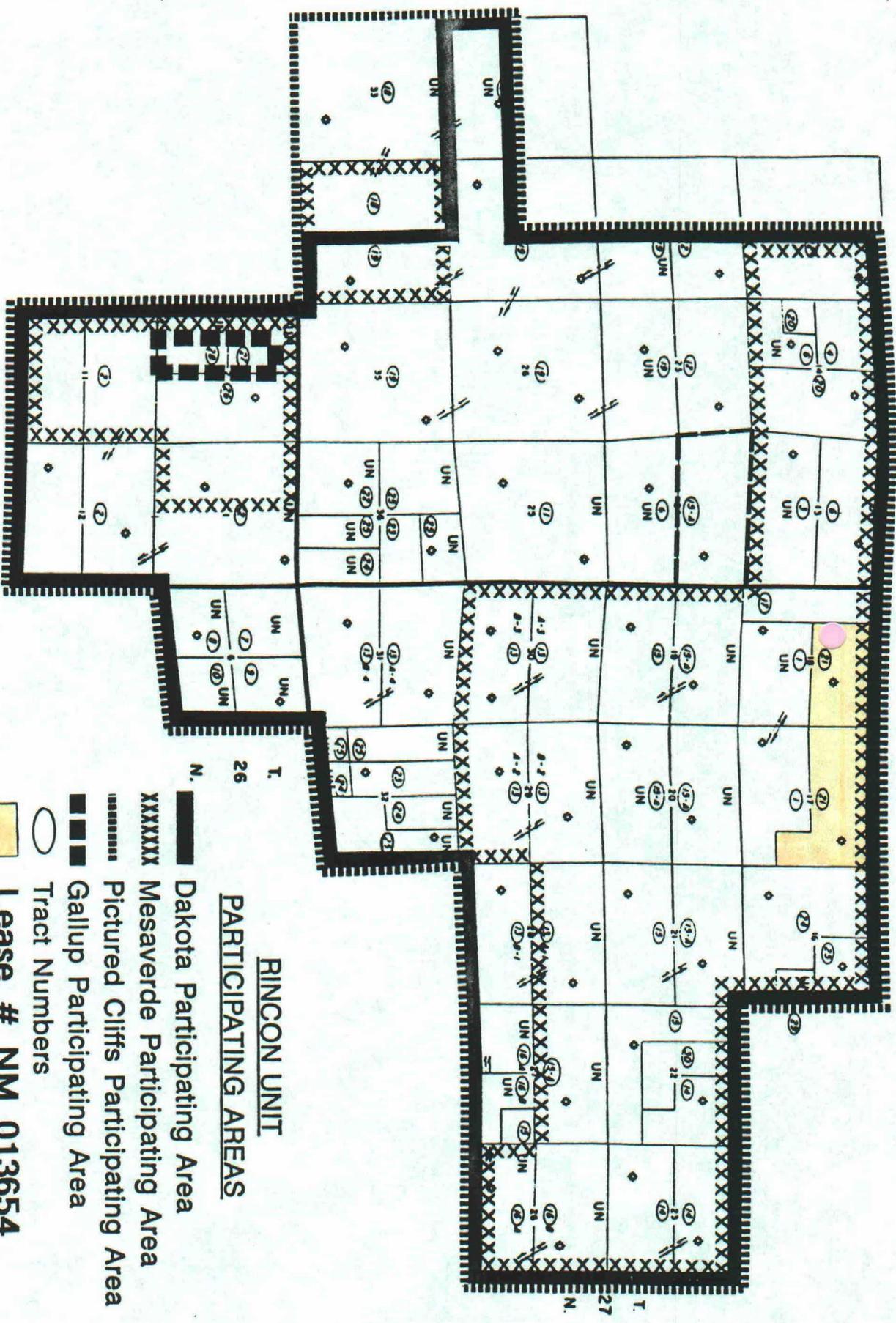


EXHIBIT No. 2

R. 7 W. R. 6 W.



RINCON UNIT

PARTICIPATING AREAS

- Dakota Participating Area
- XXXXXXX Mesaverde Participating Area
- ▨ Pictured Cliffs Participating Area
- Gallup Participating Area
- Tract Numbers
- Lease # NM 013654
- Proposed Well--159-M

Rio Arriba County, New Mexico

EXHIBIT NO. 3

LEASE DESCRIPTION

FEDERAL LEASE #	# ACRES	DESCRIPTION
NM - 013654	600	T-27-N, R-6-W Sec. 18 N/2 Sec. 17 N/2, NE/4SE/4

OTHER WELLS ON LEASE # NM - 013654

WELL #	PRODUCING ZONE	LOCATION T-27-N, R-6-W
159	DAKOTA	1700' FNL, 1720' FEL - Sec. 18
161	DAKOTA	1450' FNL, 1000' FEL - Sec. 17
252	FRUITLAND	1640' FNL, 1605' FEL - Sec. 18
258	FRUITLAND	1505' FNL, 915' FEL - Sec. 17
80	MESA VERDE	1090' FNL, 1636' FEL - Sec. 18
79A	MESA VERDE	1110' FNL, 730' FWL - Sec. 17
190	PICTURED CLIFF	850' FNL, 1550' FEL - Sec. 17
105	PICTURED CLIFF	1650' FSL, 990' FEL - Sec. 17
159 - M	MESA VERDE/DAKOTA	1695' FNL, 1735' FWL - Sec. 18

EXHIBIT #4 GAS ALLOCATION CALCULATIONS

1) Allocation Factor (AF):

$$AF = \frac{\text{Integrated Central Meter Volume (MCF/MO)}}{\sum_{1}^{2} \text{Integrated Individual Meter Volumes (MCF/MO)}}$$

2) Allocation to Individual Zones:

Zone	Integrated Individual Meter Volume	Monthly AF	Allotted Volume (MCF/MO)
Mesa Verde	Vol ₁	AF	Vol ₁ x AF
Dakota	Vol ₂	AF	Vol ₂ x AF