

PHILLIPS PETROLEUM COMPANY

San Juan 31-6 Unit

**Application for Downhole Commingling
Reference Case**

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*NEW MEXICO BOARD OF LEGAL SPECIALIZATION
RECOGNIZED SPECIALIST IN THE AREA OF
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

February 25, 1999

TO: NOTICE OF THE HEARING OF THE FOLLOWING
NEW MEXICO OIL CONSERVATION DIVISION CASE:

**Re: *Application of Phillips Petroleum Company for a downhole
commingling reference case for its San Juan 31-6 Unit,
Pursuant to Division Rule 303.E,
Rio Arriba County, New Mexico***

On behalf of Phillips Petroleum Company, please find enclosed our application which has been set for hearing on the New Mexico Oil Conservation Division Examiner's docket now scheduled for March 18, 1999. The hearing will be held at the Division hearing room located at 2040 S. Pacheco, Santa Fe, New Mexico.

As an interest owner who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

Pursuant to the Division's Memorandum 2-90, you are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division not later than 4:00 PM on Friday, February 26, 1999, with a copy delivered to the undersigned. Please direct any questions to Mr. Scott Prather (505) 599-3410.

Very truly yours,

A handwritten signature in black ink, appearing to read 'W. Thomas Kellahin', written over a horizontal line.

W. Thomas Kellahin

cc: Phillips Petroleum Company
Attn: Scott Prather

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:**

**APPLICATION OF PHILLIPS PETROLEUM
COMPANY FOR DOWNHOLE COMMINGLING
REFERENCE CASE FOR ITS
SAN JUAN 31-6 UNIT
PURSUANT TO DIVISION RULE 303.E
RIO ARriba COUNTY, NEW MEXICO.**

CASE NO. _____

APPLICATION

Comes now PHILLIPS PETROLEUM COMPANY, by and through its attorneys, Kellahin and Kellahin, and applies to the New Mexico Oil Conservation Division for the establishment of a downhole commingling reference case pursuant to Division Rule 303.E for its San Juan 31-6 Unit and the adoption of special administrative rules therefore, San Juan County, New Mexico. Applicant, in the above-styled cause, in accordance with Division Rule 303.E seeks to establish a downhole commingling reference case to provide for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas, and (d) modification of notification rules on an area-wide basis authorization for downhole commingling of Dakota, Mesaverde, Fruitland-Coal and Pictured Cliffs gas production in the wellbores of existing or future wells drilled anywhere within the San Juan 31-6 Unit located in Townships 30 and 31 North, Range 6 and 7 West, NMPM, Rio Arriba County, New Mexico.

In support of its application, Phillips Petroleum Company ("Phillips"). states:

(1) Phillips is the operator of the San Juan 31-6 Unit which currently includes 34 Dakota wells, 26 Mesaverde wells, 35 Fruitland-Coal wells and 1 Pictured Cliffs wells all located within an area known as the "San Juan 31-6 Unit" consisting of 10,050 acres, more or less of acreage, as identified on Exhibit "A" attached.

(2) In the absence of the establishment of a "reference case" as provided in Rule 303.E, Division general state-wide Rule 303.C requires that administrative applications for downhole commingling of gas production be submitted, processed and approved on a well by well basis including submittal of the following:

- (a) economic criteria to support that at least one zone to be commingled is marginal.
- (b) pressure criteria to demonstrate that the bottomhole pressure of all zones to be commingled is less than the original bottom hole pressure of the lowest pressures zone,
- (c) allocation formulas,
- (d) notification by certified mail return receipt to each interest owner where ownership is not common in the zones to be commingled, and
- (e) notification by certified mail return receipt to each offset operator

(3) Sufficient data is now available from existing wells in this unit to support the Division approving the downhole commingling of Dakota, Mesaverde, Fruitland-Coal and Pictured Cliffs gas production within this unit on an "area-wide" basis rather than on a "well-by-well basis."

(4) Sufficient data is now available from existing wells in this unit to support the Division adopting a "reference case" for the downhole commingling of Dakota, Mesaverde, Fruitland-Coal and Pictured Cliffs gas production within this unit as to the following criteria:

- (a) **economic criteria:** to support that at least one zone to be commingled is marginal;
- (b) **allocation formulas:** to support that each interest owner shall receive its fair and equitable share of production;

- (c) **elimination of unnecessary notice:** such that any future or further notice concerning downhole commingling applications or orders within this unit shall not be required to (a) any owner (including royalty, overriding royalty or working interest owners) in instances where ownership are not common or percentages are not identical in the zones to be commingled or to (b) each offset operator who is also an interest owner in this unit; but
- (d) **notice to offset operators:** notification by certified mail-return receipt to each offset operator, except as provided in paragraph (c) above, will continue to be made provided those offset operators are operators other than applicant.

(5) Phillips seeks authorization pursuant to Division Rule 303.E that all administrative application for downhole commingling of Mesaverde, Dakota, Fruitland-Coal and Pictured Cliffs gas production within this unit submitted subsequent to the filing of this application in this case shall be authorized to refer to the order entered in this case and will not be required to submit evidence or data for the following criteria (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas, and (d) notice to owners of any production within spacing units where the ownership is not common and offset operators who also own an interest in this unit.

(6) Production from the various pools in this unit are now either marginal or uneconomic from existing wells within this unit and the economic life of that production is extended if it is downhole commingled with other production in the unit.

(7) The approval of downhole commingling of these formations within this unit will extend the economic life of the existing wells and thereby increase ultimate recovery from these formations.

(8) In addition, any new wells to be drilled or recompleted in this unit should be approved for downhole commingling because either the Dakota, Fruitland coal-gas, Mesaverde, or the Pictured Cliffs zones are marginal based upon criteria which the applicant will submit at the hearing of this case.

(9) It is anticipated that new wells, recompleted wells or existing wellbores in this unit will be most economically completed if there is a summary administrative procedure by which those wells may be downhole commingled.

(10) The processing of downhole commingling application for this unit in the absence of adopting a reference case will be an administrative burden to the Division and to the operator.

(11) Approval of downhole commingling reference case for this unit on an area-wide basis is in the best interest of conservation, the prevention of waste and the protection of correlative rights.

(12) Phillips requests the adoption of a summary administrative procedure with the necessary exceptions to the Division Rule 303.C so that the Supervisor of the Aztec District Office of the Division shall approve the downhole commingling of said production on an area-wide basis for this unit.

(13) The ownership is not common among these four formations within this unit because of differences in participating areas within the unit.

(14) In accordance with Division Rule 303.C(1)(b), the Applicant states and will demonstrate at hearing:

1. That the wells in this unit which are currently single or dual completions are now marginal and production cannot be economically continued nor further developed unless it is done so by downhole commingling that production.

2. That there will be no unrecovered production crossflowing between or among the zones commingled.

3. That the value of the commingled production will not be less than the sum of the values of the individual production.

(15) In order to salvage the remaining production from this unit, Phillips seeks approval to downhole commingle all Dakota, Mesaverde, Fruitland-Coal and Pictured Cliffs production from any existing wells where mechanically feasible and the adoption of a summary procedures for the downhole commingling of future wells to be drilled in the Unit.

(16) Phillips will submit at hearing proposed formulas for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formulas.

(17) Applicant requests that this matter be docketed for hearing on the Division's Examiner docket now scheduled for March 18, 1999.

(18) Notice of this application has been sent to all interest owners entitled to receive production within the unit and to all offset operators as required by Division Rule 303.

WHEREFORE Applicant requests that this matter be set for hearing on March 18, 1999 before a duly appointed Examiner of the Oil Conservation Division and that after notice and hearing as required by law, the Division enter its order granting this application.

Respectfully submitted

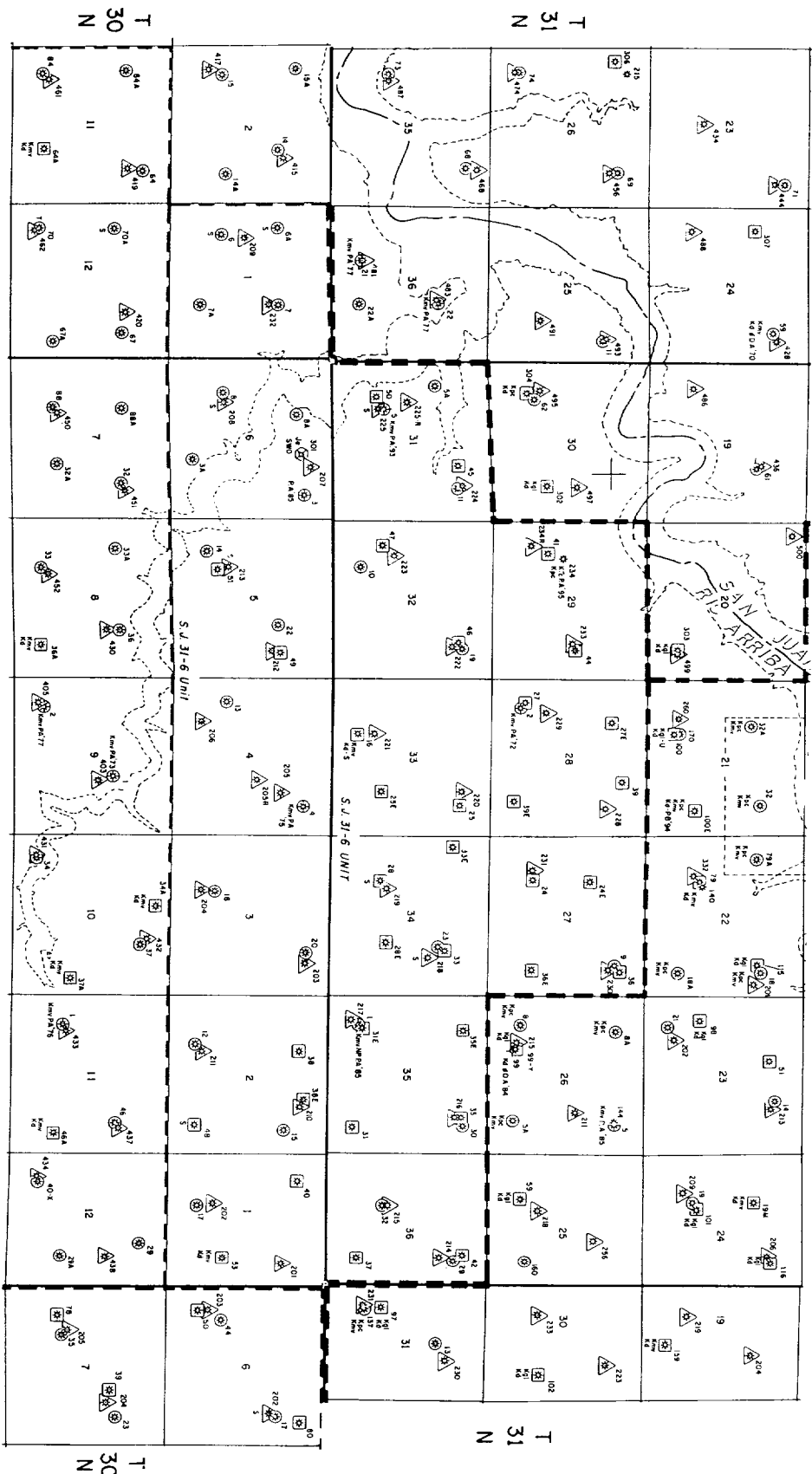
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W. Thomas Kellahin
KELLAHIN and KELLAHIN
P. O. Box 2265
Santa Fe, New Mexico 87501
(505) 982-4285
Attorneys for Applicant

R-7-W

R-6-W

R-5-W



PRODUCING INTERVAL

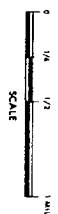
- ★ FARMINGTON
- ★ KIRTLAND
- ▲ FAULTLAND
- ◆ PICTURED CLIFFS
- ◆ CHACRA
- ◆ LA VERGARA
- ◆ MESAVIENE
- ◆ GALLUP
- ◆ OAKOTA
- ◆ CLIFFHOUSE
- ◆ WHELFEE
- ◆ POINT LOOKOUT
- ◆ CRATON
- ◆ PANADERO CREEK
- ◆ LEADVILLE

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PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 31-6 UNIT
Rio Arriba County, New Mexico



SAN JUAN 31-6 UNIT
GWI/NWI/ORRI/RI OWNERS

Amoco Production Company
Jerry J. Andrews
ATNA/SJ 1993-A
ATNA/SJFC 1993-A
BB Royalty Partnership
Pamela Gray Baldwin
Susan Hess Baumann
Robert Beamon
David William Brennand
Daniel Ponder Brennand
Merle Britting, Trustee
Burlington Resources Oil & Gas Company
Deane Wallace Burnett
Penelope H. Butler
CBP San Juan Limited Partnership
Guy R. Campbell
Shirley Ann Chouteau Trust, dated 6-10-92
Cinco General Partnership
Conoco, Inc.
Conoco, Inc. NM TX Gas
T. D. Cunningham Company
Jeremy S. Davis
Willie B. Davis
Waters S. Davis, III
Laura Dichter
El Paso Natural Gas Company
Estate of Albert E. Fagen
Four Star Oil & Gas Company
Frederking Trust
Global Natural Resources Corporation of Nevada
David H. Gray
John L. Gray
C. A. Hanson
John C. Harrington, Jr.
George K. Hatheway
Hatheway Partner, L.L.C
Elliot E. & Charlene M. Hatheway Revocable Trust, dated 11-24-97
Catherine C. Hess
Henry Crain Hess
Mary Doll Ingram
Eula May Johnston Trust No. 661
Estate of James J. Johnston
V. A. Johnston Family Trust
K & W Gas Partners, L.P.
E. F. Kalb, deceased
Leland Stanford University

Patty Ann Beamon Lundell Estate
Lisa K. Magaziner
Map 1995-A, L.P.
Laura Lee Matlock
McCormick & Company, Inc.
Louis G. Mehr
Patsy Mehr
Cynthia Gray Milani
Commissioner of Public Lands – New Mexico Land Office
Pearl Nugent Nordon Estate
The Nordon Trust
Mrs. Herbert C. Oven
Julia Page
Scott T. Petersen
Phillips-New Mexico Partner, L.P.
Phillips Petroleum Company
Harry D. Porter Trust
Betty J. Porter Decedent's Trust
Catherine Gray Remenick
L. H. Rhodes, Brownie L. Rhodes, Robert G. Rhodes and Jefferson R. Rhodes
Rogers-Gibbard Trust
San Juan 1990-A, L.P.
Mark A. Schauer
Devin Wallace Smith
Carolyn W. Stack
I. H. Stewart
TC/SJFC 1994-A
TC/UST-94
United States Department of Interior – MMS
Union Oil Company of California
Vastar Resources, Inc.
Priscilla H. Watson
Wendt & Associates
Lois J. Willard Trust
Williams Production Company
The Wiser Oil Company