

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 2, 1979

Blackwood & Nichols Co., Ltd.
P. O. Box 1237
Durango, Colorado 81301

Attention: DeLasso Loos

Re: Case No. 318
Northeast Blanco Unit
1979 Plan of Development
of the Mesaverde Formation

Gentlemen:

We hereby approve the 1979 Plan of Development of the Mesaverde Formation for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Three approved copies of the Plan of Development are returned herewith.

Yours very truly,

JOE D. RAMEY
Director

JDR/LT/fd
enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

C
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BLACKWOOD & NICHOLS Co., LTD.

P. O. BOX 1237
DURANGO, COLORADO 81301

(303) 247-0728

December 26, 1978

The Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Division ✓
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Approve
no. 318

Re: Northeast Blanco Unit
No. 1, Sec. 929
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

Blackwood & Nichols Co., Ltd., as Unit Operator, on behalf of itself and all owners of oil and gas leases within the Northeast Blanco Unit, hereby submits a Plan of Development of the Mesaverde Formation for the calendar year 1979.

The total number of wells in the Northeast Blanco Unit is as follows:

Mesaverde (Producing)	76
Mesaverde (Awaiting Connection)	15
Mesaverde (Plugged and Abandoned)	7
Mesaverde (Awaiting Completion)	2
Dakota-Mesaverde (Dual)	4
Dakota	1

Total Mesaverde Cumulative Production through October 31, 1978 - 221,717,736 MCF.
Total Dakota Cumulative Production through October 31, 1978 - 4,383,326 MCF.
Total Condensate Production through October 31, 1978 - 67,867 Barrels.

Unit Operator proposes to drill the following Mesaverde development wells located in:

TOWNSHIP 31 NORTH, RANGE 7 WEST, San Juan County, New Mexico

SE/4, Section 9

TOWNSHIP 30 NORTH, RANGE 7 WEST, Rio Arriba County, New Mexico

SE/4, Section 20

SE/4, Section 2

Pursuant to Section 17 of the Northeast Blanco Unit Agreement, we propose to drill the following Mesaverde Wells to meet offset obligations:

TOWNSHIP 31 NORTH, RANGE 7 WEST, San Juan County, New Mexico

SE/4, Section 10

TOWNSHIP 30N, RANGE 7 WEST, Rio Arriba County, New Mexico

NW/4, Section 29

SE/4, Section 21

In addition to the above, Blackwood & Nichols Co., Ltd. as Unit Operator, will drill any other offset wells that may be required to prevent drainage of unitized substances and any other wells subsequently deemed necessary or desired by the Unit Operator and the Working Interest Owners.

Blackwood & Nichols Co., Ltd., as Unit Operator, believes that all current obligations have been satisfied.

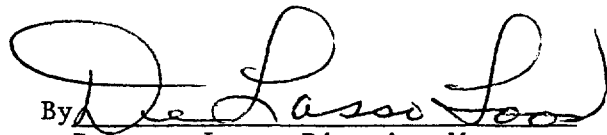
All acreage within the Northeast Blanco Unit boundaries is now participating in the Mesaverde Formation.

If this plan is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached form and return two approved copies to Blackwood & Nichols Co., Ltd.

The effective date of the Plan of Development shall be January 1, 1979.

Very truly yours,

BLACKWOOD & NICHOLS CO., LTD.

By 
DeLasso Loos, District Manager

DL:lr

Four copies to each addressee

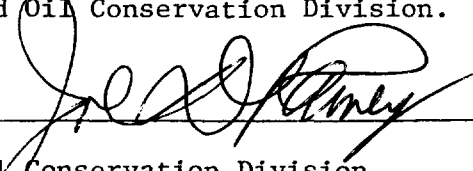
Approved: _____ Date: _____

The Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by The Commissioner of Public Lands and
Oil Conservation Division.

Approved: _____ Date: _____

Commissioner of Public Lands
State of New Mexico
Subject to like approval by the United States Geological Survey
and Oil Conservation Division.

Approved: _____ Date: 1/2/79


Oil Conservation Division
State of New Mexico
Subject to like approval by the United States Geological Survey and
Commissioner of Public Lands.

The above approvals are for the Northeast Blanco Unit Agreement No. 1,
Section 929, San Juan and Rio Arriba Counties, New Mexico,
1979 Plan of Development.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 25, 1978

Blackwood & Nichols Co., Ltd.
P. O. Box 1237
Durango, Colorado 81301

Attention: DeLasso Loos

Re: Case No. 318
Northeast Blanco Unit
Amended 1978 Plan of
Development

Gentlemen:

We hereby approve the amended 1978 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Three approved copies of the amended Plan of Development are returned herewith.

Very truly yours,

JOE D. RAMEY
Director

JDR/LT/fd
enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

C
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BLACKWOOD & NICHOLS Co., LTD.

P. O. BOX 1237

DURANGO, COLORADO 81301

(303) 247-0728

May 15, 1978

The Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Approve
No. 318

Re: Northeast Blanco Unit
No. 1, Sec. 929
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

Blackwood & Nichols Co., Ltd., as Unit Operator, on behalf of itself and all owners of oil and gas leases within the Northeast Blanco Unit, wishes to amend the 1978 Plan of Development as submitted on December 5, 1977.

Pursuant to Section 17 of the Northeast Blanco Unit Agreement, we would like to delete the proposed well located:

TOWNSHIP 30 NORTH, RANGE 7 WEST, San Juan County, New Mexico

Section 4, NW/4

Substitute a well located:

TOWNSHIP 31 NORTH, Range 7 WEST, San Juan County, New Mexico

Section 11, NW/4

If this amended plan is acceptable, please signify your approval in the space provided on the attached form and return two copies to Blackwood & Nichols Co., Ltd.

Very truly yours,

BLACKWOOD & NICHOLS CO. LTD.

DeLasso Loos
DeLasso Loos, District Manager

DL:lr
Attachment

Approved: _____ Date: _____

The Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by The Commissioner of Public Lands and
Oil Conservation Commission.

Approved: _____ Date: _____

Commissioner of Public Lands
State of New Mexico
Subject to like approval by the United States Geological Survey
and Oil Conservation Commission.

Approved: _____ Date: 5/25/78

Oil Conservation Commission
State of New Mexico
Subject to like approval by the United States Geological Survey
and Commissioner of Public Lands.

The above approvals are for an amendment to the Northeast Blanco Unit Agreement
No. 1, Section 929, San Juan and Rio Arriba Counties, New Mexico,
1978 Plan of Development.



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

MAY 24 1978

Blackwood & Nichols Co., Ltd.
Attention: Mr. DeLasso Loos
P. O. Box 1237
Durango, Colorado 81301

no. 318

Gentlemen:

One approved copy of your amended 1978 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, is enclosed. Such plan, proposing deletion of one proposed Mesaverde development well in the NW $\frac{1}{4}$ sec. 4, T. 30 N., R. 7 W., and substitution of a proposed offset obligation well in the NW $\frac{1}{4}$ sec. 11, T. 31 N., R. 7 W., was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Oil and Gas Supervisor, SRMA

Enclosure

cc:

NMOCC, Santa Fe (ltr. only) ← This Copy for
Comm. Pub. Lands (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 5, 1978

**Blackwood & Nichols Co., Ltd.
P. O. Box 1237
Durango, Colorado 81301**

Attention: De Lasso Loos

**Re: Case No. 318
Northeast Blanco Unit No. 1
1978 Plan of Development**

Gentlemen:

**We hereby approve the 1978 Plan of Development of
the Mesaverde Formation for the Northeast Blanco Unit
No. 1, San Juan and Rio Arriba Counties, New Mexico,
subject to like approval by the United States Geological
Survey and the Commissioner of Public Lands.**

**Three approved copies of the Plan are returned
herewith.**

Very truly yours,

**JOE D. RAMEY
Secretary-Director**

**JDR/LT/fd
enc.**

**cc: U.S.G.S. - Roswell
Commissioner of Public Lands**



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer 1857
Roswell, New Mexico 88201

December 30, 1977

Blackwood & Nichols Company
Attention: Mr. D. Loos
P. O. Box 1237
Durango, Colorado 81301

No. 318

Gentlemen:

Your 1978 plan of development submitted for the Northeast Blanco unit agreement, San Juan and Rio Arriba Counties, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of 23 development Mesaverde wells and two exploratory wells to test the Pictured Cliffs and Fruitland formations. Additionally, Mesaverde wells will be drilled in the NW $\frac{1}{4}$ sec. 24, T. 30 N., R. 8 W., and the SE $\frac{1}{4}$ sec. 10, T. 31 N., R. 7 W., N.M.P.M., as offset obligations to prevent drainage pursuant to Section 17 of the unit agreement.

Two approved copies of the plan are enclosed.

Sincerely yours,

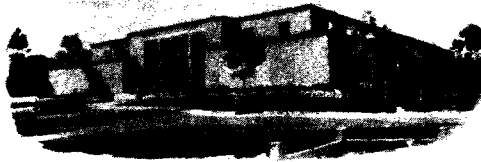
(ORIG. SGL) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

Enclosures

cc:
NMOCC, Santa Fe (1tr. only)
Com. Pub. Lands, Santa Fe (1tr. only)

State of New Mexico



Commissioner of Public Lands

PHIL R. LUCERO
COMMISSIONER

December 28, 1977

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Blackwood & Nichols Co., Ltd.
P. O. Box 1237
Durango, Colorado 81301

No. 318

Re: Northeast Blanco Unit
No. 1, Sec. 929
San Juan and Rio Arriba Counties,
New Mexico
PLAN OF DEVELOPMENT FOR 1978

ATTENTION: Mr. D. Loos

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the calendar year 1978, for the Northeast Blanco Unit No. 1, San Juan and Rio Arriba Counties, New Mexico. Your plan calls for the drilling of several unit wells as well as two offset wells. This approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Enclosed are two approved copies of the plan.

Please remit a Four (\$4.00) Dollar filing fee.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

FEL/EDG/s
encls.
cc:

OCC-Santa Fe, New Mexico ✓
USGS-Hoswell, New Mexico
USGS-Albuquerque, New Mexico

ILLEGIBLE

RECEIVED
JAN 3 - 1978
Oil Conservation Commission

BLACKWOOD & NICHOLS Co., LTD.

P. O. BOX 1237

DURANGO, COLORADO 81301

(303) 247-0728

December 5, 1977

The Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

44. 318

Re: Northeast Blanco Unit
No. 1, Sec. 929
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

Blackwood & Nichols Co., Ltd., as Unit Operator, on behalf of itself and all owners of oil and gas leases within the Northeast Blanco Unit, hereby submits a Plan of Development of the Mesaverde Formation for the calendar year 1978.

The total number of wells in the Northeast Blanco Unit is as follows:

Mesaverde (Producing)	65
Mesaverde (Awaiting Connection)	2
Mesaverde (Controversial)	1
Mesaverde (Plugged and Abandoned)	7
Dakota-Mesaverde (Dual)	4
Dakota	1

Total Mesaverde Cumulative Production through October 31, 1977 - 213,486,285 MCF.
Total Dakota Cumulative Production through October 31, 1977 - 4,198,914 MCF.
Total Condensate Production through October 31, 1977 - 66,525.89 Barrels.

Unit Operator proposes to drill the following Mesaverde development wells located in:

TOWNSHIP 30 NORTH, RANGE 7 WEST, Rio Arriba County, New Mexico

Sec. 3, NW/4	Sec. 3, SE/4	Sec. 16, NW/4
Sec. 4, SE/4	Sec. 8, SE/4	Sec. 17, SE/4
Sec. 9, NW/4	Sec. 9, SE/4	Sec. 21, NW/4
Sec. 10, NW/4	Sec. 10, SE/4	

PLAN OF DEVELOPMENT 1978 - PAGE 2

TOWNSHIP 30 NORTH, RANGE 7 WEST, San Juan County, New Mexico

SEC 4, NW/4 Sec. 6, NW/4
Sec. 5, NW/4

TOWNSHIP 30 NORTH, RANGE 8 WEST, San Juan County, New Mexico

Sec. 1, NW/4 Sec. 12, SE/4
Sec. 1, SE/4

TOWNSHIP 31 NORTH, RANGE 7 WEST, San Juan County, New Mexico

Sec. 9, SW/4 Sec. 29, NW/4
Sec. 30, NW/4* Sec. 31, NW/4*

* Authorized by the New Mexico Oil Conservation Commission Case No. 1006,
Order R-750-A.

TOWNSHIP 31 NORTH, RANGE 8 WEST, San Juan County, New Mexico

Sec. 36, NW/4 Sec. 36, SE/4

Pursuant to Section 17 of the Northeast Blanco Unit Agreement, we propose to
drill the following Mesaverde wells to meet offset obligations:

TOWNSHIP 31 NORTH, RANGE 7 WEST, San Juan County, New Mexico

Sec. 10, SE/4

TOWNSHIP 30 NORTH, RANGE 8 WEST, San Juan County, New Mexico

Sec. 24, NW/4

In addition to the above, Blackwood & Nichols Co., Ltd. as Unit Operator, will
drill any other offset wells that may be required to prevent drainage of unitized
substances and any other wells subsequently deemed necessary or desired by the
Unit Operator and the Working Interest Owners.

Blackwood & Nichols Co., Ltd. as Unit Operator, believes that all current
obligations have been satisfied.

All acreage within the Northeast Blanco Unit boundaries is now participating in
the Mesaverde Formation.

Blackwood & Nichols Co., Ltd. plans to drill two exploratory wells to test the
Pictured Cliffs and Fruitland Formations; to be located in the SW/4, Section 9
and NE/4, Section 11, T31N, R7W, San Juan County, New Mexico. The above wells
will be paid for by the respective owners. Upon their proven ability as
commercial wells, a Pictured Cliffs - Fruitland participating area will be
formed within the Northeast Blanco Unit.

If this plan is acceptable, please signify your approval as required under
Section 10 of the Unit Agreement, in the space provided on the attached form
and return two approved copies to Blackwood & Nichols Co., Ltd.

PLAN OF DEVELOPMENT 1978 - PAGE 3

The effective date of the Plan of Development shall be January 1, 1978.

Yours very truly,

BLACKWOOD & NICHOLS CO., LTD.

By 
D. Loos, District Manager

DL:lr

Four copies to each addressee

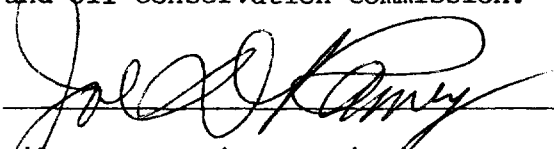
Approved: _____ Date: _____

The Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by The Commissioner of Public Lands and
Oil Conservation Commission.

Approved: _____ Date: _____

Commissioner of Public Lands
State of New Mexico
Subject to like approval by the United States Geological Survey
and Oil Conservation Commission.

Approved: _____ Date: 1/6/78

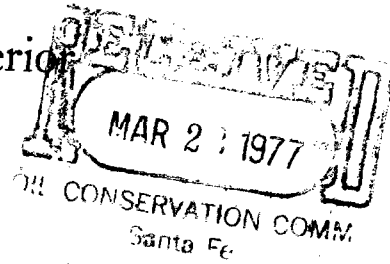

Oil Conservation Commission
State of New Mexico
Subject to like approval by the United States Geological Survey
and Commissioner of Public Lands.

The above approvals are for the Northeast Blanco Unit Agreement No. 1,
Section 929, San Juan and Rio Arriba Counties, New Mexico,
1978 Plan of Development.



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
Western Bank Building
505 Marquette, N.M., Room 215
Albuquerque, New Mexico 87102



318

MAR 21 1977

Blackwood & Nichols Co., Ltd.
2013 First National Center
Oklahoma City, Oklahoma 73102

Gentlemen:

Three copies of a letter dated March 2, 1977, requesting approval of Blackwood & Nichols Co., Ltd., as successor unit operator to Blackwood & Nichols Company, Ltd., for the Northwest Blance unit agreement, I-Sec. No. 929, San Juan and Rio Arriba Counties, New Mexico, were received in this office on March 4, 1977. Enclosed were letters of resignation by Blackwood & Nichols Company, Ltd., and acceptance of duties, obligations and responsibilities as successor unit operator by Blackwood & Nichols Co., Ltd. Also enclosed were copies of approvals of Blackwood & Nichols Co., Ltd., as successor unit operator from over 80% of the working interest owners.

This designation of successor unit operator has been approved on this date subject to like approval by the Commissioner of Public Lands of the State of New Mexico, effective as of the date approved. Copies of the approved instrument are being distributed to the appropriate Federal offices and one copy is returned herewith.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area, Oil and Gas Supervisor

Enclosure

cc:
BLM, Santa Fe (w/cy instr.)
Com. Pub. Lands, Santa Fe (ltr. only)
NMDC, Santa Fe (ltr. only)

← This Copy for

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OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 31, 1977

Blackwood and Nichols Company
2013 First National Center
Oklahoma City, Oklahoma 73102

Attention: Mr. F.G. Blackwood

Re: Change of Unit Operator
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

The New Mexico Oil Conservation Commission hereby
approves of the change of operator of the Northeast
Blanco Unit from Blackwood and Nichols Company, Ltd., to
Blackwood and Nichols Co., Ltd.

Two approved copies of the letter signifying the
above change are enclosed.

Very truly yours,

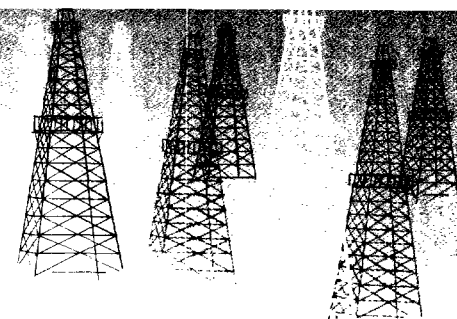
JOE D. RAMEY
Secretary-Director

JDR/JEK/og

Encls.

Blackwood & Nichols Company

2013 FIRST NATIONAL CENTER • OKLAHOMA CITY, OKLAHOMA 73102



January 25, 1977

All Working Interest Owners
Northeast Blanco Unit
San Juan and Rio Arriba
Counties, New Mexico

Oil Conservation Commission
State of New Mexico, Box 2088
Santa Fe, New Mexico 87501

Dear Sir:

Please refer to paragraphs 4, 5 and 6 of the Unit Agreement for the Development and Operation of the Northeast Blanco Unit Area, Counties of San Juan and Rio Arriba, State of New Mexico, dated as of June 16, 1951.

Blackwood & Nichols Company, now Blackwood & Nichols Company, Ltd., proposes to resign its position as unit operator under such Agreement, subject to Blackwood & Nichols Co., Ltd. being selected and approved as its successor unit operator. Blackwood & Nichols Co., Ltd. is a New Mexico limited partnership, and is now the owner of the Northeast Blanco Unit area acreage formerly owned by Blackwood & Nichols Company and most of its associates in the original venture. The general partners are F. G. Blackwood, John W. Nichols, W. J. Hilseweck and John W. Fisher. Its principal place of business is 2013 First National Center West, Oklahoma City, Oklahoma 73102. Managing partners and field and Durango office personnel will not change under the new arrangement.

Simply stated, we are requesting you approve that the operation of the unit be conveyed to a Limited Partnership which has continuity that the Blackwood & Nichols Company General Partnership did not have.

The Unit Agreement provides that the unit operator shall have the right to resign only if a successor unit operator has been selected and approved. Such resignation is effective only after the successor unit operator has agreed to accept the duties and responsibilities of unit operator and the selection of the new operator has been approved by the Commissioner of Public Lands of the State of New Mexico and the Director of the Geological Survey. Blackwood & Nichols Co., Ltd. has indicated its willingness to accept the duties and responsibilities of successor unit operator upon the relinquishment thereof by Blackwood & Nichols Company, Ltd. The Agreement provides in substance that selection of a successor unit operator shall be by majority vote of the owners of the working interests according to their respective acreage interests in all unitized land.

January 25, 1977

Page Two

In furtherance of the above, Blackwood & Nichols Company, Ltd. requests that you mark and return one executed copy of this letter signifying your approval or disapproval of Blackwood & Nichols Co., Ltd. becoming the successor unit operator, as soon as possible. A self-addressed return envelope is enclosed for your convenience. The extra copies enclosed are for your files.

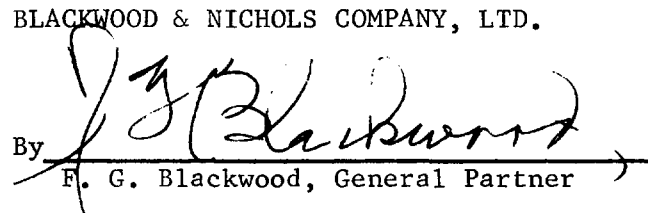
As soon as the result of your ballots is known, it will be made available to each of you and, if Blackwood & Nichols Co., Ltd. has been chosen successor unit operator, the additional necessary actions discussed above will be commenced.

Should you have any questions concerning the proposal outlined herein, please do not hesitate to contact Mr. F. G. Blackwood, General Partner of Blackwood & Nichols Company, Ltd., (405) 235-8505.

Very truly yours,

BLACKWOOD & NICHOLS COMPANY, LTD.

By


F. G. Blackwood, General Partner

APPROVE:


DISAPPROVE:

Date January 31, 1977

Date _____

cc: The Commissioner of Public Lands
of the State of New Mexico

The Director of the Geological Survey



United States Department of the Interior

318

GEOLOGICAL SURVEY
Conservation Division
Western Bank Building
505 Marquette, NW, Room 815
Albuquerque, New Mexico 87102

January 12, 1977

Blackwood & Nichols Company
Attention: Mr. F. G. Blackwood
2013 First National Center
Oklahoma City, Oklahoma 73102

Gentlemen:

The 1977 plan of development submitted for the Northeast Blanco unit agreement, San Juan and Rio Arriba Counties, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of a development well in the NE $\frac{1}{4}$ Sec. 11, T.31N., R.7W., N.M.P.M., and a well in the SE $\frac{1}{4}$ Sec. 36, T.31N., R.7W., N.M.P.M. to restore production which has been lost in that section due to casing collapse in two unit wells.

Two approved copies are enclosed.

Sincerely yours,

James W. Sutherland
Area Oil and Gas Supervisor

Enclosures (2)

N.M.O.C.C., Santa Fe (ltr. only) ← This Copy for
Comm. Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

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

3/8

January 4, 1977

Blackwood & Nichols Company
2013 First National Center
Oklahoma City, Oklahoma 73102

Attention: Mr. F. G. Blackwood

Re: 1977 Plan of Development
Mesaverde Formation
Northeast Blanco Unit, San
Juan and Rio Arriba Counties,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development of the Mesaverde Formation for the calendar year 1977 for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JHR/JEK/og

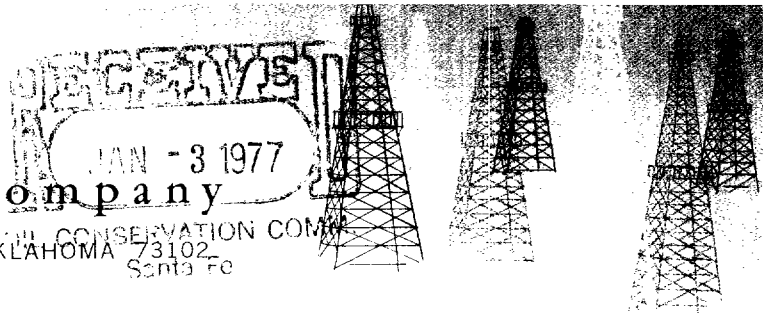
cc: Commissioner of Public Lands
Santa Fe, New Mexico

U. S. Geological Survey
Roswell, New Mexico

C
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P
Y

Blackwood & Nichols Company

2013 FIRST NATIONAL CENTER • OKLAHOMA CITY, OKLAHOMA 73102
Santa Fe



December 29, 1976

The Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Northeast Blanco Unit
No. 1, Sec. 929
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases within the Northeast Blanco Unit, hereby submits a Plan of Development of the Mesaverde Formation for the calendar year 1977.

The total number of wells in the Northeast Blanco Unit is as follows:

Mesaverde (Producing)	62
Mesaverde (Incapable of Production)	3
Mesaverde (Plugged & Abandoned)	5
Dakota-Mesaverde (Dual)	4
Dakota	1

Total Mesaverde cumulative production through October 31, 1976 - 205,238,490 MCF.
Total Dakota cumulative production through October 31, 1976 - 4,022,818 MCF.
Total condensate production through October 31, 1976 - 64,694.05 Barrels.

Unit Operator proposes to drill one development well in:

TOWNSHIP 31 NORTH, RANGE 7 WEST, San Juan County, New Mexico

Sec. 11: NE 1/4

Pursuant to Section 17 of the Northeast Blanco Unit Agreement, we propose to drill the following well to meet offset obligations and re-establish production in the section where two wells have been lost because of casing collapse:

TOWNSHIP 31 NORTH, RANGE 7 WEST, Rio Arriba County, New Mexico

Sec. 36: SE 1/4

In addition to the above, Blackwood & Nichols Company as Unit Operator, will drill any other offset wells that may be required to prevent drainage of unitized substances and any other wells subsequently deemed necessary or desired by the Unit Operator and the Working Interest Owners.

Blackwood & Nichols Company as Unit Operator, believes that all current obligations have been satisfied.

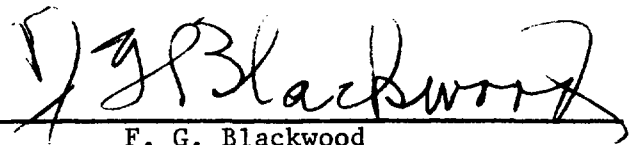
All acreage committed to the Northeast Blanco Unit is now participating in the Mesaverde Formation.

If this plan is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached form and return two approved copies to Blackwood & Nichols Company.

The effective date of the Plan of Development shall be January 1, 1977.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

By 
F. G. Blackwood
General Partner

FGB:dm

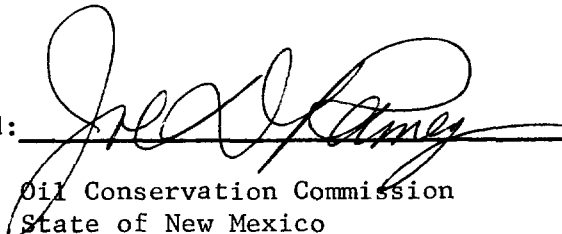
Four copies to each addressee

Approved: _____ Date: _____

The Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by The Commissioner of Public Lands and
Oil Conservation Commission.

Approved: _____ Date: _____

Commissioner of Public Lands
State of New Mexico
Subject to like approval by the United States Geological Survey
and Oil Conservation Commission

Approved:  _____ Date: January 4, 1977

Oil Conservation Commission
State of New Mexico
Subject to like approval by the United States Geological Survey
and Commissioner of Public Lands

The above approvals are for the Northeast Blanco Unit Agreement No. 1,
Section 929, San Juan and Rio Arriba Counties, New Mexico,
1977 Plan of Development.

318
OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

December 20, 1976

Blackwood & Nichols Company
2013 First National Center
Oklahoma City, Oklahoma 73102

Attention: C. Bowles

Re: Northeast Blanco Unit
Revision, Exhibit B

Gentlemen:

The Oil Conservation Commission acknowledges receipt of Exhibit "B", dated November 1, 1976, which reflects the ownership of the recently committed Tract 23.

Two copies of the approved exhibit are returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

RECAPITULATION - WORKING INTEREST OWNERS - SIXTH ENLARGED PARTICIPATING AREA - MESAVERDE

(EXHIBIT "B")

OWNER	ACREAGE COMMITTED	ROYALTIES/ OVERRIDES PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION GROSS PRODUCTION	OPERATING RIGHTS/ WORKING INTEREST PARTICIPATION
Blackwood & Nichols Co., Ltd.	9,994.70	.0471515	.2603023	.3074538
Westland Oil Development Corporation	1,338.59	.0063149	.0348627	.0411776
Thayer H. Laurie	139.12	.0006565	.0036232	.0042797
Thayer H. Laurie & David N. Mills, Trustees	84.18	.0003970	.0021926	.0025896
Amoco Production Company	10,719.80	.0480563	.2817026	.3297589
El Paso Natural Gas Company	6,891.51	.0401002	.1718942	.2119944
Northwest Pipeline Corporation	1,799.73	.0088794	.0464833	.0553627
The Wiser Oil Company	158.79	.0006106	.0042741	.0048847
Jacquelyn M. Williams	84.82	.0006521	.0019570	.0026091
Texaco, Inc.	280.09	.0010769	.0075391	.0086160
Tenneco Oil Company	468.31	.0044650	.0099410	.0144060
Continental Oil Company	468.31	.0044650	.0099409	.0144059
H. H. Phillips	31.26	.0001201	.0008415	.0009616
Ruth Phillips Bisiker	18.76	.0000720	.0005049	.0005769
Castle, Inc.	17.86	.0000687	.0004808	.0005495
Winnie A. Phillips	3.57	.0000138	.0000961	.0001099
H. H. Phillips, Jr.	2.86	.0000110	.0000769	.0000879
Jane Phillips Ladouceur	2.86	.0000110	.0000769	.0000879
Susanna Phillips Kelly	2.86	.0000110	.0000769	.0000879
TOTALS	32,507.98	.1631330	.8368670	1.0000000

Approved.....Dec 20.....1976

.....
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

NOVEMBER 1, 1976

EXHIBIT "B"
SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS
INTERESTS IN ALL LANDS IN THE NORTHEAST BLANCO UNIT AGREEMENT

318
[Signature]

Tract No.	Description	No. of Acres	Santa Fe		Land Owner & Record Owner	Percentage of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
			Serial No.	and Lease Date				

FEDERAL LANDS

T30N-R8W

1-A	Sec. 1, W/2	603.30	078581-A	10-1-49	USA 12-1/2%	Ben R. Howell	Ben R. Howell 25% of 1% Thornton Hardie 25% of 1% Allen R. Grambling 25% of 1% William B. Hardie 10% of 1% John A. Grambling 10% of 1% Richard H. Feuille 5% of 1%	El Paso Natural Gas Co. -ALL
	Sec. 12, NW/4, E/2SW/4, NW/4SW/4							

T30N-R8W

1-B	Sec. 1, E/2	641.10	078581	10-1-49	USA 12-1/2%	Maurice J. Florance P. M. McCulley	M. J. Florance 81% of 1/5 of 7/8 Dan W. Johnston 5% of 19% of 1/5 of 7/8 Wesley W. West 3% of 19% of 1/5 of 7/8 Betty Ann West Trust 7.5% of 19% of 1/5 of 7/8 James Wendell West Trust 7.5% of 19% of 1/5 of 7/8 Phil E. Davant 22.5% of 19% of 1/5 of 7/8 Hortense E. Davant 3.5% of 19% of 1/5 of 7/8 W. R. Archer 2% of 19% of 1/5 of 7/8 F. L. Tucker and G. E. Thompson 1% of 19% of 1/5 of 7/8 L. A. Nordan 2-1/2% of 19% of 1/5 of 7/8	Delhi Oil Corp. ALL
	Sec. 12, E/2							

Tract No.	Description	No. of Acres	Santa Fe		Land Owner & Percentage of Royalty	Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Oper- ating Agreement or Assignment
			Serial No.	and Lease Date				

1-B T 30N-R8W
(continued)

South Texas National Bank of
Houston, Texas, Trustee,
Houston, Texas
3/4 of 1% of 19% of 1/5 of 7/8
Gladys D. Davis
3/4 of 1% of 19% of 1/5 of 7/8
Waters S. Davis, Jr.
1-1/2% of 19% of 1/5 of 7/8
Roy Rowntree
1/2 of 1% of 19% of 1/5 of 7/8
Lewis R. Van Sant
1/2 of 1% of 19% of 1/5 of 7/8
Ralph A. Johnston
39.5% of 19% of 1/5 of 7/8
George R. Reese, Jr.
1% of 19% of 1/5 of 7/8
A. W. Ashley
1% of 19% of 1/5 of 7/8

T 30N-R8W

2-A Sec. 24, W/2 320 078615 3-1-48 USA 12-1/2% Ben R. Howell
Paul B. Horton

Ben R. Howell 25% of 1%
Thornton Hardie 25% of 1%
Allen R. Grambling 25% of 1%
William B. Hardie 10% of 1%
John A. Grambling 10% of 1%
Richard H. Feuille 5% of 1%

El Paso Natural
Gas Co. - All

T 30N-R8W

2-B Sec. 24, E/2 320 078615 3-1-48 USA 12-1/2% P. M. McCulley
Paul B. Horton

Paul B. Horton 1% until paid
\$25.00 per acre and then
1/2 of 1%
M. J. Florance 81% of 1/5 of 7/8
Dan W. Johnston
5% of 19% of 1/5 of 7/8

Delhi Oil Corp.
All

Tract No.	Description	Santa Fe			Working Interest Owner under Option Agreement, Oper- ating Agreement or Assignment
		No. of Acres	Serial No. and Lease Date	Land Owner & Percentage of Royalty of Lease of Application	
<u>T30N-R8W</u>					
<u>(continued)</u>					
2-B					Wesley W. West

Wesley, W. West
 3% of 19% of 1/5 of 7/8
 Betty Ann West Trust
 7.5% of 19% of 1/5 of 7/8
 James Wendell West Trust
 7.5% of 19% of 1/5 of 7/8
 Phil E. Davant
 22.5% of 19% of 1/5 of 7/8
 Hortense E. Davant
 3.5% of 19% of 1/5 of 7/8
 W. R. Archer
 2% of 19% of 1/5 of 7/8
 F. L. Tucker and G.E. Thompson
 1% of 19% of 1/5 of 7/8
 L. A. Nordan
 2-1/2% of 19% of 1/5 of 7/8
 So. Texas National Bank of Houston,
 Texas, Trustee 3/4 of 1% of 19% of 1/5 of 7/8
 Gladys D. Davis
 3/4 of 1% of 19% of 1/5 of 7/8
 Waters S. Davis, Jr.
 1-1/2% of 19% of 1/5 of 7/8
 Roy Rowntree
 1/2 of 1% of 19% of 1/5 of 7/8
 Lewis R. Van Sant
 1/2 of 1% of 19% of 1/5 of 7/8
 Ralph A. Johnston
 39.5% of 19% of 1/5 of 7/8
 George R. Reese, Jr.
 1% of 19% of 1/5 of 7/8
 A.W. Ashley
 1% of 19% of 1/5 of 7/8

Tract No.	Description	No. of Acres	Santa Fe Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	Working Interest	
							Owner under Option Agreement, Operating Agreement or Assignment	
3	<u>T30N-R8W</u> Sec. 13, S/2 SE/4	80.00	078699 App.	USA 12-1/2%	H. H. Phillips	None	H. H. Phillips	All
4	<u>T31N-R6W</u> Sec. 18, N/2	320.00	078970 2-1-48	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	None	<u>Rights in Mesaverde Formation only.</u> Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 subject to overriding royalty, (subject to suspension and conversion), to F. G. Blackwood and Dola Blackwood, his wife, of 3-1/2¢ per MCF of gas produced, saved and sold to credit of this interest without reduction for royalties or other burdens. El Paso Natural Gas Company 7/64 subject to gas payment from these and other lands in total amount of \$ 1, 100, 000, payable to Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.	

Tract No.	Description	No. of Acres	Santa Fe Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	Working Interest
							Owner under Option Agreement, Operating Agreement or Assignment

4 T31N-R6W
(continued)

All Rights other than in Mesaverde

Formation

Stanolind Oil and Gas Company 1/2
Northeast Blanco Development

Corp. 25/64

subject to overriding royalty
as described above

Nelson & Edward Morris, Ltd.

49/512

A. M. Lloyd

7/512

T31N-R6W

5 Sec. 6, S/2

2560

078988
7-1-48

USA 12-1/2%

Stanolind Oil and
Gas Company 1/2

Northeast Blanco

Development Corp.

25/64

Nelson & Edward

Morris, Ltd.

49/512

A. M. Lloyd 7/512

Southland Royalty Company
1-1/2%

Hugh C. Alexander, Jr.

250/2048 of 1%

J.M.Sloan 125/2048 of 1%

C.S.Wallace 125/2048 of 1%

E.W.Ingram 100/2048 of 1%

Waters S. Davis, Jr.

50,000/2,027,508 of 1-1/4%

Gladys D. Davis

25,000/2,027,508 of 1-1/4%

South Texas National Bank, Trustee

25,000/2,027,508 of 1-1/4%

L. A. Nordan

100,000/2,027,508 of 1-1/4%

Ralph A. Johnston 6216/20480 of 1%

R.E.Beamon 3691/20480 of 1%

Dan W. Johnson 1/10 of 1%

A. For complete description of this ownership see
the working interest ownership set out opposite
Unit Tract No. 4.

Tract No.	Description	No. of Acres	Serial No. and Lease Date	Santa Fe Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	Working Interest
							Owner under Option Agreement, Operating Agreement or Assignment
6-A	T30N-R7W	638.75	079001 11-1-49	USA 12-1/2%	C. C. Peters		Gas Rights down to and including the Mesaverde Formation. El Paso Natural Gas Company All subject to overriding royalty, subject to suspension and conversion, to Delhi Oil Corporation of 33-1/3% of liquid hydrocarbons to Assignor's interest and on gas produced and saved to Assignor's interest- 5-1/2¢ per MCF for first 3-1/3 years, 6-1/2¢ per MCF for next 3-1/3 years, 7-1/2¢ per MCF for next 3-1/3 years, not less than 8¢ per MCF for the next one year, not less than 9¢ per MCF for the next one year, not less than 10¢ per MCF thereafter, All as specifically provided by that certain Assignment of Operating Agreement between the above parties dated March 1, 1952.
	Sec. 3, Lots 5, 6 S/2NE/4 SE/4						
	Sec. 10, W/2						
							Gladys Watford 10% of 1/5 of 7/8 and 83-1/4% of 11% of 1/5 of 7/8 M.J.Florance, Trustee 40% of 1/5 of 7/8 Mercantile National Bank, Trustee, 20% of 1/5 of 7/8 James M. West, Jr., et al, Trustees, 7-1/2% of 19% of 1/5 of 7/8 James M. West, Jr. 7-1/2% of 19% of 1/5 of 7/8 Wesley W. West 3% of 19% of 1/5 of 7/8 Dan W. Johnston 5% of 19% of 1/5 of 7/8 Hortense E. Davant 3-1/2% of 19% of 1/5 of 7/8 L. A. Nordan 2-1/2% of 19% of 1/5 of 7/8 Lewis R. Vansant 1/2 of 1% of 19% of 1/5 of 7/8 Roy Rowntree 1/2 of 1% of 19% of 1/5 of 7/8 South Texas National Bank, Trustee, 3/4 of 1% of 19% of 1/5 of 7/8 Gladys D. Davis 3/4 of 1% of 19% of 1/5 of 7/8 Waters S. Davis, Jr. 1-1/2% of 19% of 1/5 of 7/8

Tract No.	Description	No. of Acres	Santa Fe Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
6-A	T 30N-R7W (continued)						
						W. R. Archer 2% of 19% of 1/5 of 7/8	Gas Rights below the <u>Mersaverde Formation</u> and All Oil Rights Delhi Oil Corporation
						F. L. Tucker and G. E. Thompson 1% of 19% of 1/5 of 7/8	
						George R. Reese, Jr. 1% of 19% of 1/5 of 7/8	
						A. W. Ashley 1% of 19% of 1/5 of 7/8	
						Eldridge C. Thompson 4-1/2% of 19% of 1/5 of 7/8	
						Ralph A. Johnston 35% of 19% of 1/5 of 7/8	
						Lorene R. Smith 1-1/4% of 19% of 1/5 of 7/8	
						W. A. Romero 1% of 19% of 1/5 of 7/8	
						B. H. Bristow Draper 2% of 19% of 1/5 of 7/8	
						Phil E. Davant 18-1/4% of 19% of 1/5 of 7/8	
						R. E. Beamon 4-1/2% of 11% of 1/5 of 7/8	
						Alfred E. McClane and Sue Reeder Turner 1-1/2% of 11% of 1/5 of 7/8	
						James A. Williams 3% of 11% of 1/5 of 7/8	
						D. Franklin Jones 3-1/8% of 11% of 1/5 of 7/8	
						Margaret E. Draper 1-1/2% of 11% of 1/5 of 7/8	
						Ewel H. Stone 3-1/8% of 11% of 1/5 of 7/8	

Tract No.	Description	Santa Fe		Land Owner & Record Owner	Working Interest
		No. of Acres	Serial No. and Lease Date	Percentage of Royalty of Application	Owner under Option Agreement, Operating Agreement or Assignment
6-A	T30N-R7W (continued)				

Dan W. Johnston 1/4 of 1%
 T. J. Ahern 75, 000/223, 442 of 1%
 J. F. Davis 10, 000/223, 442 of 1%
 Mary J. Wagner
 5, 000/223, 442 of 1%
 Wilbur E. Hess
 27, 000/223, 442 of 1%
 Douglas E. Johnston
 9, 000/223, 442 of 1%
 Wilbur H. Frederking
 9, 000/223, 442 of 1%
 Dr. Charles S. Alexander
 18, 000/223, 442 of 1%
 Raybourne Thompson
 26, 250/223, 442 of 1%
 E. W. Ingram 20, 750/223, 442 of 1%
 42, 500/2, 793, 028 of 1-1/4%
 Johnston Oil & Gas Co.
 605, 489/1, 787, 536 of 1%
 Wm. G. Johnston
 605, 489/1, 787, 536 of 1%
 R. E. Beamon III
 150, 000/2, 793, 028 of 1-1/4%
 Waters S. Davis, Jr.
 50, 000/2, 027, 508 of 1-1/4%
 Gladys D. Davis
 25, 000/2, 027, 508 of 1-1/4%
 So. Texas National Bank, Trustee
 25, 000/2, 027, 508 of 1-1/4%
 L. A. Nordan 100, 000/2, 027, 508 of 1-1/4%
 R. E. Beamon 33, 968/10, 000, 000
 Alma Mae Beamon 9580/61, 389 of 1%
 C. C. Peters 1% until paid \$25. 00 per acre in
 and from the E/2 of Sec. 3, W/2 of Sec. 10,
 W/2 of Sec. 11, and E/2 of Sec. 15, Township
 30N, Range 7 West N. M. P. M.

						Working Interest	
						Owner under Option Agreement, Operating Agreement or Assignment	
Tract No.	Description	No. of Acres	Santa Fe Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	
6-B	<u>T30N-R7W</u>	639.13	079001-A 11-1-49	USA 12-1/2%	Ben R. Howell	Dan W. Johnston 1/4 of 1%	El Paso Natural Gas Co. All
	Sec. 3, Lots 7, 8, S/2NW/4, SW/4						
	Sec. 10, E/2						
T. J. Ahern 75,000/223,442 of 1%							
J. P. Davis 10,000/223,442 of 1%							
Mary J. Wagner 5,000/223,442 of 1%							
Wilbur E. Hess 27,000/223,442 of 1%							
Douglas E. Johnston 9,000/223,442 of 1%							
Wilbur H. Frederking 9,000/223,442 of 1%							
Dr. Charles S. Alexander 18,000/223,442 of 1%							
Raybourne Thompson 26,250/223,442 of 1%							
E. W. Ingram 20,750/223,442 of 1%							
42,500/2,793,028 of 1-1/4%							
Johnston Oil & Gas Co.							
605,489/1,787,536 of 1%							
Wm. G. Johnston 605,289/1,787,536 of 1%							
R. E. Bearmon, III 150,000/2,793,028 of 1-1/4%							
Waters S. Davis, Jr. 50,000/2,027,508 of 1-1/4%							
Gladys D. Davis 25,000/2,027,508 of 1-1/4%							
South Texas National Bank, Trustee 25,000/2,027,508 of 1-1/4%							

Tract No.	Description	No. of Acres	Serial No. and Lease Date	Santa Fe Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment

6-B T 30N-R7W
(continued)

L. A. Nordan
100,000/2,027,508 of 1-1/4%
R. E. Beamon
33,968/10,000,000
Alma Mae Beamon
9580/61,389 of 1%
Ben R. Howell 25% of 1%
Thornton Hardie 25% of 1%
Allen R. Grambling 25% of 1%
William B. Hardie 10% of 1%
John A. Grambling 10% of 1%
Richard H. Feuille 5% of 1%

7 T 31N-R7W
Sec. 22, All
Sec. 27, All
Sec. 34, All
Sec. 35, All

2560 079003 7-1-48 USA 12-1/2%

Stanolind Oil and Gas Company 1/2
Northeast Blanco Development Corp.
25/64
Nelson & Edward Morris, Ltd.
49/512
A. M. Lloyd 7/512

Southland Royalty Company 1/4 of 1%
T. J. Ahern
75,000/223,442 of 1%
J. P. Davis
10,000/223,442 of 1%
Mary J. Wagner
5,000/223,442 of 1%
Wilbur E. Hess
27,000/223,442 of 1%
Douglas E. Johnston
9,000/223,442 of 1%
Wilbur H. Frederking
9,000/223,442 of 1%
Dr. Charles S. Alexander
18,000/223,442 of 1%

Stanolind Oil and Gas Company, et al (Footnote A)

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	Santa Fe		Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
			Serial No.	and Lease Date				
7	<u>T31N-R7W</u>							
	(continued)							
						Raybourne Thompson 26,250/223,442 of 1%		
						E. W. Ingram 20,750/223,442 of 1%		
						42,500/2,793,028 of 1-1/4%		
						Ralph A. Johnston 605,489/1,787,536 of 1%		
						Wm. G. Johnston 605,489/1,787,536 of 1%		
						R. E. Beamon III 150,000/2,793,028 of 1-1/4%		
						Waters S. Davis, Jr. 50,000/2,027,508 of 1-1/4%		
						Gladys D. Davis 25,000/2,027,508 of 1-1/4%		
						South Texas National Bank, Trustee 25,000/2,027,508 of 1-1/4%		
						L. A. Nordan 100,000/2,027,508 of 1-1/4%		
						R. E. Beamon 9592/20480 of 1%		
8-A	<u>T31N-R7W</u> Sec. 25, NE/4, SE/4NW/4, S/2	520	079010	7-1-48	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A.M.Lloyd 7/512	D.A. MacPherson 2-1/2%	Stanolind Oil and Gas Company, et al (Footnote A)

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Revised to May 31, 1954

-11-

Tract No.	Description	No. of Acres	Santa Fe Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease of Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
8-B	<u>T31N-R7W</u>	2040	079010-A 7-1-48	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A.M. Lloyd 7/512	As to Sec. 23, W/2 of Sec. 24, N/2 NW/4 and SW/4 NW/4 of Sec. 25, and all of Sec. 26, T31N-R7W	Stanolind Oil and Gas Company, et al (Footnote A)
	Sec. 23, All						
	Sec. 24, All						
	Sec. 25, N/2NW/4, SW/4NW/4						
	Sec. 26, All						
						Southland Royalty Company 1/4 of 1%	
						T.J. Ahern	
						75,000/223,442 of 1%	
						J. P. Davis	
						10,000/223,442 of 1%	
						Mary J. Wagner	
						5,000/223,442 of 1%	
						Wilbur E. Hess	
						36,000/223,442 of 1%	
						Douglas E. Johnston	
						9,000/223,442 of 1%	
						Wilbur E. Frederking	
						9,000/223,442 of 1%	
						Dr. Charles S. Alexander	
						9,000/223,442 of 1%	
						Raybourne Thompson	
						26,250/223,442 of 1%	
						E. W. Ingram	
						20,750/223,442 of 1%	
						42,500/2,793,028 of 1-1/4%	
						Ralph A. Johnston	
						605,489/1,787,536 of 1%	
						Wm. G. Johnston	
						605,489/1,787,536 of 1%	
						R. E. Beamon III	
						150,000/2,793,028 of 1-1/4%	

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	Santa Fe			Land Owner & Record Owner	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment.
		No. of Acres	Serial No. and Lease Date	Percentage of Royalty			

8-B T31N-R7W
(continued)

Waters S. Davis, Jr.
50, 000/2, 027, 508 of 1-1/4%
Gladys D. Davis
25, 000/2, 027, 508 of 1-1/4%
South Texas National Bank, Trustee
25, 000/2, 027, 508 of 1-1/4%
L. A. Nordan
100, 000/2, 027, 508 of 1-1/4%
R. E. Beamon 9592/20480 of 1%

As to E/2 of Sec. 24-31N-7W
D.A. MacPherson 2-1/2%

T30N-R7W

9 Sec. 5, All 1779.91 079042

Sec. 6, Lots 8, 9, 10, 11, 5-1-51

Stanolind Oil and
Gas Company 1/2
Northeast Blanco
Development Corp.

Stanolind Oil and
Gas Company, et
al (Footnote A)

12, 13, 14, 15, 16,
17, 18, 19, 20, 21,
SE/4NW/4, NE/4SW/4

Sec. 7, Lots 5, 6, 7, 8, 9,
12, 13, 14, 15, 16,
E/2NE/4

Sec. 8, Lots 1, 2, 3, E/2,
NW/4

Nelson & Edward
Morris, Ltd.
49/512
A. M. Lloyd 7/512

T31N-R7W

10 Sec. 28, All 2314.56 079043

Sec. 31, Lots 6, 9, 10, 13 4-1-51

Sec. 33, All

Stanolind Oil and
Gas Company 1/2
Northeast Blanco
Development Corp.

Stanolind Oil and
Gas Company, et
al (Footnote A)

(continued next page)

A. For complete description of this ownership see
the working interest ownership set out opposite
Unit Tract No. 4 .

Tract No.	Description	No. of Acres	Santa Fe Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
10	<u>T30N-R7W</u> (continued) Sec. 4, Lots 5, 6, 7, 8, S/2N/2, SE/4 Sec. 9, N/2, W/2SW/4						
11	<u>T31N-R7W</u> Sec. 20, E/2, E/2W/2, W/2SW/4 Sec. 21, All Sec. 29, All Sec. 30, Lots 7, 8, 11, 12, W/2NE/4, SE/4NE/4	2056.12	079045 4-1-51	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	Edith A. Payne and Carroll T. Payne 2-1/2%	Stanolind Oil and Gas Company, et al (Footnote A)
12	<u>T30N-R7W</u> Sec. 19, Lots 12, 13 E/2SW/4	103.60	079053 10-1-49	USA 12-1/2%	Mary C. Hagood	Mary C. Hagood and L.N. Hagood 5.0%	Phillips Petroleum Co. All
3	<u>T30N-R7W</u> Sec. 9, SE/4, E/2SW/4 Sec. 17, N/2NE/4, SE/4 NE/4, E/2SE/4 Sec. 19, Lots 10, 11, S/2SE/4 Sec. 20, NE/4, E/2NW/4, S/2 Sec. 21, All Sec. 22, W/2NW/4, NW/4SW/4 Sec. 29, N/2	2236.44	079060 9-1-48	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	W.B. Collins 2-1/2%	Stanolind Oil and Gas Company, et al (Footnote A)

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	Santa Fe		Land Owner & Percentage of Royalty	Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
			Serial No.	and Lease Date				
14	<u>T30N-R7W</u> Sec. 18, Lots 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 E/2W/2	371.07	079073	4-1-51	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	Charles B. Gonsales 2-1/2%	Stanolind Oil and Gas Company, et al (Footnote A)
15	<u>T30N-R7W</u> Sec. 17, Lots 6, 7, 8 Sec. 20, Lots 1 and 2 Sec. 22, SW/4SW/4	173.12	079074	App.	USA 12-1/2%	T. H. McElvain	None	T. H. McElvain All
16-A	<u>T31N-R7W</u> Sec. 19, Lots 5, 6, 7, 8 Sec. 30, Lots 5, 6, 9, 10, E/2W/2 Sec. 31, Lots 5, 7, 8, 11, 12, 14, E/2W/2	1022.45	079082	4-1-51	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	Brookhaven Oil Company 2-1/2%	Stanolind Oil and Gas Company, et al (Footnote A)
	<u>T31N-R8W</u> Sec. 25, N/2, SW/4							
	<u>T30N-R7W</u> Sec. 17, Lots 1, 3, 4, Sec. 18, SW/4NE/4							

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	Santa Fe		Land Owner & Percentage of Royalty	Record Owner		Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
			Serial No.	and Lease Date		of Lease	or Application		
16-B	<u>T31N-R8W</u>	211.62	079082-A	4-1-51	USA 12-1/2%	Phillips Petroleum Company	Brookhaven Oil Company	5%	Phillips Petroleum Company All
	Sec. 25, SE/4								
17	<u>T30N-R7W</u>	160.00	079511	9-1-49	USA 12-1/2%	Paul D. Lindsey Ben R. Howell	Hazel Bolack Ben R. Howell	2% 1%	Rights to base of Mes- averde Formation El Paso Natural Gas Company - All All Rights below Mes- averde Formation Wood River Oil & Refining Company, Inc. and Rock Hill Oil Company - All
	Sec. 13, SW/4NW/4, W/2SW/4, SE/4SW/4								
18	<u>T31N-R7W</u>	320	080557	9-1-48	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A.M. Lloyd 7/512	W. B. Collins 2-1/2%		Stanolind Oil and Gas Company, et al (Footnote A)
	Sec. 19, W/2E/2, E/2W/2								
19	<u>T31N-R7W</u>	840	N.M.03356	4-1-48	USA 12-1/2%	Northeast Blanco Development Corp. 25/32 Nelson & Edward Morris, Ltd. 49/256 A.M. Lloyd 7/256	John E. Wells 5%		Rights in Mesaverde Formation only Northeast Blanco Devel- opment Corp. 25/32 subject to overriding royalty, (subject to
	Sec. 14, W/2W/2, SE/4NW/4 Sec. 15, All								

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	Santa Fe		Land Owner & Record Owner		Working Interest	
		No. of Acres	Serial No. and Lease Date	Percentage of Royalty	or Application of Lease	Overriding Royalty Owner & Percentage	Owner under Option Agreement, Operating Agreement or Assignment

T31N-R7W
 19 (continued)

suspension and conversion), to F. G. Blackwood and Dola Blackwood, his wife, of 3-1/2¢ per MCF of Gas produced, saved and sold to credit of this interest without reduction for royalties or other burdens.

El Paso Natural Gas Company 7/32
 s subject to gas payment from these and other lands in total amount of \$1,100,000, payable to

Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8

payable from gas produced to this interest(net of royalties and other burdens) from Mesaverde formation only out of

3-1/2¢ per MCF for first 10 years, 4-1/2¢ per MCF thereafter and subject to suspension and conversion.

All as is more specifically provided in "Assignment Affecting Record Title to Oil and Gas Lease" executed by said parties as of January 1, 1954.

All Rights other than in Mesaverde Formation.

Northeast Blanco Development Corp. 25/32
 subject to overriding royalty as described above
 Nelson & Edward Morris, Ltd. 49/256
 A. M. Lloyd 7/256

Tract No.	Description	No. of Acres	Santa Fe Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
20	<u>T31N-R6W</u> Sec. 30, All	640	N. M. 03357 2-1-49	USA 12-1/2%	Northeast Blanco Development Corp. 25/32 Nelson & Edward Morris, Ltd. 49/256 A. M. Lloyd 7/256	C. S. Page, Jr. 5%	Northeast Blanco Development Corp., et al (Footnote B)
21A	<u>T31N-R7W</u> Sec. 1, Lots 6, 7, 8, E/2SE/4 S. c. 10, S/2 Sec. 11, N/2, N/2SW/4, SW/4SW/4 Sec. 12, E/2, S/2NW/4, E/2SW/4 Sec. 13, All Sec. 14, E/2, E/2SW/4	2396.77	N. M. 03358 8-1-48	USA 12-1/2%	Northeast Blanco Development Corp. 25/32 Nelson & Edward Morris, Ltd. 49/256 A. M. Lloyd 7/256	Katherine Martin 5%	Rights in Mesaverde Formation only Northeast Blanco Development Corp. 25/32 subject to overriding royalty, (subject to suspension and conversion), to F. G. Blackwood and Dola Blackwood, his wife, of 3-1/4¢ per MCF of Gas produced, saved and sold to credit of this interest without reduction for royalties or other burdens. El Paso Natural Gas Company subject to gas payment from these and other lands in total amount of \$1, 100, 000, payable to Nelson & Edward Morris, Ltd. A. M. Lloyd 7/8 payable from gas produced to this interest (net of royalties and other burdens)

B. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 19.

Revised to May 31, 1954

-18-

B. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 19.

Tract No.	Description	No. of Acres	Santa Fe		Land Owner & Percentage of Royalty	Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
			Serial No. and Lease Date					
21-A	<u>T31N-R7W</u> (continued)							
							from Mesaverde formation only out of 3-1/2 ¢ per MCF for first 10 years, 4-1/2 ¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title to Oil and Gas Lease" executed by said parties as of January 1, 1954. All Rights other than in Mesa-verde Formation.	
	<u>T31N-R6W</u>							
21-B	Sec. 6, Lots 8, 9, 10, 11	31.89	N.M. 05058	USA 12-1-1/2%	Northeast Blanco Development Corp. 25/32	None		Northeast Blanco Development Corp., et al (Footnote B)
					Nelson & Edward Morris, Ltd. 49/256			
					A.M. Lloyd 7/256			

B. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 19.

				Santa Fe				Working Interest	
Tract No.	Description	No. of Acres	Serial No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Owner under Option Agreement, Operating Agreement or Assignment		
22	<u>T30N-R7W</u>	166.76	N.M. 03845	USA 12-1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A.M. Lloyd 7/512	None	Stanolind Oil and Gas Company, et al (Footnote A)		
	<u>Sec. 19, Lots 5, 6, 7, 8 and 9, E/2NW/4</u>								
23	<u>T30N-R7W</u>	10.31	N.M. 04414 App.	USA 12-1/2%	Earl M. Cranston	None	Earl M. Cranston All		
	<u>Sec. 1, Lot 5</u>								

Total Federal Acreage - 26,076.90

Percentage of Unit Area Consistint of Federal Lease Acreage - 79.00%

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	New Mexico State Lease No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
STATE LANDS							
<u>T31N-R7W</u>							
<u>Section 16</u>							
24	N/2 NE/4, NE/4 NW/4, NE/4SW/4, SE/4	320	E-3150-1 12-10-49	State 12 1/2%	El Paso Natural Gas Co.	John Burroughs 5%	El Paso Natural Gas Co. - All
25	SW/4 NE/4	40	E-3707-4 7-6-50	State 12 1/2%	Phillips Pet. Co.	Charles B. Gonsales 3.5% Willard W. Moyer 1.5%	Phillips Petroleum Co. - All
26	W/2 W/2	160	E-178-1 2-13-45	State 12 1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd., 49/512 A. M. Lloyd 7/512	None	Stanolind Oil and Gas Company, et al (Footnote A)
27	SE/4 NE/4, SE/4 NW/4, SE/4 SW/4	120	E-5382 7-10-51	State 12 1/2%	The Texas Co.	None	The Texas Co.-All
28	<u>Section 32</u> <u>E/2</u>	320	E-178-1 2-13-45	State 12 1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	None	Stanolind Oil and Gas Company, et al (Footnote A)

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Revised to May 31, 1954.

Tract No.	Description	New Mexico				Record Owner of Lease or Application	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
		No. of Acres	State Lease No. and Lease Date	Land Owner Percentage of Royalty				
<u>T31N-R7W</u> <u>Section 32</u>								
29	NE/4 NW/4	40	E-3948-1 8-2-50	State 12 1/2%	Edward J. and James E. Haag	None	Edward J. and James E. Haag - All	
30	SE/4 NW/4, NE/4 SW/4	80	E-292-9 5-2-45	State 12 1/2%	Phillips Petroleum Company	Levi A. Hughes *5.0%	Phillips Petroleum Company - All	
31	Lots 1, 2 & 3	44.79	E-453-4 7-16-45	State 12 1/2%	Gulf Oil Corp.	None	Gulf Oil Corp. - All	
32	Lot 4, SE/4 SW/4	68.32	B-11125-30 3-21-44	State 12 1/2%	Northeast Blanco Development Corp. Nelson & Edward Morris, Ltd. 49/256 A. M. Lloyd 7/256	Oran G. Lewin 5% 25/32	Northeast Blanco Development Corp., et al (Footnote B)	
<u>Section 36</u>								
33	All	640.00	E-505-6 8-21-45	State 12 1/2%	J. Glenn Turner	Three States Natural Gas Company 10.9375% Squire Production Company 8.9375% K. F. Moore and W. H. Swearingen 2%	J. Glenn Turner - All	
<u>T-30N-R7W</u> <u>Section 2</u>								
34	NE/4	158.74	E-289-3 5-2-45	State 12 1/2%	Southern Petroleum Exploration, Inc.	None	Southern Petroleum Exploration, Inc. - All	

* Payable until \$500.00 per mineral acre paid out of 5% of production.

B. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 19.

Revised to May 31, 1954.

Tract No.	Description	New Mexico				Working Interest
		No of Acres	State Lease No. and Lease Date	Land Owner & Percentage of Royalty	Record Owner of Lease of Application	
<u>T30N-R7W</u>						
<u>Section 2</u>						
35	Lot 7, SE/4 NW/4	79.33	E-289-24 5-2-45	State 12 1/2%	Phillips Petroleum Company	Malco Refineries, Inc. 5.0% Phillips Petroleum Company - All
36	Lot 8, S/2, SW/4 NW/4	399.29	E-289-23 5-2-45	State 12 1/2%	Phillips Petroleum Company	Levi A. Hughes *5.0% Phillips Petroleum Company - All
37	<u>Section 16</u> <u>NE/4</u>	160.00	E-5167-2 4-9-51	State 12 1/2%	W. P. Carr	Charles B. Gonzales 5.0% W. P. Carr - All Charles B. Gonzales 25% (when development costs are paid out)
38	W/2	320.00	E-178-1 2-13-45	State 12 1/2%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	None Stanolind Oil and Gas Company, et al (Footnote A)
39	W/2 SE/4	80.00	B-10603-24 9-8-43	State 12 1/2%	Beaver Lodge Corp.	None Beaver Lodge Corp. - All
40	E/2 SE/4	80.00	B-10603-24 9-8-43	State 12 1/2%	Beaver Lodge Corp.	None Beaver Lodge Corp. - All

* Payable until \$500.00 per mineral acre paid out of 5% of production.

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Revised to May 31, 1954.

Tract No.	Description	New Mexico		Land Owner & Record Owner		Overriding Royalty Owner & Percentage	Working Interest Owner Under Option Agreement, Oper- ating Agreement or Assignment
		No. of Acres	State Lease No. and Lease Date	Percentage of Royalty	of Lease of Application		
<u>T31N-R8W</u> <u>Section 36</u>							
41	S/2 NE/4, SE/4 NW/4, 280.00 N/2 SW/4, SW/4 SE/4, NE/4 SE/4		E-3150-1 12-10-49	State 12 1/2%	El Paso Natural Gas Co.	John Burroughs 5.0%	El Paso Natural Gas Co. - All
42	S/2 SW/4	80.00	E-3707-4 7-6-50	State 12 1/2%	Phillips Petroleum Company	Charles B. Gonsales 3.5% Willard W. Moyer 1.5%	Phillips Petroleum Company - All
43	SW/4 NW/4, NW/4 SE/4	80.00	E-3707-5 7-6-50	State 12 1/2%	Phillips Petroleum Company	Charles B. Gonsales 2.0% Mrs. Lillian H. Duncan 1.5% Mrs. Ella S. Comstock 1.5%	Phillips Petroleum Company - All
44	SE/4 SE/4	40.00	E-292-9 5-2-45	State 12 1/2%	Phillips Petroleum Company	Levi A. Hughes * 5.0%	Phillips Petroleum Company - All
45	N/2 N/2	160.00	E-5382 7-10-51	State 12 1/2%	The Texas Co.	None	The Texas Co. - All

* Payable until \$500.00 per mineral acre paid out of 5% of production.

Total State Acreage - 3,750.47
Percentage of Unit Area Consisting of State Lease Acreage - 11.36%

Revised to May 31, 1954.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
<u>PATENTED LANDS</u>						
<u>T31N-R7W</u>						
46	Sec. 11, SE/4SW/4, SE/4	320.00	Brookhaven Oil Company	Phillips Petroleum Company	None	Phillips Petroleum Undivided 1/2 Interest Company
	Sec. 12, W/2SW/4		Forrest B. Miller	12-6-56		
	Sec. 14, NE/4NW/4		Harold Payne	<u>.39%</u>		
				<u>12.50%</u>		
Note: Phillips Petroleum Company owns lease covering 1/2 interest of Brookhaven Oil Company. No information is available as to disposition of Forrest B. Miller and Harold Payne interest.						
47	Sec. 1, SW/4, W/2 SE/4	320.00	Orbet R. Mullen	12-1/2% 6-15-53		
	Sec. 12, N/2NW/4					
48	Sec. 9, S/2	320.00	Paul Sidney Rea	12-1/2% 12-12-57		Stanolind Oil and Gas Company, et al (Footnote A)
49	Sec. 19, NE/4NE/4	40.00	Martin A. Pierce Southland Royalty Company	6-1/4% 11-7-57		
				6-1/4%		
50	Sec. 19, SE/4NE/4, NE/4SE/4	80.00	Horace F. McKay Jr.	12-1/2% 12-9-57		
51	Sec. 19, SE/4SE/4	80.00	James L. Tatum	3.125% 1-13-57		
	Sec. 30, NE/4NE/4		John R. Anderson	3.125%		
			John A. Pierce	3.125%		
			Paul F. Catterson	3.125%		
Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512						

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
52	<u>T31N-R7W</u> Sec. 20, W/2NW/4	80.00	Paul F. Catterson J. L. Tatum	6.25% 6.25%	11-13-57	
53	Sec. 31, West 70 Ac. * in W/2NE/4, being the West 70 Acres of the most westerly 80 Acres of Tract 51	70.00	Martin A. Pierce Southland Roy- alty Company	6-1/4% 6-1/4%	1-23-58	
54	Sec. 31, SE/4NE/4, * NE/4SE/4; 5 acres on the East side of SW/4NE/4; 5 acres on the East side of NW/4NE/4, being All of Tract 51 except the West 70 Acres of the most westerly 80 acres of Tract 51	90.00	S. M. Lucero Southland Roy- alty Company	6-1/4% 6-1/4%	11-10-57	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512
55	Sec. 30, 40 Acres in * the center of the SE/4, being North 40 acres of Tract 49	174.00	Manuel A. Lucero	12-1/2%	11-12-57	
	<u>T30N-R7W</u> Sec. 7, E/2NW/4, being the South 80 acres of * the North 120 acres of Tract 40					
	Sec. 6, NW/4SE/4, south 14 Acres of the SW/4NE/4, * being the South 54 Acres of Tract 39.					

* Refers to description by original survey, followed by description by re-survey underlined.
A. For complete description of this ownership see the working interest ownership set out
opposite Unit Tract.No. 4.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
56	<u>T31N-R7W</u> Sec. 30, 40 Acres * in the S/2SE/4, being the South 40 Acres in Tract 49	133.00	S. M. Lucero	12-1/2%	11-10-57	
	Sec. 31, NE/4NE/4, being Tract 50 * located in Sec. 31 and 32;					
	Sec. 31, SW/4SE/4, being Tract 52; * and the North 20 acres of Tract 39					
	<u>T30N-R7W</u> Sec. 6, North 13 acres of NW/4NE/4, * being the South 13 acres of the North 33 acres of Tract 39.					
57	<u>T30N-R7W</u> Sec. 6, South 27 * acres of NW/4 NE/4 and North 26 acres of SW/4NE/4, being the North 53 acres of the South 107 acres of Tract 39	53.00	George H. Joseph 1.25/53 of 12-1/2% T. G. Eggleston 1.25/53 of 12-1/2% Raymond H. Handley 2.5/53 of 12-1/2% Forrest B. Miller 48/53 of 12-1/2% Manuel A. Lucero	11-10-57	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	None Stanolind Oil and Gas Company, et al (Footnote A)
58	Sec. 7, Lots 10 * and 11	21.39		12-1/2%	11-17-57	

* Refers to description by original survey, followed by description by re-survey underlined.
A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
59	<u>T 30N-R7W</u> Sec. 7, S/2NE/4 *SW/4, being the South 20 acres of Tract 40.	140.00	Southland Royalty Company M. L. Faverino, Louisa Beck and A. G. McCoy	6-1/4% 11-17-57		
	Sec. 7, East 80 acres of and 8 Tract 41					
	* Sec. 8, North 40 acres of Tract 42					
60	Sec. 7, N/2SE/4 * SW/4, being North 20 acres of the South 40 acres of Tract 40	140.00	M. L. Faverino, Louisa Beck and A. G. McCoy	12-1/2% 11-10-57	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	None Stanolind Oil and Gas Company, et al (Footnote A)
	Sec. 7, 80 acres in West and 18, part of Tract 41					
	* Sec. 8, SW/4SW/4, being and 17, part of Tract 42					
61	Sec. 17, S/2NW/4, * N/2SW/4, being Tracts 43 and 44	160.00	United States Smelting, Refining and Mining Company 31/32 of 12-1/2% George H. Joseph 1/160 of and Kathleen A. 12-1/2% Joseph T. G. Eggleston 1/160 of and Volana G. 12-1/2% Eggleston Raymond H. Handley 3/160 of 12-1/2%	11-12-57		

*Refers to description by original survey, followed by description by re-survey underlined.

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
62	<u>T30N-R7W</u> Sec. 17, NW/4NW/4 Sec. 18, NE/4NE/4, * being part of <u>Tract 42</u>	80.00	M. L. Faverino, 12-1/2% Louisa Beck and A. G. McCoy	11-10-57		
63	Sec. 18 and 17, S/2SE/4, *NW/4SE/4, being part of <u>Tract 45</u>	120.00	Saul A. Yager 3-1/8% Marian Yager 3-1/8% M. Mizel et al 3-1/8% M. E. Gimp 3-1/8%	9-1-53		
64	Sec. 19, W/2NE/4, *being part of <u>Tract 46</u>	80.00	United States Smelting Refining and Mining Company-15/16 of 12-1/2% Raymond H. Handley 3/80 of 12-1/2% T. G. Eggleston and Velena G. Eggleston -1/80 of 12-1/2% George H. Joseph and Kathleen H. Joseph -1/80 of 12-1/2%	11-10-57	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512	Stanolind Oil and Gas Company, et al (Footnote A)
65	Sec. 19 and 20, NE/4NE/4, *being part of <u>Tract 45</u>	40.00	Saul A. Yager 3-1/8% Marian Yager 3-1/8% M. Mizel, et al 3-1/8% M. E. Gimp 3-1/8%	9-1-53		

* Refers to description by original survey, followed by description by re-survey underlined.

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
66	<u>T30N-R7W</u> Sec. 4, E/2SW/4	80.00	Myron G. Noland and Lorita G. Noland	Northeast Blanco Development Corp. 25/32 Nelson & Edward Morris, Ltd. 49/256 A. M. Lloyd 7/256 6-16-56	None	Northeast Blanco Development Corp., et al (Footnote B)
67	Sec. 4, W/2SW/4	80.00	Saul A. Yager Marian Yager M. Mizel M. E. Gimp 1/4 1/4 1/4	Unleased		
68	Sec. 6, SE/4SW/4, * being the North <u>40 acres of Tract 40</u>	40.00	H. B. Sammons 1/2 of 12-1/2% C. C. Culpepper 1/2 of 12-1/2%	Stanolind Oil and Gas Company 1/2 F. G. Blackwood 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512 4-14-58	None	Stanolind Oil and Gas Company, et al (Footnote A)
69	<u>T30N-R8W</u> Sec. 13, The East 18.85 acres of the NE/4	18.85	Martin A. Pierce Southland Royalty Company 6-1/4%	Stanolind Oil and Gas Company 1/2 Northeast Blanco Development Corp. 25/64 Nelson & Edward Morris, Ltd. 49/512 A. M. Lloyd 7/512 12-15-57	None	Stanolind Oil and Gas Company, et al (Footnote A)

* Refers to description by original survey, followed by description by re-survey underlined.

A. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 4.

B. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 19.

Revised to May 31, 1954.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Working Interest	
				Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage

70	T 30N-R8W Sec. 13, The west 65.55 acres of the NE/4, NE/4SE/4 except the West 100 ft. thereof and except 2 acres in the SW corner thereof and East 20 acres of the NW/4SE/4	120.15	Simon Velasquez M. L. Faverino, Louisa Beck and A. G. McCoy	6-1/4%	Stanolind Oil and Gas Company 1/2 None Northeast Blanco Development Corp. 25/64 Nelson & Edwards Morris, Ltd. 49/512 A. M. Lloyd 11-17-57 7/512	(Footnote A)
				6-1/4%		
				6-1/4%		
71	Sec. 13, 3.4 acres out of W/2NW4/SE/4 and the west 100 ft. of NE/4SE/4	6.80	Manuel E. Martinez	Unleased		
72	Sec. 13, 2 acres in SW corner of NE/4SE/4	2.00	Tonita Martinez	Unleased		
73	Sec. 13, East 14.45 acres of W/2NE/4, West 61.15 acres of E/2NE/4	75.60	Edward V. Long & Florence S. Long, his wife	Phillips Petroleum Company 11-1-56	None	Phillips Petroleum Company All
74	Sec. 13, N/2NW/4, SE/4NW/4, NE/4SW/4 (continued next page)	155.60	Elvin Lewis & wife, Lorene Lewis Charles W. Mc- Carty T. H. McElvain, Jr. & Catherine Frances McElvain 3.125% 3.125% 12.500%	Phillips Petroleum Company 4-17-61	None	Phillips Petroleum Company All

A. For a complete description of this ownership see the working interest ownership set out opposite Unite Tract No. 4.

Tract No.	Description	No. of Acres	Land Owner & Percentage of Royalty	Record Owner of Lease and Expiration Date	Overriding Royalty Owner & Percentage	Working Interest Owner under Option Agreement, Operating Agreement or Assignment
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74 T 30N-R8W
(continued)

Except

(1) a certain piece of land situate at a place called Los Martinez in Largo Precinct, inclosed in Homestead Certificate No. 1125 given by the United States Government to Felipe Santiago Martin February 25, 1885, said homestead certificate including the above described land, said piece of land being described as follows: BEGINNING at the Southwest corner (a) going North following Western line to a point (b) 300 yards, from B in an Easterly direction, measure 80 yards to a point (c) from point C running South 70 yards, thence running east 70 yards, then North 70 yards, thence West back to point C 70 yards, on which tract is built a chapel dedicated to "Our Lady of Guadalupe", together with right of way to and from public road from Blanco to Pine View;

(2) All that part of the Northwest Quarter (NW/4) of the Northwest Quarter (NW/4) of said Section 13 lying, being and situated West of the Molino Arroyo.

	As to Exception										
	#(1) above	1.00	Most Reverend Bernard T. Espelage, Bishop of Gallup	12.5%	Phillips Petroleum Company	10-6-62	None	Phillips Petroleum Company	All		
75	Sec. 12, SW/4SW/4	60.00	M. J. Florance	12.5%	Delhi Oil Corp.	8-17-57	M. J. Florance 1/5 of 7/8	El Paso Natural Gas Company and Delhi Oil Corp. (Footnote C)			
	Sec. 13, that part of NW/4NW/4 lying West of the Molino Arroyo.										

Total Patented Acreage - 3,181.39
Percentage of Unit Area Consisting of Patented Lease Acreage - 9.64%

C. For complete description of this ownership see the working interest ownership set out opposite Unit Tract No. 6-A.

Blackwood & Nichols Company

2013 FIRST NATIONAL CENTER • OKLAHOMA CITY, OKLAHOMA 73102

December 31, 1975

The Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

(6)

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

(2)

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

(2)

RE: NORTHEAST BLANCO UNIT
No. 1, Sec. 929
San Juan and Rio Arriba
Counties, New Mexico



Gentlemen:

In accordance with the terms of that certain Unit Agreement for the Development and Operation of the Northeast Blanco Unit Area No. 1, Sec. 929, we enclose copies of Exhibit "B" revised as of October 31, 1975.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

C. Bowles
Land Department

CB:p
Encls

EXHIBIT "B"
REVISED OCTOBER 31, 1975

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS
IN ALL LANDS IN THE NORTHEAST BLANCO UNIT AGREEMENT

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>FEDERAL LANDS</u>							
1-A	<u>T30N R8W</u> Sec. 1: W 1/2 Sec. 12: NW 1/4, E 1/2 SW 1/4 NW 1/4 NW 1/4	603.30		USA 12-1/2%	Ben R. Howell	1%	El Paso Natural Gas Company - ALL
1-B	<u>T30N R8W</u> Sec. 1: E 1/2 Sec. 12: E 1/2	641.10	078581-A 10/1/49	USA 12-1/2%	P. M. McCulley	18-1/2%	Tenneco and Continental - ALL
2-A	<u>T30N R8W</u> Sec. 24: W 1/2	320.00	078615 3/1/48	USA 12-1/2%	Ben R. Howell Paul B. Horton	1%	El Paso Natural Gas Company - ALL
2-B	<u>T30N R8W</u> Sec. 24: E 1/2	320.00	078615-A 3/1/48	USA 12-1/2%	P. M. McCulley Paul B. Horton	18-1/2%	Tenneco and Continental - ALL
3	<u>T30N R8W</u> Sec. 13: S 1/2 SE 1/4	80.00	NM 014226 1/1/54	USA 12-1/2%	Phillips Drilling Corporation	None	H. H. Phillips Ruth Phillips Bisiker Castle, Inc. Winnie A. Phillips H. H. Phillips, Jr. Jane Phillips Ladoucer Susanna Phillips Kelly
TOTAL ALL RIGHTS							875/2240 525/2240 500/2240 100/2240 80/2240 80/2240 80/2240 2240/2240

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
							OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

-4	<u>T3IN R6W</u>	N 1/2	320.00	078970 2/1/48	USA 12-1/2%	Amoco Production Company, et al	None	<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 18							

Amoco Production Company 1/2
 Blackwood & Nichols
 Co., Ltd. 86.485606% of 25/64
 Westland Oil Development
 Corporation 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N.
 Mills, Trustees .728417% of 25/64
 El Paso Natural Gas Company 7/64 SUBJEC
 to gas payment from these and other
 lands in total amount of \$1,100,000
 payable to -
 Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this
 interest (net of royalties and other
 burdens) from Mesaverde formation only
 out of
 3-1/2c per MCF for first 10 years
 4-1/2c per MCF thereafter and subject
 to suspension and conversion. All as
 is more specifically provided in
 "Assignment Affecting Record Title To
 Oil and Gas Lease" executed by said
 parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
 Blackwood & Nichols Co.,
 Ltd. Same as described above
 Westland Oil Development
 Corporation - Same as described above
 Thayer H. Laurie - Same as described
 above
 Thayer H. Laurie & David N. Mills,
 Trustees - Same as described above
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT, OR ASSIGNMENT
5	T31N R6W						RIGHTS IN MESAVERDE FORMATION ONLY Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2% per MCF for first 10 years 4-1/2% per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
	Sec. 6:	S 1/2	2,560.00	078988	USA 12-1/2%	Amoco Production Company, et al	
	Sec. 7:	All		7/1/48			
	Sec. 18:	S 1/2					
	Sec. 19:	All					
	Sec. 20:	All					
ALL RIGHTS OTHER THAN MESAVERDE FORMATION							
Amoco Production Company 1/2							
Blackwood & Nichols Co., Ltd. Same as described above							
Westland Oil Development Corporation - Same as described above							
Thayer H. Laurie - Same as described above							
Thayer H. Laurie & David N. Mills, Trustees - Same as described above							
Morris & Burk, Ltd. 49/512							
A. M. Lloyd 7/512							

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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6-A

T30N R7W

Sec. 3: Lots 5,6, 638.75 079001 USA 12-1/2% C. C. Peters 21%

S 1/2 NE 1/4, 11/1/49

SE 1/4

Sec. 10: W 1/2

GAS RIGHTS DOWN TO AND INCLUDING THE
MESAVERDE FORMATION

EL PASO NATURAL GAS COMPANY - ALL
subject to overriding royalty, subject
to suspension and conversion, to
Tenneco and Continental (formerly
Delhi-Taylor Oil Corporation) of
33-1/3% of liquid hydrocarbons to
Assignor's interest and on gas pro-
duced and saved to Assignor's interest -
5-1/2¢ per MCF for first 3-1/3 years,
6-1/2¢ per MCF for next 3-1/3 years,
7-1/2¢ per MCF for next 3-1/3 years,
not less than 8¢ per MCF for next
one year,
not less than 9¢ per MCF for next
one year,
not less than 10¢ per MCF thereafter,
all as specifically provided by that
certain Assignment of Operating
Agreement between the above parties
dated March 1, 1952.

GAS RIGHTS BELOW THE MESAVERDE FORMATION
AND ALL OIL RIGHTS

TENNECO OIL COMPANY	1/2
CONTINENTAL OIL COMPANY	1/2

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
6-B	<u>T30N R7W</u>						
	Sec. 3: Lots, 7, 8, 639.13 S 1/2 NW 1/4, SW 1/4		079001-A 11/1/49	USA 12-1/2%	Ben R. Howell	3-1/2%	<u>TO THE BASE OF THE MESAVERDE FORMATION</u>
	Sec. 10: E 1/2						El Paso Natural Gas Company - ALL

BELOW THE BASE OF THE MESAVERDE FORMATION

Koch Oil Company	87.5%
Reserve Oil Company	12.5%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
7	<u>T31N R7W</u>						<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 22: A11	2,560.00	079003	USA 12-1/2%	Amoco Production Company, et al	2-1/2%	Amoco Production Company 1/2
	Sec. 27: A11		7/1/48				Blackwood & Nichols
	Sec. 34: A11						Co., Ltd. 86.485606% of 25/64
	Sec. 35: A11						Westland Oil Development Corporation 11.582241% of 25/64
							Thayer H. Laurie 1.203736% of 25/64
							Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
							E1 Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to -
							Nelson & Edward Morris, Ltd. 7/8
							A. M. Lloyd 1/8
							Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
							3-1/2¢ per MCF for first 10 years
							4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
							<u>ALL RIGHTS OTHER THAN MESAVERDE FORMATION</u>
							Amoco Production Company 1/2
							Blackwood & Nichols Co., Ltd. Same as described above
							Westland Oil Development Corporation - Same as described above
							Thayer H. Laurie - Same as described above
							Thayer H. Laurie & David N. Mills, Trustees - Same as described above
							Morris & Burk, Ltd. 49/512
							A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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8-A	T31N R7W						RIGHTS IN MESAVERDE FORMATION ONLY
Sec. 25:	NE 1/4, 520.00	079010	USA 12-1/2%	Amoco Production Company et al	2-1/2%		Amoco Production Company 1/2
	SE 1/4 NW 1/4, 7/1/48						Blackwood & Nichols Co., Ltd. 86.485606% of 25/64
	S 1/2						Westland Oil Development Corporation 11.582241% of 25/64

							Thayer H. Laurie 1.203736% of 25/64
							Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
							El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to -
							Nelson & Edward Morris, Ltd. 7/8
							A. M. Lloyd 1/8
							Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
							3-1/2c per MCF for first 10 years
							4-1/2c per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

							ALL RIGHTS OTHER THAN MESAVERDE FORMATION
							Amoco Production Company 1/2
							Blackwood & Nichols Co., Ltd. Same as described above
							Westland Oil Development Corporation - Same as described above
							Thayer H. Laurie - Same as described above
							Thayer H. Laurie & David N. Mills, Trustees - Same as described above
							Morris & Burk, Ltd. 49/512
							A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
							OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

8-B T31N R7W

Sec. 23:	All	2,040.00	079010	USA 12-1/2%	Amoco Production Company et al	2-1/2%	
Sec. 24:	All		7/1/48				
Sec. 25:	N 1/2 NW 1/4, SW 1/4 NW 1/4						
Sec. 26:	All						

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols
Co., Ltd. 86.485606% of 25/64
Westland Oil Development
Corporation 11.582241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N.
Mills, Trustees .728417% of 25/64
El Paso Natural Gas Company 7/64 SUBJEC
to gas payment from these and other
lands in total amount of \$1,100,000
payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject
to suspension and conversion. All as
is more specifically provided in
"Assignment Affecting Record Title To
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
9	T30N R7W						RIGHTS IN MESAVERDE FORMATION ONLY
Sec. 5:	All	1,779.91	079042	USA 12-1/2%	Amoco Production Company et al	2-1/2%	Amoco Production Company 1/2
Sec. 6:	Lots 8,9, 10,11,12, 13,14,15, 16,17,18, 19,20,21, SE 1/4 NW 1/4, NE 1/4 SW 1/4		5/1/51				Blackwood & Nichols Co., Ltd. 86.485606% of 25/64
Sec. 7:	Lots 5,6,7,8,9, 12,13,14,15,16 E 1/2 NE 1/4						Westland Oil Development Corporation 11.582241% of 25/64
Sec. 8:	Lots 1,2,3, E 1/2 NW 1/4						Thayer H. Laurie 1.203736% of 25/64
							Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
							E1 Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to -
							Nelson & Edward Morris, Ltd. 7/8
							A. M. Lloyd 1/8
							Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
							3-1/2¢ per MCF for first 10 years
							4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development Corporation - Same as described above
Thayer H. Laurie - Same as described above
Thayer H. Laurie & David N. Mills, Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
10-	<u>T3IN R7W</u>						
	Sec. 28: All	2,314.56	079043	USA 12-1/2%	Amoco Production Company et al	2-1/2%	<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 31: Lots 6,9, 10,13		4/1/51				Amoco Production Company - 1/2
	Sec. 33: All						Blackwood & Nichols Co., Ltd. 86.485606% of 25/64
	<u>T3ON R7W</u>						Westland Oil Development Corporation 11.582241% of 25/64
	Sec. 4: Lots 5,6, 7,8						Thayer H. Laurie 1.203736% of 25/64
							Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
	Sec. 9: N 1/2, SE 1/4, W 1/2 SW 1/4						E1 Paso Natural Gas Company 7/64

SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8

Payable from gas produced to this interest (net of royalties and other Burdens) from Mesaverde formation only out of

3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title to Oil and Gas Lease" executed by said parties as of January 1, 1954.

DAKOTA RIGHTS AS TO
Sec. 28: ALL
Sec. 33: ALL
AMOCO PRODUCTION COMPANY - ALL, Subject to 1/8 of 8/8 overriding royalty interest which shall be reduced by all other overriding royalties,

Continued next page

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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Tract 10 Continued

reserved unto:
 Blackwood & Nichols Co., Ltd.
 Westland Oil Development Corporation
 Thayer H. Laurie
 Thayer H. Laurie & David N. Mills,
 Trustees
 of their respective interests as last
 set out above.
 And of:

Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

ALL RIGHTS OTHER THAN MESAVERDE AS TO:

T31N R7W

Sec. 31: Lots 6,9,10,13

T30N R7W

Sec. 4: Lots 5,6,7,8, S 1/2 N 1/2,
 SE 1/4

Sec. 9: N 1/2, W 1/2 SW 1/4

Amoco Production Company 1/2
 Blackwood & Nichols Co.,
 Co., Ltd. 86.485606% of 25/64
 Westland Oil Development Cor-
 poration 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N. Mills,
 Trustees .728417% of 25/64
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
11	<u>T31N R7W</u>						
Sec. 20:	E 1/2, 2,056.12 E 1/2 W 1/2, W 1/2 SW 1/4		079045 4/1/51	USA 12-1/2%	Amoco Production Company et al	2-1/2%	<u>RIGHTS IN MESAVERDE FORMATION ONLY</u> Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
Sec. 21:	ALL						
Sec. 29:	ALL						
Sec. 30:	Lots 7,8,11,12, W 1/2 NE 1/4, SE 1/4 NE 1/4						

E1 Paso Natural Gas Company 7/64
SUBJECT to gas payment from these and
other lands in total amount of
\$1,100,000 payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (Net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and
subject to suspension and conversion.
All as is more specifically provided in
"Assignment Affecting Record Title to
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

DAKOTA RIGHTS AS TO
Sec. 20: E 1/2, E 1/2 W 1/2, W 1/2 SW/4
(560 acres)
Sec. 29: ALL
AMOCO PRODUCTION COMPANY - ALL - Subject
to 1/8 of 8/8 overriding royalty
interest which shall be reduced by
all other overriding royalties,

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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11 Continued

reserved unto:
 Blackwood & Nichols Co., Ltd.
 Westland Oil Development Corporation
 Thayer H. Laurie
 Thayer H. Laurie & David N. Mills,
 Trustees
 of their respective interests as last
 set out above.
 And of:
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

ALL RIGHTS OTHER THAN MESAVERDE AS TO:

T31N R7W
 Sec. 21: ALL
 Sec. 30: Lots 7,8,11,12, W 1/2 NE 1/4,
 SE 1/4 NE 1/4

Amoco Production Company 1/2
 Blackwood & Nichols Co.;
 Ltd. 86.485606% of 25/64
 Westland Oil Development Cor-
 poration 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N. Mills,
 Trustees .728417% of 25/64
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
12	<u>T30 R7W</u>						
	Sec. 19: Lots 12, 13 E 1/2 SW 1/4	103.60	079053 10/1/49	USA 12-1/2%	Northwest Pipeline Corporation	5%	
							<u>TO THE BASE OF THE MESAVEERDE FORMATION</u>
							Northwest Pipeline Corporation - All
							<u>BELOW THE BASE OF THE MESAVEERDE FORMATION</u>
							Phillips Petroleum Company - All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
13	<u>T30N R7W</u>						<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
Sec. 9:	SE 1/4, E 1/2 SW 1/4	2,236.44	079060 9/1/48	USA 12-1/2%	Amoco Production Company et al	2-1/2%	Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
Sec. 17:	N 1/2 NE 1/4, SE 1/4 NE 1/4, E 1/2 SE 1/4						
Sec. 19:	lots 10, 11, S 1/2 SE 1/4						
Sec. 20:	NE 1/4, E 1/2 NW 1/4, S 1/2						
Sec. 21:	ALL						
Sec. 22:	W 1/2 NW 1/4, NW 1/4 SW 1/4						
Sec. 29:	N 1/2						

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co., Ltd. Same as described above
Westland Oil Development Corporation - Same as described above
Thayer H. Laurie - Same as described above
above
Thayer H. Laurie & David N. Mills, Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
							OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

14	<u>T30N R7W</u>						<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 18:	Lots 5,6, 7,8,9,10, 11,12,13, 14 E 1/2 W 1/2	371.07	079073 4/1/51	USA 12-1/2% Amoco Production Company et al	2-1/2%	Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJEC to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8

Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of

3-1/2¢ per MCF for first 10 years

4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2

Blackwood & Nichols Co., Ltd. Same as described above

Westland Oil Development Corporation - Same as described above

Thayer H. Laurie - Same as described above

Thayer H. Laurie & David N. Mills, Trustees - Same as described above

Morris & Burk, Ltd. 49/512

A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
15	<u>T30N R7W</u>						
	* Sec. 17: Lots 6, 7, 8	133.12	NM 013706 A 5/1/51	12-1/2%	Northwest Pipeline Corporation	None	* As To Sections 17 and 20 - <u>TO THE BASE OF THE MESAUERDE FORMATION</u>
	* Sec. 20: Lots 1, 2						Northwest Pipeline Corporation - ALL
	* COMMITTED						* <u>BELOW THE BASE OF THE MESAUERDE FORMATION</u>
							T. H. McElvain Oil & Gas - ALL
	** Sec. 22: SW 1/4 SW/4	40.00	Same	12-1/2%	T. H. McElvain	None	** T. H. McElvain - ALL
	** NOT COMMITTED						

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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16-A	<u>T31N R7W</u>						<u>RIGHTS IN MESAVEERDE FORMATION ONLY</u> Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
	Sec. 19:	Lots 5,6, 7,8	1,022.45	079082 4/1/51	USA 12-1/2%	Amoco Production Company et al	
	Sec. 30:	Lots 5,6, 9, 10,					
	Sec. 31:	E 1/2 W 1/2 Lots 5,7,8, 11,12,14, E 1/2 W 1/2					
	<u>T31N R8W</u>						
	Sec. 25:	N 1/2, SW 1/4					
	<u>T30N R7W</u>						
	Sec. 17:	Lots 1,3,4					
	Sec. 18:	SW 1/4 NE 1/4					

<u>ALL RIGHTS OTHER THAN MESAVEERDE FORMATION</u>							
Amoco Production Company				1/2			
Blackwood & Nichols Co., Ltd. Same as described above							
Westland Oil Development Corporation - Same as described above							
Thayer H. Laurie - Same as described above							
Thayer H. Laurie & David N. Mills, Trustees - Same as described above							
Morris & Burk, Ltd.				49/512			
A. M. Lloyd				7/512			

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
16-B	<u>T-31N R8W</u>	211.62	079082-A 4/1/51	USA 12-1-1/2%	Northwest Pipeline Corporation	5%	TO THE BASE OF THE MESAVERDE FORMATION Northwest Pipeline Corporation - ALL BELOW THE BASE OF THE MESAVERDE FORMATION
	Sec. 25: SE 1/4						
	<u>T30N R7W</u> Sec. 17: Lots 2,5						

Phillips Petroleum Company - ALL

17	<u>T30N R8W</u>	160.00	079511 9/1/49	USA 12-1-1/2%	Ben R. Howell	3%	TO THE BASE OF THE MESAVERDE FORMATION El Paso Natural Gas Company - ALL BELOW THE BASE OF THE MESAVERDE FORMATION
	Sec. 13: SW 1/4 NW 1/4, W 1/2 SW 1/4,						
	SE 1/4 SW 1/4						

Koch Oil Company 7/8
Reserve Oil & Gas 1/8

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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18	<u>T31N R7W</u>						<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 19: W 1/2 E 1/2, E 1/2 W 1/2	320.00	080557 9/1/48	USA 12-1/2%	Amoco Production Company et al	2-1/2%	Amoco Production Company 1/2

Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION
 Amoco Production Company 1/2
 Blackwood & Nichols Co., Ltd. Same as described above
 Westland Oil Development Corporation - Same as described above
 Thayer H. Laurie - Same as described above
 Thayer H. Laurie & David N. Mills, Trustees - Same as described above
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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19	<u>T31N R7W</u>						
	Sec. 14: W 1/2 W 1/2, SE 1/4 NW 1/4						
	Sec. 15: ALL	840.00	NM 03356 4/1/48	USA 12-1/2%	Blackwood & Nichols Co., Ltd., et al	5%	

RIGHTS IN MESAVERDE FORMATION ONLY

Blackwood & Nichols Co.,
 Ltd. 86.485606% of 25/32
 Westland Oil Development Corporation 11.582241% of 25/32
 Thayer H. Laurie 1.203736% of 25/32
 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/32
 EL PASO NATURAL GAS COMPANY 7/32 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Blackwood & Nichols Co.,
 Ltd. Same as described above.
 Westland Oil Development Corporation - Same as described above.
 Thayer H. Laurie - Same as described above.
 Thayer H. Laurie and David N. Mills, Trustees - Same as described above
 Morris & Burk, Ltd. 49/256
 A. M. Lloyd 7/256

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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20	<u>T31N R6W</u>						
	Sec. 30: ALL	640.00	NM 03357 2/1/49	USA 12-1/2%	Blackwood & Nichols Co., Ltd., et al	5%	

RIGHTS IN MESAVERDE FORMATION ONLY

Blackwood & Nichols Co.,
 Ltd. 86.485606% of 25/32
 Westland Oil Development Cor-
 poration 11.582241% of 25/32
 Thayer H. Laurie 1.203736% of 25/32
 Thayer H. Laurie & David N. Mills,
 Trustees .728417% of 25/32
 EL PASO NATURAL GAS COMPANY 7/32 SUBJECT
 to gas payment from these and other lands
 in total amount of \$1,100,000 payable to
 Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this
 interest (net of royalties and other
 burdens) from Mesaverde formation
 only out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject
 to suspension and conversion. All as
 is more specifically provided in
 "Assignment Affecting Record Title To
 Oil and Gas Lease" executed by said
 parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Blackwood & Nichols Co.,
 Ltd. Same as described above.
 Westland Oil Development Cor-
 poration - Same as described above.
 Thayer H. Laurie - Same as described
 above.
 Thayer H. Laurie and David N. Mills,
 Trustees - Same as described above
 Morris & Burk, Ltd. 49/256
 A. M. Lloyd 7/256

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE		LAND OWNER AND PERCENTAGE OF ROYALTY		RECORD OWNER OF LEASE OR APPLICATION		PERCENTAGE OF OVERRIDING ROYALTY		WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT	
21-A	<u>T31N R7W</u>											
	Sec. 1: Lots 6, 7, 8, E 1/2 SE 1/4	2,396.77	NM 03358 8/1/48		USA 12-1/2%		Blackwood & Nichols Co., Ltd., et al		5%			
	Sec. 10: S 1/2											
	Sec. 11: N 1/2, N 1/2 SW 1/4, SW 14 SW 1/4											
	Sec. 12: E 1/2, S 1/2 NW 1/4, E 1/2 SW 1/4											
	Sec. 13: ALL											
	Sec. 14: E 1/2, E 1/2 SW 1/4											

RIGHTS IN MESAVEVERDE FORMATION ONLY

Blackwood & Nichols Co.,
 Ltd. 86.485606% of 25/32
 Westland Oil Development Corporation 11.582241% of 25/32
 Thayer H. Laurie 1.203736% of 25/32
 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/32
 EL PASO NATURAL GAS COMPANY 7/32 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVEVERDE FORMATION

Blackwood & Nichols Co.,
 Ltd. Same as described above.
 Westland Oil Development Corporation - Same as described above.
 Thayer H. Laurie - Same as described above.
 Thayer H. Laurie and David N. Mills, Trustees - Same as described above
 Morris & Burk, Ltd. 49/256
 A. M. Lloyd 7/256

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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21-B

T31N R6W

Sec. 6: Lots 8,9, 10,11

31.89

NM 05058 1/1/51

USA 12-1/2%

Blackwood & Nichols Co., Ltd., et al

None

RIGHTS IN MESAVERDE FORMATION ONLY

Blackwood & Nichols Co.,
 Ltd. 86.485606% of 25/32
 Westland Oil Development Corporation 11.582241% of 25/32
 Thayer H. Laurie 1.203736% of 25/32
 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/32
 EL PASO NATURAL GAS COMPANY 7/32 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Blackwood & Nichols Co.,
 Ltd. Same as described above.
 Westland Oil Development Corporation - Same as described above.
 Thayer H. Laurie - Same as described above.
 Thayer H. Laurie and David N. Mills, Trustees - Same as described above
 Morris & Burk, Ltd. 49/256
 A. M. Lloyd 7/256

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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22	<u>T30N R7W</u>						<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 19: Lots 5, 6, 7, 8, 9, E 1/2 NW 1/4	166.76	NM 03845 8/1/52	USA 12-1/2%	Amoco Production Company et al	None	Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8

Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

<u>ALL RIGHTS OTHER THAN MESAVERDE FORMATION</u>	
Amoco Production Company	1/2
Blackwood & Nichols Co.,	
Ltd. Same as described above	
Westland Oil Development Corporation - Same as described above	
Thayer H. Laurie - Same as described above	
Thayer H. Laurie & David N. Mills, Trustees - Same as described above	
Morris & Burk, Ltd.	49/512
A. M. Lloyd	7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	SANTA FE SERIAL NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
23	<u>T31N R7W</u>						
	Sec. 1: Lot 5	10.31	NM 04417 2/1/52	USA 12-1/2%	Earl M. Cranston	None	Earl M. Cranston - ALL (NOT COMMITTED)
NOT COMMITTED							
TOTAL FEDERAL ACREAGE		26,076.90					
PERCENT OF UNIT AREA		79.00					

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
24	<u>T31N R7W</u>						
	Sec. 16: N 1/2 NE 1/4, 320.00 NE 1/4 NW 1/4, NE 1/4 SW 1/4, SE 1/4		E 3150-1 12/10/49	State 12-1/2%	El Paso Natural Gas Company	5%	EL PASO NATURAL GAS COMPANY - ALL
25	<u>T31N R7W</u>						
	Sec. 16: SW 1/4 NE 1/4 40.00		E 3707-4 7/6/50	State 12-1/2%	Northwest Pipeline Corporation	5%	TO THE BASE OF THE MESAVARDE FORMATION Northwest Pipeline Corporation - ALL BELOW THE BASE OF THE MESAVARDE FORMATION Phillips Petroleum Company - ALL

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
							OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

STATE LANDS

26	<u>T31N R7W</u>						
	Sec. 16: W 1/2 W 1/2	160.00	E 178-1 2/13/45	State 12-1/2%	Amoco Production Company et al	None	

RIGHTS IN MESAVEERDE FORMATION ONLY

Amoco Production Company 1/2
 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64
 Westland Oil Development Corporation 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
 El Paso Natural Gas Company 7/64 SUBJECT to Gas payment from these and other lands in total amount of \$1,100,000 payable to -
 Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVEERDE FORMATION

Amoco Production Company 1/2
 Blackwood & Nichols Co., Ltd. Same as described above
 Westland Oil Development Corporation - Same as described above
 Thayer H. Laurie - Same as described above
 Thayer H. Laurie & David N. Mills, Trustees - Same as described above
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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STATE LANDS

27 T31N R7W

Sec. 16: SE 1/4 NE 1/4, 120.00 E 5382 State 12-1/2% Texaco, Inc. None TEXACO, INC. ALL
SE 1/4 NW 1/4, 7/10/51
SE 1/4 SW 1/4

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO		LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
			STATE LEASE NO.	AND LEASE DATE				

STATE LANDS

28 T31N R7W

Sec. 32: E 1/2 320.00 E 178-1 2/13/45 State 12-1/2% Amoco Production Company et al None

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
 Blackwood & Nichols
 Co., Ltd. 86.485606% of 25/64
 Westland Oil Development
 Corporation 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N.
 Mills, Trustees .728417% of 25/64
 El Paso Natural Gas Company 7/64 SUBJECT
 to gas payment from these and other
 lands in total amount of \$1,100,000
 payable to -
 Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this
 interest (net of royalties and other
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 out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject
 to suspension and conversion. All as
 is more specifically provided in
 "Assignment Affecting Record Title To
 Oil and Gas Lease" executed by said
 parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
 Blackwood & Nichols Co.,
 Ltd. Same as described above
 Westland Oil Development
 Corporation - Same as described above
 Thayer H. Laurie - Same as described
 above
 Thayer H. Laurie & David N. Mills,
 Trustees - Same as described above
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
29	<u>T31N R7W</u>						
	Sec. 32: NE 1/4 NW 1/4	40.00	E 3948-1 8/2/50	State 12-1/2%	Jacquelyn M. Williams	12-1/2%	JACQUELYN M. WILLIAMS - ALL

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
30	<u>T31N R7W</u>						
	Sec. 32: SE 1/4 NW 1/4, NE 1/4 SW 1/4	80.00	E 292-9 5/2/45	State 12-1/2%	Northwest Pipeline Corporation	5%	<u>TO THE BASE OF THE MESAVERDE FORMATION</u> Northwest Pipeline Corporation - ALL <u>BELOW THE BASE OF THE MESAVERDE FORMATION</u> Phillips Petroleum Company - ALL

31	<u>T31N R7W</u>						
	Sec. 32: Lots 1, 2,3	44.79	E 453-4 7/16/45	State 12-1/2%	Jacquelyn M. Williams	12-1/2%	JACQUELYN M. WILLIAMS - ALL

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

STATE LANDS

32 T31N R7W

Sec. 32: Lot 4, SE 1/4 SW 1/4 68.32 B-11125-30 3/21/44 State 12-1/2% Blackwood & Nichols Co., Ltd. et al 5%

RIGHTS IN MESAVERDE FORMATION ONLY

Blackwood & Nichols Co.,
 Ltd. 86.485606% of 25/32
 Westland Oil Development Corporation 11.582241% of 25/32
 Thayer H. Laurie 1.203736% of 25/32
 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/32
 EL PASO NATURAL GAS COMPANY 7/32 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Blackwood & Nichols Co.,
 Ltd. Same as described above.
 Westland Oil Development Corporation - Same as described above.
 Thayer H. Laurie - Same as described above.
 Thayer H. Laurie and David N. Mills, Trustees - Same as described above
 Morris & Burk, Ltd. 49/256
 A. M. Lloyd 7/256

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
33	<u>T31N R7W</u>						
	Sec. 36: ALL	640.00	E 505-6 8/21/45	State 12-1/2%	El Paso Natural Gas Company	21.875%	<u>GAS TO THE BASE OF MESAVERDE FORMATION</u> El Paso Natural Gas Company - ALL
							<u>GAS BELOW BASE OF MESAVERDE FORMATION AND OIL ALL DEPTHS</u> Estate of J. Glenn Turner - ALL
34	<u>T30N R7W</u>						
	Sec. 2: NE 1/4	158.74	E 289-3 5/2/45	State 12-1/2%	The Wiser Oil Company	None	THE WISER OIL COMPANY - ALL
35	<u>T30N R7W</u>						
	Sec. 2: Lot 7, SE 1/4 NW 1/4	79.33	E 289-24 5/2/45	State 12-1/2%	Northwest Pipeline Corporation	5%	<u>TO THE BASE OF THE MESAVERDE FORMATION</u> Northwest Pipeline Corporation - ALL
							<u>BELOW THE BASE OF THE MESAVERDE FORMATION</u> Phillips Petroleum Company - ALL
36	<u>T30N R7W</u>						
	Sec. 2: Lot 8, S 1/2, SW 1/4 NW 1/4	399.29	E 289-23 5/2/45	State 12-1/2%	Northwest Pipeline Corporation	5%	<u>TO THE BASE OF THE MESAVERDE FORMATION</u> Northwest Pipeline Corporation - ALL
							<u>BELOW THE BASE OF THE MESAVERDE FORMATION</u> Phillips Petroleum Company - ALL

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
37	<u>T30N R7W</u>						
	Sec. 16: NE 1/4	160.00	E 5167-2 4/9/51	State 12-1/2%	W. P. Carr	5%	W. P. CARR - ALL (NOT COMMITTED)
	(NOT COMMITTED)						

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
							OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

STATE LANDS

38 T30N R7W

Sec. 16: W 1/2 320.00 E 178-1
2/13/45 State 12-1/2% Amoco Production
Company et al None

RIGHTS IN MESAVEERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols
Co., Ltd. 86.485606% of 25/64
Westland Oil Development
Corporation 11.582241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N.
Mills, Trustees .728417% of 25/64
El Paso Natural Gas Company 7/64 SUBJECT
to gas payment from these and other
lands in total amount of \$1,100,000
payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject
to suspension and conversion. All as
is more specifically provided in
"Assignment Affecting Record Title To
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVEERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
39	<u>T30N R7W</u>						
	Sec. 16: W 1/2 SE 1/4	80.00	B 10603-24 9/8/43	State 12-1/2%	Crown Central Petroleum Corp.	None	Crown Central Petroleum Corp. - ALL
	(NOT COMMITTED)						(NOT COMMITTED)
40	<u>T30N R7W</u>						
	Sec. 16: E 1/2 SE 1/4	80.00	B 10603-24 9/8/43	State 12-1/2%	Crown Central Petroleum Corp.	None	Crown Central Petroleum Corp. - ALL
	(NOT COMMITTED)						(NOT COMMITTED)

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
41	<u>T31N R8W</u>						
	Sec. 36: S 1/2 NE 1/4, SE 1/4 NW 1/4, N 1/2 SW 1/4, SW 1/4 SE 1/4, NE 1/4 SE 1/4	280.00	E 3150-1 12/10/49	State 12-1/2%	El Paso Natural Gas Company	5%	EL PASO NATURAL GAS COMPANY - ALL
42	<u>T31N R8W</u>						
	Sec. 36: S 1/2 SW 1/4	80.00	E 3707-4 7/6/50	State 12-1/2%	Northwest Pipeline Corporation	5%	TO THE BASE OF THE MESAVERDE FORMATION Northwest Pipeline Corporation - ALL BELOW THE BASE OF THE MESAVERDE FORMATION Phillips Petroleum Company - ALL
43	<u>T31N R8W</u>						
	Sec. 36: SW 1/4 NW 1/4, NW 1/4 SE 1/4	80.00	E 3707-5 7/6/50	State 12-1/2%	Northwest Pipeline Corporation	5%	TO THE BASE OF THE MESAVERDE FORMATION Northwest Pipeline Corporation - ALL BELOW THE BASE OF THE MESAVERDE FORMATION Phillips Petroleum Company - ALL
44	<u>T31N R8W</u>						
	Sec. 36: SE 1/4 SE 1/4	40.00	E 292-9 5/2/45	State 12-1/2%	Northwest Pipeline Corporation	5%	TO THE BASE OF THE MESAVERDE FORMATION Northwest Pipeline Corporation - ALL BELOW THE BASE OF THE MESAVERDE FORMATION Phillips Petroleum Company - ALL

TRACT NO.	DESCRIPTION	NO. OF ACRES	NEW MEXICO STATE LEASE NO. AND LEASE DATE	LAND OWNER AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>STATE LANDS</u>							
45	<u>T31N R8W</u>						
	Sec. 36: N 1/2 N 1/2	160.00	E 5382 7/10/51	State 12-1/2%	Texaco, Inc.	None	TEXACO, INC. - ALL
TOTAL ACREAGE STATE LANDS		3,750.47					
PERCENT OF UNIT AREA		11.36					

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
46	<u>T31N R7W</u>					
	Sec. 11: SE 1/4 SW 1/4, SE 1/4	320.00	15%	Northwest Pipeline Corporation	None	
	Sec. 12: W 1/2 SE 1/4			12/6/56		
	Sec. 14: NE 1/4 NW 1/4					

TO THE BASE OF THE MESAVERDE FORMATION

Northwest Pipeline Corporation - All subject to overriding royalties as to oil and payments out of gas payable to Phillips Petroleum Company as set out in that certain Sublease and Operating Agreement executed between said parties under date of February 23, 1955, and to T. H. McElvain as set out in that certain Sublease and Operating Agreement executed between said parties under date of September 1, 1955.

TO THE BASE OF THE MESAVERT DE FORMATION

Northwest Pipeline Corporation - ALL
subject to overriding royalties as
to oil and payments out of gas payable
to Phillips Petroleum Company as set
out in that certain Sublease and
Operating Agreement executed between
said parties under date of
February 23, 1955, and to T. H.
McElvain as set out in that certain
Sublease and Operating Agreement
executed between said parties under
date of September 1, 1955.

BELOW THE BASE OF THE MESAVERT DE
FORMATION

Phillips Petroleum Company	1/2
T. H. McElvain Oil and Gas Properties	1/2

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

47

T31N R7W

Sec. 1: SW 1/4,
W 1/2 SE 1/4 320.00

12-1/2%

Amoco Production
Company et al

None

Sec. 12: N 1/2 NW 1/4

6/15/53

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols
Co., Ltd. 86.485606% of 25/64
Westland Oil Development
Corporation 11.582241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N.
Mills, Trustees .728417% of 25/64
El Paso Natural Gas Company 7/64 SUBJECT
to gas payment from these and other
lands in total amount of \$1,100,000
payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject
to suspension and conversion. All as
is more specifically provided in
"Assignment Affecting Record Title To
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

48 T31N R7W

Sec. 9: S 1/2

320.00

12-1/2%

Amoco Production Company et al

None

12/12/57

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
 Blackwood & Nichols
 Co., Ltd. 86.485606% of 25/64
 Westland Oil Development
 Corporation 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to -
 Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
 Blackwood & Nichols Co., Ltd. Same as described above
 Westland Oil Development Corporation - Same as described above
 Thayer H. Laurie - Same as described above
 above
 Thayer H. Laurie & David N. Mills, Trustees - Same as described above
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

49 T31N R7W

Sec. 19: NE 1/4 NE 1/4 40.00

12-1/2%

Amoco Production
Company et al

None

11/7/57

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols
Co., Ltd. 86.485606% of 25/64
Westland Oil Development
Corporation 11.582241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N.
Mills, Trustees .728417% of 25/64
El Paso Natural Gas Company 7/64 SUBJECT
to gas payment from these and other
lands in total amount of \$1,100,000
payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject
to suspension and conversion. All as
is more specifically provided in
"Assignment Affecting Record Title To
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

50	<u>T31N R7W</u>					
	Sec. 19: SE 1/4 NE 1/4, NE 1/4 SE 1/4	80.00	12-1/2%	Amoco Production Company et al	None	
				12/9/57		

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols
Co., Ltd. 86.485606% of 25/64
Westland Oil Development
Corporation 11.582241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N.
Mills, Trustees .728417% of 25/64
El Paso Natural Gas Company 7/64 SUBJEC
to gas payment from these and other
lands in total amount of \$1,100,000
payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject
to suspension and conversion. All as
is more specifically provided in
"Assignment Affecting Record Title To
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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PATENTED LANDS

51	<u>T31N R7W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u> Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2c per MCF for first 10 years 4-1/2c per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
	Sec. 19: SE 1/4 SE 1/4	80.00	12-1/2%	Amoco Production Company et al	None	
	Sec. 30: NE 1/4 NE 1/4			1/13/57		

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company	1/2
Blackwood & Nichols Co., Ltd. Same as described above	
Westland Oil Development Corporation - Same as described above	
Thayer H. Laurie - Same as described above	
above	
Thayer H. Laurie & David N. Mills, Trustees - Same as described above	
Morris & Burk, Ltd.	49/512
A. M. Lloyd	7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

52 T31N R7W

Sec. 20: W 1/2 NW 1/4 80.00

12-1/2%

Amoco Production
Company et al
11/13/57

None

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. 86.485606% of 25/64
Westland Oil Development Cor-
poration 11.482241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N.
Mills .728417% of 25/64

E1 Paso Natural Gas Company 7/64
SUBJECT to gas payment from these
and other lands in total amount of
\$1,100,000 payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and
subject to suspension and conversion.
All as is more specifically provided in
"Assignment Affecting Record Title to
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

DAKOTA RIGHTS

AMOCO PRODUCTION COMPANY - ALL
SUBJECT to 1/8 of 8/8 overriding
royalty interest which shall be
reduced by all other overriding
royalties,

Continued next page

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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PATENTED LANDS

52 CONTINUED

reserved unto:
 Blackwood & Nichols Co., Ltd.
 Westland Oil Development Corporation
 Thayer H. Laurie
 Thayer H. Laurie & David N. Mills,
 Trustees
 of their respective interests as last
 set out above.
 And of:
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

ALL RIGHTS OTHER THAN MESAVERDE AND
 DAKOTA

Amoco Production Company 1/2
 Blackwood & Nichols Co.,
 Ltd. 86.485606% of 25/64
 Westland Oil Development Cor-
 poration 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N. Mills,
 Trustees .728417% of 25/64
 Morris & Burk, Ltd. 59/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
53	<u>T31N R7W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 31: West 70 Acres * in W 1/2 NE 1/4 being the West 70 Acres of the most Westerly 80 Acres of Tract 51	70.00	12-1/2%	Amoco Production Company et al 1/28/58	None	Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

* Refers to description by original survey,
followed by description by re-survey underlined.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION
Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

54	<u>T31N R7W</u>					
	Sec. 31: SE 1/4 NE 1/4, * NE 1/4 SE 1/4.	90.00	12-1/2%	Amoco Production Company et al	None	
	5 acres on the East side of SW 1/4 NE 1/4; 5 acres on the East side of NW 1/4 NE 1/4, being All of Tract 51 except the West 70 Acres of the most Westerly 80 acres of Tract 51			11/10/57		

* Refers to description by original survey, followed by description by re-survey underlined.

WORKING INTEREST
OWNER UNDER OPTION
AGREEMENT, OPERATING AGREEMENT
OR ASSIGNMENT

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols
Co., Ltd. 86.485606% of 25/64
Westland Oil Development
Corporation 11.582241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co., Ltd. Same as described above
Westland Oil Development Corporation - Same as described above
Thayer H. Laurie - Same as described above
above
Thayer H. Laurie & David N. Mills, Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER	PERCENTAGE OF	WORKING INTEREST
				OF LEASE & EXPIRATION DATE	OVERRIDING ROYALTY	OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
55	<u>T31N R7W</u>					
	Sec. 30: <u>40 Acres in</u>	174.00	12-1/2%	Amoco Production Company et al	None	
	* <u>the center of</u>					
	<u>the SE 1/4, being North</u>					
	<u>40 acres of Tract 49</u>			11/12/57		
	<u>T30N R7W</u>					
	Sec. 7: <u>E 1/2 NW 1/4, being the South 80 Acres of</u>					
	* <u>the North 120 acres of Tract 40.</u>					
	Sec. 6: <u>NW 1/4 SE 1/4, South 14 Acres of the SW 1/4 NE 1/4,</u>					
	* <u>being the South 54 Acres of Tract 39.</u>					
<u>RIGHTS IN MESAVEVERDE FORMATION ONLY</u>						
				Amoco Production Company 1/2		
				Blackwood & Nichols		
				Co., Ltd. 86.485606% of 25/64		
				Westland Oil Development		
				Corporation 11.582241% of 25/64		
				Thayer H. Laurie 1.203736% of 25/64		
				Thayer H. Laurie & David N.		
				Mills, Trustees .728417% of 25/64		
				El Paso Natural Gas Company 7/64 SUBJECT		
				to gas payment from these and other		
				lands in total amount of \$1,100,000		
				payable to -		
				Nelson & Edward Morris, Ltd. 7/8		
				A. M. Lloyd 1/8		
				Payable from gas produced to this		
				interest (net of royalties and other		
				burdens) from Mesaverde formation only		
				out of		
				3-1/2¢ per MCF for first 10 years		
				4-1/2¢ per MCF thereafter and subject		
				to suspension and conversion. All as		
				is more specifically provided in		

*Refers to description by original survey, followed by description by resurvey underlined.

*Refers to description by original survey, followed by description by resurvey underlined.

ALL RIGHTS OTHER THAN MESAVEVERDE FORMATION

Amoco Production Company 1/2

Blackwood & Nichols Co., Ltd. Same as described above

Westland Oil Development Corporation - Same as described above

Thayer H. Laurie - Same as described above

above

Thayer H. Laurie & David N. Mills, Trustees - Same as described above

Morris & Burk, Ltd. 49/512

A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER		PERCENTAGE OF		WORKING INTEREST	
				OF LEASE & EXPIRATION DATE		OVERRIDING ROYALTY		OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT	

PATENTED LANDS

56 T31N R7W

Sec. 30: 40 Acres 133.00 12-1/2% Amoco Production Company et al None

* In the S 1/2 SE 1/4, being the South 40 Acres in Tract 49 11/10/57

Sec. 31: NE 1/4 NE 1/4, being Tract 50 located in Sec. 31 and 32;

Sec. 31: SW 1/4 SE 1/4, being Tract 52: and the North 20 acres of Tract 39

T30N R7W

Sec. 6: North 13 Acres of NW 1/4 NE 1/4, * being the South 13 acres of the North 33 acres of Tract 39.

* Refers to description by original survey, followed by description by re-survey underlined.

Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.

RIGHTS IN MESAVERDE FORMATION ONLY

ALL RIGHTS OTHER THAN MESAVERDE FORMATION Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. Same as described above Westland Oil Development Corporation - Same as described above Thayer H. Laurie - Same as described above above Thayer H. Laurie & David N. Mills, Trustees - Same as described above Morris & Burk, Ltd. 49/512 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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PATENTED LANDS

57	<u>T30N R7W</u>					
	Sec. 6: South 27	53.00	12-1/2%	Amoco Production Company et al	None	
	* Acres of NW 1/4					
	NE 1/4 and North					
	26 Acres of SW 1/4			11/10/57		
	NE 1/4, <u>being</u>					
	<u>the North 53 acres of the South</u>					
	<u>107 acres of Tract 39.</u>					

* Refers to description by original survey, followed by description by re-survey underlined.

RIGHTS IN MESAVERDE FORMATION ONLY

Amoco Production Company 1/2
 Blackwood & Nichols
 Co., Ltd. 86.485606% of 25/64
 Westland Oil Development
 Corporation 11.582241% of 25/64
 Thayer H. Laurie 1.203736% of 25/64
 Thayer H. Laurie & David N.
 Mills, Trustees .728417% of 25/64
 El Paso Natural Gas Company 7/64 SUBJECT
 to gas payment from these and other
 lands in total amount of \$1,100,000
 payable to -
 Nelson & Edward Morris, Ltd. 7/8
 A. M. Lloyd 1/8
 Payable from gas produced to this
 interest (net of royalties and other
 burdens) from Mesaverde formation only
 out of
 3-1/2¢ per MCF for first 10 years
 4-1/2¢ per MCF thereafter and subject
 to suspension and conversion. All as
 is more specifically provided in
 "Assignment Affecting Record Title To
 Oil and Gas Lease" executed by said
 parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2
 Blackwood & Nichols Co.,
 Ltd. Same as described above
 Westland Oil Development
 Corporation - Same as described above
 Thayer H. Laurie - Same as described
 above
 Thayer H. Laurie & David N. Mills,
 Trustees - Same as described above
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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PATENTED LANDS

58	<u>T30N R7W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u> Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
	Sec. 7: <u>Lots 10</u> <u>and 11</u>	21.39	12-1/2%	Amoco Production Company et al	None	
				11/12/57		

ALL RIGHTS OTHER THAN MESAVERDE FORMATION
Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER	PERCENTAGE OF	WORKING INTEREST
				OF LEASE & EXPIRATION DATE	OVERRIDING ROYALTY	OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
59	<u>T30N R7W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
Sec. 7:	S 1/2 NE 1/4	140.00	12-1/2%	Amoco Production Company et al.	None	Amoco Production Company 1/2
	* SW1/4, being					Blackwood & Nichols
	<u>South 20 acres of Tract 40.</u>			11/17/57		Co., Ltd. 86.485606% of 25/64
Sec. 7:	<u>(East 80 acres of</u>					Westland Oil Development
Sec. 8:	<u>Tract 41.</u>					Corporation 11.582241% of 25/64
						Thayer H. Laurie 1.203736% of 25/64
						Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64
						El Paso Natural Gas Company 7/64 SUBJECT
						to gas payment from these and other
						lands in total amount of \$1,100,000
						payable to -
						Nelson & Edward Morris, Ltd. 7/8
						A M Lloyd 1/8

*Refers to description by original survey, followed by description by re-survey underlined.

El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8

Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of

3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas lease" executed by said parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company 1/2

Blackwood & Nichols Ltd. Same as described above

Westland Oil Development Corporation - Same as described above

Thayer H. Laurie - Same as described above

above

Thayer H. Laurie & David N. Mills, Trustees - Same as described above

Morris & Burk, Ltd. 49/512

A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
60	<u>T30N R7W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 7: * N 1/2 SE 1/4 SW 1/4, being North 20 acres of the South 40 acres of Tract 40.	140.00	12-1/2%	Amoco Production Company et al 11/10/57	None	Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in
	Sec. 8: * SW 1/4 SW 1/4, and being part of Tract 42.					
	Sec. 17:					
	Sec. 7: 80 Acres in West and part of Tract 41.					
	Sec. 18:					

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* Refers to description by original survey, followed by description by re-survey underlined.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company	1/2
Blackwood & Nichols Co.,	
Ltd. Same as described above	
Westland Oil Development Corporation - Same as described above	
Thayer H. Laurie - Same as described above	
above	
Thayer H. Laurie & David N. Mills, Trustees - Same as described above	
Morris & Burk, Ltd.	49/512
A. M. Lloyd	7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

61	<u>T30N R7W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u> Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
	Sec. 17: * S 1/2	160.00	12-1/2%	Amoco Production Company et al	None	
	NW 1/4, N 1/2 SW 1/4, <u>being Tracts 43 and 44.</u>			11/12/57		

* Refers to description by original survey, followed by
description by resurvey underlined.

<u>ALL RIGHTS OTHER THAN MESAVERDE FORMATION</u>	
Amoco Production Company	1/2
Blackwood & Nichols Co.,	
Ltd. Same as described above	
Westland Oil Development	
Corporation - Same as described above	
Thayer H. Laurie - Same as described	
above	
Thayer H. Laurie & David N. Mills,	
Trustees - Same as described above	
Morris & Burk, Ltd.	49/512
A. M. Lloyd	7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

62	<u>T30N R7W</u>					<u>RIGHTS IN MESAVEERDE FORMATION ONLY</u>
	Sec. 17: NW 1/4 NW 1/4	80.00	12-1/2%	Amoco Production Company et al	None	Amoco Production Company 1/2
	Sec. 18: NE 1/4 NE 1/4					Blackwood & Nichols Co., Ltd. 86.485606% of 25/64
	<u>*Being part of Tract 42.</u>			11/10/57		Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8

* Refers to description by original survey, followed
by description by re-survey underlined.

ALL RIGHTS OTHER THAN MESAVEERDE FORMATION
 Amoco Production Company 1/2
 Blackwood & Nichols Co.,
 Ltd. Same as described above
 Westland Oil Development
 Corporation - Same as described above
 Thayer H. Laurie - Same as described
 above
 Thayer H. Laurie & David N. Mills,
 Trustees - Same as described above
 Morris & Burk, Ltd. 49/512
 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
63	<u>T30N R7W</u>					<u>ALL RIGHTS</u>
	Sec. 18: S 1/2 SE/4, NW 1/4 SE 1/4	116.28	12-1/2%	Amoco Production Company et al	None	Amoco Production Company 35%
	Sec. 19: NE 1/4 NE 1/4			9/1/53		El Paso Natural Gas Company 28%
	According to the plat of survey filed with the Surveyor General's Office, Santa Fe, New Mexico, on November 4, 1882, and also described as Tract 45 in Sections 17, 18, 19 and 20, according to plat of independent resurvey filed with the Surveyor General's Office, Santa Fe, New Mexico, on July 19, 1915, and containing 116.28 acres, more or less, <u>LYING EAST OF THE SAN JUAN RIVER IN RIO ARRIBA COUNTY, NEW MEXICO.</u>					Blackwood & Nichols Co., Ltd. 86.485606% of 37%
						Westland Oil Development Corporation 11.582241% of 37%
						Thayer H. Laurie 1.203736% of 37%
						Thayer H. Laurie & David N. Mills, Trustees .728417% of 37%

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
64	<u>T30N R7W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u> Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only
	Sec. 19: W 1/2 NE 1/4, *being part of <u>Tract 46.</u>	80.00	12-1/2%	Amoco Production Company et al 11/10/57	None	

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by description by re-survey underlined.

*Refers to description by original survey, followed
by description by re-survey underlined.

ALL RIGHTS OTHER THAN MESAVERDE FORMATION
Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER	PERCENTAGE OF	WORKING INTEREST
				OF LEASE & EXPIRATION DATE	OVERRIDING ROYALTY	OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
65	<u>T30N R7W</u>					
	Sec. 18: S 1/2 SE 1/4, NW 1/4 SE 1/4	43.72	12-1/2%	Amoco Production Company et al	None	Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2c per MCF for first 10 years 4-1/2c per MCF thereafter and subject
	Sec. 19: NE 1/4 NE 1/4			9/1/53		
According to the plat of survey filed with the Surveyor General's Office, Santa Fe, New Mexico, on November 4, 1882, and also described as Tract 45 in Sections 17, 18, 19 and 20, according to plat of independent resurvey filed with the Surveyor General's Office, Santa Fe, New Mexico, on July 19, 1915, and containing 43.72 acres, more or less, LYING WEST OF THE SAN JUAN RIVER IN SAN JUAN COUNTY, NEW MEXICO.						

ALL RIGHTS OTHER THAN MESAVERDE FORMATION

Amoco Production Company	1/2
Blackwood & Nichols Co.,	
Ltd. Same as described above	
Westland Oil Development	
Corporation - Same as described above	
Thayer H. Laurie - Same as described	
above	
Thayer H. Laurie & David N. Mills,	
Trustees - Same as described above	
Morris & Burk, Ltd.	49/512
A. M. Lloyd	7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
66	<u>T30N R7W</u>					<u>RIGHTS IN MESASVERDE FORMATION ONLY</u>
	Sec. 4: E 1/2 SW 1/4	80.00	12-1/2%	Blackwood & Nichols Co., Ltd. et al	None	Blackwood & Nichols Co., Ltd. 86.485606% of 25/32 Westland Oil Development Corporation 11.582241% of 25/32 Thayer H. Laurie 1.203736% of 25/32 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/32 EL PASO NATURAL GAS COMPANY 7/32 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
<u>ALL RIGHTS OTHER THAN MESASVERDE FORMATION</u>						
						Blackwood & Nichols Co., Ltd. Same as described above. Westland Oil Development Corporation - Same as described above. Thayer H. Laurie - Same as described above. Thayer H. Laurie and David N. Mills, Trustees - Same as described above Morris & Burk, Ltd. 49/256 A. M. Lloyd 7/256

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
67	<u>T30N R7W</u>					
	Sec. 4: W 1/2 SW 1/4	80.00		Saul A. Yager et al	UNLEASED	NOT COMMITTED
			12-1/5%			

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST
						OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT

PATENTED LANDS

68	<u>T30N R7W</u>					
	Sec. 6: SE 1/4 SW 1/4, * being the <u>North 40 acres of Tract 40.</u>	40.00	12-1/2%	Amoco Production Company et al	None	
				4/14/58 4/15/58		

RIGHTS IN MESASVERDE FORMATION ONLY

Amoco Production Company 1/2
Blackwood & Nichols
Co., Ltd. 86.485606% of 25/64
Westland Oil Development
Corporation 11.582241% of 25/64
Thayer H. Laurie 1.203736% of 25/64
Thayer H. Laurie & David N.
Mills, Trustees .728417% of 25/64
El Paso Natural Gas Company 7/64 SUBJECT
to gas payment from these and other
lands in total amount of \$1,100,000
payable to -
Nelson & Edward Morris, Ltd. 7/8
A. M. Lloyd 1/8
Payable from gas produced to this
interest (net of royalties and other
burdens) from Mesaverde formation only
out of
3-1/2¢ per MCF for first 10 years
4-1/2¢ per MCF thereafter and subject
to suspension and conversion. All as
is more specifically provided in
"Assignment Affecting Record Title To
Oil and Gas Lease" executed by said
parties as of January 1, 1954.

ALL RIGHTS OTHER THAN MESASVERDE FORMATION

Amoco Production Company 1/2
Blackwood & Nichols Co.,
Ltd. Same as described above
Westland Oil Development
Corporation - Same as described above
Thayer H. Laurie - Same as described
above
Thayer H. Laurie & David N. Mills,
Trustees - Same as described above
Morris & Burk, Ltd. 49/512
A. M. Lloyd 7/512

* Refers to description by original survey, followed
by description by re-survey underlined.

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
69	<u>T30N R8W</u>					<u>RIGHTS IN MESASVERDE FORMATION ONLY</u>
	Sec. 13: The East 18.85 Acres of the NE 1/4	18.85	12-1/2%	Amoco Production Company et al 12/15/57	None	Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
<u>ALL RIGHTS OTHER THAN MESASVERDE FORMATION</u>						
						Amoco Production Company 1/2 Blackwood & Nichols Co., Ltd. Same as described above Westland Oil Development Corporation - Same as described above Thayer H. Laurie - Same as described above Thayer H. Laurie & David N. Mills, Trustees - Same as described above Morris & Burk, Ltd. 49/512 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
70	<u>T30N R8W</u>					<u>RIGHTS IN MESAVERDE FORMATION ONLY</u>
	Sec. 13: The West	120.15	12-1/2%	Amoco Production Company et al	None	Amoco Production Company 1/2
	65.55 acres of the NE 1/4; NE 1/4 SE 1/4 except the West 100 ft. thereof and except 2 acres in the SW Corner thereof and the East 20 acres of the NW 1/4 SE 1/4			11/17/57		Blackwood & Nichols Co., Ltd. 86.485606% of 25/64 Westland Oil Development Corporation 11.582241% of 25/64 Thayer H. Laurie 1.203736% of 25/64 Thayer H. Laurie & David N. Mills, Trustees .728417% of 25/64 El Paso Natural Gas Company 7/64 SUBJECT to gas payment from these and other lands in total amount of \$1,100,000 payable to - Nelson & Edward Morris, Ltd. 7/8 A. M. Lloyd 1/8 Payable from gas produced to this interest (net of royalties and other burdens) from Mesaverde formation only out of 3-1/2¢ per MCF for first 10 years 4-1/2¢ per MCF thereafter and subject to suspension and conversion. All as is more specifically provided in "Assignment Affecting Record Title To Oil and Gas Lease" executed by said parties as of January 1, 1954.
<u>ALL RIGHTS OTHER THAN MESAVERDE FORMATION</u>						
						Amoco Production Company 1/2
						Blackwood & Nichols Co., Ltd. Same as described above Westland Oil Development Corporation - Same as described above Thayer H. Laurie - Same as described above Thayer H. Laurie & David N. Mills, Trustees - Same as described above Morris & Burk, Ltd. 49/512 A. M. Lloyd 7/512

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
71	<u>T30N R8W</u>					
	Sec. 13: 3.4 acres out of W 1/2 NW 1/4 SE 1/4 and the West 100 ft. of NE 1/4 SE 1/4	6.80	Manuel E. Martinez	Unleased		NOT COMMITTED
72	<u>T30N R8W</u>					
	Sec. 13: 2 acres in SW corner of NE 1/4 SE 1/4	2.00	Tonita Martinez	Unleased		NOT COMMITTED

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
<u>PATENTED LANDS</u>						
73	<u>T30N R8W</u> Sec. 13: East 14.45 acres of W 1/2 NE 1/4, West 61.15 acres of E 1/2 NE 1/4	75.60	12-1/2%	Northwest Pipeline Corporation 11/1/56	None	<u>TO THE BASE OF THE MESASVERDE FORMATION</u> Northwest Pipeline Corporation - ALL <u>BELOW THE BASE OF THE MESASVERDE FORMATION</u> Phillips Petroleum Company - ALL
74	<u>T30N R8W</u> Sec. 13: N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4	155.60	12-1/2%	Northwest Pipeline Corporation 4/17/61	None	<u>TO THE BASE OF THE MESASVERDE FORMATION</u> Northwest Pipeline Corporation - ALL <u>BELOW THE BASE OF THE MESASVERDE FORMATION</u> Phillips Petroleum Company - ALL
<u>EXCEPT</u>						
(1) A certain piece of land situate at a place called Los Martinez in Largo Precinct, inclosed in Homestead Certificate No. 1125 given by the United States Government to Felipe Santiago Martin February 25, 1885, said homestead certificate including the above described land, said piece of land being described as follows: BEGINNING at the Southwest corner (a) going North following Western line to a point (b) 300 yards, from B in an Easterly direction, measure 80 yards to a point (c) from point C running South 70 yards, thence running east 70 yards, then North 70 yards, thence West back to point C 70 yards, on which tract is built a chapel dedicated to "OUR LADY OF GUADALUPE", together with right of way to and from public road from Blanco to Pine View;						
(2) All that part of the Northwest Quarter (NW 1/4) of the Northwest Quarter (NW 1/4) of said Section 13 lying, being and situated West of the Molino Arroyo.						
As to Exception						
(1) above	1.00	12-1/2% (Bishop of Gallup)	Northwest Pipeline Corporation	None	<u>TO THE BASE OF THE MESASVERDE FORMATION</u> Northwest Pipeline Corporation - ALL <u>BELOW THE BASE OF THE MESASVERDE FORMATION</u> Phillips Petroleum Company - ALL	

TRACT NO.	DESCRIPTION	NO. OF ACRES	PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE & EXPIRATION DATE	PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT OR ASSIGNMENT
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PATENTED LANDS

75 T30N R8W

Sec. 12:	SW 1/4 SW 1/4	60.00	12-1/2%	Delhi Oil Corporation	17-1/2%	
Sec. 13:	That part of NW 1/4 NW 1/4 lying West of the Molino Arroyo					
				8/17/57		

GAS RIGHTS DOWN TO AND INCLUDING THE MESAVERDE FORMATION

EL PASO NATURAL GAS COMPANY - ALL subject to overriding royalty, subject to suspension and conversion, to Tenneco and Continental (Formerly Delhi Taylor Oil Corporation) of 33-1/3% of liquid hydrocarbons to Assignor's interest and on gas produced and saved to Assignor's interest - 5-1/2¢ per MCF for first 3-1/3 years, 6-1/2¢ per MCF for next 3-1/3 years, 7-1/2¢ per MCF for next 3-1/3 years, not less than 8¢ per MCF for next one year, not less than 9¢ per MCF for next one year, not less than 10¢ per MCF thereafter, all as specifically provided by that certain Assignment of Operating Agreement between the above parties dated March 1, 1952.

GAS RIGHTS BELOW THE MESAVERDE FORMATION AND ALL OIL RIGHTS

TENNECO OIL COMPANY	1/2
CONTINENTAL OIL COMPANY	1/2

TOTAL PATENTED ACREAGE 3,181.39

PERCENT OF UNIT AREA 9.64

R E C A P I T U L A T I O N

<u>LAND</u>	<u>ACRES</u>	<u>PERCENTAGE OF UNIT AREA</u>
Federal	26,076.90	79.00
State	3,750.47	11.36
Patented	3,181.39	9.64
Total Unit Area	<u>33,008.76</u>	<u>100.00</u>

310

P. O. Drawer 1857
Roswell, New Mexico 88201

November 24, 1976

Blackwood & Nichols Company
2013 First National Center
Oklahoma City, Oklahoma 73102

Gentlemen:

Your letter of November 12, 1976, submitted four copies of revised Exhibit B, effective as of November 1, 1976, to the Northeast Blanco unit agreement, San Juan and Rio Arriba Counties, New Mexico. Such revision is occasioned by the November 1, 1976 commitment of Tract 23 to the unit agreement. Tract 23 has been included in the Mesaverde participating area previously but since it was not committed to the unit agreement, it received no participation. The commitment of Tract 23, requires a revision to the schedule of participation, but the Mesaverde participating area is unchanged. Accordingly, the notation on your Exhibit B has been changed to the fifth enlarged Mesaverde participating area which was the last participating area revision.

Your revised Exhibit B with the change noted, is hereby accepted for record purposes and copies are being sent to the appropriate Federal offices. One copy is returned herewith.

Sincerely yours,

CARL C. TRAYWICK
Assistant Area Oil & Gas Supervisor

Enclosure

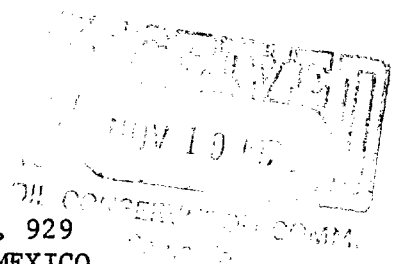
cc:

Durango (w/cy Ex B)
BLM, Santa Fe (w/cy Ex B)
Com. Pub. Lands, Santa Fe (ltr. only)
NMOCC, Santa Fe (ltr. only)
Leasing (ltr. only)
Accounting (ltr. only)

EZuniga, JAGillham:dlk:

APPLICATION FOR APPROVAL
OF
DEFINITION OF "MESAVERDE"
AS USED IN DESIGNATION OF
MESAVERDE PARTICIPATING AREA
FOR

THE NORTHEAST BLANCO UNIT, I-SEC. NO. 929
SAN JUAN AND RIO ARriba COUNTIES, NEW MEXICO
AND IN SUBSEQUENT ENLARGEMENTS THEREOF



5893

TO: The Director of The United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

No. 318

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Pursuant to the provisions of Section 11 of the Unit Agreement approved by the Director of the Geological Survey on April 16, 1952, by the Commissioner of Public Lands of the State of New Mexico on October 23, 1951, and by the Oil Conservation Commission of the State of New Mexico on October 31, 1951, and pursuant to a resolution duly adopted by the Advisory Committee under the Unit Operating Agreement under Unit Agreement for the Development and Operation of the Northeast Blanco Unit Area, San Juan and Rio Arriba Counties, New Mexico, Blackwood & Nichols Company, as Unit Operator, hereby submits for your approval a definition of the term "Mesaverde" as used in the Application for Approval of Mesaverde Participating Area for the Northeast Blanco Unit, I-Sec. No. 929, San Juan and Rio Arriba Counties, New Mexico, and in subsequent enlargements thereof. In support of this Application, Operator states as follows:

1. The Application for Approval of Mesaverde Participating Area was approved by the Geological Survey on November 20, 1952. The original Participating Area was subsequently enlarged five times, with your approval, so that the Mesaverde Participating Area now covers the entire Unit Area. In the original Application and in subsequent enlargements, the term "Mesaverde" was used, and was sometimes followed by the term "zone," "formation," "horizon," "group," or the like, but was never otherwise defined.

2. Pursuant to the Plan of Development for 1976, on June 26, 1976, the Unit Operator commenced drilling of its Northeast Blanco Well No. 64 located in the SE/4 of Section 24, Township 30 North, Range 8 West, Rio Arriba County, New Mexico. The well was drilled for the purpose of protecting against drainage from the traditional producing intervals; however, the Operator encountered gas production at a level above the traditional producing interval. The details of the drilling and completion of this well are set forth on Exhibit "A", "Geological and Engineering Memorandum." After the completion of the well, Tenneco Oil Company and Continental Oil Company, owners of the lease upon which this well was drilled, took the position that the production encountered in the well was not within the vertical limits of the Mesaverde Participating Area.

3. In view of the questions which had been raised concerning the vertical extent of the Participating Area, the Advisory Committee under the Unit Operating Agreement met on October 12, 1976, for purposes of considering the matter, and other Unit business, pursuant to the Advisory Committee's duty under Section 6 of the Unit Operating Agreement to approve or disapprove any Participating Area or amendments thereof. In that meeting, the Advisory Committee duly adopted the definition of "Mesaverde" set forth in the Geological and Engineering Memorandum. The Unit owners, and their respective interests, voting in favor of the adoption of the definition were as follows:

Amoco Production Company	.32975933
Blackwood & Nichols Co., Ltd.	.29805862
Jacquelyn M. Williams	.00260911
Westland Oil Development Corp.	<u>.04940999</u>
Total	<u>.67983705</u>

Those voting not to adopt the definition were as follows:

El Paso Natural Gas Company	.21199416
Tenneco Oil Company	.01440596
Continental Oil Company	<u>.01440595</u>
Total	<u>.24080607</u>

Mr. F. G. Blackwood was authorized by letter to represent the .00492448 Thayer H. Laurie and .00310743 T. H. Laurie and D. N. Mills, Tr. interests; although not present at the meeting due to illness has approved the definition of Mesaverde as presented by the Advisory Committee. This makes the total authorized approval .68786896.

Continental Oil Company has not yet furnished written authority for their .01440595 "no" vote. Therefore the authorized "no" vote is .22640012.

The definition therefore was adopted by the required affirmative vote of 65% of the voting power of the Advisory Committee, as provided in Section 5 of the Unit Operating Agreement.

4. The Geological and Engineering Memorandum discusses evidence that the accumulation found in the No. 64 Well is part of the same accumulation found in the traditional producing interval. The Memorandum also points out that the definition of Mesaverde adopted by the Advisory Committee is consistent with that term as used in geologic literature dating back to the creation of the Unit.

The Operator respectfully requests that the Director, the Commissioner and the Commission approve this Application.

DATED this 15th day of November, 1976.

BLACKWOOD & NICHOLS COMPANY

By 
General Partner

OPERATOR

STATE OF OKLAHOMA)
) ss
COUNTY OF OKLAHOMA)

Before me, the undersigned, a notary public in and for said County and State, on the 15th day of November, 1976, personally appeared F. G. Blackwood, General Partner of Blackwood & Nichols Company, a General Partnership, to me known to be the identical person who executed the within and foregoing instrument on behalf of the partnership.

My commission expires:

October 12, 1980


Notary Public

EXHIBIT "A"
NORTHEAST BLANCO UNIT, I-SEC. NO. 929
SAN JUAN AND RIO ARriba COUNTIES, NEW MEXICO
SIXTH ENLARGED PARTICIPATING AREA

GEOLOGICAL AND ENGINEERING MEMORANDUM

Northeast Blanco Well #64 (originally called 105A) was completed on July 10, 1976, with an open flow potential of 9,900 MCF per day. The well is located in the SE/4 of Section 24-T30N-R8W Rio Arriba County, New Mexico.

Well #64 (105A) is completed in open hole from 4,252' to 4,278' in a fractured sand and shale portion of the Mesaverde group above the top of the "Massive Sandstone Member" of the Cliff House sandstone. As the well was being drilled from 4,258' to 4,262' the well started making gas and the 4' interval was penetrated in two minutes. A copy of the Totco time vs. depth chart for this section is attached. The drill pipe was raised off bottom and the rams were closed. The shut in pressure rose to 550 psig in 15 minutes. The valve was opened allowing gas to flow up the drill pipe and the gas flow rate estimated by use of a pitot tube at 15,000 MCF per day. The valve was closed and an immediate shut in pressure of 550 psig was recorded.

The well was killed with 200 bbls of 35 vis. gel-water, and 4 1/2 K-55 10.5# ST & C casing was run to 4,252'.

A Lynes external casing to formation packer was set @ 4,119' and 50 sacks of class B cement with 2% CaCl₂ was pumped thru a stage collar at 4,085', plug down at 12:30 p.m. July 8, 1976. On July 10 the hole was drilled out and deepened to 4,278'. The well began blowing gas at 4,251' and upon reaching 4,278' (T.D.) was allowed to blow to clean up for 10 hrs. After nipping up the tree the tubing was perforated with 10, 3/8" holes from 4,240'-4,245'. A shut in csg. pressure of 640 psig and a shut in tbg pressure of 640 psig was recorded July 12, 1976 along with a AOF of 9,900 MCFPD. The well has been connected to El Paso Natural Gas Company's line and is shut in at present.

On August 9, 1976, Blackwood and Nichols filed Well Completion Forms (9-330) and Request for Allowable Forms (C-104). These forms were returned approved but with the Pool or Field name changed from Blanco Mesaverde to Chacra Undesignated Unit. However, the 4,252' to 4,278' interval in Well #64 (105A) does not correlate with any designated producing reservoir in the San Juan Basin. This interval is approximately 500' above the top of the "Massive Sandstone Member" of the Cliff House and 250' below the Chacra producing interval as recognized in the area.

We believe that any gas which might be produced from the #64 (105A) well would be gas which was originally in the Massive Cliff House or deeper beds and has migrated to a higher level in this very small area for the following reasons:

1. The measured surface pressure of 640 psig which is correlative with newly completed Mesaverde wells in the area, and the nearby producing well #2-43. If this were a new reservoir the pressure should be much higher.
2. When the offset wells were drilled they did not encounter gas in this interval.
3. The chemical characteristics of the gas from Well #64 (105A) and offsetting Mesaverde wells are very similar as shown in the attached gas analyses.
4. The very high natural flow rates are not usual in normal unfractured reservoirs.
5. The high penetration rate of the 4,258-4,262' interval.

Definition of Mesaverde

The completion of a gas well in a fractured sand and shale zone which is approximately 500' above the top of the "Massive Cliff House sandstone" has brought about the need to define the term Mesaverde insofar as the Northeast Blanco Unit I-Sec. 929 is concerned. The Advisory Committee of the Northeast Blanco Unit met October 12, 1976 and passed a Resolution defining Mesaverde as follows:

"RESOLVED, that the term "Mesaverde" as used in the "Application for Approval of Mesaverde Participating Area for the Northeast Blanco Unit,

I-Sec. No. 929, San Juan and Rio Arriba Counties, New Mexico", and in subsequent applications for enlargements thereof (and sometimes followed by the term "Zone", "Formation", "Horizon" or the like), all such applications duly approved by the Director of the United States Geological Survey, the Commissioner of Public Lands, State of New Mexico and the Oil Conservation Commission, State of New Mexico, is hereby defined as the stratigraphic equivalent of the interval between (i) the base of the Green Shale Marker, which occurs at a depth of 4,054 feet on the Gamma Ray-Neutron Log, dated May 31, 1957, of the Blackwood & Nichols Northeast Blanco Unit No. 34-19 Well, Section 19, Township 30 North, Range 7 West, Rio Arriba County, New Mexico, and (ii) 300 feet below the base of the Point Lookout Formation, which base occurs at a depth of 5,565 feet on the log of the foregoing well." A copy of the above referred to log is attached.

This definition is to apply to the Northeast Blanco Unit only and has no effect on any area outside the area of the Northeast Blanco Unit.

This definition will allow a reasonable and prudent development and production of hydrocarbons from the Mesaverde group. It will allow for and encourage drilling 300' below the base of the Massive Sandstone member of the Point Lookout portion of the Mesaverde group to search for an elusive, seldom present oil accumulation which could not economically be tested if a definition which limited the interval to the base of the Massive Sandstone member of the Point Lookout were adopted.

This definition also protects the ownership of presently developed Mesaverde reservoirs from thieving by fractures, etc., to intervals above the Massive Cliff House sandstone of the Mesaverde group. We believe the gas which would be produced from the #64 (105A) well is actually gas from the currently producing Mesaverde reservoir of the Northeast Blanco Unit which has migrated 500' above the Cliff House sandstone, as enumerated.

The published literature on the Mesaverde group in the San Juan Basin supports the definition adopted by the Northeast Blanco Unit Advisory Committee.

In the "Guidebook of the San Juan Basin New Mexico and Colorado" published by the New Mexico Geological Society November, 1950, a paper by Caswell Silver "The Occurrence of Gas in Cretaceous Rocks of the San Juan

Basin New Mexico and Colorado" shows clearly that the Mesaverde group is not limited to the "Massive Sandstone Members" of the Point Lookout or Cliff House. A cross section Figure 1, shows that benches of the Point Lookout extend 200'-500' below the "Massive Sandstone Member". Benches also extend 600'-800' above the top of the "Massive Sandstone Member" of the Cliff House. In A.A.P.G. Bulletin Vol. 40, No. 9, September, 1956, a paper by Beaumont, Dane and Sears, of the U.S.G.S., entitled "Revised Nomenclature of Mesaverde Group, San Juan Basin on page 2159 states that "In view of the continuity of the massive sandstone unit through this area the name Cliff House sandstone of the Mesaverde group will replace Chacra sandstone member throughout the former extent of that unit."

In U.S.G.S. Professional Paper 400-B 1960, entitled "New Information on the Areal Extent of Some Upper Cretaceous Units in Northwestern New Mexico", C. H. Dane refers to "The Hosta sandstone, a lower tongue of the Point Lookout sandstone of the Mesaverde Group." This points out the problem with limiting the lower limits to the base of the thick easily identified thick "Massive Sandstone Member" of Point Lookout Sandstone.

A cross section reproduced from A.A.P.G. Bulletin, Vol. 44, No. 1, 1960, "Upper Cretaceous Stratigraphy, Rocky Mountains" by R. J. Weimer is shown below which illustrates the continuity of deposition and transgressive/regressive relationship.

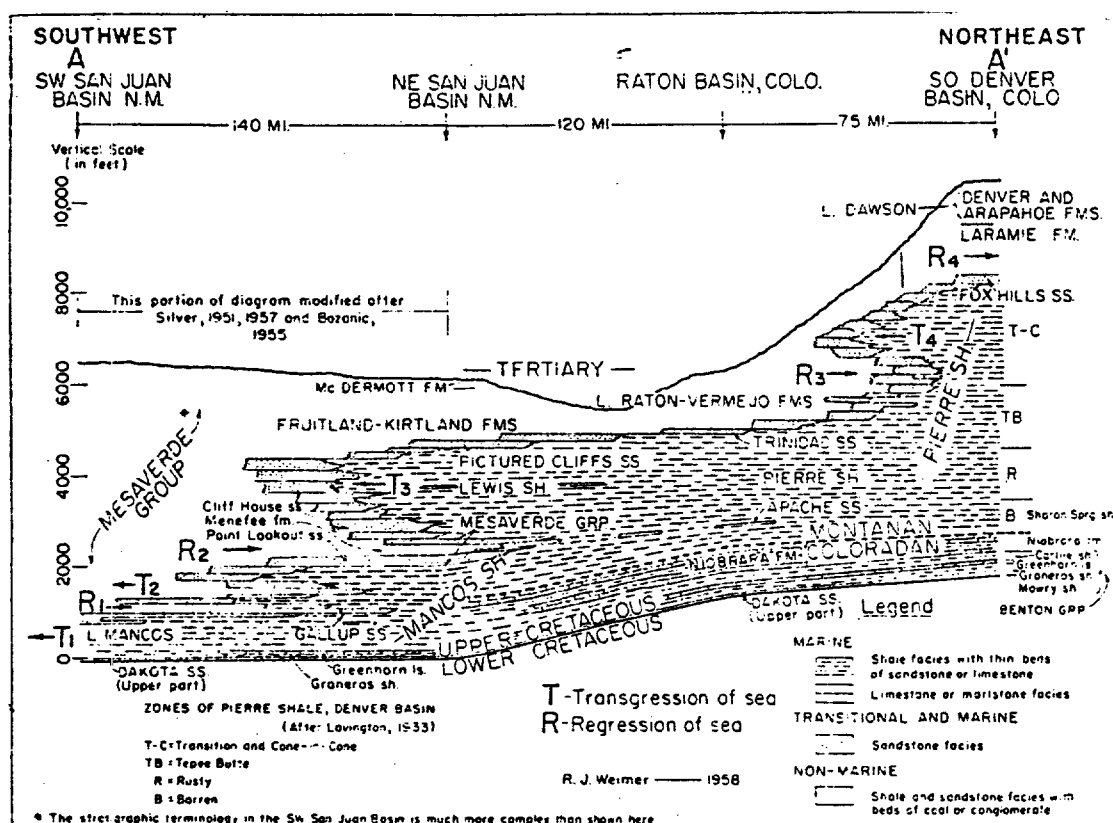


FIG. 2.—Diagrammatic restored section of Upper Cretaceous rocks extending from southwest San Juan Basin of New Mexico to south part of Denver Basin, Colorado. Tertiary rocks regionally cover erosional surface of Cretaceous strata. Diagram structurally distorts this surface.

In the 1961 A.A.P.G. Book, "Geometry of Sandstone Bodies", a paper by Charles T. Hollenshead and Roy L. Pritchard entitled "Geometry of Producing Mesaverde Sandstones, San Juan Basin" in describing the "Green Marker Horizon" on page 106 stated "It is believed to represent approximate contemporaneity and therefore can be used to delineate accurately major vertical steps in the regressive Point Lookout and transgressive Cliff House Strand lines." Various benches of the Cliff House and Point Lookout sandstone are shown and mapped in the paper. We believe that the interval in which gas was encountered in Well #64 (105A) is equivalent to Bench "B" of the Cliff House sandstone as defined and mapped in this paper.

In the "Geologic Atlas of the Rocky Mountain" published in 1972 by the Rocky Mountain Association of Geologists Figure 35, taken from work by R. J. Weimer, shows the Mesaverde group from the San Juan Basin to Wyoming. The vertical limits vary greatly from one area to another.

The Mesaverde group has been described in the literature as extending from the base of the regressive Point Lookout to the top of the Cliff House sandstones. Massive Sandstone Members occur in both the Point Lookout and the Cliff House intervals. Several sandstone benches are known and mapped below the base of the "Massive Sandstone Member" of the Point Lookout and above the "Massive Sandstone Member" of the Cliff House. This definition recognizes that the system of transgressive/regressive shorelines in the Mesaverde group in the San Juan Basin is a continuum having a vertical producing column in excess of 1,400'. The definition of Mesaverde Group as adopted by the Advisory Committee of the Northeast Blanco Unit I-Sec. 929 will allow orderly development and production of hydrocarbon reserves from the Mesaverde group in the area of the Unit.

DRILLING RECORDER

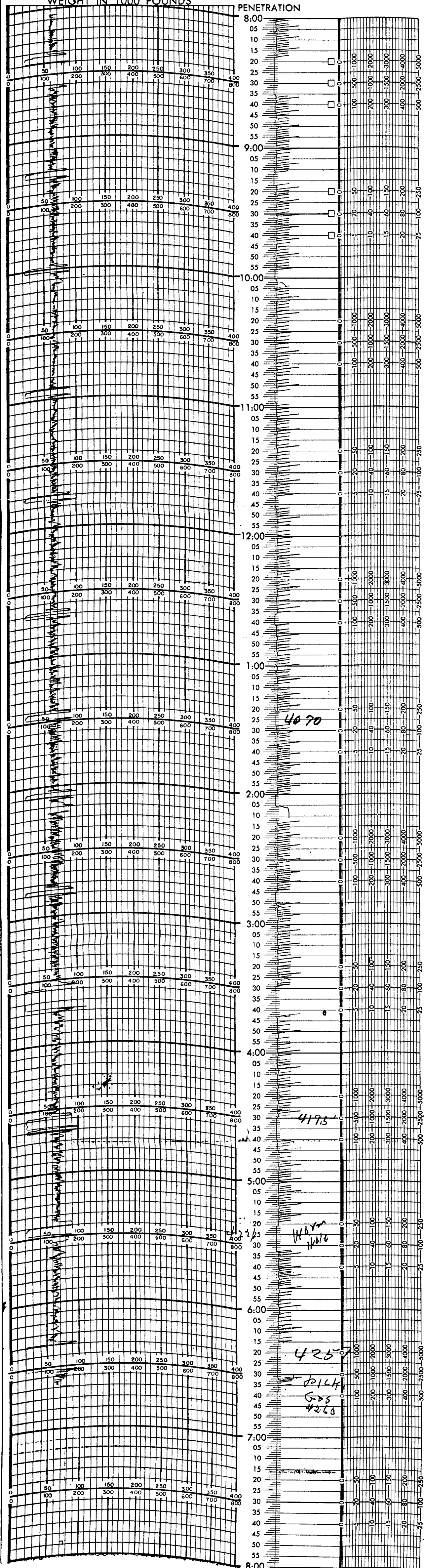
OPERATOR: BLACKWOOD + NICHASO 105 A
LOCATION: NEBU STATE: NM
COUNTY: Rio ARriba T.D. OFF: 4262
DATE ON: 7-7-76 T.D. ON: 3862
TIME ON: ☐ 8:00 A.M. ☐ 8:00 P.M. FT. DRID.

12
HOUR12
HOUR

☐ FLUID PRESSURE
☐ PUMP STROKES
☐ TORQUE
☐ RPM
☐ % MUD FLOW
☐ % PIT LEVEL

WEIGHT IN 1000 POUNDS

PENETRATION



EL PASO NATURAL GAS COMPANY
SAN JUAN LABORATORY

FRACTIONAL DISTILLATION ANALYSIS ☐

GAS CHROMATOGRAPHY ANALYSIS ☐

Date of Run 10-5-76 Analysis No. VF29588
Sample From Blackwood Nickols Date Secured 10-4-76
Sample Marked N. E. Blanco Unit #64 Secured By DeLasso Loos

COMPONENT	MOL. %	G. P. M.	LIQ. VOL. %
Carbon Dioxide	.92		
Hydrogen Sulfide	.00		
Nitrogen	.20		
Methane	89.95		
Ethane	5.60		
Propane	2.06	.5654	
I-Butane	.34	.1109	
N-Butane	.47	.1477	
I-Pentane	.13	.0474	
N-Pentane	.09	.0325	
Hexane	.24	.1044	
TOTALS	100.00	1.009	

HEATING VALUE
B.T.U. PER CU. FT.
Dry Basis, 14.696 lbs./sq. in., 60° F.
Calculated from % Composition 1107
Calorimeter _____

SULPHUR CONTENT
GRAINS PER 100 CU. FT.
14.7 lbs./sq. in., 60° F.
Hydrogen Sulfide .00
Mercaptans .00

SPECIFIC GRAVITY
14.696 lbs./sq. in., 60° F.
Calculated from % Composition .633
Calculated from % Liquid _____

VAPOR PRESSURE
PSIA at 100° F.
Calculated from Mole % _____

Run By Ross Checked By James

Remarks
R L Ahrens
H. L. Holder
R. U. Ullrich
R. E. Johnson
R. B. Herr
M. E. Blakley
R. F. Lemon
J. E. Ashworth
Don adams
File

Column/s Used
AE&MS
Calculation By
NGPA
Carbon Dioxide
NGPA
Hydrogen Sulfide

LOCATION AND WELL DATA			
Sec. 24	T. 30 N.	R. 8	W.
County	San Juan		
State	New Mexico		
Formation	Mesa Verde		
Bomb Pressure			

EL PASO NATURAL GAS COMPANY
SAN JUAN LABORATORYFRACTIONAL DISTILLATION ANALYSIS ☐GAS CHROMATOGRAPHY ANALYSIS ☐

Date of Run 10-5-76 Analysis No. VF29586
Sample From Blackwood Nickols Date Secured 10-4-76
Sample Marked H. E. Blanco Unit # 34 Secured By DeLasso Loos

COMPONENT	MOL. %	G.P.M.	LIQ. VOL. %
Carbon Dioxide	.14		
Hydrogen Sulfide	.00		
Nitrogen	.32		
Methane	87.93		
Ethane	6.96		
Propane	2.73	.7493	
I-Butane	.55	.1794	
N-Butane	.72	.2263	
I-Pentane	.23	.0839	
N-Pentane	.16	.0573	
Hexane	.26	.1131	
TOTALS	100.00	1.410	

HEATING VALUE
B.T.U. PER CU. FT.

Dry Basis, 14.696 lbs./sq. in., 60° F. 1150
Calculated from % Composition

Calorimeter

SULPHUR CONTENT
GRAINS PER 100 CU. FT.

14.7 lbs./sq. in., 60° F. .00
Hydrogen Sulfide

.00
Mercaptans

SPECIFIC GRAVITY

14.696 lbs./sq. in., 60° F. .650
Calculated from % Composition

Calculated from % Liquid

VAPOR PRESSURE

PSIA at 100° F.
Calculated from Mole %

Run By Ross Checked By James

Remarks
R L Ahrens
H. L. Holder
R. Ullrich
R. E. Johnson
R. B. Herr
M. E. Blakely
R. F. Lemon
J. E. Ashworth
Don Adams
File

Column/s Used
AE&MS
Calculation By
NGPA
Carbon Dioxide
NGPA
Hydrogen Sulfide

LOCATION AND WELL DATA				
Sec. <u>19</u>	T. <u>30</u>	N. <u></u>	R. <u>7</u>	W. <u></u>
County				
<u>Rio Arriba</u>				
State				
<u>New Mexico</u>				
Formation				
<u>Mesa Verde</u>				
Bomb Pressure				

EL PASO NATURAL GAS COMPANY
SAN JUAN LABORATORYFRACTIONAL DISTILLATION ANALYSIS ☐GAS CHROMATOGRAPHY ANALYSIS ☐

Date of Run 10-5-76 Analysis No. VF29687
Sample From Blackwood Nickols Date Secured 10-4-76
Sample Marked N. E. Blanco Unit # 105 Secured By DeLasso Loos

COMPONENT	MOL. %	G. P. M.	LIQ. VOL. %
Carbon Dioxide	.87		
Hydrogen Sulfide	.00		
Nitrogen	.28		
Methane	88.33		
Ethane	6.31		
Propane	2.46	.6752	
I-Butane	.48	.1565	
N-Butane	.64	.2012	
I-Pentane	.20	.0730	
N-Pentane	.13	.0469	
Hexane	.30	.1305	
TOTALS	100.00	1.284	

HEATING VALUE
B.T.U. PER CU. FT.

Dry Basis, 14.696 lbs./sq. in., 60° F.
Calculated from % Composition 1131

Colorimeter SULPHUR CONTENT
GRAINS PER 100 CU. FT.

14.7 lbs./sq. in., 60° F.
Hydrogen Sulfide .00

Mercaptans .00

SPECIFIC GRAVITY

14.696 lbs./sq. in., 60° F.
Calculated from % Composition .649

Calculated from % Liquid

VAPOR PRESSURE

PSIA at 100° F.
Calculated from Mole %

Column/s Used

AE&MS

Calculation By

NGPA

Carbon Dioxide

NGPA

Hydrogen Sulfide

Run By <u>Ross</u> Checked By <u>James</u>
Remarks
<u>R. L. Ahrens</u>
<u>H. L. Holder</u>
<u>R. Ullrich</u>
<u>R. E. Johnson</u>
<u>R. B. Herr</u>
<u>M. E. Blakley</u>
<u>R. F. Lemon</u>
<u>J. E. Ashworth</u>
<u>Don Adams</u>
File

LOCATION AND WELL DATA

Sec. 24 T. 30 N. 8 W.

County

San Juan

State

New Mexico

Formation

Mesa Verde

Bomb Pressure

SCHEFFER WELL SIEVING CORPORATION

COUNTY RIO ARRIBA, N.M.
 FIELD or LOCATION NE BLANCO
 WELL NE BLANCO UNIT
 #31-19
 COMPANY BLACKWOOD & NICHOLS

COMPANY BLACKWOOD & NICHOLS
 WELL NE BLANCO UNIT
 #31-19
 FIELD NE BLANCO
 LOCATION SEC. 19-30N-7W
 COUNTY RIO ARRIBA
 STATE NEW MEXICO

Location of Well
 990' FR S/L
 800' FR W/L
 SEC. 19-30N-7W
 GRN
 (TEMP)
 Elevation: D.E. 6374
 K.B. 6373
 or G.L.

WELL NO. ONE

DATE 1-23-57
 DEPTH 100'
 FIRST 200'
 100' 200'
 200' 300'
 300' 400'
 400' 500'
 500' 600'
 600' 700'
 700' 800'
 800' 900'
 900' 1000'
 1000' 1100'
 1100' 1200'
 1200' 1300'
 1300' 1400'
 1400' 1500'
 1500' 1600'
 1600' 1700'
 1700' 1800'
 1800' 1900'
 1900' 2000'
 2000' 2100'
 2100' 2200'
 2200' 2300'
 2300' 2400'
 2400' 2500'
 2500' 2600'
 2600' 2700'
 2700' 2800'
 2800' 2900'
 2900' 3000'
 3000' 3100'
 3100' 3200'
 3200' 3300'
 3300' 3400'
 3400' 3500'
 3500' 3600'
 3600' 3700'
 3700' 3800'
 3800' 3900'
 3900' 4000'
 4000' 4100'
 4100' 4200'
 4200' 4300'
 4300' 4400'
 4400' 4500'
 4500' 4600'
 4600' 4700'
 4700' 4800'
 4800' 4900'
 4900' 5000'
 5000' 5100'
 5100' 5200'
 5200' 5300'
 5300' 5400'
 5400' 5500'
 5500' 5600'
 5600' 5700'
 5700' 5800'
 5800' 5900'
 5900' 6000'
 6000' 6100'
 6100' 6200'
 6200' 6300'
 6300' 6400'
 6400' 6500'
 6500' 6600'
 6600' 6700'
 6700' 6800'
 6800' 6900'
 6900' 7000'
 7000' 7100'
 7100' 7200'
 7200' 7300'
 7300' 7400'
 7400' 7500'
 7500' 7600'
 7600' 7700'
 7700' 7800'
 7800' 7900'
 7900' 8000'
 8000' 8100'
 8100' 8200'
 8200' 8300'
 8300' 8400'
 8400' 8500'
 8500' 8600'
 8600' 8700'
 8700' 8800'
 8800' 8900'
 8900' 9000'
 9000' 9100'
 9100' 9200'
 9200' 9300'
 9300' 9400'
 9400' 9500'
 9500' 9600'
 9600' 9700'
 9700' 9800'
 9800' 9900'
 9900' 10000'

REMARKS:	CORRECTION	BACKSCATTER COR.	TEST SOURCE	CLAY TO BE REAS. DIVISIONS	PANEL TENS. TAP FOR CAL
GAMMA RAY	150	480	100	400	
NEUTRON	8	208	100	400	

ILLEGIBLE

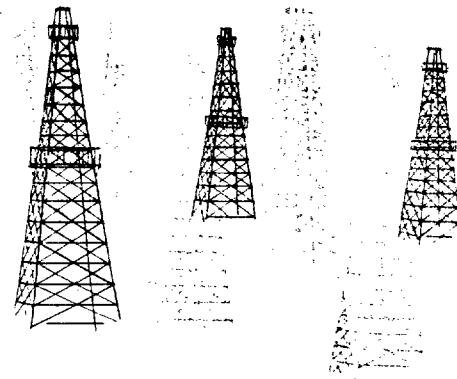
GAMMA RAY MICROGRAMS RA-EQ TON	DEPTH	NEUTRON STANDARD COUNTS SECOND
GAMMA RAY ZERO 4 DIV. TO LEFT OF THIS LINE	2" 100'	NEUTRON ZERO 14 DIV. TO LEFT OF THIS LINE
9 14 L.R. 180'	350 600 850	
	0200 0300	

Handwritten signature

Handwritten signature

Blackwood & Nichols Company

2013 FIRST NATIONAL CENTER • OKLAHOMA CITY, OKLAHOMA 73102

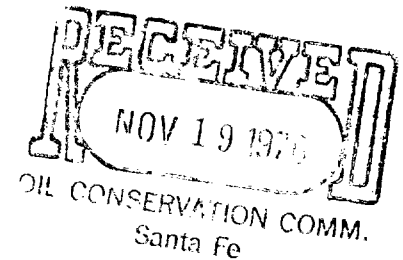


November 12, 1976

The Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501



RE: NORTHEAST BLANCO UNIT
No. 1, Sec. 929
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

Tract 23, containing 10.31 acres, was committed to the participating area as of November 1, 1976.

Enclosed are four copies of Exhibit "B" which reflect the ownership in Tract 23.

Please acknowledge receipt of the Exhibit and return one approved copy to us at your earliest convenience. Upon approval, one copy of this Exhibit will be furnished to all working interest owners.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

A handwritten signature in cursive script, appearing to read 'C. Bowles'.

C. Bowles
Land Department

CB
Encls

EXHIBIT "B"
 NORTHEAST BLANCO UNIT, 1-SEC. NO. 929
 SAN JUAN AND RIO ARriba COUNTIES, NEW MEXICO
SIXTH ENLARGED PARTICIPATING AREA

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
<u>Tract 1-A</u>				
Lessee: Ben R. Howell				
Serial # SF 078581 A				
Lease Description:				
<u>T30N R8W</u>				
Sec. 1: W 1/2				
Sec. 12: NW/4, E/2 SW/4, NW/4 SW/4				
Amount of Acreage:	596.07	.0183361		
Overriding Royalty:				
Ben R. Howell et al 1%			.0001834	
Royalty: USA - 12-1/2%			.0022920	
Operating Rights:				
El Paso Natural Gas - ALL			<u>.0158607</u>	<u>.0183361</u>
Sub TOTAL - this lease			.0183361	.0183361
<u>Tract 1-B</u>				
Lessee: P. M. McCulley				
Serial # SF 078581				
Lease Description:				
<u>T30N R8W</u>				
Sec. 1: E/2				
Sec. 12: E/2				
Amount of Acreage:	616.32	.0189590		
Overriding Royalties:				
Mercantile Natl. Bank of Dallas, and 30 others totalling 17-1/2%			.0033178	
P. M. McCulley 1% (until \$25 per acre is paid and thereafter 1/2 of 1%)			.0001896	
Royalty: USA - 12-1/2%			.0023699	
Operating Rights:				
Tenneco and Continental - ALL			<u>.0130817</u>	<u>.0189590</u>
Sub TOTAL - this lease			.0189590	.0189590

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 2-A

Lessee: Ben R. Howell and
Paul B. Horton

Serial # SF 078615

Lease Description:

T30N R8W

Sec. 24: W/2

Amount of Acreage 320.00 .0098437

Overriding Royalties:

Ben R. Howell et al 1% .0000983

Royalty: USA - 12-1/2% .0012305

Operating Rights:

El Paso Natural Gas - ALL .0085149 .0098437

Sub TOTAL this lease .0098437 .0098437

Tract 2-B

Lessee: P. M. McCulley and
Paul B. Horton

Serial # SF 078615 A

Lease Description:

T30N R8W

Sec. 24: E/2

Amount of Acreage: 320.00 .0098437

Overriding Royalties:

Mercantile Natl. Bank of Dallas,
and 30 others totalling 17-1/2% .0017226

Paul B. Horton 1% (until \$25 per
acre is paid and thereafter
1/2 of 1%) .0000984

Royalty: USA - 12-1/2% .0012305

Operating Rights:

Tenneco and Continental - ALL .0067922 .0098437

Sub TOTAL this lease .0098437 .0098437

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 3

Lessee: Phillips Drilling Company

Serial # NM 014226

Lease Description:

T30N R8W

Sec. 13: S/2 SE/4

Amount of Acreage: 80.00 .0024609

Overriding Royalties: None

Royalty: USA - 12-1/2% .0003076

Operating Rights:

H. H. Phillips	875/2240	.0008412	.0009613
Ruth Phillips Bisiker	525/2240	.0005047	.0005767
Castle, Inc.	500/2240	.0004806	.0005493
Winnie A. Phillips	100/2240	.0000961	.0001099
H. H. Phillips, Jr.	80/2240	.0000769	.0000879
Jane Phillips Ladouceur	80/2240	.0000769	.0000879
Susanna Phillips Kelly	80/2240	<u>.0000769</u>	<u>.0000879</u>
Sub TOTAL this lease		.0024609	.0024609

Tract 4

Lessee: Amoco Production Company et al

Serial # SF 078970

Lease Description:

T31N R6W

Sec. 18: N/2

Amount of Acreage: 320.00 .0098437

Overriding Royalties: None

Royalty: USA - 12-1/2% .0012305

Operating Rights:

Amoco Production Company - 1/2		.0043066	.0049218
El Paso Natural Gas - 7/64		.0009421	.0010767
Blackwood & Nichols Co., Ltd. 86.485606%			
of 25/64		.0029098	.0033255
Westland Oil Development Corporation 11.582241%			
of 25/64		.0003897	.0004454
Thayer H. Laurie 1.203736% of 25/64		.0000405	.0000463
Thayer H. Laurie & David N. Mills, Trs. .728417%			
of 25/64		<u>.0000245</u>	<u>.0000280</u>
Sub TOTAL this lease		.0098437	.0098437

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 5

Lessee: Amoco Production Company,
et al

Serial # SF 078988

Lease Description:

T31N R6W

Sec. 6: S/2

Sec. 7: All

Sec. 18: S/2

Sec. 19: All

Sec. 20: All

Amount of Acreage: 2,560.00 .0787499

Overriding Royalties:

Southland Royalty Company 1-1/2% .0011813

Dan W. Johnson et al for a total
of 1% .0007875

Royalty: USA - 12-1/2% .0098437

Operating Rights:

Amoco Production Company 1/2 .0334687 .0393749

El Paso Natural Gas - 7/64 .0073213 .0086133

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0226137 .0266044

Westland Oil Development Corporation 11.582241%
of 25/64 .0030285 .0035629

Thayer H. Laurie 1.203736% of 25/64 .0003147 .0003703

Thayer H. Laurie & David N. Mills, Trs. .728417%
of 25/64 .0001905 .0002241

Sub TOTAL this lease .0787499 .0787499

Tract 6 A

Lessee: C. C. Peters

Serial # SF 079001

Lease Description:

T30N R7W

Sec. 3: Lots, 5, 6, S/2 NE/4, SE/4

Sec. 10: W/2

Amount of Acreage: 638.75 .0196490

Overriding Royalties:

Gladys Watford and 56 others
for a total of 21% .0041263

Royalty: USA - 12-1/2% .0024561

Operating Rights:

El Paso Natural Gas - ALL .0130666 .0196490

Sub TOTAL this lease ,0196490 .0196490

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
<u>Tract 6 B</u>				
Lessee: Ben R. Howell				
Serial # SF 079001 A				
Lease Description:				
<u>T30N R7W</u>				
Sec. 3: Lots 7, 8, S/2 NW/4, SW/4				
Sec. 10: E/2				
Amount of Acreage:	639.13	.0196607		
Overriding Royalties:				
Ben R. Howell and 30 others				
for a total of 3 1/2%			.0006881	
Royalty: USA - 12 1/2%			.0024576	
Operating Rights:				
El Paso Natural Gas - All			<u>.0165150</u>	<u>.0196607</u>
Sub TOTAL this lease			<u>.0196607</u>	<u>.0196607</u>
<u>Tract 7</u>				
Lessee: Amoco Production Company,				
et al				
Serial # SF 079003				
Lease Description:				
<u>T31N R7W</u>				
Sec. 22: All				
Sec. 27: All				
Sec. 34: All				
Sec. 35: All				
Amount of Acreage:	2,560.00	.0787499		
Overriding Royalties:				
Southland Royalty Co. and 17				
others for a total of 2 1/2%			.0019688	
Royalty: USA - 12 1/2%			.0098437	
Operating Rights:				
Amoco Production Company 1/2			.0334687	.0393749
El Paso Natural Gas - 7/64			.0073213	.0086133
Blackwood & Nichols Co., Ltd. 86.485606%				
of 25/64			.0226137	.0266044
Westland Oil Development Corporation 11.582241%				
of 25/64			.0030285	.0035629
Thayer H. Laurie 1.203736% of 25/64			.0003147	.0003703
Thayer H. Laurie & David N. Mills, Trs. .728417%				
of 25/64			<u>.0001905</u>	<u>.0002241</u>
Sub TOTAL this lease			<u>.0787499</u>	<u>.0787499</u>

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 8 A

Lessee: Amoco Production Company,
et al

Serial # SF 079010

Lease Description:

T31N R7W

Sec. 25: NE/4, SE/4 NW/4, S/2

Amount of Acreage: 520.00 .0159961

Overriding Royalties:

Bloomfield Gas 2 1/2% .0003999

Royalty: USA - 12 1/2% .0019995

Operating Rights:

Amoco Production Company 1/2 .0067984 .0079980

El Paso Natural Gas - 7/64 .0014871 .0017496

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0045934 .0054041

Westland Oil Development Corporation 11.582241%
of 25/64 .0006152 .0007237

Thayer H. Laurie 1.203736% of 25/64 .0000639 .0000752

Thayer H. Laurie & David N. Mills, Trs. .728417%
of 25/64 .0000387 .0000455

Sub TOTAL this lease .0159961 .0159961

Tract 8 B

Lessee: Amoco Production Company,
et al

Serial # SF 079010-A

Lease Description:

T31N R7W

Sec. 23: All

Sec. 24: All

Sec. 25: N/2 NW/4, SW/4 NW/4

Sec. 26: All

Amount of Acreage: 2,040.00 .0627538

Overriding Royalties:

Southland Royalty Co. and 18
others for a total of 2 1/2% .0015689

Royalty: USA - 12 1/2% .0078442

Operating Rights:

Amoco Production Company 1/2 .0266704 .0313769

El Paso Natural Gas 7/64 .0058341 .0068637

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0180203 .0212004

Westland Oil Development Corporation 11.582241%
of 25/64 .0024133 .0028392

Thayer H. Laurie 1.203736% of 25/64 .0002508 .0002951

Thayer H. Laurie & David N. Mills, Trs. .728417%
of 25/64 .0001518 .0001785

Sub TOTAL this lease .0627538 .0627538

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
<u>Tract 9</u>				
Lessee: Amoco Production Company, et al				
Serial # SF 079042				
Lease Description:				
<u>T30N R7W</u>				
Sec. 5: All				
Sec. 6: Lots 8 - 21 inclusive, SE/4 NW/4, NE/4 SW/4				
Sec. 7: Lots 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, E/2 NE/4				
Sec. 8: Lots 1, 2, 3, E/2, NW/4				
Amount of Acreage:	1,779.91	.0547530		
Overriding Royalties:				
Union Oil Company 2 1/2%			.0013688	
Royalty: USA - 12 1/2%			.0068441	
Operating Rights:				
Amoco Production Company 1/2			.0232701	.0273765
El Paso Natural Gas 7/64			.0050903	.0059886
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64			.0157228	.0184975
Westland Oil Development Corporation 11.582241% of 25/64			.0021056	.0024772
Thayer H. Laurie 1.203736% of 25/64			.0002189	.0002574
Thayer H. Laurie & David N. Mills, Trs. .728417% of 25/64			<u>.0001324</u>	<u>.0001558</u>
Sub TOTAL this lease			<u>.0547530</u>	<u>.0547530</u>
<u>Tract 10</u>				
Lessee: Amoco Production Company, et al				
Serial # SF 079043				
Lease Description:				
<u>T31N R7W</u>				
Sec. 28: All				
Sec. 31: Lots 6, 9, 10, 13				
Sec. 33: All				
<u>T30N R7W</u>				
Sec. 4: Lots 5, 6, 7, 8, S/2 N/2, SE/4				
Sec. 9: N/2, W/2 SW/4				
Amount of Acreage:	2,314.56	.0711998		
Overriding Royalties:				
Union Oil Company 2 1/2%			.0017800	
Royalty: USA - 12 1/2%			.0089000	
Operating Rights:				
Amoco Production Company 1/2			.0302599	.0355999
El Paso Natural Gas 7/64			.0066194	.0077875
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64			.0204456	.0240537
Westland Oil Development Corporation 11.582241% of 25/64			.0027381	.0032213
Thayer H. Laurie 1.203736% of 25/64			.0002846	.0003348
Thayer H. Laurie & David N. Mills, Trs. .728417% of 25/64			<u>.0001722</u>	<u>.0002026</u>
Sub TOTAL this lease			<u>.0711998</u>	<u>.0711998</u>

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 11

Lessee: Amoco Production Company,
et al

Serial # SF 079045

Lease Description:

T31N R7W

Sec. 20: E/2, E/2 W/2, W/2 SW/4

Sec. 21: All

Sec. 29: All

Sec. 30: Lots 7, 8, 11, 12,
W/2 NE/4, SE/4 NE/4

Amount of Acreage: 2,056.12 .0632497

Overriding Royalties:

Union Oil Company 2 1/2% .0015812

Royalty: USA - 12 1/2% .0079062

Operating Rights:

Amoco Production Company 1/2 .0268811 .0316249

El Paso Natural Gas 7/64 .0058803 .0069179

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0181627 .0213679

Westland Oil Development Corporation 11.582241%
of 25/64 .0024324 .0028616

Thayer H. Laurie 1.203736% of 25/64 .0002528 .0002974

Thayer H. Laurie & David N. Mills, Trs. .728417%
of 25/64 .0001530 .0001800

Sub TOTAL this lease .0632497 .0632497

Tract 12

Lessee: Northwest Pipeline Corporation

Serial # SF 079053

Lease Description:

T30N R7W

Sec. 19: Lots 12, 13, E/2 SW/4

Amount of Acreage: 103.60 .0031869

Overriding Royalties:

Mary C. Hagood and L. N.
Hagood 5% .0001593

Royalty: USA - 12 1/2% .0003984

Operating Rights:

Northwest Pipeline Corporation - All .0026292 .0031869

Sub TOTAL this lease .0031869 .0031869

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
<u>Tract 13</u>				
Lessee: Amoco Production Company, et al				
Serial # SF 079060				
Lease Description:				
<u>T30N R7W</u>				
Sec. 9: SE/4, E/2 SW/4				
Sec. 17: N/2 NE/4, SE/4 NE/4, E/2 SE/4				
Sec. 19: Lots 10, 11, S/2 SE/4				
Sec. 20: NE/4, E/2 NW/4, S/2				
Sec. 21: All				
Sec. 22: W/2 NW/4, NW/4 SW/4				
Sec. 29: N/2				
Amount of Acreage:	2,236.44	.0687967		
Overriding Royalties:				
W. B. Collins 1 1/4%			.0008600	
First Nat'l Bank, Midland 1 1/4%			.0008600	
Royalty: USA - 12 1/2%			.0085995	
Operating Rights:				
Amoco Production Company 1/2			.0292386	.0343984
El Paso Natural Gas 7/64			.0063959	.0075246
Blackwood & Nichols Co., Ltd. 86.485606%				
of 25/64			.0197556	.0232419
Westland Oil Development Corporation 11.582241%				
of 25/64			.0026457	.0031126
Thayer H. Laurie 1.203736% of 25/64			.0002750	.0003235
Thayer H. Laurie & David N. Mills, Trs. .728417%				
of 25/64			.0001664	.0001957
Sub TOTAL this lease			.0687967	.0687967

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 14

Lessee: Amoco Production Company et al

Serial # SF 079073

Lease Description:

T30N R7W

Sec. 18: Lots 5 - 14 inclusive,
E/2 W/2

Amount of Acreage: 371.07 .0114147

Overriding Royalties:

Gideon Mayfield 2-1/2% .0002854

Royalty: USA - 12-1/2% .0014268

Operating Rights:

Amoco Production Company 1/2 .0048513 .0057073

El Paso Natural Gas 7/64 .0010612 .0012485

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64 .0032778 .0038563

Westland Oil Development Corporation 11.582241% of
25/64 .0004390 .0005164

Thayer H. Laurie 1.203736% of 25/64 .0000456 .0000537

Thayer H. Laurie & David N.Mills, Trs. .728417% of
25/64 .0000276 .0000325

Sub TOTAL this lease .0114147 .0114147

Tract 15

Lessee: Northwest Pipeline Corporation

Serial # NM 013706-A

Lease Description:

T30N R7W

Sec. 17: Lots, 6, 7, 8

Sec. 20: Lots 1, 2

Amount of Acreage: 133.12 .0040950

Overriding Royalties: None

Royalty: USA - 12-1/2% .0005119

Operating Rights:

Northwest Pipeline Corporation - All .0035831 .0040950

Sub TOTAL this lease .0040950 .0040950

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 16 A

Lessee: Amoco Production Company et al

Serial # SF 079082

Lease Description:

T31N R7W

Sec. 19: Lots 5, 6, 7, 8

Sec. 30: Lots 5, 6, 9, 10,
E/2 W/2

Sec. 31: Lots 5, 7, 8, 11, 12, 14,
E/2 W/2

T31N R8W

Sec. 25: N/2, SW/4

T30N R7W

Sec. 17: Lots, 1, 3, 4

Sec. 18: SW/4 NE/4

Amount of Acreage: 1,022.45 .0314523

Overriding Royalties:

Amoco Production Company et al 2-1/2% .0007863

Royalty: USA - 12-1/2% .0039315

Operating Rights:

Amoco Production Company 1/2 .0133672 .0157261

El Paso Natural Gas 7/64 .0029241 .0034401

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64 .0090319 .0106257

Westland Oil Development Corporation 11.582241% of
25/64 .0012096 .0014230

Thayer H. Laurie 1.203736% of 25/64 .0001257 .0001479

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/64 .0000760 .0000895

Sub TOTAL this lease .0314523 .0314523

Tract 16 B

Lessee: Northwest Pipeline Corporation

Serial # SF 079082 A

Lease Description:

T31N R8W

Sec. 25: SE/4

T30N R7W

Sec. 17: Lots 2, 5

Amount of Acreage: 211.62 .0065098

Overriding Royalties:

Amoco Production Company et al 5% .0003255

Royalty: USA - 12-1/2% .0008137

Operating Rights:

Northwest Pipeline Corporation - All .0053706 .0065098

Sub TOTAL this lease .0065098 .0065098

TRACT	PARTICIPATION		GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
	ACREAGE COMMITTED	TRACT PARTICIPATION		

Tract 17

Lessee: El Paso Natural Gas Company

Serial # SF 079511

Lease Description:

T30N R8W

Sec. 13: SW/4 NW/4, W/2 SW/4, SE/4 SW/4

Amount of Acreage: 140.03 .0043076

Overriding Royalties:

Tom Bolack 2%

.0000862

Ben R. Howell et al 1%

.0000431

Royalty: USA - 12-1/2%

.0005384

Operating Rights:

El Paso Natural Gas - All

.0036399

.0043076

Sub TOTAL this lease

.0043076

.0043076

Tract 18

Lessee: Amoco Production Company et al

Serial # SF 080557

Lease Description:

T31N R7W

Sec. 19: W/2 E/2, E/2 W/2

Amount of Acreage: 320.00 .0098437

Overriding Royalties:

W. B. Collins 1-1/4%

.0001230

First Natl. Bank of Midland 1-1/4%

.0001230

Royalty: USA - 12-1/2%

.0012305

Operating Rights:

Amoco Production Company 1/2

.0041836

.0049218

El Paso Natural Gas 7/64

.0009152

.0010767

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64

.0028267

.0033255

Westland Oil Development Corporation 11.582241% of
25/64

.0003786

.0004454

Thayer H. Laurie 1.203736% of 25/64

.0000393

.0000463

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/64

.0000238

.0000280

Sub TOTAL this lease

.0098437

.0098437

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 19

Lessee: Blackwood & Nichols Co., Ltd.

et al

Serial # NM-03356

Lease Description:

T31N R7W

Sec. 14: W/2 W/2, SE/4 NW/4

Sec. 15: All

Amount of Acreage: 840.00 .0258398

Overriding Royalties:

John E. Wells et al 5% .0012920

Royalty: USA - 12 1/2% .0032300

Operating Rights:

El Paso Natural Gas 7/32 .0046633 .0056525

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/32 .0144037 .0174591

Westland Oil Development Corporation 11.582241%
of 25/32 .0019290 .0023381

Thayer H. Laurie 1.203736% of 25/32 .0002005 .0002430

Thayer H. Laurie & David N. Mills, Trs. .728417%
of 25/32 .0001213 .0001471

Sub TOTAL this lease .0258398 .0258398

Tract 20

Lessee: Blackwood & Nichols Co., Ltd.

et al

Serial # NM-03357

Lease Description:

T31N R6W

Sec. 30: All

Amount of Acreage: 640.00 .0196875

Overriding Royalties:

C. S. Page, Jr. et al 5% .0009844

Royalty: USA - 12 1/2% .0024609

Operating Rights:

El Paso Natural Gas 7/32 .0035530 .0043066

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/32 .0109743 .0133023

Westland Oil Development Corporation 11.582241%
of 25/32 .0014697 .0017815

Thayer H. Laurie 1.203736% of 25/32 .0001528 .0001851

Thayer H. Laurie and David N. Mills, Trs. .728417%
of 25/32 .0000924 .0001120

Sub TOTAL this lease .0196875 .0196875

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 21 A

Lessee: Blackwood & Nichols Co., Ltd.
et al

Serial # NM-03358

Lease Description:

T31N R7W

Sec. 1: Lots 6, 7, 8, E/2 SE/4
Sec. 10: S/2
Sec. 11: N/2, N/2 SW/4, SW/4 SW/4
Sec. 12: S/2 NW/4, E/2 SW/4, E/2
Sec. 13: All
Sec. 14: E/2, E/2 SW/4

Amount of Acreage: 2,396.77 .0737287

Overriding Royalties:

C. S. Page, Jr. et al 5% .0036864

Royalty: USA - 12 1/2% .0092161

Operating Rights:

El Paso Natural Gas 7/32 .0133057 .0161282

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/32 .0410984 .0498161

Westland Oil Development Corporation 11.582241%
of 25/32 .0055039 .0066714

Thayer H. Laurie 1.203736% of 25/32 .0005720 .0006934

Thayer H. Laurie and David N. Mills, Trs. .728417%
of 25/32 .0003462 .0004196

Sub TOTAL this lease .0737287 .0737287

Tract 21 B

Lessee: Blackwood & Nichols Co., Ltd.
et al

Serial # NM-05058

Lease Description:

T31N R6W

Sec. 6: Lots 8, 9, 10, 11

Amount of Acreage: 31.89 .0009810

Overriding Royalties: None

Royalty: USA - 12 1/2% .0001226

Operating Rights:

El Paso Natural Gas 7/32 .0001878 .0002146

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/32 .0005800 .0006628

Westland Oil Development Corporation 11.582241%
of 25/32 .0000776 .0000888

Thayer H. Laurie 1.203736% of 25/32 .0000081 .0000092

Thayer H. Laurie and David N. Mills Trs. .728417%
of 25/32 .0000049 .0000056

Sub TOTAL this lease .0009810 .0009810

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 22

Lessee: Amoco Production Company
et al

Serial # NM-03845

Lease Description:

T30N R7W

Sec. 19: Lots 5, 6, 7, 8, 9,
E/2 NW/4

Amount of Acreage: 166.76 .0051298

Overriding Royalties: None

Royalty: USA - 12 1/2% .0006412

Operating Rights:

Amoco Production Company 1/2 .0022443 .0025649

El Paso Natural Gas 7/64 .0004909 .0005611

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0015164 .0017330

Westland Oil Development Corporation 11.582241%
of 25/64 .0002031 .0002321

Thayer H. Laurie 1.203736% of 25/64 .0000211 .0000241

Thayer H. Laurie and David N. Mills Trs. .728417%
of 25/64 .0000128 .0000146

Sub TOTAL this lease .0051298 .0051298

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
<u>Tract 23</u>				
Lessee: Blackwood & Nichols Co., Ltd.				
Serial # NM 28758				
Lease Description:				
<u>T31N R7W</u>				
Sec. 1: Lot 5				
Amount of Acreage	10.31	.0003172		
Overriding Royalties: None				
Royalty: USA - 12-1/2%			.0000396	
Operating Rights:				
Blackwood & Nichols Co., Ltd.	29.805862%		.0000827	.0000945
Amoco Production Company	32.975933%		.0000915	.0001046
El Paso Natural Gas Company	21.199416%		.0000588	.0000672
The Wiser Oil Company	.488466%		.0000014	.0000016
Jacquelyn M. Williams	.260911%		.0000007	.0000008
Texaco, Inc.	.861600%		.0000024	.0000027
H. H. Phillips	.096160%		.0000003	.0000003
Jane Phillips Ladouceur	.008792%		.0000000	.0000000
Winnie A. Phillips	.010990%		.0000000	.0000000
H. H. Phillips, Jr.	.008792%		.0000000	.0000000
Castle, Inc.	.054949%		.0000002	.0000002
Ruth Phillips Bisiker	.057696%		.0000002	.0000002
Susanna Phillips Kelly	.008792%		.0000000	.0000000
Tenneco Oil Company	1.440596%		.0000040	.0000046
Continental Oil Company	1.440595%		.0000040	.0000046
Northwest Pipeline Corporation	5.536260%		.0000154	.0000176
Westland Oil Development Corporation	4.940999%		.0000137	.0000157
Thayer H. Laurie	.492448%		.0000014	.0000016
Thayer H. Laurie & David N. Mills, Trs.	.310743%		.0000009	.0000010
Sub TOTAL this lease			.0003172	.0003172

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 24

Lessee: El Paso Natural Gas

Serial # E-3150-1

Lease Description:

T31N R7W

Sec. 16: N/2 NE/4, NE/4 NW/4
NE/4 SW/4, SE/4

Amount of Acreage: 320.00 .0098437

Overriding Royalties:

John Burroughs 5%

.0004922

Royalty: State of New Mexico - 12 1/2%

.0012305

Operating Rights:

El Paso Natural Gas - All

.0081210

.0098437

Sub TOTAL this lease

.0098437

.0098437

Tract 25

Lessee: Northwest Pipeline Corporation

Serial # E-3707-4

Lease Description:

T31N R7W

Sec. 16: SW/4 NE/4

Amount of Acreage: 40.00 .0012305

Overriding Royalties:

Gideon Mayfield et al 5%

.0000614

Royalty: State of New Mexico - 12 1/2%

.0001539

Operating Rights:

Northwest Pipeline Corporation - All

.0010152

.0012305

Sub TOTAL this lease

.0012305

.0012305

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 26

Lessee: Amoco Production Company
et al

Serial # E-178-1

Lease Description:

T31N R7W

Sec. 16: W/2 W/2

Amount of Acreage: 160.00 .0049219

Overriding Royalties: None

Royalty: State of New Mexico - 12 1/2% .0006152

Operating Rights:

Amoco Production Company 1/2 .0021534 .0024610

El Paso Natural Gas 7/64 .0004710 .0005383

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64 .0014549 .0016628

Westland Oil Development Corporation 11.582241%
of 25/64 .0001948 .0002227

Thayer H. Laurie 1.203736% of 25/64 .0000203 .0000231

Thayer H. Laurie and David N. Mills, Trs. .728417%
of 25/64 .0000123 .0000140

Sub TOTAL this lease .0049219 .0049219

Tract 27

Lessee: Texaco, Inc.

Serial # E-5382

Lease Description:

T31N R7W

Sec. 16: SE/4 NE/4, SE/4 NW/4
SE/4 SW/4

Amount of Acreage: 120.00 .0036914

Overriding Royalties: None

Royalty: State of New Mexico - 12 1/2% .0004614

Operating Rights:

Texaco, Inc. - All .0032300 .0036914

Sub TOTAL this lease .0036914 .0036914

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 28

Lessee: Amoco Production Company
et al

Serial # E-178-1

Lease Description:

T31N R7W

Sec. 32: E/2

Amount of Acreage: 320.00 .0098437

Overriding Royalties: None

Royalty: State of New Mexico - 12 1/2% .0012305

Operating Rights:

Amoco Production Company 1/2 .0043066 .0049218

El Paso Natural Gas 7/64 .0009421 .0010767

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0029098 .0033255

Westland Oil Development Corporation 11.582241%
of 25/64 .0003897 .0004454

Thayer H. Laurie 1.203736% of 25/64 .0000405 .0000463

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000245 .0000280

Sub TOTAL this lease .0098437 .0098437

Tract 29

Lessee: Jacquelyn M. Williams

Serial # E-3948-1

Lease Description:

T31N R7W

Sec. 32: NE/4 NW/4

Amount of Acreage: 40.00 .0012305

Overriding Royalties:

Edward J. Haag 12 1/2% .0001538

Royalty: State of New Mexico - 12 1/2% .0001538

Operating Rights:

Jacquelyn M. Williams - All .0009229 .0012305

Sub TOTAL this lease .0012305 .0012305

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 30

Lessee: Northwest Pipeline Corporation

Serial # E-292-9

Lease Description:

T21N R7W

Sec. 32: SE/4 NW/4, NE/4 SW/4

Amount of Acreage: 80.00 .0024609

Overriding Royalties:

Levi A. Hughes 5% (until \$500
per acre is paid)

.0001230

Royalty: State of New Mexico - 12 1/2%

.0003076

Operating Rights:

Northwest Pipeline Corporation - All

.0020303

.0024609

Sub TOTAL this lease

.0024609

.0024609

Tract 31

Lessee: Jacquelyn M. Williams

Serial # E-453-4

Lease Description:

T31N R7W

Sec. 32: Lots 1, 2, 3

Amount of Acreage: 44.79 .0013778

Overriding Royalties:

Gulf Oil Corporation 12 1/2%

.0001722

Royalty: State of New Mexico 12 1/2%

.0001722

Operating Rights:

Jacquelyn M. Williams - All

.0010334

.0013778

Sub TOTAL this lease

.0013778

.0013778

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 32

Lessee: Blackwood & Nichols Co., Ltd.
et al

Serial # B-11125-54

Lease Description:

T31N R7W

Sec. 32: Lot 4, SE/4 SW/4

Amount of Acreage: 68.32 .0021016

Overriding Royalties:

Floyd A. Lewin et al 5% .0001051

Royalty: State of New Mexico - 12 1/2% .0002627

Operating Rights:

El Paso Natural Gas 7/32 .0003793 .0004597

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/32 .0011714 .0014200

Westland Oil Development Corporation 11.582241%
of 25/32 .0001569 .0001902

Thayer H. Laurie 1.203736% of 25/32 .0000163 .0000198

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/32 .0000099 .0000119

Sub TOTAL this lease .0021016 .0021016

Tract 33

Lessee: El Paso Natural Gas

Serial # E-505-6

Lease Description:

T31N R7W

Sec. 36: All

Amount of Acreage: 640.00 .0196875

Overriding Royalties:

Tenneco Oil Company & Others 21.875% .0043067

Royalty: State of New Mexico - 12 1/2% .0024609

Operating Rights:

El Paso Natural Gas - All (65.625) .0129199 .0196875

Sub TOTAL this lease .0196875 .0196875

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 34

Lessee: The Wiser Oil Company

Serial # E-289-3

Lease Description:

T30N R7W

Sec. 2: NE/4

Amount of Acreage: 158.74 .0048831

Overriding Royalties: None

Royalty: State of New Mexico - 12 1/2% .0006104

Operating Rights:

The Wiser Oil Company - All

Sub TOTAL this lease .0042727 .0048831
.0048831 .0048831

Tract 35

Lessee: Northwest Pipeline Corporation

Serial # E-289-24

Lease Description:

T30N R7W

Sec. 2: Lot 7, SE/4 NW/4

Amount of Acreage: 79.33 .0024403

Overriding Royalties:

Hondo Oil & Gas Company 5% .0001220

Royalty: State of New Mexico - 12 1/2% .0003050

Operating Rights:

Northwest Pipeline Corporation - All

Sub TOTAL this lease .0020133 .0024403
.0024403 .0024403

Tract 36

Lessee: Northwest Pipeline Corporation

Serial # E-289-23

Lease Description:

T30N R7W

Sec. 2: Lot 8, S/2, SW/4 NW/4

Amount of Acreage: 399.29 .0122828

Overriding Royalties:

Levi A. Hughes 5% (until \$500
per acre is paid) .0006141

Royalty: State of New Mexico - 12 1/2% .0015354

Operating Rights:

Northwest Pipeline Corporation - All

Sub TOTAL this lease .0101333 .0122828
.0122828 .0122828

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 38

Lessee: Amoco Production Company
et al

Serial # E-178-1

Lease Description:

T30N R7W

Sec. 16: W/2

Amount of Acreage: 320.00 .0098437

Overriding Royalties: None

Royalty: State of New Mexico - 12 1/2% .0012305

Operating Rights:

Amoco Production Company 1/2 .0043066 .0049218

El Paso Natural Gas 7/64 .0009421 .0010767

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0029098 .0033255

Westland Oil Development Corporation 11.582241%
of 25/64 .0003897 .0004454

Thayer H. Laurie 1.203736% of 25/64 .0000405 .0000463

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000245 .0000280

Sub TOTAL this lease .0098437 .0098437

Tract 41

Lessee: El Paso Natural Gas

Serial # E-3150-1

Lease Description:

T31N R8W

Sec. 36: S/2 NE/4, SE/4 NW/4, N/2 SW/4,
SW/4 SE/4, NE/4 SE/4

Amount of Acreage: 280.00 .0086133

Overriding Royalties:

John Burroughs 5% .0004307

Royalty: State of New Mexico - 12 1/2% .0010766

Operating Rights:

El Paso Natural Gas - All .0071060 .0086133

Sub TOTAL this lease .0086133 .0086133

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 42

Lessee: Northwest Pipeline Corporation

Serial # E-3707-4

Lease Description:

T31N R8W

Sec. 36: S/2 SW/4

Amount of Acreage: 80.00 .0024609

Overriding Royalties:

Gideon Mayfield et al 5%

.0001230

Royalty: State of New Mexico - 12 1/2%

.0003076

Operating Rights:

Northwest Pipeline Corporation - All

.0020303

.0024609

Sub TOTAL this lease

.0024609

.0024609

Tract 43

Lessee: Northwest Pipeline Corporation

Serial # E-3707-5

Lease Description:

T31N R8W

Sec. 36: SW/4 NW/4, NW/4 SE/4

Amount of Acreage: 80.00 .0024609

Overriding Royalties:

Gideon Mayfield et al 5%

.0001230

Royalty: State of New Mexico - 12 1/2%

.0003076

Operating Rights:

Northwest Pipeline Corporation - All

.0020303

.0024609

Sub TOTAL this lease

.0024609

.0024609

Tract 44

Lessee: Northwest Pipeline Corporation

Serial # E-292-9

Lease Description:

T31N R8W

Sec. 36: SE/4 SE/4

Amount of Acreage: 40.00 .0012305

Overriding Royalties:

Levi A. Hughes 5% (until \$500
per acre is paid)

.0000615

Royalty: State of New Mexico 12 1/2%

.0001538

Operating Rights:

Northwest Pipeline Corporation - All

.0010152

.0012305

Sub TOTAL this lease

.0012305

.0012305

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
<u>Tract 45</u>				
Lessee: Texaco, Inc.				
Serial # E-5382				
Lease Description:				
<u>T31N R8W</u>				
Sec. 36: N/2 N/2				
Amount of Acreage:	160.00	.0049219		
Overriding Royalties: None				
Royalty: State of New Mexico - 12 1/2%			.0006152	
Operating Rights:				
Texaco, Inc. - All				
Sub TOTAL this lease			<u>.0043067</u>	<u>.0049219</u>
			.0049219	.0049219
<u>Tract 46</u>				
Lessee: Northwest Pipeline Corporation				
Lease Description:				
<u>T31N R7W</u>				
Sec. 11: SE/4, SE/4 SW/4				
Sec. 12: W/2 SW/4				
Sec. 14: NE/4 NW/4				
Amount of Acreage:	320.00	.0098437		
Overriding Royalties: None				
Royalty:				
Paul H. Umbach et al 15%				
			.0014766	
Operating Rights:				
Northwest Pipeline Corporation - All				
Sub TOTAL this lease			<u>.0083671</u>	<u>.0098437</u>
			.0098437	.0098437
<u>Tract 47</u>				
Lessee: Amoco Production Company				
et al				
Lease Description:				
<u>T31N R7W</u>				
Sec. 1: SW/4, W/2 SE/4				
Sec. 12: N/2 NW/4				
Amount of Acreage:	320.00	.0098437		
Overriding Royalties: None				
Royalty:				
Alda R. Mullen 12 1/2%				
			.0012305	
Operating Rights:				
Amoco Production Company 1/2				
			.0043066	.0049218
El Paso Natural Gas 7/64				
			.0009421	.0010767
Blackwood & Nichols Co., Ltd. 86.485606%				
of 25/64			.0029098	.0033255
Westland Oil Development Corporation 11.582241%				
of 25/64			.0003897	.0004454
Thayer H. Laurie 1.203736% of 25/64				
			.0000405	.0000463
Thayer H. Laurie and David N. Mills, Trs., .728417%				
of 25/64			<u>.0000245</u>	<u>.0000280</u>
Sub TOTAL this lease			.0098437	.0098437

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 48

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 9: S/2

Amount of Acreage: 320.00 .0098437

Overriding Royalties: None

Royalty:

Irene M. Rea 12 1/2% .0012305

Operating Rights:

Amoco Production Company 1/2 .0043066 .0049218

El Paso Natural Gas 7/64 .0009421 .0010767

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0029098 .0033255

Westland Oil Development Corporation 11.582241%
of 25/64 .0003897 .0004454

Thayer H. Laurie 1.203736% of 25/64 .0000405 .0000463

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000245 .0000280

Sub TOTAL this lease .0098437 .0098437

Tract 49

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 19: NE/4 NE/4

Amount of Acreage: 40.00 .0012305

Overriding Royalties: None

Royalty:

Martin A. Pierce 6 1/4% .0000769

Southland Royalty Company 6 1/4% .0000769

Operating Rights:

Amoco Production Company 1/2 .0005383 .0006152

El Paso Natural Gas 7/64 .0001178 .0001346

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0003637 .0004157

Westland Oil Development Corporation 11.582241%
of 25/64 .0000487 .0000557

Thayer H. Laurie 1.203736% of 25/64 .0000051 .0000058

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000031 .0000035

Sub TOTAL this lease .0012305 .0012305

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 50

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 19: SE/4 NE/4, NE/4 SE/4

Amount of Acreage: 80.00 .0024609

Overriding Royalties: None

Royalty:

Horace F. McKay, Jr. et al 12 1/2% .0003076

Operating Rights:

Amoco Production Company 1/2 .0010767 .0012304

El Paso Natural Gas 7/64 .0002355 .0002692

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0007275 .0008314

Westland Oil Development Corporation 11.582241%
of 25/64 .0000974 .0001113

Thayer H. Laurie 1.203736% of 25/64 .0000101 .0000116

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000061 .0000070

Sub TOTAL this lease .0024609 .0024609

Tract 51

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 19: SE/4 SE/4

Sec. 30: NE/4 NE/4

Amount of Acreage: 80.00 .0024609

Overriding Royalties: None

Royalty:

John A. Pierce et al 12 1/2% .0003076

Operating Rights:

Amoco Production Company 1/2 .0010767 .0012304

El Paso Natural Gas 7/64 .0002355 .0002692

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0007275 .0008314

Westland Development Corporation 11.582241%
of 25/64 .0000974 .0001113

Thayer H. Laurie 1.203736% of 25/64 .0000101 .0000116

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000061 .0000070

Sub TOTAL this lease .0024609 .0024609

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 52

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 20: W/2 NW/4

Amount of Acreage: 80.00 .0024609

Overriding Royalties: None

Royalty:

Paul F. Catterson et al 12 1/2% .0003076

Operating Rights:

Amoco Production Company 1/2 .0010767 .0012304

El Paso Natural Gas 7/64 .0002355 .0002692

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0007275 .0008314

Westland Development Corporation 11.582241%
of 25/64 .0000974 .0001113

Thayer H. Laurie 1.203736% of 25/64 .0000101 .0000116

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000061 .0000070

Sub TOTAL this lease .0024609 .0024609

Tract 53

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 31: West 70 acres in W/2 NE/4,
being West 70 acres of
most westerly 80 in Tract 51

Amount of Acreage: 70.00 .0021533

Overriding Royalties: None

Royalty:

Martin A. Pierce 6.25% .0001346

Southland Royalty Company 6.25% .0001346

Operating Rights:

Amoco Production Company 1/2 .0009420 .0010767

El Paso Natural Gas 7/64 .0002061 .0002355

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0006365 .0007275

Westland Oil Development Corporation 11.582241%
of 25/64 .0000852 .0000974

Thayer H. Laurie 1.203736% of 25/64 .0000089 .0000101

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000054 .0000061

Sub TOTAL this lease .0021533 .0021533

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 54

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 31: SE/4 NE/4, NE/4 SE/4, 5 acres
on east side of SW/4 NE/4;
5 acres on east side of
NW/4 NE/4, being all of Tract
51 except West 70 acres of
most westerly 80 acres of
Tract 51

Amount of Acreage: 90.00 .0027686

Overriding Royalties: None

Royalty:

S. M. Lucero 6.25% .0001730
Southland Royalty Company 6.25% .0001731

Operating Rights:

Amoco Production Company 1/2	.0012112	.0013843
El Paso Natural Gas 7/64	.0002650	.0003028
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64	.0008184	.0009353
Westland Oil Development Corporation 11.582241% of 25/64	.0001096	.0001253
Thayer H. Laurie 1.203736% of 25/64	.0000114	.0000130
Thayer H. Laurie and David N. Mills, Trs., .728417% of 25/64	.0000069	.0000079
Sub TOTAL this lease	.0027686	.0027686

Tract 55

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 30: 40 acres in center of SE/4,
being North 40 acres of Tract 49

T30N R7W

Sec. 7: E/2 NW/4, being South 80 acres
of North 120 acres of Tract 40
Sec. 6: NW/4 SE/4, South 14 acres of SW/4
NE/4, being South 54 acres of Tract 39

Amount of Acreage: 174.00 .0053526

Overriding Royalties: None

Royalty:

John A. Pierce 9.6264% .0005153
Madrienne MacLaughlin 2.8736% .0001538

Operating Rights:

Amoco Production Company 1/2	.0023417	.0026763
El Paso Natural Gas 7/64	.0005123	.0005854
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64	.0015823	.0018083
Westland Oil Development Corporation 11.582241% of 25/64	.0002119	.0002422
Thayer H. Laurie 1.203736% of 25/64	.0000220	.0000252
Thayer H. Laurie and David N. Mills, Trs., .728417% of 25/64	.0000133	.0000152
Sub TOTAL this lease	.0053526	.0053526

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 56

Lessee: Amoco Production Company
et al

Lease Description:

T31N R7W

Sec. 30: 40 acres in S/2 SE/4, being
South 40 acres in Tract 49
Sec. 31: NE/4 NE/4, being Tract 50 lo-
cated in Sec. 31 & 32; SW/4
SE/4, being Tract 52; and
North 20 acres of Tract 39

T30N R7W

Sec. 6: North 13 acres of NW/4 NE/4,
being South 13 acres of
North 33 acres of Tract 39

Amount of Acreage: 133.00 .0040913

Overriding Royalties: None

Royalty:

S. M. Lucero et al 12 1/2% .0005114

Operating Rights:

Amoco Production Company 1/2	.0017899	.0020456
El Paso Natural Gas 7/64	.0003916	.0004475
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64	.0012094	.0013822
Westland Oil Development Corporation 11.582241% of 25/64	.0001620	.0001851
Thayer H. Laurie 1.203736% of 25/64	.0000168	.0000192
Thayer H. Laurie and David N. Mills, Trs., .728417% of 25/64	<u>.0000102</u>	<u>.0000117</u>
Sub TOTAL this lease	.0040913	.0040913

Tract 57

Lessee: Amoco Production Company
et al

Lease Description:

T30N R7W

Sec. 6: South 27 acres of NW/4 NE/4,
North 26 acres of SW/4 NE/4,
being North 53 acres of
South 107 acres of Tract 39

Amount of Acreage: 53.00 .0016304

Overriding Royalties: None

Royalty:

George H. Joseph et al 12 1/2% .0002038

Operating Rights:

Amoco Production Company 1/2	.0007133	.0008152
El Paso Natural Gas 7/64	.0001560	.0001783
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64	.0004820	.0005508
Westland Oil Development Corporation 11.582241% of 25/64	.0000645	.0000738
Thayer H. Laurie 1.203736% of 25/64	.0000067	.0000077
Thayer H. Laurie & David N. Mills, Trs., .728417% of 25/64	<u>.0000041</u>	<u>.0000046</u>
Sub TOTAL this lease	.0016304	.0016304

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 58

Lessee: Amoco Production Company
et al

Lease Description:

T30N R7W

Sec. 7: Lots 10, 11

Amount of Acreage: 21.39 .0006580

Overriding Royalties: None

Royalty:

J. J. Masek 12 1/2% .0000822

Operating Rights:

Amoco Production Company 1/2 .0002879 .0003290

El Paso Natural Gas 7/64 .0000630 .0000720

Blackwood & Nichols Co. Ltd. 86.485606%
of 25/64 .0001945 .0002223

Westland Oil Development Corporation 11.582241%
of 25/64 .0000261 .0000297

Thayer H. Laurie 1.203736% of 25/64 .0000027 .0000031

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000016 .0000019

Sub TOTAL this lease .0006580 .0006580

Tract 59

Lessee: Amoco Production Company
et al

Lease Description:

T30N R7W

Sec. 7: S/2 NE/4 SW/4, being South
20 acres of Tract 40

Sec. 7 & 8: East 80 acres of Tract 41

Sec. 8: North 40 acres of Tract 42

Amount of Acreage: 140.00 .0043067

Overriding Royalties: None

Royalty:

Southland Royalty et al 12 1/2% .0005383

Operating Rights:

Amoco Production Company 1/2 .0018842 .0021534

El Paso Natural Gas 7/64 .0004122 .0004710

Blackwood & Nichols Co., Ltd. 86.485606%
of 25/64 .0012731 .0014549

Westland Oil Development Corporation 11.582241%
of 25/64 .0001705 .0001948

Thayer H. Laurie 1.203736% of 25/64 .0000177 .0000203

Thayer H. Laurie and David N. Mills, Trs., .728417%
of 25/64 .0000107 .0000123

Sub TOTAL this lease .0043067 .0043067

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 60

Lessee: Amoco Production Company et al

Lease Description:

T30N R7W

Sec. 7: N/2 SE/4 SW/4, being
North 20 acres of South
40 acres of Tract 40
Sec. 7 & 18: 80 acres in West part of
Tract 41
Sec. 8 & 17: SW/4 SW/4, being part of
Tract 42

Amount of Acreage: 140.00 .0043067

Overriding Royalties: None

Royalty:

M. L. Faverino et al - 12-1/2% .0005383

Operating Rights:

Amoco Production Company 1/2	.0018842	.0021534
El Paso Natural Gas 7/64	.0004122	.0004710
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64	.0012731	.0014549
Westland Oil Development Corporation 11.582241% of 25/64	.0001705	.0001948
Thayer H. Laurie 1.203736% of 25/64	.0000177	.0000203
Thayer H. Laurie & David N. Mills, TRS. .728417% of 25/64	<u>.0000107</u>	<u>.0000123</u>
Sub TOTAL this lease	.0043067	.0043067

Tract 61

Lessee: Amoco Production Company et al

Lease Description:

T30N R7W

Sec. 17: S/2 NW/4, N/2 SW/4, being
Tracts 43 and 44

Amount of Acreage: 160.00 .0049219

Overriding Royalties: None

Royalty:

U.V. Industries et al 12-1/2% .0006152

Operating Rights:

Amoco Production Company 1/2	.0021534	.0024610
El Paso Natural Gas Company 7/64	.0004710	.0005383
Blackwood & Nichols Co., Ltd. 86.485606% of 25/64	.0014549	.0016628
Westland Oil Development Corporation 11.582241% of 25/64	.0001948	.0002227
Thayer H. Laurie 1.203736% of 25/64	.0000203	.0000231
Thayer H. Laurie & David N. Mills, Trs. .728417% of 25/64	<u>.0000123</u>	<u>.0000140</u>
Sub TOTAL this lease	.0049219	.0049219

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 62

Lessee: Amoco Production Company et al

Lease Description:

T30N R7W

Sec. 17: NW/4 NW/4

Sec. 18: NE/4 NE/4, being part
of Tract 42

Amount of Acreage: 80.00 .0024609

Overriding Royalties: None

Royalty:

M. L. Faverino et al 12-1/2% .0003076

Operating Rights:

Amoco Production Company 1/2

El Paso Natural Gas 7/64

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64

Westland Oil Development Corporation 11.582241% of
25/64

Thayer H. Laurie 1.203736% of 25/64

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/64

Sub TOTAL this lease

.0010767	.0012304
.0002355	.0002692
.0007275	.0008314
.0000974	.0001113
.0000101	.0000116
<u>.0000061</u>	<u>.0000070</u>
.0024609	.0024609

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 63

Lessee: Amoco Production Company et al

Lease Description:

T30N R7W

S/2 SE/4, NW/4 SE/4 of Section 18, &
NE/4 NE/4 of Section 19, according to
the plat of survey filed with the Surveyor
General's Office, Santa Fe, New Mexico,
on November 4, 1882, and also described
as Tract 45 in Sections 17, 18, 19 and 20,
according to plat of independent resurvey
filed with the Surveyor General's Office,
Santa Fe, New Mexico, on July 19, 1915,
and containing 116.28 acres, more or less,
LYING EAST OF THE SAN JUAN RIVER IN
RIO ARriba COUNTY, NEW MEXICO.

Amount of Acreage: 116.28 .0035770

Overriding Royalties: None

Royalties:

Amoco Production Company	35% of 1/8	.0001565
El Paso Natural Gas Company	28% of 1/8	.0001252
Blackwood & Nichols Co., Ltd. 86.485606% of	37% of 1/8	.0001431
Westland Oil Development Corpora- tion 11.582241%	of 37% of 1/8	.0000192
Thayer H. Laurie 1.203736%	of 37% of 1/8	.0000020
Thayer H. Laurie & David N. Mills, Trs. .728417%	of 37% of 1/8	.0000012

Operating Rights:

Amoco Production Company - 35%	.0010954	.0012520
El Paso Natural Gas Company - 28%	.0008763	.0010016
Blackwood & Nichols Co., Ltd. 86.485606% of 37%	.0010016	.0011446
Westland Oil Development Corporation 11.582241% of 37%	.0001342	.0001533
Thayer H. Laurie 1.203736% of 37%	.0000139	.0000159
Thayer H. Laurie & David N. Mills, Trs. .728417% of 37%	.0000084	.0000096

Sub TOTAL this lease

.0035770 .0035770

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 64

Lessee: Amoco Production Company et al

Lease Description:

T30N R7W

Sec. 19: W/2 NE/4, being part
of Tract 46

Amount of Acreage: 80.00 .0024609

Overriding Royalties: None

Royalty:

U. V. Industries et al - 12-1/2 .0003076

Operating Rights:

Amoco Production Company 1/2 .0010767 .0012304

El Paso Natural Gas 7/64 .0002355 .0002692

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64 .0007275 .0008314

Westland Oil Development Corporation 11.582241% of
25/64 .0000974 .0001113

Thayer H. Laurie 1.203736% of 25/64 .0000101 .0000116

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/64 .0000061 .0000070

Sub TOTAL this lease .0024609 .0024609

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 65

Lessee: Amoco Production Company et al

Lease Description:

T30N R7W

S/2 SE/4, NW/4 SE/4 of Section 18 &
NE/4 NE/4 of Section 19, according to
the plat of survey filed with the Surveyor
General's Office, Santa Fe, New Mexico,
on November 4, 1882, and also described
as Tract 45 in Sections 17, 18, 19 and 20,
according to plat of independent resurvey
filed with the Surveyor General's Office,
Santa Fe, New Mexico, on July 19, 1915,
and containing 43.72 acres, more or less,
LYING WEST OF THE SAN JUAN RIVER IN
SAN JUAN COUNTY, NEW MEXICO.

Amount of Acreage 43.72 .0013449

Overriding Royalties: None

Royalty:

Saul A. Yager et al 12-1/2% .0001681

Operating Rights:

Amoco Production Company 1/2	.0005884	.0006725
El Paso Natural Gas 7/64	.0001287	.0001471

Blackwood & Nichols Co., Ltd. 86.485606% of 25/64	.0003976	.0004544
Westland Oil Development Corporation 11.582241% of 25/64	.0000532	.0000608

Thayer H. Laurie 1.203736% of 25/64	.0000055	.0000063
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Thayer H. Laurie & David N.Mills, TRS. .728417% of 25/64	.0000034	.0000038
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Sub TOTAL this lease	.0013449	.0013449
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TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
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Tract 66

Lessee: Blackwood & Nichols Co., Ltd., et al

Lease Description:

T30N R7W

Sec. 4: E/2 SW/4

Amount of Acreage 80.00 .0024609

Overriding Royalties: None

Royalty:

Mercantile Natl Bank of Dallas,
Trustee for various trusts
et al 12-1/2%

.0003076

Operating Rights:

El Paso Natural Gas 7/32
Blackwood & Nichols Co., Ltd. 86.485606% of
25/32

.0004710

.0005383

Westland Oil Development Corporation 11.582241% of
25/32

.0014549

.0016628

Thayer H. Laurie 1.203736% of 25/32

.0001948

.0002227

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/32

.0000203

.0000231

Sub TOTAL this lease

.0000123

.0000140

.0024609

.0024609

Tract 68

Lessee: Amoco Production Company et al

Lease Description:

T30N R7W

Sec. 6: SE/4 SW/4, being North
40 acres of Tract 40

Amount of Acreage: 40.00 .0012305

Overriding Royalties: None

Royalty:

C. C. Culpepper et al 12-1/2%

.0001538

Operating Rights:

Amoco Production Company 1/2
El Paso Natural Gas 7/64
Blackwood & Nichols Co., Ltd. 86.485606% of
25/64

.0005383

.0006152

.0001178

.0001346

Westland Oil Development Corporation 11.582241% of
25/64

.0003638

.0004157

Thayer H. Laurie 1.203736% of 25/64

.0000487

.0000557

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/64

.0000051

.0000058

Sub TOTAL this lease

.0000030

.0000035

.0012305

.0012305

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 69

Lessee: Amoco Production Company et al

Lease Description:

T30N R8W

Sec. 13: East 18.85 acres of NE/4

Amount of Acreage 18.85 .0005799

Overriding Royalties: None

Royalty:

Martin A. Pierce et al 12-1/2% .0000725

Operating Rights:

Amoco Production Company 1/2 .0002537 .0002900

El Paso Natural Gas 7/64 .0000555 .0000634

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64 .0001714 .0001960

Westland Oil Development Corporation 11.582241% of
25/64 .0000230 .0000262

Thayer H. Laurie 1.203736% of 25/64 .0000024 .0000027

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/64 .0000014 .0000016

Sub TOTAL this lease .0005799 .0005799

Tract 70

Lessee: Amoco Production Company et al

Lease Description:

T30N R8W

Sec. 13: West 65.55 acres of NE/4,
NE/4 SE/4, except West 100
Ft. thereof and except 2
acres in SW corner thereof
and East 20 acres of NW/4 SE/4

Amount of Acreage: 120.15 .0036960

Overriding Royalties: None

Royalty:

M. L. Faverino et al - 12-1/2% .0004620

Operating Rights:

Amoco Production Company 1/2 .0016170 .0018480

El Paso Natural Gas 7/64 .0003537 .0004042

Blackwood & Nichols Co., Ltd. 86.485606% of
25/64 .0010926 .0012487

Westland Oil Development Corporation 11.582241% of
25/64 .0001463 .0001672

Thayer H. Laurie 1.203736% of 25/64 .0000152 .0000174

Thayer H. Laurie & David N. Mills, Trs. .728417% of
25/64 .0000092 .0000105

Sub TOTAL this lease .0036960 .0036960

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION GROSS PRODUCTION	WORKING INTEREST PARTICIPATION
<u>Tract 73</u>				
Lessee: Northwest Pipeline Corporation				
Lease Description:				
<u>T30N R8W</u>				
Sec. 13: East 14.45 acres of W/2 NE/4, West 61.15 acres of E/2 NE/4				
Amount of Acreage:	75.60	.0023256		
Overriding Royalty:	None			
Royalty:				
Edward V. and Florence S. Long	12-1/2%		.0002907	
Operating Rights:				
Northwest Pipeline Corporation - All			<u>.0020349</u>	<u>.0023256</u>
Sub TOTAL this lease			.0023256	.0023256

Tract 74

Lessee: Northwest Pipeline Corporation

Lease Description:

T30N R8W

Sec. 13: N/2 NW/4, SE/4 NW/4,
NE/4 SW/4

Amount of Acreage: 156.60 .0048173

Overriding Royalties: None

Royalty:

Elvin and Lorene Lewis 6.25%
of 155.60/156.60

.0002992

Charles W. McCarty 1.5625%
of 155.60/156.60

.0000748

Guadalupe D. McCarty 1.5625%
of 155.60/156.60

.0000748

T. H. McElvain, Jr. and Catherine
Frances McElvain 3.125% of
155.60/156.60

.0001496

Bishop of Gallup 12.5% of
1/156.60

.0000038

Operating Rights:

Northwest Pipeline Corporation - All (87.50%)

.0042151

.0048173

Sub TOTAL this lease

.0048173

.0048173

TRACT	ACREAGE COMMITTED	TRACT PARTICIPATION	PARTICIPATION	
			GROSS PRODUCTION	WORKING INTEREST PARTICIPATION

Tract 75

Lessee: Delhi-Taylor Oil Corporation
(Tenneco and Continental)

Lease Description:

T30N R8W

Sec. 12: SW/4 SW/4

Sec. 13: That part of NW/4 NW/4
lying West of Molino
Arroyo

Amount of Acreage: 60.00 .0018457

Overriding Royalties:

M. J. Florance and 24 others
totalling 17-1/2%

.0003230

Royalty:

Mona Florance, subject to
life estate 12-1/2%

.0002307

Operating Rights:

El Paso Natural Gas Company - All
Sub TOTAL this lease

.0012920

.0018457

.0018457

.0018457

TOTALS

32,507.98

1.0000000

1.0000000

1.0000000

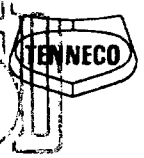
OCTOBER 1976

Tenneco Oil Company

A Tenneco Company

1200 Lincoln Tower Bldg.
1860 Lincoln Street
Denver, Colorado 80203
(303) 292-9920

SEP 24 1976



318

September 20, 1976

OIL CONSERVATION COMM.
Santa FeBlackwood & Nichols Company
2013 First National Center
Oklahoma City, Oklahoma 73102Re: Northeast Blanco Unit #64 Well
SE/4SE/4 Section 24, T30N-R8W
Northeast Blanco Unit I - Sec. No. 929
San Juan & Rio Arriba Counties, New Mexico
PA-4224

Gentlemen:

Last spring Tenneco approved your AFE for the drilling of the Northeast Blanco Unit #105-A, intended as an infill Mesaverde development well with costs to be borne by the Mesaverde participating working interest owners. We have had no completion report on this well from Blackwood & Nichols, but Oil Conservation Commission records show that the well was completed July 10, 1976 as a producer from the Chacra formation and redesignated the Unit #64 well. A 3240 MCF/day IP and a 9900 MCF open flow were reported.

Article 11 of the Unit Agreement requires that the Operator, upon completion of a commercial unit well, submit for approval by the Geological Survey, the Commissioner of Public Lands and the NMOCC a schedule of lands constituting the initial participating area for such well. The "commercial" test of the Unit Agreement is certainly met since from the reported initial potential and open flow there can be no question but that the well is "productive of unitized substances in paying quantities". However, although the well has been completed for over two months and should be ready for pipeline connection, Blackwood & Nichols has taken no steps toward filing for an initial Chacra participating area.

Tenneco Oil Company and Continental Oil Company are equal owners of all the working interest in unit tract 2-B, the E/2 of Section 24, T-30-N, R-8-W, and it appears the initial Chacra participating area should comprise the SE/4 of Section 24, within such tract 2-B. Article 11 of the Unit Agreement requires that a new participating area be effective with first production and the Unit and Unit Operating Agreements clearly recognize the ownership of newly established production by the working interest owners in the new participating area. Accordingly Tenneco hereby notifies you that any sales of production from the Northeast Blanco Unit #64 well must be made for the sole benefit of the working interest owners in the initial Chacra participating area, regardless of when formally established.

Tenneco Oil Company hereby makes demand that Blackwood & Nichols immediately submit a schedule of unitized lands within the initial Chacra participating

Page Two

Blackwood & Nichols Company

September 20, 1976

area for approval by the necessary authorities. We also request that you furnish Tenneco with an itemization of drilling and completion costs for the #64 well. Since the well was actually drilled outside any existing participating area we believe it proper to bill the Chacra participating owners for this expense directly and not through adjustments with the Mesaverde participating owners simply because of their approval of the original AFE.

Please advise immediately if you do not concur with our conclusions.

Yours very truly,

TENNECO OIL COMPANY

By: D. D. Myers
D. D. Myers
Division Production Manager.

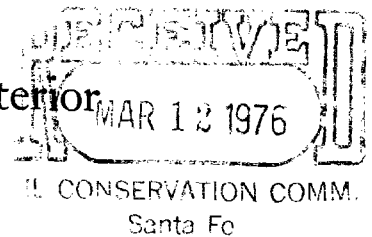
DDM/MFC:mt

cc: Continental Oil Company
U.S. Geological Survey
New Mexico Oil Conservation Commission



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201



March 11, 1976

318

Blackwood & Nichols Company
Attention: Mr. D. Loos
2013 First National Center West
Oklahoma City, Oklahoma 73102

Gentlemen:

Your 1976 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, has been reviewed by this office.

Such plan proposes the drilling of 4 Mesaverde wells to be located as follows: 1) SE $\frac{1}{4}$ sec. 36, T. 31N., R. 7W., as a replacement well for the two wells in such section which are to be plugged and abandoned; 2) SW $\frac{1}{4}$ sec. 1, T. 31N., R. 7W., as an offset obligation to Northwest Pipeline Corporation San Juan 32-7 well No. 27, located in the SW $\frac{1}{4}$ sec. 36, T. 32N., R. 7W.; 3) NW $\frac{1}{4}$ sec. 13, T. 30N., R. 8W., as an offset obligation to El Paso Natural Gas Company's well Howell E No. 2A, located in the SE $\frac{1}{4}$ sec. 14, T. 30N., R. 8W.; and 4) SE $\frac{1}{4}$ sec. 24, T. 30N., R. 8W., as an offset obligation to Tenneco Oil Company's well Florence 30A, located in the NW $\frac{1}{4}$ sec. 25, T. 30N., R. 8W.

The proposed wells described in 2) through 4) above conform with the intent of those provisions contained in Section 17 of the unit agreement which states that the unit area will be protected from drainage of unitized substances by wells on land not subject to the unit agreement. Accordingly, your 1976 plan of development is hereby approved on this date and two approved copies are enclosed.

This approval is subject to like approval by the appropriate State officials.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Durango (w/cy plan)

NMOCC, Santa Fe (ltr. only) ← This Copy for

Com. Pub. Lands, Santa Fe (ltr. only)

JAGILLHAM:dap

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

38

January 6, 1976

C Blackwood & Nichols Company
2013 First National Center West
Oklahoma City, Oklahoma 73102

Attention: Mr. D. Loos

O Re: 1976 Plan of Development
Northeast Blanco Unit
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

P This is to advise that the New Mexico Oil Conservation
Commission has this date approved the Plan of Development for
the calendar year 1976 for the Northeast Blanco Unit, San Juan
and Rio Arriba Counties, New Mexico, subject to like approval
by the United States Geological Survey and the Commissioner of
Public Lands of the State of New Mexico.

Y Three approved copies of the plan are returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/JEK/jr

cc: U. S. Geological Survey - Roswell
Commissioner of Public Lands - Santa Fe

BLACKWOOD & NICHOLS COMPANY

2013 FIRST NATIONAL CENTER WEST • OKLAHOMA CITY, OKLAHOMA 73102

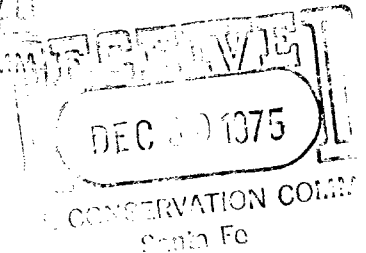
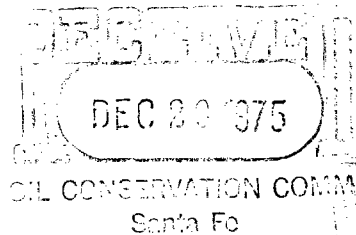
December 29, 1975

The Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Address Reply To:
P. O. Box 1237
Durango, Colorado 81301
Telephone: (303) 247-0728



Re: Northeast Blanco Unit
No. 1, Sec. 929
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases within the Northeast Blanco Unit, hereby submits a Plan of Development of the Mesaverde Formation for the calendar year 1976.

The total number of wells in the Northeast Blanco Unit is as follows:

Mesaverde (Producing)	58
Mesaverde (Incapable of Production)	3
Mesaverde (Plugged and Abandoned)	5
Dakota-Mesaverde (Dual)	4
Dakota	1

Total Mesaverde Cumulative Production through October 31, 1975 - 196,896,767 MCF.

Total Dakota Cumulative Production through October 31, 1975 - 3,812,762 MCF.

Total Condensate Production through October 31, 1975 - 62,333.08 Barrels.

Unit Operator does not propose any development wells during the calendar year 1976. However, we have requested and received approval from a majority of the Working Interest Owners, to plug and abandon Northeast Blanco Unit Wells Number 21, SW/4, Sec. 36, T-31N, R7W, and Number 22, NE/4, Sec. 36, T-31N, R7W, Rio Arriba County, New Mexico. As a replacement of the wells to be abandoned, we plan to drill a new Mesaverde well in:

TOWNSHIP 31 NORTH, RANGE 7 WEST, N.M.P.M., Rio Arriba County, New Mexico

Sec. 36: SE 1/4

Pursuant to Section 17 of the Northeast Blanco Unit Agreement, we propose to drill the following Mesaverde wells to meet offset obligations:

TOWNSHIP 31 NORTH, RANGE 7 WEST, N.M.P.M., San Juan County, New Mexico

Sec. 1: SW 1/4

TOWNSHIP 30 NORTH, RANGE 8 WEST, N.M.P.M., San Juan County, New Mexico

Sec. 13: NW 1/4

Sec. 24: SE 1/4

In addition to the above, Blackwood & Nichols Company as Unit Operator, will drill any other offset wells that may be required to prevent drainage of unitized substances and any other wells subsequently deemed necessary or desired by the Unit Operator and the Working Interest Owners.

Blackwood & Nichols Company as Unit Operator, believes that all current obligations have been satisfied.

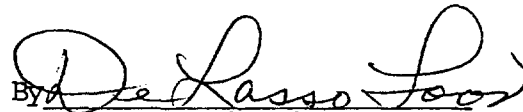
All acreage within the Northeast Blanco Unit boundaries is now participating in the Mesaverde Formation.

If this plan is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached form and return two approved copies to Blackwood & Nichols Company.

The effective date of the Plan of Development shall be January 1, 1976.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

By 
D. Loos, District Manager

DL:lw

Four copies to each addressee

Approved: _____ Date: _____

The Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by The Commissioner of Public Lands and
Oil Conservation Commission.

Approved: _____ Date: _____

Commissioner of Public Lands
State of New Mexico
Subject to like approval by the United States Geological Survey
and Oil Conservation Commission.

Approved: _____ Date: _____

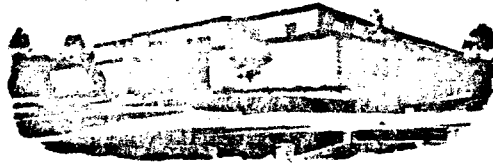
Oil Conservation Commission
State of New Mexico
Subject to like approval by the United States Geological Survey
and Commissioner of Public Lands.

The above approvals are for the Northeast Blanco Unit Agreement No. 1,
Section 929, San Juan and Rio Arriba Counties, New Mexico,
1976 Plan of Development.

318

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

January 5, 1976

PHIL R. LUCERO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Blackwood and Nichols Company
2013 First National Center West
Oklahoma City, Oklahoma 73102

Re: Northeast Blanco Unit
San Juan and Rio Arriba
Counties, New Mexico

ATTENTION: Mr. D. Loos

Gentlemen:

The Commissioner of Public Lands has this date approved your 1976 Drilling Program for the Northeast Blanco Unit. Such plan proposes the plugging of wells number 21 and 22, and the drilling a replacement of the wells to be abandoned. Also, two other wells to meet offset obligations.

This approval is subject to like approval by the United States Geological Survey.

Enclosed are two approved copies for your files.

Your Three (\$3.00) Dollar filing fee has been received.

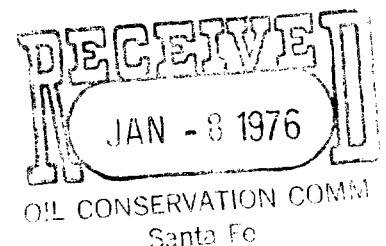
Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Department

PRL/RDG/s
encls.
cc:

USGS-Roswell, New Mexico
OCC- SantaFe, New Mexico



Drawer 1857
Roswell, New Mexico 88201

March 12, 1975

Blackwood and Nichols Company
Attention: Mr. W. N. Little
2013 First National Center
Oklahoma City, Oklahoma 73102

Gentlemen:

The 1975 Plan of Development submitted for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes continuation of unit operations and the drilling of unit well No. 63 as replacement of well No. 5-X which was plugged and abandoned February 26, 1974.

Two approved copies are enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Durango (w/cy plan)

NMOCC, Santa Fe (ltr only) ✓

Commissioner of Public Lands, Santa Fe (ltr only)

JGillham/hr

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

318

January 8, 1975

C
O
P
Y

Blackwood and Nichols Company
2013 First National Center
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1975 Plan of Development,
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the calendar year 1975 for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

January 3, 1975

PHIL R. LUCERO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Re: 1975 PLAN OF DEVELOPMENT
Northeast Blanco Unit, 1
San Juan and Rio Arriba
Counties, New Mexico

ATTENTION: Mr. W. M. Little

Gentlemen:

The Commissioner of Public Lands has this date approved your 1975 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico. This plan calls for the drilling of Well #63, to take the place of Well 5-X which was plugged and abandoned on February 26, 1974.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed herewith.

Your Four (\$4.00) Dollar filing fee has been received.

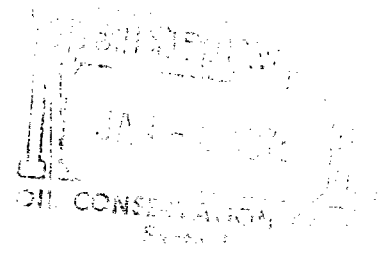
Very truly yours,

RAY D. Graham, Director
Oil and Gas Division

US-Roswell, New Mexico
Santa Fe, New Mexico ✓

Blackwood & Nichols Company

2013 FIRST NATIONAL CENTER • OKLAHOMA CITY, OKLAHOMA 73102



December 30, 1974

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1975, MESAVERDE ZONE,
NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARRIBA
COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Department of the Interior
Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1975.

I Description of Participating Area in Mesaverde Zone.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone.

NEBU Well No.	October 1974 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1974	Date Completed	1974 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1974
Howell 1-B		560,802	Csg Failed		
101	27,937 (32)	5,568,722	10/6/57	716	-
102	9,466 (32)	3,218,377	10/3/51	199	-
103	5,280 (32)	2,951,174	10/5/51	131	-
104	13,455 (32)	5,244,625	10/5/51	259	5,010.83

NEBU Well No.	October 1974 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1974	Date Completed	1974 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1974
105	8,424 (30)	4,592,561	4/30/52	216	2,587.48
McEl 37½%	7,072 (31)	1,547,361	6/1/55	El Paso Operated	3,016.13
2-20	2,064 (31)	520,448	6/12/54	No test	-
3-5X	22,600 (25)	4,410,194	9/24/54	461	173.14
4-21	9,720 (32)	2,058,407	2/10/54	215	-
5-13X	-o-	3,643,639	8/14/53	P & A 2/74	3,043.43
6-29	4,651 (24)	2,225,859	12/4/54	115	3,008.75
7-21	15,217 (32)	3,960,448	12/11/53	282	5,619.25
8-10	26,304 (31)	4,925,617	9/30/53	524	-
9-12	50,456 (32)	7,493,917	9/22/53	1,233	4,792.55
10-16	27,037 (32)	3,843,271	1/6/54	350	-
11-25	2,575 (32)	645,633	1/7/54	75	-
12-18	25,778 (32)	4,678,787	10/16/53	642	80.10
13-20	6,129 (32)	1,862,986	10/17/53	151	2,127.02
14-2	21,793 (32)	3,155,640	5/20/54	304	-
15-2	29,509 (32)	3,980,600	2/8/54	685	-
16-3	21,781 (32)	3,760,629	7/18/54	454	-
17-9	21,325 (29)	5,438,061	8/25/54	472	-
18-9	22,622 (32)	3,789,841	7/28/54	677	1,644.15
19-20	5,596 (32)	1,575,352	10/19/54	164	-
20-28	-o-	376,785	11/11/54	P & A 7/70	-
21-36	-o-	907,217	10/5/54	No test	-
22-36	-o-	753,073	11/2/54	No test	-
23-6	33,521 (32)	8,224,081	8/30/55	664	2,450.43
24-17	10,461 (32)	2,840,042	5/22/55	197	4,037.24
25-17	33,889 (32)	4,399,343	6/15/55	587	3,197.89
26-8	23,978 (32)	4,975,788	8/25/55	653	-
27-8	13,005 (32)	2,382,674	8/1/55	76	-
28-34	1,452 (32)	1,081,437	9/21/55	No test	-
29-13	26,404 (32)	5,520,197	5/31/55	586	2,903.14
30-12	43,991 (32)	5,815,834	8/3/55	1,163	4,181.98
31-7	29,133 (32)	4,748,117	7/3/55	577	4,087.15
32-7	16,207 (25)	2,557,598	9/28/55	309	-
33-12	2,158 (32)	544,071	11/10/55	No test	-
34-19	6,573 (32)	2,563,646	5/5/57	262	1,780.41
35-19	4,866 (32)	2,469,540	7/25/57	148	442.22
36-1	42,961 (32)	10,793,535	4/28/56	1,434	-
37-6	30,034 (32)	5,964,583	5/23/56	788	-
38-31	9,085 (32)	2,094,786	8/21/57	145	-
39-36	27,449 (32)	4,547,696	6/3/57	523	5,047.16
40-36	9,760 (32)	3,019,578	7/6/57	151	-
41-25	5,468 (32)	1,481,128	9/14/57	121	-
42-19	1,907 (32)	423,258	10/13/57	No test	-
43-11	2,696 (32)	683,696	1/7/58	47	-
44-4	8,559 (32)	2,624,544	7/1/56	188	-
45-5	13,227 (32)	4,226,483	5/4/56	246	-
46-33	6,304 (32)	1,666,119	7/15/57	294	-
47-32	4,960 (24)	1,920,326	5/4/56	No test	-

NEBU Well No.	October 1974 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1974	Date Completed	1974 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1974
48-32	6,399 (32)	1,723,391	7-28-57	149	-
49-30	3,720 (32)	830,236	11/5/57	75	-
50-25	5,869 (32)	1,623,294	8/3/57	93	1,236.85
51-29	6,678 (32)	1,495,243	8/9/57	136	-
52-15	3,616 (32)	888,672	5/21/57	63	-
53-28	1,760 (32)	724,887	8/23/57	33	-
54-33	5,871 (32)	1,688,785	6/18/57	142	-
55-22	3,003 (32)	604,005	9/26/58	53	-
56-34	2,479 (32)	634,254	11/17/58	55	-
57-21	1,124 (32)	304,937	9/18/59	No test	-
58-13	2,522 (32)	579,581	11/3/59	45	-
59-24	1,769 (32)	363,533	7/2/60	No test	-
60-7	1,801 (32)	418,572	6/1/61	11	-
61-19	1,417 (32)	365,873	6/19/61	No test	-
62-30	1,896 (32)	389,057	7/8/61	No test	-
<hr/>					
TOTAL MESAVERDE	844,763	187,892,446			60,467.30
 "Los Pinos" DAKOTA ZONE					
1-27	17,283 (25)	1,867,160	8/28/52	340	-
55-22	705 (32)	137,543	9/26/58	No test	-
56-34	1,196 (32)	328,640	11/17/58	No test	-
57-21	1,096 (32)	342,505	11/3/59	No test	-
58-13	5,421 (32)	931,797	9/18/58	No test	-
<hr/>					
TOTAL DAKOTA	25,701	3,607,645			-
 GRAND TOTAL					
	870,464	191,500,091			50,467.30

III Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that Well #63, to be located 1890' East of the West line and 350' North of the South line of Section 13-T30-N, R8-W, San Juan County, New Mexico, should be drilled and completed to produce Mesaverde gas as soon as suitable material can be purchased, to take the place of Well 5-X which was plugged and abandoned on February 26, 1974.

VI Effective Date.

The effective date of the Plan of Development shall be January 1, 1975.

VII Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Oil and Gas Supervisor of the United States Department of the Interior, Geological Survey, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 30th day of December 1974.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

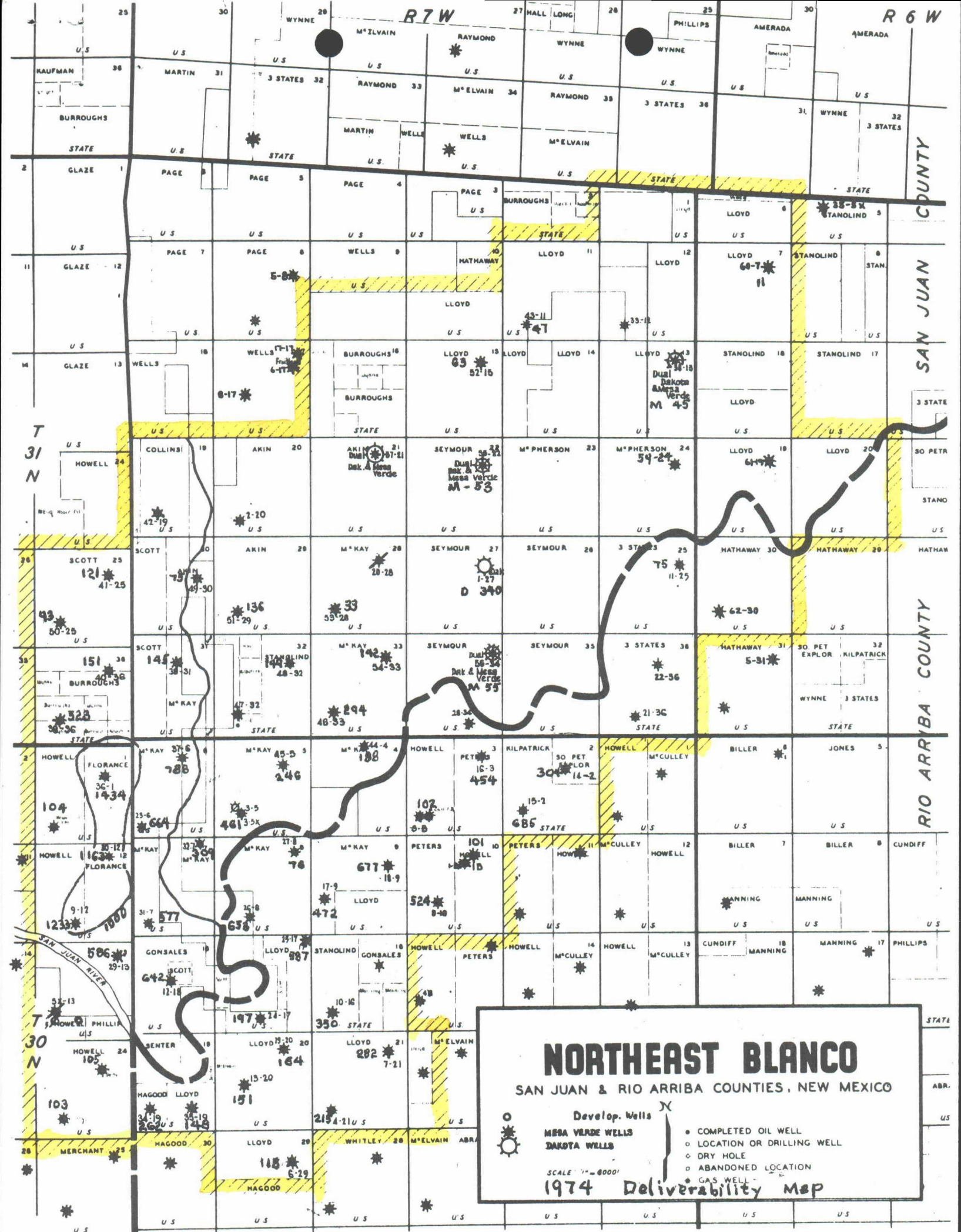
By W. N. Little
W. N. Little, Manager of Operations

WNL:cb

Attachment - Plat

FOUR COPIES TO EACH ADDRESSEE.

Approved January 8 1975
[Signature]
Secretary-Director
NEW MEXICO OIL CONSERVATION COMMISSION





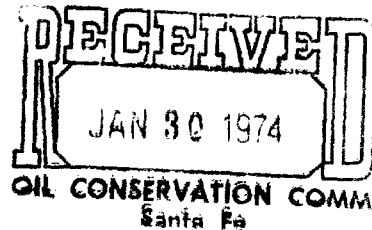
United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

January 28, 1974

Blackwood & Nichols Company
Attention: Mr. W. N. Little
2013 First National Building
Oklahoma City, Oklahoma 73102



Gentlemen:

Two approved copies of your 1974 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

- ✓ NMOCC, Santa Fe (ltr only)
- Com. Pub. Lands, Santa Fe (ltr only)
- Durango (w/cy plan)

JAGillham:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 16, 1974

318

Blackwood & Nichols Company
2013 First National Center
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1974 Plan of Development
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development dated December 28, 1973, for the calendar year 1974, for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Box 1857
Roswell, New Mexico

C
O
P
Y

Blackwood & Nichols Company

2013 FIRST NATIONAL CENTER • OKLAHOMA CITY, OKLAHOMA 73102

December 28, 1973

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1974, MESAVERDE ZONE, NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARriba COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Department of the Interior
Geological Survey
P.O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

2
OIL CONSERVATION COMM.
Santa Fe

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1974.

I Description of Participating Area in Mesaverde Zone.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone.

NEBU Well No.	October 1973 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1973	Date Completed	1973 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1973
Howell 1-B		560,802	Csg. Failed		
101	30,673 (32)	5,240,012	10/6/57	873	-
102	17,642 (32)	3,107,305	10/3/51	391	-
103	15,943 (32)	2,851,710	10/5/51	251	-
104	13,439 (32)	5,067,872	10/5/51	325	4,981.14
105	11,970 (30)	4,478,443	4/30/52	199	2,587.48
McE1 37½%	8,282 (32)	1,465,975	6/1/55	El Paso Operates	2,872.22

PLAN OF DEVELOPMENT 1974

Page 2.

NEBU Well No.	October 1973 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1973	Date Completed	1973 Deliverability	Cumulative Bbls Drip Gasoline Nov. 1, 1973
2-20	2,906 (32)	500,092	6/12/54	No test	-
5-13	-	-	Csg. Failed		
3-5	-	-	Csg. Failed		
3-5X	-o-	4,221,719	9/24/54	585	86.63
4-21	6,767 (32)	1,979,773	2/10/54	169	-
5-13X	53 (10)	3,643,639	8/14/53	No test	3,043.43
6-29	12,057 (32)	2,131,780	12/4/54	No test	2,769.55
7-21	21,627 (32)	3,793,051	12/11/53	192	5,340.29
8-10	27,884 (32)	4,642,003	9/30/53	809	-
9-12	53,189 (32)	6,987,991	9/22/53	1,258	4,684.91
10-16	28,537 (32)	3,573,105	1/6/54	694	-
11-25	2,868 (32)	615,450	1/7/54	No test	-
12-18	27,502 (32)	4,377,024	10/16/53	632	-
13-20	11,294 (32)	1,786,359	12/17/53	211	2,127.02
14-2	26,254 (32)	2,917,003	5/20/54	612	-
15-2	31,514 (32)	3,648,286	2/8/54	875	-
16-3	23,534 (25)	3,545,923	7/18/54	430	-
17-9	35,234 (32)	5,180,503	8/25/54	755	-
18-9	27,667 (32)	3,537,882	7/28/54	727	1,601.25
19-20	3,003 (32)	1,512,263	10/19/54	181	-
20-28	-o-	376,785	11/11/54	P & A 7/70	-
21-36	-o-	906,621	10/5/54	No test	50.91
22-36	1,573 (32)	749,098	11/2/54	No test	-
23-6	39,613 (32)	7,837,844	8/30/55	1,054	2,209.07
24-17	13,616 (32)	2,752,120	5/22/55	153	4,028.61
25-17	16,538 (14)	4,051,570	6/15/55	645	3,163.30
26-8	7,450 (8)	4,632,128	8/25/55	655	-
27-8	-o-	2,255,254	8/1/55	257	-
28-34	4,679 (32)	1,055,400	9/21/55	No test	-
29-13	29,078 (32)	5,216,192	5/31/55	684	2,770.00
30-12	44,602 (30)	5,378,446	8/3/55	1,144	4,068.77
31-7	31,880 (32)	4,453,269	7/3/55	649	3,978.62
32-7	20,065 (32)	2,438,889	9/28/55	164	-
33-12	1,991 (32)	524,372	11/10/55	No test	-
34-19	15,033 (32)	2,456,367	5/5/57	347	1,780.41
35-19	13,442 (31)	2,372,900	7/25/57	221	223.71
36-1	49,279 (32)	10,228,271	4/28/56	1,250	-
37-6	30,815 (32)	5,616,135	5/23/56	804	-
38-31	14,080 (32)	1,985,615	8/21/57	425	-
39-36	26,121 (28)	4,242,853	6/3/57	648	4,863.49
40-36	5,758 (6)	2,824,976	7/6/57	482	-
41-25	6,607 (32)	1,414,945	9/14/57	148	-
42-19	1,662 (32)	403,082	10/13/57	No test	-
43-11	3,188 (32)	652,210	1/7/58	No test	-
44-4	-o-	2,524,578	7/1/56	185	-
45-5	22,424 (32)	4,065,136	5/4/56	611	-
46-33	11,016 (32)	1,582,718	7/15/57	155	-
47-32	5,268 (32)	1,858,373	5/4/56	99	-

NEBU Well No.	October 1973 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1973	Date Completed	1973 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1973
48-32	6,863 (32)	1,658,553	7/28/57	248	-
49-30	4,631 (32)	795,647	11/5/57	No test	-
50-25	4,863 (32)	1,552,585	8/3/57	163	1,088,99
51-29	7,718 (32)	1,436,012	8/9/57	271	-
52-15	3,833 (32)	947,234	5/21/57	No test	-
53-28	4,721 (32)	696,065	8/23/57	No test	-
54-33	8,477 (32)	1,626,288	6/18/57	275	-
55-22	2,646 (32)	577,610	9/26/58	No test	-
56-34	3,079 (32)	610,189	11/17/58	No test	-
57-21	1,735 (32)	292,955	9/18/59	No test	-
58-13	2,613 (32)	556,716	11/3/59	No test	-
59-24	2,042 (32)	346,248	7/2/60	No test	-
60-7	2,355 (29)	398,698	6/1/61	No test	-
61-19	2,619 (32)	349,022	6/19/61	No test	-
62-30	2,111 (32)	367,756	7/8/61	No test	-
TOTAL					
MESAVERDE	915,923	178,433,690			58,319.80
"Los Pinos"					
DAKOTA ZONE					
1-27	13,885 (32)	1,766,606	8/28/52	No test	-
55-22	1,114 (32)	129,040	9/26/58	No test	-
56-34	896 (32)	316,900	11/17/58	No test	-
57-21	2,385 (32)	328,065	11/3/59	No test	-
58-13	6,089 (32)	859,406	9/18/59	133	-
TOTAL					
DAKOTA	24,369	3,400,017			-
GRAND					
TOTAL	940,292	181,833,707			58,319.80

III Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current conditions, the drilling of any development wells would not be prudent.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the Calendar year 1974.

VI Effective Date.

The effective date of the Plan of Development shall be January 1, 1974.

VII Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Oil and Gas Supervisor of the United States Department of the Interior, Geological Survey, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 28th day of December 1973.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

By W. N. Little
W. N. Little, Manager of Operations

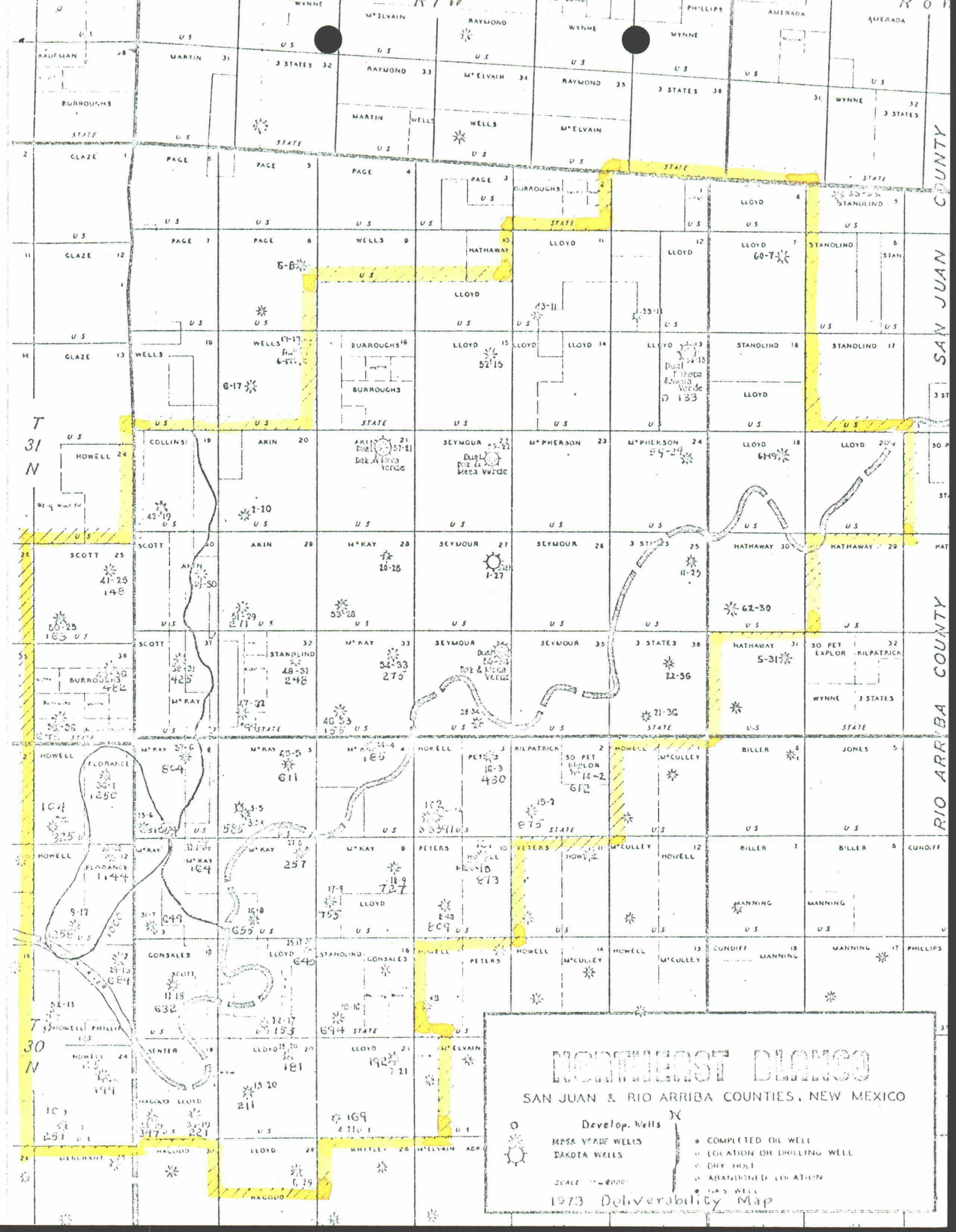
WNL:cb

Attachment - Plat

Four copies to each addressee.

Approved January 16 1974
A. L. Porter
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION



NORTHWEST DISTRICT

SAN JUAN & RIO ARRIBA COUNTIES, NEW MEXICO



Develop. Wells

MESA VERDE WELLS
DARTIA WELLS

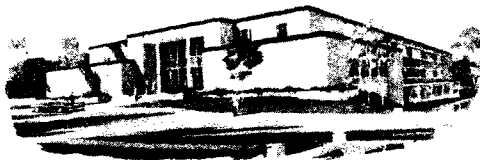
SCALE 1"=4000'

1973 Deliverability Map

- COMPLETED OIL WELL
- LOCATION OR DRILLING WELL
- DRY HOLE
- ABANDONED LOCATION
- WAS WELL

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

January 7, 1974

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Re: 1974 Plan of Development,
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has this date approved your 1974 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico. This plan calls for the drilling of no development wells during the Calendar Year 1974.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed herewith.

Your Four (\$4.00) Dollar filing fee has been received.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDC/s
encls.
cc:

USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓

ILLEGIBLE



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1357
Roswell, New Mexico 88201

3/5
February 23, 1973

Blackwood & Nichols Company
Attention: Mr. W. N. Little
2013 First National Building
Oklahoma City, Oklahoma 73102

Gentlemen:

One approved copy of your 1973 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional development wells, is enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD) CL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

cc:
Regional Mgr., Denver (ltr only)
Washington, (w/cy plan)
Durango (w/cy plan)
✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)

JAGillham:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 11, 1973

2/8

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1973 Plan of Development,
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1973 Plan of Development dated December 29, 1972, for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

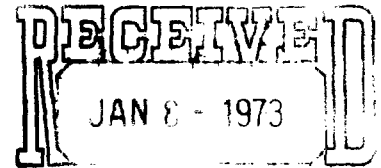
State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

January 5, 1973



OIL CONSERVATION COMM.
Santa Fe

P. O. BOX 1148
SANTA FE, NEW MEXICO

ALEX J. ARMIJO
COMMISSIONER

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Re: Northeast Blanco Unit
1973 Plan of Development
Mesaverde Zone,
San Juan and Rio Arriba
Counties, New Mexico

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has this date approved your 1973 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico. This plan calls for the drilling of no development wells during the Calendar year 1973.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed herewith.

Your Four (\$4.00) Dollar filing fee has been received.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

encls.

cc:

OCC-Santa Fe, New Mexico ✓
USGS-Roswell, New Mexico

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

December 29, 1972

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1973, MESAVERDE ZONE, NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARriba COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1973.

I Description of Participating Area in Mesaverde Zone.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone.

NEBU Well No.	October 1972 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1972	Date Completed	1972 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1972
Howell 1-B		560,802	Cag. Failed		
101	36,001 (32)	4,873,361	10/6/57	776	-
102	16,261 (32)	2,953,368	10/3/51	391	-
103	10,816 (32)	2,723,883	10/5/51	224	-
104	14,841 (24)	4,890,044	10/5/51	488	4,870.45
105	13,622 (22)	4,348,751	4/30/52	202	2,587.48

NEBU Well No.	October 1972 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1972	Date Completed	1972 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1972
McE1 37½%	8,821 (31)	1,372,027	6/1/55	El Paso Operates	2,660.60
2-20	2,813 (32)	476,658	6/12/54	641	-
5-13	-o-	-o-	Csg.Failed		
3-5	-o-	-o-	Csg.Failed		
3-5X	35,282 (32)	3,992,259	9/24/54	621	86.63
4-21	11,920 (32)	1,891,156	2/10/54	115	-
5-13X	-o-	3,643,492	8/14/53	No test	3,043.43
6-29	10,430 (32)	2,033,638	12/4/53	247	2,606.03
7-21	18,080 (31)	3,672,883	12/11/53	243	5,222.71
8-10	26,300 (32)	4,361,824	9/30/53	565	-
9-12	39,818 (25)	6,443,436	9/22/53	1,533	4,329.80
10-16	14,071 (32)	3,299,870	1/6/54	617	-
11-25	2,230 (25)	582,151	1/7/54	93	-
12-18	21,770 (24)	4,057,983	10/16/53	804	-
13-20	8,474 (32)	1,693,235	12/17/53	270	2,097.36
14-2	26,854 (32)	2,636,441	5/20/54	792	-
15-2	34,606 (32)	3,268,418	2/8/54	1,063	-
16-3	22,973 (32)	3,356,346	7/18/54	434	-
17-9	33,485 (32)	4,909,072	8/25/54	782	-
18-9	28,858 (32)	3,243,203	7/28/54	822	1,454.68
19-20	8,344 (32)	1,422,672	10/19/54	128	-
20-28	-o-	376,785	11/11/54	P&A 7/70	-
21-36	-o-	906,522	10/5/54	No test	50.91
22-36	2,614 (32)	736,109	11/2/54	69	-
23-6	23,003 (17)	7,366,617	8/30/55	1,350	1,762.06
24-17	18,884 (32)	2,609,568	5/22/55	369	3,829.04
25-17	33,283 (31)	3,829,192	6/15/55	671	3,093.55
26-8	36,064 (32)	4,383,680	8/25/55	763	-
27-8	11,895 (32)	2,181,283	8/1/55	136	-
28-34	1,494 (32)	1,033,354	9/21/55	19	-
29-13	6,732 (6)	4,866,150	5/31/55	831	2,650.70
30-12	20,229 (11)	4,863,655	8/3/55	1,538	3,831.48
31-7	20,262 (19)	4,172,233	7/3/55	784	3,759.22
32-7	9,480 (32)	2,325,858	9/28/55	191	-
33-12	2,446 (32)	500,476	11/10/55	120	-
34-19	14,180 (32)	2,302,644	5/5/57	414	1,780.41
35-19	11,783 (32)	2,232,060	7/25/57	300	-
36-1	40,372 (24)	9,644,262	4/28/56	1,838	-
37-6	26,792 (24)	5,251,378	5/23/56	1,031	-
38-31	8,113 (24)	1,867,399	8/21/57	509	-
39-36	24,172 (24)	3,911,117	6/3/57	635	4,482.09
40-36	17,944 (25)	2,721,923	7/6/57	266	-
41-25	5,690 (25)	1,343,584	9/14/57	189	-
42-19	1,907 (24)	379,719	10/13/57	136	-
43-11	3,426 (32)	618,712	1/7/58	73	-
44-4	13,836 (32)	2,446,674	7/1/56	271	-
45-5	23,814 (32)	3,827,240	5/4/56	1,197	-
46-33	6,758 (32)	1,497,081	7/15/57	145	-

NEBU Well No.	October 1972 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1972	Date Completed	1972 Deliverability	Cumulative Bbls. Drip Gasoline Nov. 1, 1972
47-32	5,646 (32)	1,796,893	5/4/56	130	-
48-32	7,138 (32)	1,581,059	7/28/57	197	-
49-30	4,271 (32)	751,553	11/5/57	151	-
50-25	5,411 (24)	1,481,728	8/3/57	119	831.22
51-29	7,090 (32)	1,353,110	8/9/57	314	-
52-15	4,046 (32)	902,220	5/21/57	93	-
53-28	2,461 (31)	665,447	8/23/57	48	-
54-33	6,579 (32)	1,541,743	6/18/57	289	-
55-22	3,467 (31)	543,362	9/26/58	101	-
56-34	677 (12)	570,179	11/17/58	147	-
57-21	2,470 (31)	272,552	9/18/59	91	-
58-13	2,681 (32)	525,508	11/3/59	67	-
59-24	1,750 (32)	327,670	7/2/60	42	-
60-7	2,299 (32)	374,607	6/1/61	66	-
61-19	1,345 (32)	324,351	6/19/61	52	-
62-30	1,910 (24)	344,744	7/8/61	99	-
<u>TOTAL</u>					
<u>MESAVERDE</u>	891,084	168,258,974			55,029.85
"Los Pinos"					
<u>DAKOTA ZONE</u>					
1-27	12,200 (32)	1,622,662	8/28/52	2	-
55-22	796 (32)	119,838	9/26/58	10	-
56-34	566 (32)	308,001	11/17/58	120	-
57-21	1,065 (32)	310,750	11/3/59	117	-
58-13	4,891 (32)	787,110	9/18/59	222	-
<u>TOTAL</u>					
<u>DAKOTA</u>	19,518	3,148,361			-
<u>GRAND</u>					
<u>TOTAL</u>	910,602	171,407,335			55,029.85

III Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current conditions, the drilling of any development wells would not be prudent.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the Calendar year 1973.

VI Effective Date.

The effective date of the Plan of Development shall be January 1, 1973.

VII Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 29th day of December 1972.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

By

W. N. Little

W. N. Little, Manager of Operations

WNL:cb

Attachment - Plat

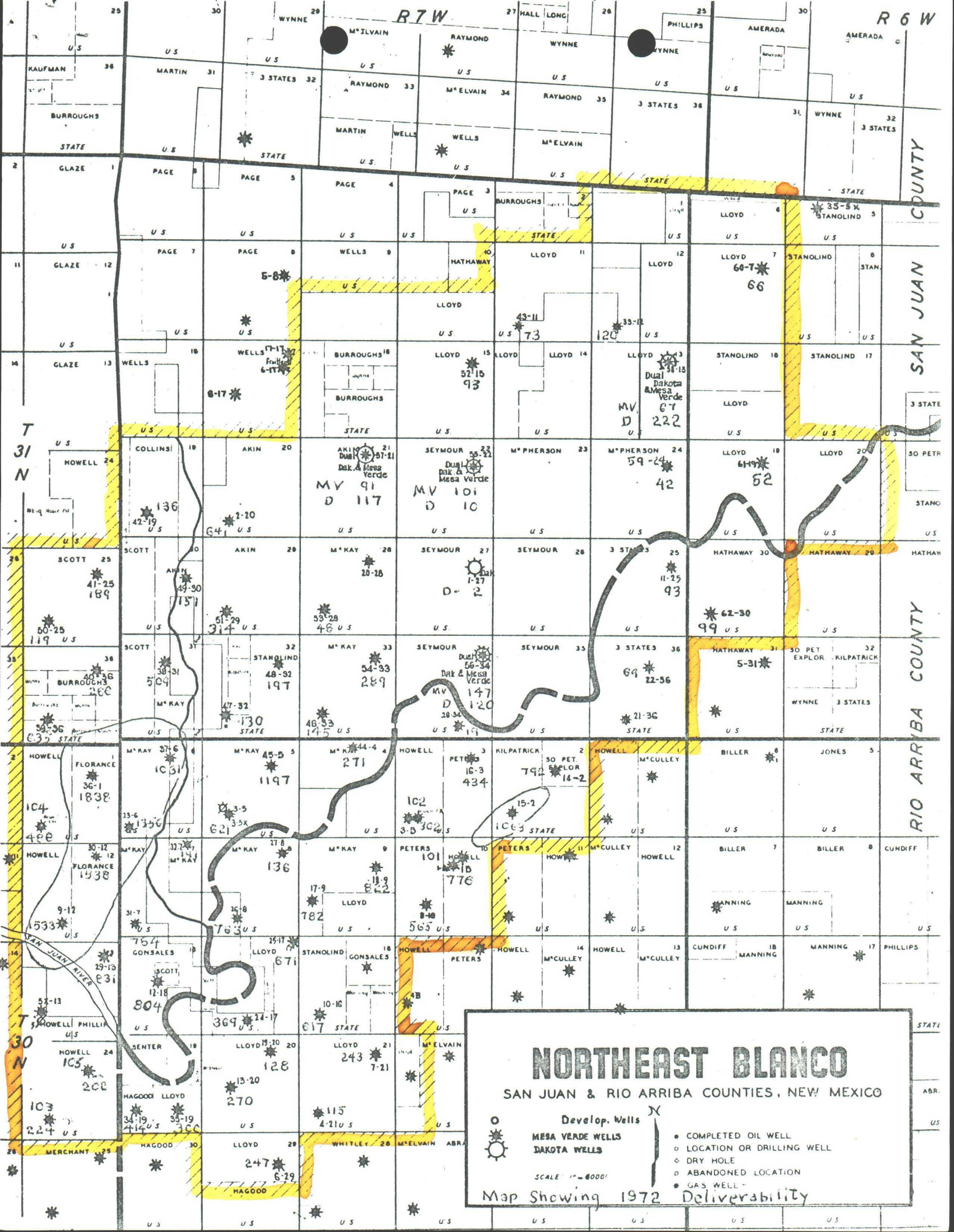
Four copies to each addressee.

Approved

January 11 1973
[Signature]
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

THIS APPROVAL GRANTED SUBJECT TO LIKE APPROVAL
BEING GRANTED BY THE UNITED STATES GEOLOGICAL
SURVEY AND BY THE COMMISSIONER OF PUBLIC LANDS
OF THE STATE OF NEW MEXICO.





IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

RECEIVED
FEB-1 1972
OIL CONSERVATION COMM.
SANTA FE

January 28, 1972

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Gentlemen:

Your 1972 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

N. O. FREDERICK

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:

Washington (w/cy plan)

Durango (w/cy plan)

NMOCC, Santa Fe (ltr. only)

Com. Public Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 10, 1972

318

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1972 Plan of Development
Northeast Blanco Unit,
San Juan & Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the Calendar year 1972 for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell
Commissioner of Public Lands - Santa Fe

U
C
P
Y

State of New Mexico



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

January 7, 1972

P. O. Box 1148
SANTA FE, NEW MEXICO

**Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102**

**Re: Northeast Blanco Unit
1972 Plan of Development
Mesaverde Zone,
San Juan and Rio Arriba
Counties, New Mexico**

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has as of this date approved your 1972 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico. This plan calls for the drilling of no additional wells to be drilled during 1972.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed herewith.

Your Four (\$4.00) Dollar filing fee has been received.

Very truly yours,

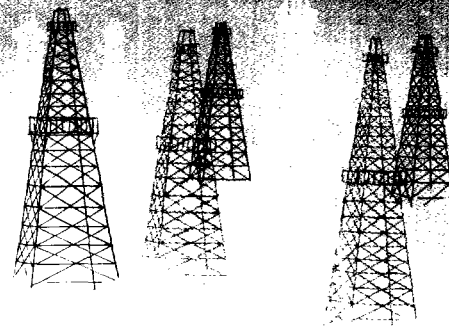
**RAY D. GRAHAM, Director
Oil and Gas Department**

**AJA/RDG/s
encls.**

**cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico**

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102



December 29, 1971

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1972, MESAVERDE ZONE,
NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARRIBA
COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

RECEIVED

JAN - 3 1972

OIL CONSERVATION COMM.
SANTA FE

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1972.

I. Description of Participating Area in Mesaverde Zone.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II. Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone.

NEBU Well No.	October 1971 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1971	Date Completed	1971 Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1971
Howell 1-B	-o-	560,802	Csg. Failed		
101	36,952 (32)	4,634,168	10/6/57	1,341	-
102	14,535 (32)	2,781,359	10/3/51	861	-
103	8,287 (32)	2,617,695	10/5/51	184	-
104	16,554 (32)	4,653,905	10/5/51	631	4,818.25
105	11,371 (30)	4,218,417	4/30/52	407	2,587.48
McE1 37½%	9,609 (31)	1,275.329	6/1/55	-	2,452.10
2-20	3,759 (32)	447,203	6/12/54	Marg.	-

NEBU	October 1971	Cumulative	Date	1971	Cum. Bbls.
Well No.	MCF Production Days Prod.()	MCF Production Nov. 1, 1971	Completed	Deliverability	Drip Gasoline Nov. 1, 1971
5-13	-o-	-o-	Csg. Failed	-	-
3-5	-o-	-o-	Csg. Failed	-	-
3-5X	31,043 (32)	3,718,911	9/24/54	704	86.63
4-21	7,318 (32)	1,788,864	2/10/54	187	-
5-13X	1,506 (32)	3,643,354	8/14/53	Marg.	3,043.43
6-29	9,174 (32)	1,920,923	12/4/53	273	2,529.94
7-21	16,665 (32)	3,507,817	12/11/53	231	5,067.34
8-10	21,047 (32)	4,088,977	9/30/53	736	-
9-12	54,554 (32)	5,877,119	9/22/53	1,690	4,015.29
10-16	25,272 (26)	3,089,697	1/6/54	591	-
11-25	2,571 (32)	551,293	1/7/54	Marg.	-
12-18	26,315 (32)	3,744,691	10/16/53	971	-
13-20	8,833 (32)	1,600,588	12/17/53	89	2,018.79
14-2	28,433 (32)	2,340,453	5/20/54	768	-
15-2	37,241 (32)	2,874,631	2/8/54	1,198	-
16-3	15,323 (20)	3,131,552	7/18/54	679	-
17-9	38,910 (32)	4,539,587	8/25/54	923	-
18-9	28,650 (32)	2,933,695	7/28/54	1,060	1,397.75
19-20	6,928 (32)	1,334,652	10/19/54	188	-
20-28	-o- P&A 7/70	376,785	11/11/54	P&A 7/70	-
21-36	-o-	906,506	10/5/54	Marg.	50.91
22-36	2,475 (32)	703,955	11/2/54	Marg.	-
23-6	43,713 (32)	6,904,969	8/30/55	1,663	1,362.86
24-17	14,711 (31)	2,455,723	5/22/55	276	3,619.38
25-17	33,950 (32)	3,522,077	6/15/55	739	2,948.02
26-8	36,530 (32)	4,042,029	8/25/55	823	-
27-8	5,738 (32)	2,054,259	8/1/55	95	-
28-34	1,633 (32)	1,013,766	9/21/55	Marg.	-
29-13	29,427 (32)	4,547,186	5/31/55	898	2,416.82
30-12	34,144 (21)	4,419,542	8/3/55	1,471	3,605.78
31-7	30,650 (32)	3,853,752	7/3/55	911	3,516.84
32-7	8,634 (25)	2,200,685	9/28/55	227	-
33-12	2,447 (32)	471,941	11/10/55	Marg.	-
34-19	14,014 (32)	2,151,791	5/5/57	520	1,756.96
35-19	13,140 (32)	2,094,580	7/25/57	353	-
36-1	51,550 (32)	9,072,064	4/28/56	1,937	-
37-6	26,527 (32)	4,881,742	5/23/56	1,075	-
38-31	9,006 (32)	1,752,809	8/21/57	338	-
39-36	30,984 (31)	3,584,397	6/3/57	1,123	3,836.72
40-36	9,169 (32)	2,508,349	7/6/57	291	-
41-25	6,401 (32)	1,267,003	9/14/57	341	-
42-19	1,767 (32)	354,537	10/13/57	Marg.	-
43-11	2,678 (32)	581,657	1/7/58	Marg.	-
44-4	12,002 (32)	2,312,966	7/1/56	282	-
45-5	17,049 (32)	3,571,067	5/4/56	262	-
46-33	9,324 (32)	1,412,273	7/15/57	270	-
47-32	5,537 (32)	1,728,380	5/4/56	133	-
48-32	9,084 (32)	1,497,260	7/28/57	319	-
49-30	5,611 (32)	700,233	11/5/57	Marg.	-
50-25	5,670 (32)	1,411,303	8/3/57	157	706.90

NEBU Well No.	October 1971 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1971	Date Completed	1971 Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1971
51-29	8,243 (32)	1,266,681	8/9/57	308	-
52-15	4,762 (32)	853,983	5/21/57	Marg.	-
53-28	2,860 (32)	633,677	8/23/57	Marg.	-
54-33	8,861 (32)	1,452,354	6/18/57	245	-
55-22	4,600 (32)	506,522	9/26/58	Marg.	-
56-34	5,449 (32)	540,365	11/17/58	Marg.	-
57-21	2,850 (32)	252,820	9/18/59	Marg.	-
58-13	3,936 (32)	494,309	11/3/59	107	-
59-24	2,230 (32)	306,368	7/2/60	Marg.	-
60-7	1,809 (32)	349,868	6/1/61	Marg.	-
61-19	1,732 (32)	301,792	6/19/61	Marg.	-
62-30	<u>2,310 (31)</u>	<u>319,551</u>	7/8/61	Marg.	-
TOTAL					
<u>MESAVERDE</u>	984,057	157,509,558			51,838.19
"Los Pinos"					
<u>Dakota Zone</u>					
1-27	597 (32)	1,579,090	8/28/52	Marg.	-
55-22	556 (32)	111,950	9/26/58	Marg.	-
56-34	1,687 (32)	292,800	11/17/58	Marg.	-
57-21	271 (32)	293,802	11/3/59	Marg.	-
58-13	<u>4,896 (32)</u>	<u>722,749</u>	9/18/59	139	-
TOTAL					
<u>DAKOTA</u>	8,007	3,000,391			-
GRAND					
<u>TOTAL</u>	<u>992,064</u>	<u>160,509,949</u>			<u>51,838.19</u>

The following note pertains to the table on this and preceding pages:

Note #1 - October 1971 information indicates that the gas carries from zero GPM to .334 gallons per thousand. The mathematical average gasoline content for 66 Mesaverde wells was 172 GPM during October 1971.

III. Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV. Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V. Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of eleven years.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the Calendar year 1972.

VI. Effective Date.

The effective date of the Plan of Development shall be January 1, 1972.

VII. Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 29th day of December 1971.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

By W. N. Little
W. N. Little, Manager of Operations

WNL:cb

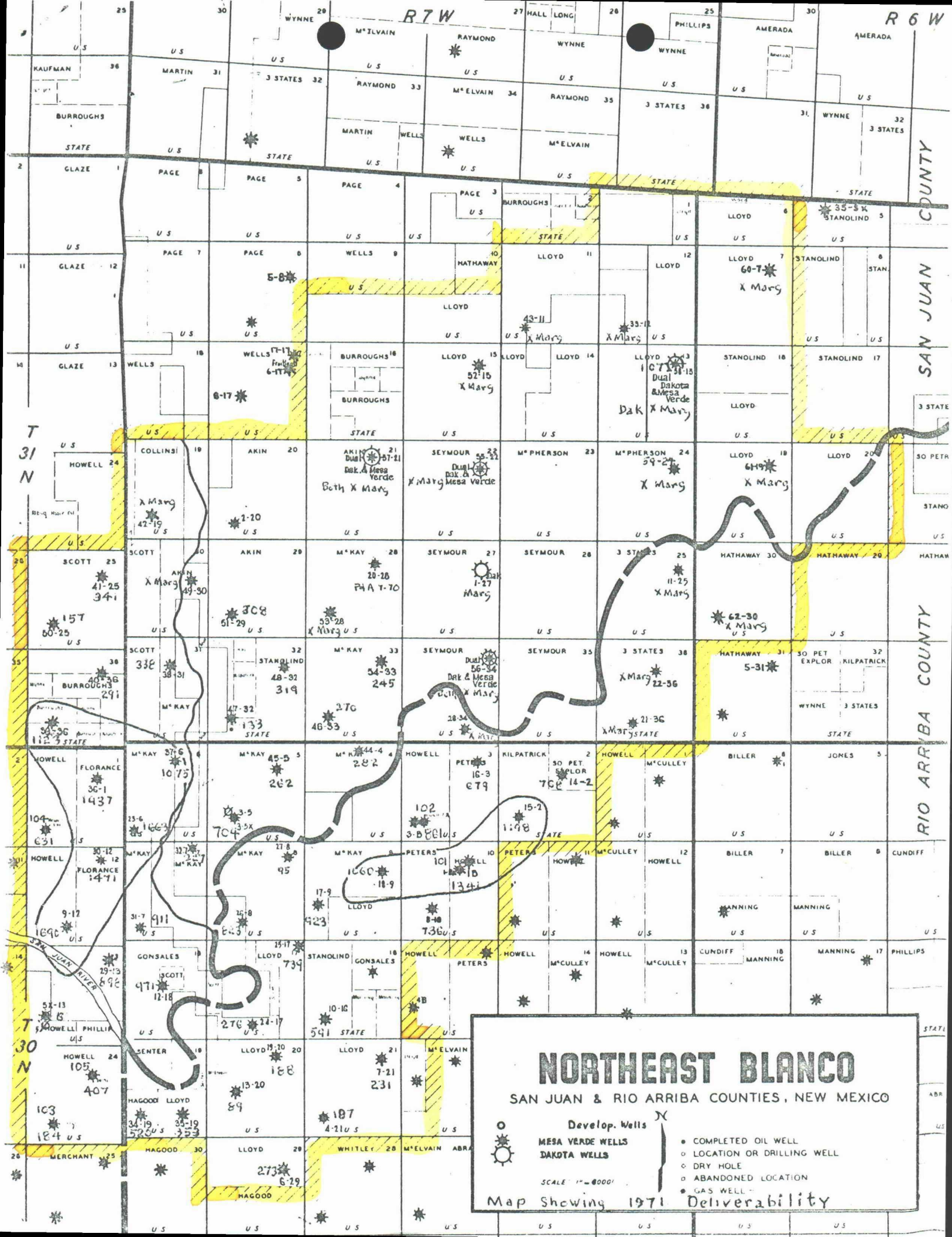
Attachment - Plat

Four copies to each addressee.

Approved January 10 1972
A. L. Peters
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

THIS APPROVAL GRANTED SUBJECT TO LIKE APPROVAL
BEING GRANTED BY THE UNITED STATES GEOLOGICAL
SURVEY AND BY THE COMMISSIONER OF PUBLIC LANDS
OF THE STATE OF NEW MEXICO.



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 25, 1971

318

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1971 Plan of Development
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the calendar year 1971 providing for the drilling of no wells in the Northeast Blanco Unit Area, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
P. O. Box 1148
Santa Fe, New Mexico 88201

United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

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Y

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

December 29, 1970

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1971, MESAVERDE ZONE, NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARRIBA COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1971.

I. Description of Participating Area in Mesaverde Zone.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II. Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone.

NEBU Well No.	October 1970 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1970	Date Completed	1970 1969 * Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1970
Howell 1-B	-o-	560,802	Csg. Failed		-
101	29,472 (22)	4,226,480	10/6/57	1,265	-
102	13,645 (32)	2,609,309	10/3/51	408	-
103	6,833 (32)	2,525,308	10/5/51	408	-
104	4,271 (5)	4,426,149	10/5/51	571	4,701.92
105	10,658 (30)	4,073,035	4/30/52	679	2,587.48
McEl 37½%	7,059 (22)	1,176,677	6/1/55	-	2,225.40
2-20	2,752 (32)	428,850	6/12/54	Marg.	-
3-5	-o-	-o-	Csg. Failed		-

NEBU	October 1970		Cumulative		1970	Cum. Bbls.
Well No.	MCF PRODUCTION	MCF Production	Date	1969 *	Drip Gasoline	
	Days Prod.()	Nov. 1, 1970	Completed	Deliverability	Nov. 1, 1970	
3-5X	24,603 (24)	3,543,237	9/24/54	579	86.63	
4-21	8,524 (32)	1,681,682	2/10/54	436	-	
5-13	-o-	-o-	Csg. Failed			
5-13X	517 (32)	3,628,715	8/14/53	6	2,976.56	
6-29	9,622 (32)	1,814,541	12/4/53	533	2,371.18	
7-21	4,022 (7)	3,368,603	12/11/53	371	4,858.78	
8-10	15,912 (32)	3,877,613	9/30/53	745	-	
9-12	34,560 (27)	5,337,101	9/22/53	1,754	3,606.21	
10-16	21,330 (20)	2,869,880	1/6/54	647	-	
11-25	2,082 (32)	518,463	1/7/54	Marg.	-	
12-18	19,774 (20)	3,439,110	10/16/53	1,034	-	
13-20	6,702 (31)	1,512,275	12/17/53	205	2,018.79	
14-2	25,547 (22)	2,048,021	5/20/54	887	-	
15-2	32,064 (22)	2,488,260	2/8/54	1,252	-	
16-3	18,422 (32)	2,893,024	7/18/54	531	-	
17-9	28,472 (22)	4,230,272	8/25/54	887	-	
18-9	22,041 (22)	2,623,207	7/28/54	916	1,290.80	
19-20	6,068 (32)	1,255,534	10/19/54	235	-	
20-28 P&A 7/70	-o-	376,785	11/11/54	P & A 7/70	-	
21-36	4 (32)	895,061	10/5/54	82 *	50.91	
22-36	2,465 (32)	675,296	11/2/54	102 *	-	
23-6	18,586 (11)	6,497,564	8/30/55	1,546	1,196.34	
24-17	8,391 (20)	2,293,092	5/22/55	419	3,377.04	
25-17	22,373 (20)	3,261,746	6/15/55	750	2,679.50	
26-8	24,962 (21)	3,759,943	8/25/55	854	-	
27-8	4,498 (32)	2,001,478	8/1/55	181	-	
28-34	1,918 (32)	993,416	9/21/55	31 *		
29-13	16,291 (12)	4,249,458	5/31/55	989	2,267.25	
30-12	36,379 (22)	4,094,553	8/3/55	1,353	3,522.03	
31-7	13,790 (12)	3,580,586	7/3/55	886	3,432.73	
32-7	7,483 (26)	2,087,517	9/28/55	243	-	
33-12	2,508 (32)	453,611	11/10/55	Marg.	-	
34-19	5,960 (19)	1,999,104	5/5/57	651	1,756.96	
35-19	9,888 (28)	1,954,170	7/25/57	547	-	
36-1	38,853 (21)	8,491,207	4/28/56	2,222	-	
37-6	23,429 (20)	4,577,729	5/23/56	999	-	
38-31	12,318 (32)	1,638,557	8/21/57	329	-	
39-36	15,788 (10)	3,336,041	6/3/57	736	3,676.39	
40-36	8,657 (22)	2,393,327	7/6/57	318	-	
41-25	7,385 (32)	1,189,481	9/14/57	235	-	
42-19	2,330 (32)	335,266	10/13/57	66	-	
43-11	2,539 (32)	550,140	1/7/58	Marg.	-	
44-4	8,064 (26)	2,210,971	7/1/56	416	-	
45-5	21,029 (26)	3,397,364	5/4/56	609	-	
46-33	8,061 (31)	1,326,970	7/15/57	223	-	
47-32	5,394 (32)	1,669,058	5/4/56	133	-	
48-32	7,886 (32)	1,429,687	7/28/57	239	-	
49-30	4,466 (32)	667,095	11/5/57	Marg.	-	
50-25	6,944 (32)	1,335,324	8/3/57	128	592.84	
51-29	6,449 (32)	1,211,808	8/9/57	242	-	
52-15	3,977 (32)	813,661	5/21/57	Marg.	-	
53-28	2,771 (32)	605,389	8/23/57	Marg.	-	
54-33	7,660 (32)	1,391,538	6/18/57	251	-	
55-22	3,709 (32)	476,908	9/26/58	47 *	-	

NEBU Well No.	October 1970 MCF Production Days Prod.()	Cumulative MCF Production Nov. 1, 1970	Date Completed	1970 1969 * Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1970
56-34	4,472 (32)	508,206	11/17/58	87 *	-
57-21	2,072 (32)	238,224	9/18/59	24 *	-
58-13	3,033 (31)	465,186	11/3/59	93 *	-
59-24	1,997 (32)	289,346	7/2/60	Marg.	-
60-7	2,592 (32)	325,451	6/1/61	Marg.	-
61-19	2,094 (32)	284,328	6/19/61	Marg.	-
62-30	1,968 (32)	292,621	7/8/61	Marg.	-
<u>TOTAL</u> <u>MESAVERDE</u>	746,385	147,780,411			49,275.74
<u>"Los Pinos"</u> <u>Dakota Zone</u>					
1-27	8,862 (21)	1,487,700	8/28/52	-	-
55-22	604 (32)	106,567	9/26/58	25 *	-
56-34	836 (32)	281,081	11/17/58	67 *	-
57-21	1,623 (32)	279,927	11/3/59	62 *	-
58-13	2,689 (23)	661,140	9/18/59	170 *	-
<u>TOTAL</u> <u>DAKOTA</u>	14,614	2,816,415			-
<u>GRAND</u> <u>TOTAL</u>	760,999	150,596,826			49,275.74

The following note pertains to the table on this and preceding pages:

Note #1 - October 1970 information indicates that the gas carries from zero GPM to .334 gallons per thousand. The Mathematical average gasoline content for 66 Mesaverde wells was 172 GPM during October 1970.

III. Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV. Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V. Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the calendar year 1971.

VI. Effective Date.

The effective date of the Plan of Development shall be January 1, 1971.

VII. Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 29th day of December 1970.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

By W. N. Little
W. N. Little, Manager of Operations

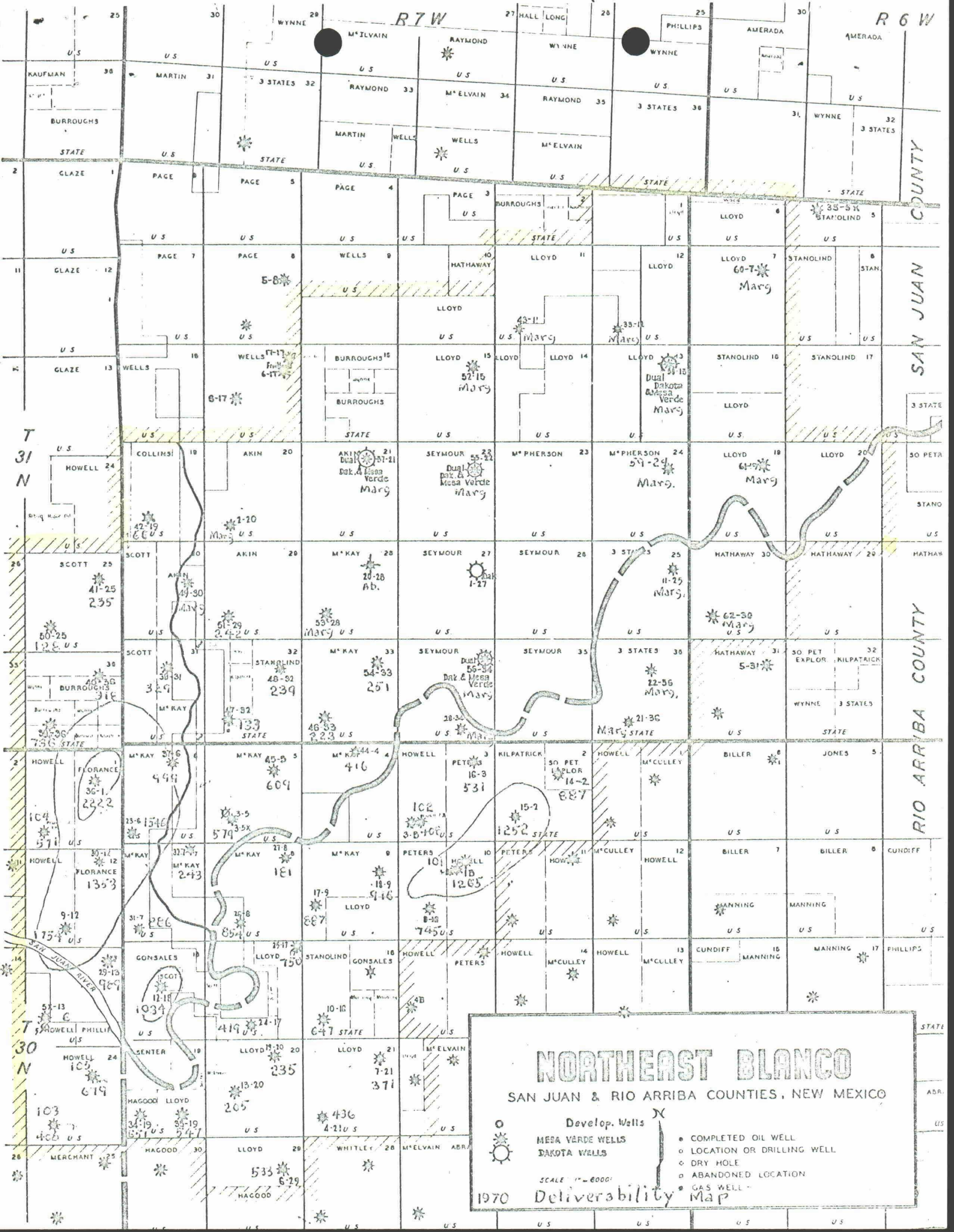
Approved January 22, 1971
W. N. Little
Secretary-Director

WNL:cb

Attachment - Plat

Four copies to each addressee.

NEW MEXICO OIL CONSERVATION COMMISSION





IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

January 21, 1971

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Gentlemen:

Your 1971 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington (w/cy plan)
Durango (w/cy plan)
NMOCC, Santa Fe (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)

January 5, 1971

Blackwood & Nichols Company
2012 First National Building
Oklahoma City, Oklahoma 73102

Re: Northeast Blanco Unit
1971 Plan of Development
Mesaverte Zone,
San Juan and Rio Arriba Counties,
New Mexico

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has as of this date approved your 1971 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico. This plan calls for the drilling of an additional wells to be drilled during 1971.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed herewith.

Your four (\$4.00) Dollar filing fee has been received.

Sincerely yours,

GORDON G. MARCUM, II, Director
Oil and Gas Department

AJA/GGM/s

encls.

cc: USGS-Roswell, New Mexico
OCC-Santa Fe, New Mexico



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

June 26, 1970

Pan American Petroleum Corporation
Security Life Building
Denver, Colorado 80202

Attention: Mr. T. M. Curtis

Gentlemen:

Your letter of June 22 transmits three copies of an instrument entitled, "Designation of Sub-Operator", by which Blackwood and Nichols Company, as unit operator of the Northeast Blanco unit, Rio Arriba and San Juan Counties, New Mexico, designates Pan American Petroleum Corporation as sub-operator for the sole purpose of drilling a Dakota well in sec. 28, T. 31 N., R. 7 W., N.M.P.M.

The "Designation of Sub-Operator" is accepted as a "Designation of Agent" from Blackwood and Nichols Company. Such acceptance does not relieve Blackwood and Nichols of its responsibility as unit operator to assume operation of any well on the above-described land that is determined to be qualified for inclusion in a participating area.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:
Blackwood and Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Washington (w/cy desig.)
BIM, Santa Fe (w/cy desig.)
Com. of Pub. Lands (ltr only)
NMOCC, Santa Fe (ltr only)
Durango (w/cy desig.)

PAN AMERICAN PETROLEUM CORPORATION

SECURITY LIFE BUILDING
DENVER, COLORADO 80202

June 22, 1970

File: TMC-196-416

Re: Northeast Blanco Unit
Rio Arriba and San Juan
Counties, New Mexico

318
JUN 24 AM 11 28

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Dear Sir:

Attached are three copies of Designation of Sub-Operator between Blackwood & Nichols Company and Pan American Petroleum Corporation, designating Pan American Petroleum Corporation as Sub-Operator of the lease within the Northeast Blanco Unit as specifically described in the Designation.

Yours very truly,

J. M. Curtis

BFS:m

cc: Mr. DeLasso Loos w/attach (1)
Blackwood & Nichols Company
P. O. Box 1237
Durango, Colorado 81301

Mr. A. L. Porter, Jr. w/attach (2)
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Alex Armijo w/attach (1)
Commissioner of Public Lands for the State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Mr. L. O. Speer, Jr. w/attach (1)

Mr. C. E. Seese W/attach (1)

'70 JUN 24 AM 11 28

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 12 day of June, 1970, by and between BLACKWOOD & NICHOLS COMPANY, a partnership, whose mailing address is 2013 First National Building, Oklahoma City, Oklahoma 73102 (hereinafter sometimes referred to as "Operator"), and PAN AMERICAN PETROLEUM CORPORATION, a Delaware corporation, whose mailing address is Security Life Building, Denver, Colorado 80202 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Northeast Blanco Unit I Sec. No. 929, located in the Counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desires to drill a Dakota well on the following described lands, situated in San Juan County, New Mexico, pursuant to the provisions of Section Thirteen (13) of the Northeast Blanco Unit Agreement, to wit:

1. USA SF 079043
Township 31 North, Range 7 West, N.M.P.M.
Section 28: All
Containing 640.00 acres, more or less

WHEREAS, the above described land is committed to the terms and conditions of the Northeast Blanco Unit Agreement and Northeast Blanco Unit Operating Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill the said Dakota well as Unit Operator under the terms of the Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tract; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota well may be drilled by Sub-Operator;

NOW, THEREFORE, in order to permit Pan American Petroleum Corporation to drill the above described Dakota well, Blackwood & Nichols Company, as Unit Operator of the Northeast Blanco Unit, hereby designates the said Pan American Petroleum Corporation as Sub-Operator for the sole and only purpose of drilling

the said Dakota well on the above described lands pursuant to Section Thirteen (13) of the Northeast Blanco Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota well as a reasonable and prudent operator in accordance with the terms and conditions of the Northeast Blanco Unit Agreement and the Northeast Blanco Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all drilling and casing programs prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator with reports by telephone call or mail at Sub-Operator's expense, as to the formation or formations penetrated during drilling, the depth at which each formation is encountered, and the depth at which the report is made.
5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.
7. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.
8. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of well.
9. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of well.
10. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the wells.
11. Notify Operator of any intention to plug and abandon well and allow Operator forty-eight (48) hours in which to concur.
12. Sub-Operator shall carry and pay for and file with Operator for its approval proper and acceptable evidence of the following insurance:
 - a. Workmen's Compensation and/or Employer's Liability Insurance which shall comply with the laws of the State in which this Agreement is to be performed and shall

cover all of its employees engaged in the activities to be performed under this Agreement.

- b. Automobile Public Liability Insurance with not less than \$100/300,000.00 limits covering bodily injury and death, and property damage with a limit of not less than \$50,000.00 to cover all automotive equipment used in connection with performance of this Agreement.
- c. Public Liability Insurance covering activities performed under this Agreement with bodily injury and death limits of \$100,000.00 as to any one person and \$300,000.00 as to any one accident. Property Damage Insurance with limits of \$50,000.00.

- 13. Furnish the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico, with a copy to Operator at the addresses hereinafter provided.
- 14. Provide the Commissioner of Public Lands of the State of New Mexico with copies of all reports and other well data submitted in accordance with the preceding paragraph.

All notices, samples, or other information required to be furnished shall be sent to:

Blackwood & Nichols Company
Post Office Box 1237
Durango, Colorado 81301
Attention: Mr. DeLasso Loos

Sub-Operator shall comply with all applicable laws, rules and regulations of any governmental authority having jurisdiction over operations performed under this Designation, and shall indemnify, protect and hold Operator harmless from and against any and all claims, demands or causes of action for injuries or death to persons or damage to property occurring in connection with or in any manner incident to operations conducted by the Sub-Operator hereunder.

Sub-Operator and Operator agree that Sub-Operator shall drill and complete or plug and abandon the subject Dakota well pursuant to the provisions of the Northeast Blanco Unit Operating Agreement.

The drilling of the said Dakota well is subject to approval by the Oil Conservation Commission of the State of New Mexico as to privately owned lands, the Commissioner of Public Lands of the State of New Mexico as to State lands, and the Supervisor of the United States Geological Survey, Roswell, New Mexico, as to Federal and/or Indian lands.

THIS DESIGNATION of agent is deemed to be temporary and in no manner a permanent arrangement.

THIS DESIGNATION is personal and cannot be assigned in whole or in part by Sub-Operator without the written consent of Operator having first been obtained.

IN WITNESS WHEREOF, this Designation is executed as of the day and year first hereinabove written.

OPERATOR

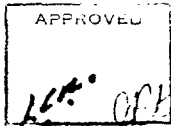
BLACKWOOD & NICHOLS COMPANY

By: F. G. Blackwood, a General Partner

SUB-OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

By: H. T. Hunter
Attorney-in-Fact



STATE OF OKLAHOMA)
COUNTY OF Oklahoma)

The foregoing instrument was acknowledged before me this 12 day of June, 1970, by F. G. Blackwood, a General Partner of Blackwood & Nichols Company.

C. B. Bollen
Notary Public

My Commission Expires:
January 24, 1974

STATE OF COLORADO)
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this _____ day of _____, 1970, by H. T. HUNTER, Attorney-in-Fact of PAN AMERICAN PETROLEUM CORPORATION, a Delaware corporation, on behalf of said corporation.

Notary Public _____
County, _____

My Commission Expires:
May 1

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 12 day of June, 1970, by and between BLACKWOOD & NICHOLS COMPANY, a partnership, whose mailing address is 2013 First National Building, Oklahoma City, Oklahoma 73102 (hereinafter sometimes referred to as "Operator"), and PAN AMERICAN PETROLEUM CORPORATION, a Delaware corporation, whose mailing address is Security Life Building, Denver, Colorado 80202 (hereinafter sometimes referred to as "Sub-Operator");

WHEREAS, Operator is Unit Operator for the Northeast Blanco Unit I Sec. No. 929, located in the Counties of Rio Arriba and San Juan, New Mexico; and

WHEREAS, Sub-Operator desires to drill a Dakota well on the following described lands, situated in San Juan County, New Mexico, pursuant to the provisions of Section Thirteen (13) of the Northeast Blanco Unit Agreement, to wit:

1. USA SF 079043

Township 31 North, Range 7 West, N.M.P.M.
Section 28: All
Containing 640.00 acres, more or less

WHEREAS, the above described land is committed to the terms and conditions of the Northeast Blanco Unit Agreement and Northeast Blanco Unit Operating Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill the said Dakota well as Unit Operator under the terms of the Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tract; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota well may be drilled by Sub-Operator;

NOW, THEREFORE, in order to permit Pan American Petroleum Corporation to drill the above described Dakota well, Blackwood & Nichols Company, as Unit Operator of the Northeast Blanco Unit, hereby designates the said Pan American Petroleum Corporation as Sub-Operator for the sole and only purpose of drilling

the said Dakota well on the above described lands pursuant to Section Thirteen (13) of the Northeast Blanco Unit Agreement.

Sub-Operator indicates his acceptance of this Designation by placing his signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota well as a reasonable and prudent operator in accordance with the terms and conditions of the Northeast Blanco Unit Agreement and the Northeast Blanco Unit Operating Agreement, and also agrees to the following conditions:

1. Unit Operator's representative shall approve all drilling and casing programs prior to the drilling of any well.
2. Notify Operator when drilling operations are commenced.
3. Furnish Operator with complete daily driller's tour report, at Sub-Operator's expense.
4. Furnish Operator with reports by telephone call or mail at Sub-Operator's expense, as to the formation or formations penetrated during drilling, the depth at which each formation is encountered, and the depth at which the report is made.
5. Allow representatives of Operator access to the derrick floor at all times.
6. Notify Operator of intentions to core, drill stem test or run well surveys in sufficient time to enable Operator's representatives to be present; and also notify Operator in sufficient time in order that Operator may attend and witness any and all potential tests.
7. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three (3) preliminary copies and three (3) final copies of the analysis report to Operator.
8. Furnish Operator three (3) field prints and five (5) final prints of all well surveys made during drilling or upon completion of well.
9. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of well..
10. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the wells.
11. Notify Operator of any intention to plug and abandon well and allow Operator forty-eight (48) hours in which to concur.
12. Sub-Operator shall carry and pay for and file with Operator for its approval proper and acceptable evidence of the following insurance:
 - a. Workmen's Compensation and/or Employer's Liability Insurance which shall comply with the laws of the State in which this Agreement is to be performed and shall

cover all of its employees engaged in the activities to be performed under this Agreement.

- b. Automobile Public Liability Insurance with not less than \$100/300,000.00 limits covering bodily injury and death, and property damage with a limit of not less than \$50,000.00 to cover all automotive equipment used in connection with performance of this Agreement.
 - c. Public Liability Insurance covering activities performed under this Agreement with bodily injury and death limits of \$100,000.00 as to any one person and \$300,000.00 as to any one accident. Property Damage Insurance with limits of \$50,000.00.
13. Furnish the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey and the Oil Conservation Commission of the State of New Mexico, with a copy to Operator at the addresses hereinafter provided.
14. Provide the Commissioner of Public Lands of the State of New Mexico with copies of all reports and other well data submitted in accordance with the preceding paragraph.

All notices, samples, or other information required to be furnished shall be sent to:

Blackwood & Nicholds Company
Post Office Box 1237
Durango, Colorado 81301
Attention: Mr. DeLasso Loos

Sub-Operator shall comply with all applicable laws, rules and regulations of any governmental authority having jurisdiction over operations performed under this Designation, and shall indemnify, protect and hold Operator harmless from and against any and all claims, demands or causes of action for injuries or death to persons or damage to property occurring in connection with or in any manner incident to operations conducted by the Sub-Operator hereunder.

Sub-Operator and Operator agree that Sub-Operator shall drill and complete or plug and abandon the subject Dakota well pursuant to the provisions of the Northeast Blanco Unit Operating Agreement.

The drilling of the said Dakota well is subject to approval by the Oil Conservation Commission of the State of New Mexico as to privately owned lands, the Commissioner of Public Lands of the State of New Mexico as to State lands, and the Supervisor of the United States Geological Survey, Roswell, New Mexico, as to Federal and/or Indian lands.

THIS DESIGNATION is personal and cannot be assigned in whole or in part by Sub-Operator without the written consent of Operator having first been obtained.

OPERATOR

By: F. G. Blackwood, a General Partner

SUB-OPERATOR

By: [Signature]
Attorney-In-Fact

The foregoing instrument was acknowledged before me this 12 day of June, 1970, by F. G. Blackwood, a General Partner of Blackwood & Nichols Company.

C. B. Borden
Notary Public

January 24, 1974

The foregoing instrument was acknowledged before me this ____ day of _____, 1970, by _____ H. T. HUNTER _____, Attorney-in-Fact of PAN AMERICAN PETROLEUM CORPORATION, a Delaware corporation, on behalf of said corporation.

Notary Public _____
County, _____

My Commission Expires:

Mr. C. J. ...



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

February 24, 1970

70 FEB 26 1970
318

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Gentlemen:

Your 1970 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:

Washington (w/cy plan)
Durango (w/cy plan)
NMOCC, Santa (ltr. only) ✓
Com. Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 23, 1970

318

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1970 Plan of Development
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the calendar year 1970 for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell
Commissioner of Public Lands - Santa Fe

C
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JAN 7 1970

January 5, 1970

C
O
P
Y

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Re: Northeast Blanco Unit
1970 Plan of Development
San Juan and Rio Arriba
Counties, New Mexico

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has as of this date approved your 1970 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico. This plan calls for the drilling of no additional wells to be drilled during 1970.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed herewith.

Very truly yours,

Ted Bilberry, Director
Oil and Gas Department

TE/ML/s
encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico

DEC 31 1969

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

December 29, 1969

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1970, MESAVERDE ZONE,
NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARRIBA
COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P.O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission ✓
State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1970.

I. Description of Participating Area in Mesaverde Zone.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II. Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone.

NEBU Well No.	October, 1969 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1969	Date Completed	1969 1968 * Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1969
Howell 1-B	-o-	560,802	Csg. Failed		-
101	44,648 (31)	3,916,181	10/6/57	1,593	-
102	19,266 (32)	2,443,169	10/3/51	597	-
103	11,511 (32)	2,407,420	10/5/51	291	-
104	19,285 (21)	4,241,091	10/5/51	700	4,619.59
105	11,154 (30)	3,931,479	4/30/52	322	2,455.48
McE1 37½%	9,823 (32)	1,089,835	6/1/55	-	1,991.90
2-20	2,446 (32)	402,543	6/12/54	157 *	-
3-5	-o-	-o-	Cag. Failed		-

NEBU Well No.	October, 1969 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1969	Date Completed	1969 1968 * Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1969
3-5X	28,972 (29)	3,361,291	9/24/54	547	86.63
4-21	14,090 (32)	1,520,158	2/10/54	615	-
5-13	-o-	-o-	Csg. Failed		-
5-13X	7,492 (30)	3,581,978	8/14/53	172	2,976.56
6-29	9,087 (20)	1,683,116	12/4/53	404 *	2,191.40
7-21	19,242 (32)	3,226,602	12/11/53	280	4,562.93
8-10	28,018 (32)	3,643,482	9/30/53	315	-
9-12	40,963 (24)	4,766,547	9/22/53	1,809	3,215.74
10-16	23,534 (32)	2,693,302	1/6/54	555	-
11-25	1,731 (24)	494,196	1/7/54	114 *	-
12-18	20,096 (24)	3,169,960	10/16/53	952	-
13-20	8,522 (32)	1,427,370	12/17/53	230	1,973.79
14-2	27,809 (29)	1,800,314	5/20/54	1,030	-
15-2	41,054 (29)	2,174,652	2/8/54	1,390	-
16-3	26,088 (32)	2,651,305	7/18/54	926	-
17-9	35,271 (29)	3,988,130	8/25/54	1,071	-
18-9	33,277 (32)	2,351,728	7/28/54	1,149	1,116.23
19-20	8,288 (32)	1,173,811	10/19/54	292	-
20-28	-o-	376,785	11/11/54	20 *	-
21-36	3,067 (32)	861,938	10/5/54	82	50.91
22-36	2,782 (32)	645,190	11/2/54	102	-
23-6	30,151 (19)	6,157,031	8/30/55	1,481	1,133.55
24-17	15,567 (28)	2,177,856	5/22/55	443	3,071.34
25-17	34,810 (32)	3,051,615	6/15/55	798	2,581.96
26-8	32,432 (26)	3,523,960	8/25/55	919	-
27-8	4,705 (32)	1,945,122	8/1/55	43	-
28-34	2,031 (32)	965,008	9/21/55	31	-
29-13	23,855 (24)	4,010,318	5/31/55	880	2,045.14
30-12	38,626 (24)	3,560,925	8/3/55	1,289	3,213.72
31-7	20,973 (19)	3,371,225	7/3/55	903	3,254.91
32-7	19,603 (32)	1,972,604	9/28/55	397	-
33-12	2,310 (32)	427,835	11/10/55	104 *	-
34-19	12,562 (30)	1,856,908	5/5/57	419	1,715.47
35-19	13,536 (32)	1,806,863	7/25/57	668	-
36-1	42,841 (24)	7,996,511	4/28/56	2,057	-
37-6	24,341 (24)	4,274,690	5/23/56	1,123	-
38-31	6,852 (24)	1,514,460	8/21/57	336	-
39-36	19,707 (24)	3,065,200	6/3/57	784	3,314.69
40-36	9,373 (24)	2,275,299	7/6/57	316	-
41-25	4,701 (23)	1,113,651	9/14/57	342	-
42-19	1,281 (24)	314,022	10/13/57	237	-
43-11	2,968 (32)	516,745	1/7/58	166 *	-
44-4	10,086 (32)	2,086,685	7/1/56	422	-
45-5	16,080 (32)	3,181,401	5/4/56	557	-
47-32	6,353 (32)	1,599,176	5/4/56	195	-
48-32	8,745 (32)	1,342,137	7/28/57	482	-
49-30	3,939 (32)	622,957	11/5/57	290 *	-
50-25	4,300 (24)	1,253,877	8/3/57	155	296.12
51-29	7,533 (32)	1,140,272	8/9/57	381	-
46-33	8,370 (32)	1,230,662	7/15/57	298	-

NEBU Well No.	October, 1969 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1969	Date Completed	1969 1968 * Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1969
52-15	4,986 (32)	768,432	5/21/57	256 *	-
53-28	2,582 (32)	576,491	8/23/57	80 *	-
54-33	7,890 (32)	1,306,691	6/18/57	456	-
55-22	3,047 (32)	441,916	9/26/58	47	-
56-34	3,314 (32)	468,111	11/17/58	87	-
57-21	1,757 (32)	218,905	9/18/59	24	-
58-13	2,251 (32)	434,019	11/3/59	93	-
59-24	2,127 (32)	266,885	7/2/60	119 *	-
60-7	2,381 (32)	298,825	6/1/61	51 *	-
61-19	2,058 (32)	261,240	6/19/61	107 *	-
62-30	1,384 (24)	269,892	7/8/61	127 *	-
TOTAL					
<u>MESAVERDE</u>	959,924	138,250,797			45,867.95
 <u>"Los Pinos"</u> <u>Dakota Zone</u>					
1-27	8,778 (32)	1,384,493	8/28/52	266 *	-
55-22	646 (32)	99,296	9/26/58	25	-
56-34	1,362 (32)	269,056	11/17/58	67	-
57-21	1,924 (32)	261,279	11/3/59	62	-
58-13	6,893 (32)	591,721	9/18/59	170	-
TOTAL					
<u>DAKOTA</u>	19,603	2,605,845			-
GRAND					
<u>TOTAL</u>	979,527	140,856,642			45,867.95

The following note pertains to the table on this and preceding pages:

Note #1 - October, 1969, information indicates that the gas carries from zero GPM to .367 gallons per thousand. The mathematical average gasoline content for 67 Mesaverde wells was 175 GPM during October, 1969.

III. Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV. Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V. Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the calendar year 1970.

VI. Effective Date.

The effective date of the Plan of Development shall be January 1, 1970.

VII. Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 29th day of December, 1969.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

By W. N. Little
W. N. Little, Manager of Operations

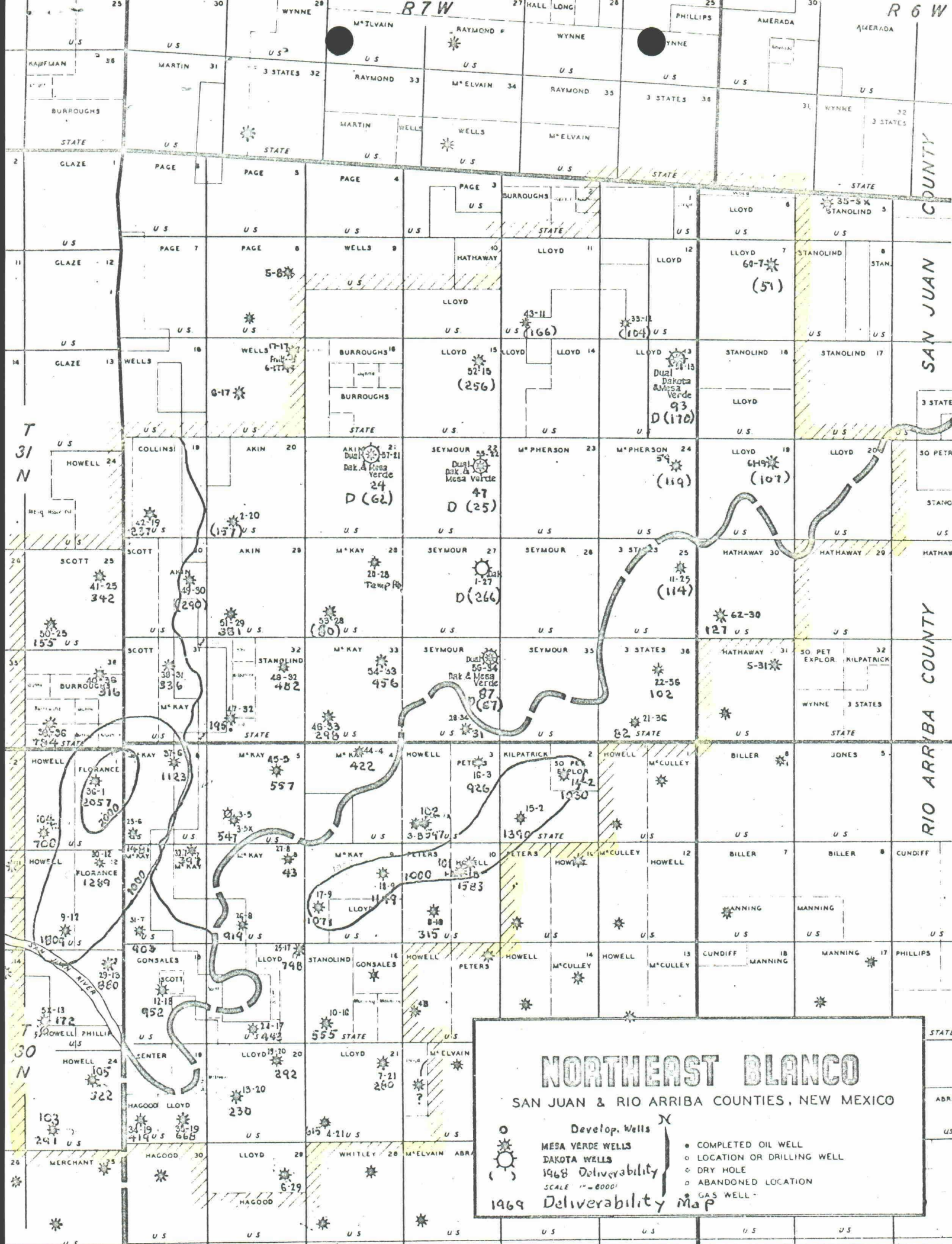
WNL:cb

Attachment - Plat

Four copies to each addressee.

Approved January 26 1970
A. P. Carter
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 23, 1969

Blackwood and Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1969 Plan of Development
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the calendar year 1969 for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the application are returned herewith.

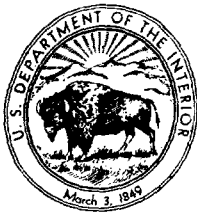
Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

C
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Draver 1947
Roswell, New Mexico 86201

IN REPLY REFER TO:

January 22, 1969

Blackwood & Nichols Company
2015 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. E. Little

Gentlemen:

Your 1969 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. 900) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:
Washington (w/cy of plan)
Durango (w/cy of plan)
NMOCC, Santa Fe (ltr. only) ✓
Com. of Pub. Lands, Santa Fe (ltr. only)

MAIN OF ...
JAN 13 AM 8 18

January 7, 1969

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Re: Northeast Blanco Unit
1969 Plan of Development
San Juan and Rio Arriba
Counties, New Mexico

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has as of this date approved your 1969 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico. This plan calls for the drilling of no additional wells to be drilled during 1969.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed herewith.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

AJA/TB/ML/s
encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico

C
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P
Y

December 27, 1968

10/10/1941
10/10/1941
10/10/1941

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1969.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

NEBU Well No.	October, 1968 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1968	Date Completed	1968 Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1968
Howell 1-B	-o-	560,802	Csg. Failed		-o-
101	38,979 (31)	3,560,088	10/6/57	1,128	-o-
102	12,722 (32)	2,285,137	10/3/51	487	-o-
103	12,824 (32)	2,283,700	10/5/51	357	-o-
104	23,147 (21)	3,938,781	10/5/51	901	4,235.19
105	11,095 (30)	3,784,483	4/30/52	999	2,455.48
McE1 37½%	5,337 (19)	990,842	6/1/55	-	1,769.37
2-20	1,412 (32)	381,657	6/12/54	157	-o-
3-5	-o-	-o-	Csg. Failed		-o-

NEBU Well No.	October, 1968 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1968	Date Completed	1968 Deliverability	Cum Bbls Drip Gasoline Nov. 1, 1968
3-5X	16,503 (12)	3,076,893	9/24/54	783	86.63
4-21	16,175 (32)	1,357,378	2/10/54	609	-o-
5-13	-o-	-o-	Csg. Failed		-o-
5-13X	11,039 (32)	3,491,951	8/14/53	427	2,900.61
6-29	7,539 (24)	1,581,610	12/4/53	404	2,031.51
7-21	1,900 (2)	3,044,710	12/11/53	586	4,185.28
8-10	20,464 (32)	3,417,789	9/30/53	878	-o-
9-12	36,699 (16)	4,146,238	9/22/53	2,449	2,805.45
10-16	15,522 (19)	2,434,534	1/6/54	796	-o-
11-25	2,603 (32)	466,324	1/7/54	114	-o-
12-18	23,359 (24)	2,874,280	10/16/53	1,032	-o-
13-20	8,128 (32)	1,341,899	12/17/53	264	1,973.79
14-2	32,913 (26)	1,505,778	5/20/54	862	-o-
15-2	44,558 (26)	1,727,456	2/8/54	1,416	-o-
16-3	24,947 (32)	2,392,274	7/18/54	1,044	-o-
17-9	28,657 (20)	3,649,575	8/25/54	978	-o-
18-9	32,993 (26)	2,042,285	7/28/54	1,001	961.66
19-20	7,634 (32)	1,090,117	10/19/54	188	-o-
20-28	26 (21)	375,631	11/11/54	20	-o-
21-36	4,383 (32)	821,227	10/5/54	125	50.91
22-36	2,810 (32)	612,375	11/2/54	64	-o-
23-6	36,562 (21)	5,698,021	8/30/55	1,716	909.85
24-17	6,611 (7)	2,030,329	5/22/55	276	2,797.09
25-17	30,480 (26)	2,784,031	6/15/55	786	2,298.00
26-8	37,405 (31)	3,228,724	8/25/55	933	-o-
27-8	6,460 (32)	1,878,475	8/1/55	182	-o-
28-34	1,601 (32)	938,724	9/21/55	72	-o-
29-13	26,008 (21)	3,670,976	5/31/55	1,100	1,916.28
30-12	18,412 (24)	3,446,811	8/3/55	983	3,137.85
31-7	26,870 (24)	3,095,794	7/3/55	952	3,075.91
32-7	7,017 (14)	1,788,512	9/28/55	455	-o-
33-12	1,550 (32)	404,220	11/10/55	104	-o-
34-19	15,110 (32)	1,710,774	5/5/57	414	1,715.47
35-19	13,347 (32)	1,669,161	7/25/57	578	-o-
36-1	46,761 (21)	7,378,644	4/28/56	2,287	-o-
37-6	29,934 (21)	3,938,559	5/23/56	1,199	-o-
38-31	10,326 (32)	1,400,882	8/21/57	400	-o-
39-36	32,119 (21)	2,735,345	6/3/57	1,221	2,760.53
40-36	9,337 (32)	2,152,364	7/6/57	251	-o-
41-25	6,081 (32)	1,041,641	9/14/57	404	-o-
42-19	1,350 (32)	296,290	10/13/57	173	-o-
43-11	2,468 (32)	482,043	1/7/58	166	-o-
44-4	10,394 (32)	1,975,148	7/1/56	349	-o-
45-5	15,000 (14)	2,968,529	5/4/56	813	-o-
46-33	8,098 (32)	1,137,170	7/15/57	316	-o-
47-32	5,977 (32)	1,526,185	5/4/56	183	-o-
48-32	6,658 (32)	1,257,122	7/28/57	511	-o-
49-30	2,706 (32)	585,043	11/5/57	290	-o-
50-25	8,162 (32)	1,174,716	8/3/57	381	221.83
51-29	5,095 (31)	1,072,238	8/9/57	709	-o-

NEBY Well No.	October, 1968 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1968	Date Completed	1968 Deliverability	Cum Bbls Drip Gasoline Nov. 1, 1968
52-15	3,630 (32)	715,901	5/21/57	256	-o-
53-28	2,636 (32)	547,826	8/23/57	80	-o-
54-33	5,961 (32)	1,230,574	6/18/57	675	-o-
55-22	2,604 (31)	410,431	9/26/58	149	-o-
56-34	2,608 (32)	436,501	11/17/58	191	-o-
57-21	1,260 (32)	203,029	9/18/59	174	-o-
58-13	2,438 (32)	406,853	11/3/59	218	-o-
59-24	1,600 (32)	245,147	7/2/60	119	-o-
60-7	1,150 (23)	272,477	6/1/61	51	-o-
61-19	2,340 (32)	237,484	6/19/61	107	-o-
62-30	1,524 (32)	244,768	7/8/61	127	-o-
TOTAL					
MESAVERDE	900,018	1,27,653,276			42,288.69
Los Pinos					
Dakota Zone					
1-27	9,661 (32)	1,277,246	8/28/52	266	-o-
55-22	1,606 (31)	92,860	9/26/58	24	-o-
56-34	1,786 (32)	252,424	11/17/58	85	-o-
57-21	1,989 (32)	241,324	11/3/59	54	-o-
58-13	6,027 (32)	521,608	9/18/59	218	-o-
TOTAL					
DAKOTA	20,069	2,385,462			-o-
GRAND					
TOTAL	920,087	130,038,738			42,288.69

The following notes pertain to the table on this and preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .577 to .680.

Note #2 - October, 1968, information indicates that the gas carries from zero GPM to .343 gallons per thousand. The mathematical average gasoline content for 67 Mesaverde wells was 164 GPM during October, 1968.

III. Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV. Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate

IV. Offset Obligations - continued.

measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V. Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the calendar year 1969.

VI. Effective Date.

The effective date of the Plan of Development shall be January 1, 1969.

VII. Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 27th day of December, 1968.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

By W. N. Little
W. N. Little, Manager of Operations

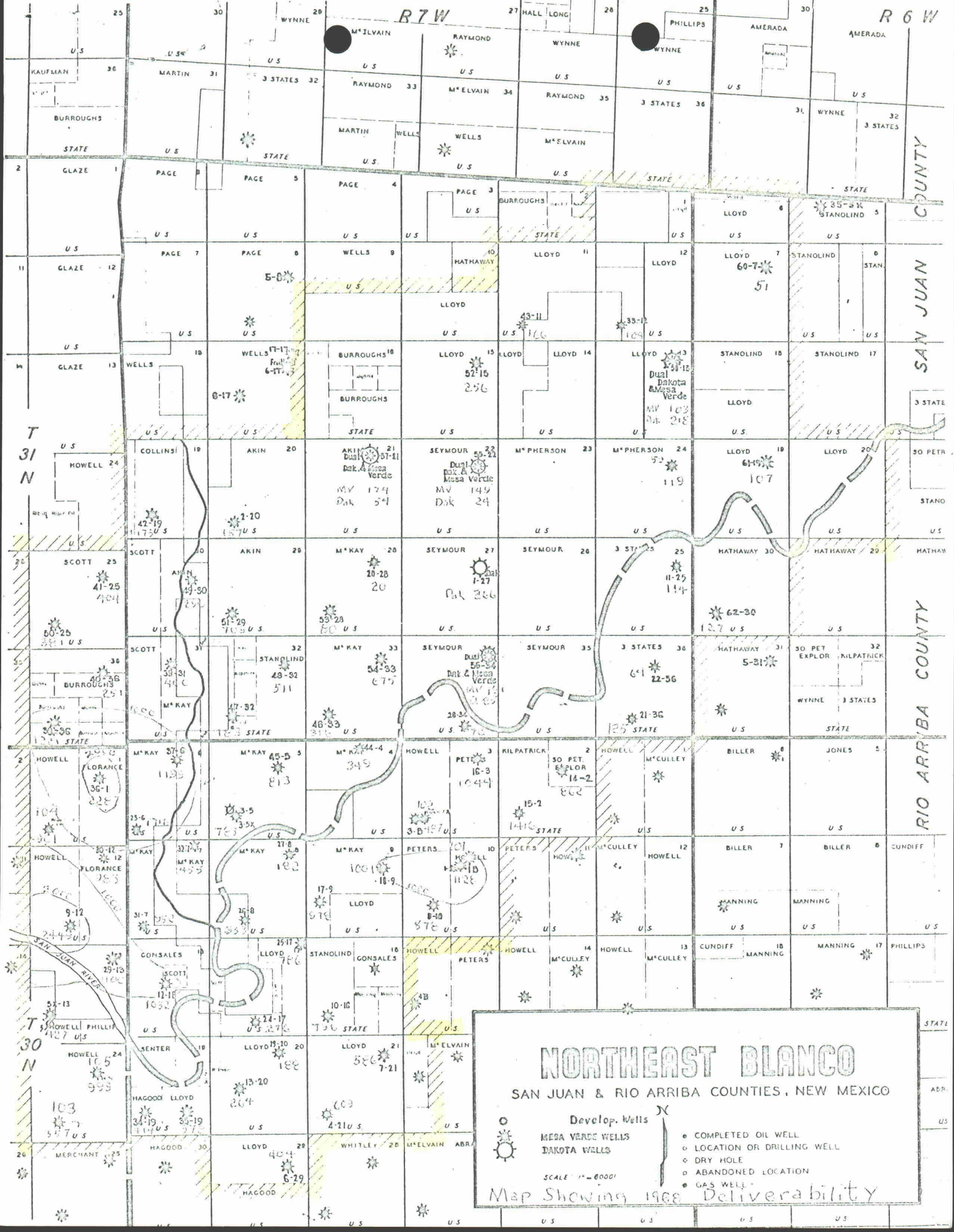
WNL:cb

Attachment - Plat

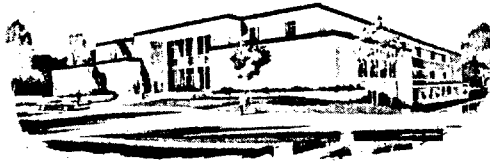
Four copies to each addressee.

Approved... January 23, 1969
A. H. Carter, Jr.
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION



State of New Mexico



Commissioner of Public Lands



GUYTON B. HAYS
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

January 8, 1968

MAIN OFFICE 000

'68 JAN 9 AM 8 4

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma

Re: Northeast Blanco Unit
San Juan and Rio Arriba
Counties

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has this date approved your 1968 Plan of Development, which proposes the drilling of no additional wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Two approved copies of the plan are enclosed together with Official Receipt No. I 25761 in the amount of Four (\$4.00) Dollars which covers the filing fee.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS
BY:
Eddie Lopez, Supervisor
Unit Division

GBH/TB/EL/s
encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1837
Roswell, New Mexico 88201

IN REPLY REFER TO:

318

January 11, 1968

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Gentlemen:

Your 1968 plan of development for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil & Gas Supervisor

cc:
Washington (w/cy of plan)
Farmington (w/cy of plan)
NMOCC - Santa Fe (ltr. only)
Com. of Pub. Lands - Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

318

January 4, 1968

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1968 Plan of Development
Northeast Blanco Unit
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1968 Plan of Development dated December 5, 1967, for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og
Enclosures

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

January 4, 1968

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

ATTENTION: Mr. W.N. Little

RE: 1968 Plan of Development

Northeast Blanco Unit
San Juan and Rio Arriba
Counties, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1968 Plan of Development dated December 5, 1967

for the Northeast Blanco Unit San Juan and Rio Arriba
Counties, New Mexico, subject to like approval by the United States Geological Survey
and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are
returned herewith.

Very truly yours,

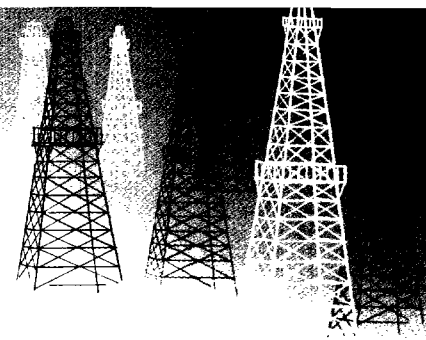
A. L. PORTER, Jr.,
Secretary-Director

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102



December 5, 1967

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1968, MESAVERDE ZONE,
NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARriba
COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

MAIL OFFICE OCC

60 JAN 2 AM 8 10

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1968.

I. Description of Participating Area in Mesaverde Zone.

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II. Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone.

NEBU Well No.	October, 1967 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1967	Date Completed	1967 Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1967
Howell 1-B	-o-	560,802	Csg. Failed		-o-
101	42,855 (25)	3,171,962	10/6/57	1,424	-o-
102	16,484 (32)	2,109,038	10/3/51	898	-o-
103	10,465 (32)	2,159,745	10/5/51	494	-o-
104	24,015 (26)	3,726,071	10/5/51	649	4,085.39
105	20,762 (30)	3,575,556	4/30/52	1,483	2,079.23
McE1 37½%	10,736 (32)	892,700	6/1/55	-	1,543.25
2-20	1,726 (32)	362,104	6/12/54	114	-o-
3-5	-o-	-o-	Csg. Failed	-	-o-
3-5X	34,888 (29)	2,898,060	9/24/54	731	86.63
4-21	18,946 (32)	1,171,922	2/10/54	1,125	-o-

PLAN OF DEVELOPMENT

Page 2

NEBU Well No.	October, 1967 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1967	Date Completed	1967 Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1967
5-13	-o-	-o-	Csg. Failed		-o-
5-13X	14,540 (21)	3,298,435	8/14/53	706	2,751.01
6-29	10,259 (32)	1,469,200	12/4/53	355	1,881.73
7-21	23,555 (24)	2,861,960	12/11/53	586	3,807.85
8-10	23,784 (32)	3,178,450	9/30/53	1,058	-o-
9-12	26,121 (32)	3,850,405	9/22/53	713	2,590.81
10-16	30,971 (32)	2,173,165	1/6/54	950	-o-
11-25	2,042 (32)	438,810	1/7/54	137	-o-
12-18	34,402 (32)	2,573,568	10/16/53	1,052	-o-
13-20	7,560 (32)	1,256,710	12/17/53	283	1,973.79
14-2	31,189 (25)	1,253,766	5/20/54	905	-o-
15-2	SI (0)	1,328,814	2/8/54	1,461	-o-
16-3	30,350 (24)	2,134,320	7/18/54	1,040	-o-
17-9	36,665 (25)	3,342,820	8/25/54	1,166	-o-
18-9	SI (0)	1,695,308	7/28/54	1,138	774.84
19-20	6,964 (32)	1,011,078	10/19/54	280	-o-
20-28	425 (32)	371,551	11/11/54	104	-o-
21-36	3,542 (32)	780,051	10/5/54	103	50.91
22-36	2,757 (32)	581,092	11/2/54	122	-o-
23-6	55,007 (32)	5,254,304	8/30/55	1,894	534.57
24-17	13,899 (19)	1,925,528	5/22/55	324	2,647.80
25-17	29,543 (24)	2,548,163	6/15/55	849	2,033.96
26-8	10,860 (7)	2,920,320	8/25/55	1,076	-o-
27-8	8,729 (32)	1,793,433	8/1/55	294	-o-
28-34	5,823 (32)	909,815	9/21/55	155	-o-
29-13	33,838 (26)	3,390,654	5/31/55	1,062	1,691.39
30-12	33,629 (27)	3,207,410	8/3/55	971	2,889.72
31-7	31,396 (26)	2,821,823	7/3/55	979	2,776.06
32-7	16,054 (30)	1,652,381	9/28/55	421	-o-
33-12	1,862 (32)	383,865	11/10/55	139	-o-
34-19	7,217 (32)	1,565,859	5/5/57	503	1,715.47
35-19	12,154 (32)	1,525,324	7/25/57	531	-o-
36-1	68,622 (32)	6,829,095	4/28/56	1,908	-o-
37-6	37,189 (32)	3,613,573	5/23/56	948	-o-
38-31	12,317 (32)	1,277,301	8/21/57	486	-o-
39-36	SI (0)	2,463,925	6/3/57	962	2,586.93
40-36	18,945 (25)	2,052,527	7/6/57	706	-o-
41-25	6,466 (32)	963,990	9/14/57	370	-o-
42-19	1,376 (32)	277,772	10/13/57	109	-o-
43-11	3,073 (32)	447,317	1/7/58	255	-o-
44-4	10,997 (32)	1,858,048	7/1/56	431	-o-
45-5	27,889 (30)	2,811,882	5/4/56	522	-o-
46-33	8,172 (32)	1,044,952	7/15/57	362	-o-
47-32	5,900 (32)	1,454,248	5/4/56	238	-o-
48-32	7,630 (32)	1,171,933	7/28/57	435	-o-
49-30	3,091 (32)	549,269	11/5/57	165	-o-
50-25	7,572 (32)	1,087,081	8/3/51	170	74.51
51-29	5,659 (32)	1,004,489	8/9/57	665	-o-
52-15	4,313 (32)	673,713	5/21/57	217	-o-
53-28	2,623 (32)	517,768	8/23/57	97	-o-

NEBU Well No.	October, 1967 MCF Production Days Prod. ()	Cumulative MCF Production Nov. 1, 1967	Date Completed	1967 Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1967
54-33	6,762 (32)	1,150,316	6/18/57	524	-o-
55-22	2,568 (32)	381,240	9/26/58	150	-o-
56-34	2,586 (32)	406,207	11/17/58	154	-o-
57-21	1,207 (30)	188,178	9/18/59	176	-o-
58-13	2,089 (32)	381,676	11/3/59	83	-o-
59-24	1,831 (32)	224,951	7/2/60	98	-o-
60-7	2,642 (32)	245,400	6/1/61	122	-o-
61-19	1,655 (32)	212,380	6/19/61	59	-o-
62-30	1,947 (32)	222,491	7/8/61	77	-o-
<hr/>					
Total Mesaverde	981,135	117,638,064			38,575.85
<hr/>					
Los Pinos Dakota Zone					
1-27	10,156 (32)	1,170,452	8/28/52	291	-o-
55-22	605 (32)	86,609	9/26/58	30	-o-
56-34	1,430 (32)	234,962	11/17/58	65	-o-
57-21	2,035 (32)	220,189	11/3/59	73	-o-
58-13	6,151 (32)	452,430	9/18/59	110	-o-
<hr/>					
Total Dakota	20,377	2,164,642			
<hr/>					
GRAND TOTAL	1,001,512	119,802,706			38,575.85
<hr/> <hr/>					

The following notes pertain to the table on this and preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .577 to .680.

Note #2 - October, 1967 information indicates that the gas carries from zero GPM to .313 gallons per thousand. The mathematical average gasoline content for 55 wells showing liquids was .201 GPM during October, 1967.

III. Participating Area.

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV. Offset Obligations.

Unit Operator, on behalf of the owners of working, royalty and/or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco

IV. Offset Obligations (continued).

Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V. Development.

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the calendar year 1968.

VI. Effective Date.

The effective date of the Plan of Development shall be January 1, 1968.

VII. Modification.

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 5th day of December, 1967.

BLACKWOOD & NICHOLS COMPANY, UNIT OPERATOR

By W N Little
W. N. Little, Manager of Operations

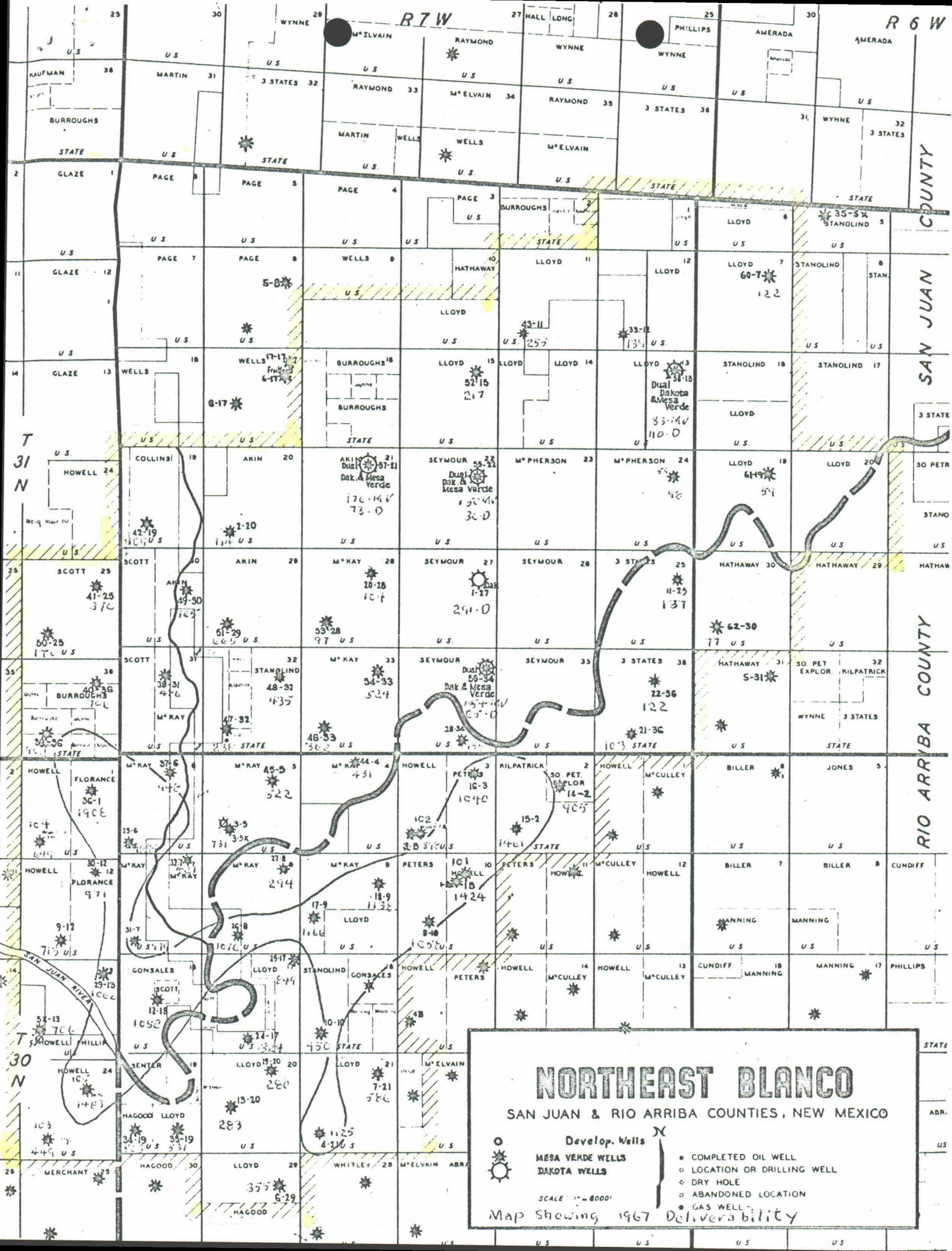
WNL:cb

Attachment - Plat

Four copies to each addressee.

Approved January 4, 1968
A. P. Carter
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

318

February 9, 1967

C

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

O

Attention: Mr. W. N. Little

P

Re: 1967 Plan of Development
Northeast Blanco Unit, San
Juan and Rio Arriba Counties,
New Mexico

Gentlemen:

Y

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the calender year 1967, Mesaverde Zone, for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

February 6, 1967

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma

Re: Northeast Blanco Unit
San Juan and Rio Arriba
Counties.

ATTENTION: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has this date approved your 1967 Plan of Development, which proposes the drilling of no additional wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed together with Official Receipt No. I 5165 in the amount of Four (\$4.00) Dollars which covers the filing fee.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS
BY:

Ted Bilberry, Director
Oil and Gas Department

GBH/MMR/s
encl. 1.

cc: United States Geological Survey
Roswell, New Mexico

New Mexico Oil Conservation Commission
Santa Fe, New Mexico



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

January 31, 1967

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Gentlemen:

Your 1967 plan of development dated December 20, 1966, for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

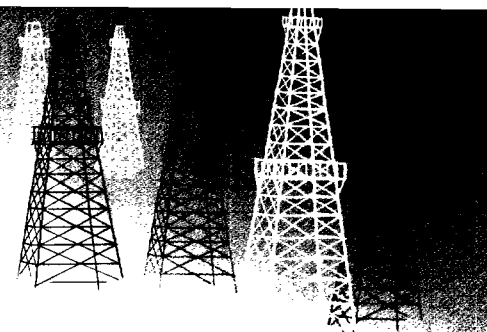
(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:
Washington (w/cy of plan)
Farmington (w/cy of plan)
NMOCC - Santa Fe (ltr. only)
Com. of Pub. Lands - Santa Fe (ltr. only)

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102



December 20, 1966

PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1967, MESAVERDE ZONE, NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARriba COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar year 1967.

I. Description of Participating Area in Mesaverde Zone

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II. Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone

NEBU Well No.	October, 1966 MCF Production () Days Prod.	Cumulative MCF Production Nov. 1, 1966	Date Completed	1966 Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1966
Howell 1-B	-o-	560,802	Csg. Failed		
101	34,864 (25)	2,875,593	10/6/57	1,467	- o -
102	19,658 (25)	1,945,252	10/3/51	982	
103	16,196 (32)	2,025,222	10/5/51	409	
104	21,709 (32)	3,548,957	10/5/51	795	3,920
105	26,096 (30)	3,317,975	4/30/52	1,645	1,747
McEL 37½%	1,423 (3)	816,124	6/1/55	-	1,390
2-20	1,768 (32)	342,622	6/12/54	151	- o -
3-5	-o-	-o-	Csg. Failed	-	- o -
3-5X	9,475 (6)	2,686,007	9/24/54	824	87
4-21	3,553 (2)	955,421	2/10/54	201	- o -

NEBU Well No.	October, 1966 MCF Production () Days Prod.	Cumulative MCF Production Nov. 1, 1966	Date Completed	1966 Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1966
5-13	-o-	-o-	Csg. Failed	-	- o -
5-13X	3,105 (2)	3,143,538	8/14/53	744	2,527
6-29	10,916 (32)	1,350,107	12/ 4/53	604	1,731
7-21	3,942 (4)	2,695,420	12/11/53	758	3,431
8-10	25,076 (28)	2,928,873	9/30/53	1,000	- o -
9-12	8,277 (8)	3,606,372	9/22/53	867	2,367
10-16	4,958 (3)	1,997,386	1/6/54	851	- o -
11-25	1,651 (22)	414,280	1/7/54	97	- o -
12-18	11,138 (8)	2,293,955	10/16/53	1,199	- o -
13-20	5,948 (17)	1,165,650	12/17/53	413	1,974
14-2	41,455 (32)	1,074,404	5/20/54	341	- o -
15-2	60,982 (32)	1,069,775	2/8/54	242	- o -
16-3	19,341 (15)	1,882,499	7/18/54	871	- o -
17-9	22,662 (13)	2,958,967	8/25/54	1,160	- o -
18-9	43,473 (32)	1,567,981	7/28/54	162	699
19-20	7,350 (32)	921,552	10/19/54	388	- o -
20-28	1,384 (32)	358,267	11/11/54	301	- o -
21-36	3,778 (32)	738,388	10/5/54	110	51
22-36	3,025 (32)	548,731	11/2/54	142	- o -
23-6	16,711 (8)	4,903,949	8/30/55	1,917	460
24-17	13,125 (19)	1,826,372	5/22/55	325	2,498
25-17	30,725 (27)	2,362,956	6/15/55	850	1,960
26-8	32,520 (25)	2,726,492	8/25/55	980	- o -
27-8	6,267 (7)	1,671,582	8/1/55	252	- o -
28-34	6,854 (32)	844,747	9/21/55	112	- o -
29-13	24,985 (21)	3,164,228	5/31/55	1,096	1,542
30-12	1,121 (1)	2,974,577	8/3/55	1,113	2,663
31-7	10,183 (8)	2,605,494	7/3/55	1,166	2,516
32-7	5,823 (7)	1,521,309	9/28/55	569	- o -
33-12	1,774 (31)	362,150	11/10/55	153	- o -
34-19	13,974 (32)	1,454,512	5/5/57	518	1,715
35-12	14,252 (32)	1,377,852	7/25/57	547	- o -
36-1	45,936 (21)	6,321,996	4/28/56	2,874	- o -
37-6	25,855 (21)	3,314,640	5/23/56	1,627	- o -
38-31	969 (1)	1,167,547	8/21/57	469	- o -
39-36	-o-	2,227,077	6/3/57	1,147	2,304
40-36	14,747 (24)	1,881,117	7/6/57	479	- o -
41-25	5,272 (23)	884,791	9/14/57	448	- o -
42-19	1,314 (24)	259,539	10/13/57	189	- o -
43-11	3,251 (31)	410,403	1/7/58	228	- o -
44-4	14,751 (32)	1,739,108	7/1/56	281	- o -
45-5	20,285 (15)	2,635,800	5/4/56	756	- o -
46-33	5,547 (14)	949,742	7/15/57	296	- o -
47-32	5,689 (18)	1,369,207	5/4/56	314	- o -
48-32	8,648 (32)	1,082,260	7/28/57	496	- o -
49-30	3,489 (32)	510,988	11/5/57	283	- o -
50-25	5,687 (23)	998,158	8/3/51	321	- o -
51-29	6,461 (32)	935,914	8/9/57	581	- o -
52-15	4,656 (32)	620,093	5/21/57	250	- o -
53-28	2,767 (32)	486,634	8/23/57	100	- o -
54-33	7,736 (32)	1,068,565	6/18/57	422	- o -
55-22	2,745 (32)	349,616	9/26/58	138	- o -

PLAN OF DEVELOPMENT

Page 3

NEBU Well No.	October, 1966 MCF Production () Days Prod.	Cumulative MCF Production Nov. 1, 1966	Date Completed	1966 Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1966
56-34	2,942 (31)	373,886	11/17/58	246	- o -
57-21	1,418 (32)	172,826	9/18/59	218	- o -
58-13	2,290 (32)	354,417	11/3/59	114	- o -
59-24	2,077 (32)	202,518	7/2/60	118	- o -
60-7	3,386 (32)	212,455	6/1/61	117	- o -
61-19	3,016 (32)	188,468	6/19/61	103	- o -
62-30	1,508 (22)	198,480	7/8/61	92	- o -
<hr/>					
Total <u>Mesaverde</u>	793,959	108,502,585			35,582
<hr/>					
Los Pinos <u>Dakota Zone</u>					
1-27	3,509 (17)	1,051,278	8/28/52	310	- o -
55-22	699 (32)	80,813	9/26/58	21	- o -
56-34	1,910 (32)	217,272	11/17/58	61	- o -
57-21	2,088 (32)	197,394	11/3/59	62	- o -
58-13	6,124 (30)	397,896	9/18/59	261	- o -
<hr/>					
Total Dakota	19,330	1,939,653			- o -
<hr/>					
GRAND TOTAL	813,289	110,442,238			35,582 Bbls
<hr/>					

The following notes pertain to the table on this and preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .580 to .670.

Note #2 October, 1966 information indicates that the gas carries from zero GPM to .358 gallons per thousand. The mathematical average gasoline content for 55 wells showing liquids was .202 GPM during October, 1966.

III. Participating Area

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV. Offset Obligations

Unit Operator, on behalf of the owners of working, royalty, or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by

IV. Offset Obligations (continued)

wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V. Development

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years.

Therefore, on behalf of all participants, Unit Operator requests your permission to not drill any development wells during the calendar year 1967.

VI. Effective Date

The Plan of Development shall be effective January 1, 1967.

VII. Modification

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the Commissioner of Public Lands of the State of New Mexico, and the New Mexico Conservation Commission.

Submitted this 20th day of December, 1966.

BLACKWOOD & NICHOLS COMPANY
Unit Operator

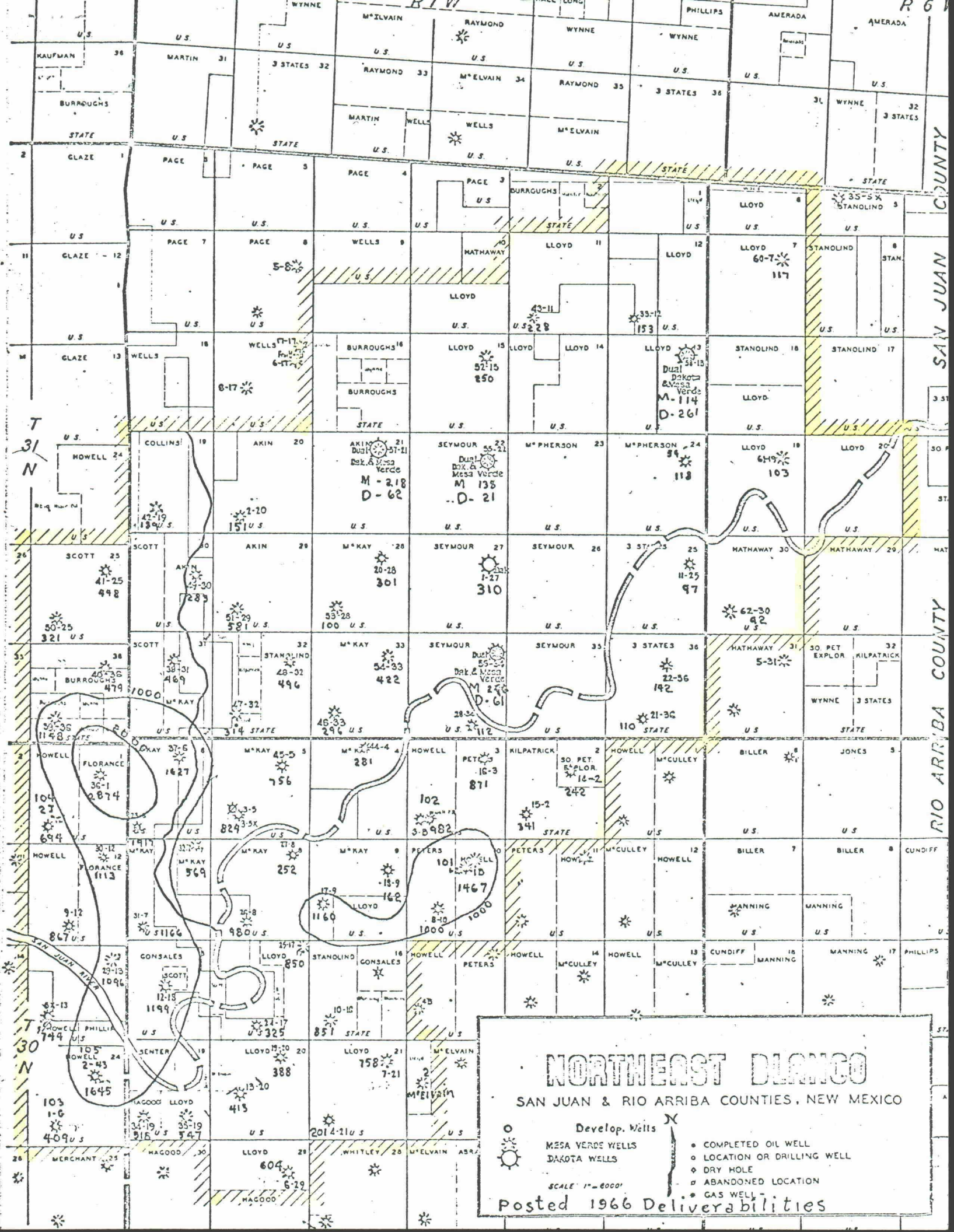
By W. N. Little
W. N. Little, Manager of Operations

WNL:cb

Attachment - Plat

Four copies to each addressee

Approved 2-9 1967
A. L. Butler
Secretary-Director
NEW MEXICO OIL CONSERVATION COMMISSION



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

February 1, 1966

C
O
P
Y

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Re: 1966 Plan of Development,
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1966 Plan of Development, Mesaverde Zone, dated December 21, 1965, for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
U. S. Geological Survey - Roswell

Drawer 1857
Roswell, New Mexico 88201

MAIN OFFICE OCC
January 27, 1966

JAN 31 AM 8:01

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. N. Little

Gentlemen:

Your 1966 plan of development dated December 21, 1965, for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

(0)

JOHN A. ANDERSON
Regional Oil & Gas Supervisor

cc:

Washington (w/cy of plan)

Farmington (w/cy of plan)

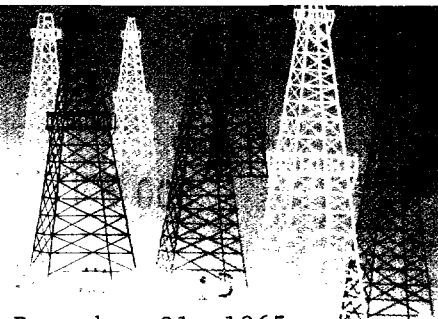
N.M.O.C.C. - Santa Fe (ltr. only)✓

Com. of Pub. Lands - Santa Fe (ltr. only)

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102...

December 21 1965



PLAN OF DEVELOPMENT FOR THE CALENDAR YEAR 1966, MESAVERDE ZONE, NORTHEAST BLANCO UNIT, 1 - SEC. 929, SAN JUAN AND RIO ARRIBA COUNTIES, NEW MEXICO

TO: The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Gentlemen:

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar Year 1966.

I Description of Participating Area in Mesaverde Zone

A plat is attached to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone and "Los Pinos" Dakota Zone

NEBU Well No.	October, 1965 MCF Production () Days Prod.	Cumulative MCF Production Nov. 1, 1965	Date Completed	1965 MCF Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1965
FF 2-43	22,760 (9)	2,989,976	4/30/52	1,561	1,398
Howell 1-B	- o -	560,802	Csg. Failed	-	- o -
Howell 1-BX	55,195 (32)	2,468,846	10/6/57	1,775	- o -
Howell 2-B	28,458 (30)	1,754,768	10/3/51	735	- o -
Howell 1-G	9,696 (7)	1,846,454	10/5/51	1,107	- o -
Howell 2-J	27,826 (24)	3,343,221	10/5/51	874	3,718
2-20	1,994 (32)	322,527	6/12/54	175	- o -
3-5	- o -	- o -	Csg. Failed	-	- o -
3-5X	27,442 (19)	2,430,862	9/24/54	1,010	87
4-21	4,768 (19)	848,337	2/10/54	154	- o -
5-13	- o -	- o -	Csg. Failed	-	- o -
5-13X	4,787 (4)	2,929,379	8/14/53	801	2,528
6-29	7,236 (22)	1,225,253	12/4/53	979	1,581
7-21	21,936 (20)	2,483,008	12/11/53	841	2,938

NEBU Well No.	October, 1965 MCF Production () Days Prod.	Cumulative MCF Production Nov. 1, 1965	Date Completed	1965 MCF Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1965
8-10	21,488 (19)	2,640,258	9/30/53	Pending	- o -
9-12	22,331 (15)	3,328,372	9/22/53	1,333	2,240
10-16	24,921 (19)	1,784,224	1/6/54	754	- o -
11-25	2,338 (30)	388,744	1/7/54	246	- o -
12-18	37,402 (32)	2,029,647	10/16/53	1,286	- o -
13-20	8,644 (10)	1,072,536	12/17/53	327	1,905
14-2	7,921 (32)	908,291	5/20/54	432	- o -
15-2	7,658 (31)	841,799	2/8/54	446	- o -
16-3	37,299 (32)	1,604,785	7/18/54	1,295	- o -
17-9	31,790 (18)	2,779,705	8/25/54	1,380	- o -
18-9	4,458 (32)	1,390,548	7/28/54	189	625
19-20	6,324 (20)	823,815	10/19/54	357	- o -
20-28	1,400 (32)	341,235	11/11/54	149	- o -
21-36	4,631 (32)	692,290	10/5/54	546	51
22-36	3,470 (31)	515,330	11/2/54	607	- o -
23-6	30,252 (14)	4,403,547	8/30/55	2,125	218
24-17	14,122 (20)	1,679,190	5/22/55	513	2,119
25-17	29,548 (21)	2,106,084	6/15/55	991	1,727
26-8	33,699 (21)	2,423,200	8/25/55	1,229	- o -
27-8	13,700 (32)	1,550,383	8/1/55	635	- o -
28-34	6,276 (31)	776,813	9/21/55	164	- o -
29-13	31,384 (22)	2,808,348	5/31/55	1,355	1,200
30-12	20,133 (14)	2,661,237	8/3/55	1,293	2,430
31-7	43,995 (32)	2,319,182	7/3/55	1,225	2,177
32-7	18,001 (19)	1,347,278	9/28/55	587	- o -
33-12	2,045 (32)	340,513	11/10/55	113	- o -
34-19	14,516 (30)	1,302,421	5/5/57	1,426	1,716
35-19	14,047 (32)	1,226,185	7/25/57	873	- o -
36-1	60,702 (24)	5,656,536	4/28/56	2,834	- o -
37-6	36,635 (22)	2,949,812	5/23/56	1,503	- o -
38-31	18,498 (32)	1,057,247	8/21/57	322	- o -
39-36	25,072 (12)	1,940,652	6/3/57	1,109	2,087
40-36	19,803 (32)	1,663,649	7/6/57	879	- o -
41-25	7,248 (32)	803,443	9/14/57	455	- o -
42-19	1,044 (30)	244,925	10/13/57	None	- o -
43-11	3,316 (30)	372,286	1/7/58	164	- o -
44-4	13,656 (20)	1,612,509	7/1/56	598	- o -
45-5	24,999 (24)	2,422,259	5/4/56	756	- o -
46-33	10,008 (24)	858,345	7/15/57	293	- o -
47-32	9,770 (24)	1,274,647	5/4/56	240	- o -
48-32	9,664 (32)	983,090	7/28/57	330	- o -
49-30	3,493 (30)	474,099	11/5/57	208	- o -
50-25	8,434 (25)	905,613	8/3/51	252	- o -
51-29	6,576 (30)	863,724	8/9/57	447	- o -
52-15	4,179 (32)	571,561	5/21/57	190	- o -
53-28	2,915 (32)	454,488	8/23/57	96	- o -
54-33	7,219 (24)	975,992	6/18/57	372	- o -

NEBU Well No.	October, 1965 MCF Production () Days Prod.	Cumulative MCF Production Nov. 1, 1965	Date Completed	1965 MCF Deliverability	Cum. Bbls Drip Gasoline Nov. 1, 1965
55-22	3,109 (32)	317,274	9/26/58	170	- o -
56-34	3,357 (32)	341,029	11/17/58	254	- o -
57-21	1,494 (29)	156,806	9/18/59	151	- o -
58-13	2,863 (32)	323,436	11/3/59	141	- o -
59-24	2,287 (31)	178,127	7/2/60	122	- o -
60-7	2,370 (30)	176,375	6/1/61	67	- o -
61-19	2,632 (32)	161,728	6/19/61	81	- o -
62-30	2,352 (32)	173,167	7/8/61	187	- o -
McEl #2 (37½%)	7,244 (10)	710,468	6/1/55	-	1,228
<u>Total</u> <u>Mesaverde</u>	<u>1,006,830</u>	<u>97,912,680</u>			<u>31,973</u>
<u>Los Pinos</u> <u>Dakota Zone</u>					
1-27	10,236 (24)	931,248	8/28/52	359	- o -
55-22	727 (32)	72,960	9/26/58	27	- o -
56-34	1,645 (32)	202,242	11/17/58	57	- o -
57-21	2,215 (32)	176,802	11/3/59	45	- o -
58-13	5,631 (32)	333,609	9/18/59	198	- o -
<u>Total Dakota</u>	<u>20,454</u>	<u>1,716,861</u>			<u>- o -</u>
<u>GRAND TOTAL</u>	<u>1,027,284</u>	<u>99,629,541</u>			<u>31,973 Bbls</u>

The following notes pertain to the table on this and preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .580 to .670.

Note #2 - October, 1965 information indicates that the gas carries from 0 GPM to .358 gallons per thousand. The mathematical average gasoline content for 55 wells showing liquids was .202 GPM during October, 1965.

III Participating Area

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV Offset Obligations

Unit Operator, on behalf of the owners of working, royalty, or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands

IV Offset Obligations (continued)

not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V Development

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years. Unit Operator, therefore, on behalf of all participants, requests your permission to not drill any development wells during the calendar year 1966.

VI Effective Date

The Plan of Development shall be effective January 1, 1966.

VII Modification

This Plan of Development may be modified from time to time to meet changing conditions, subject to the approval of the Federal Oil and Gas Supervisor, the New Mexico Commissioner of Public Lands, and the New Mexico Conservation Commission.

Submitted this 21st day of December, 1965.

BLACKWOOD & NICHOLS COMPANY
Unit Operator

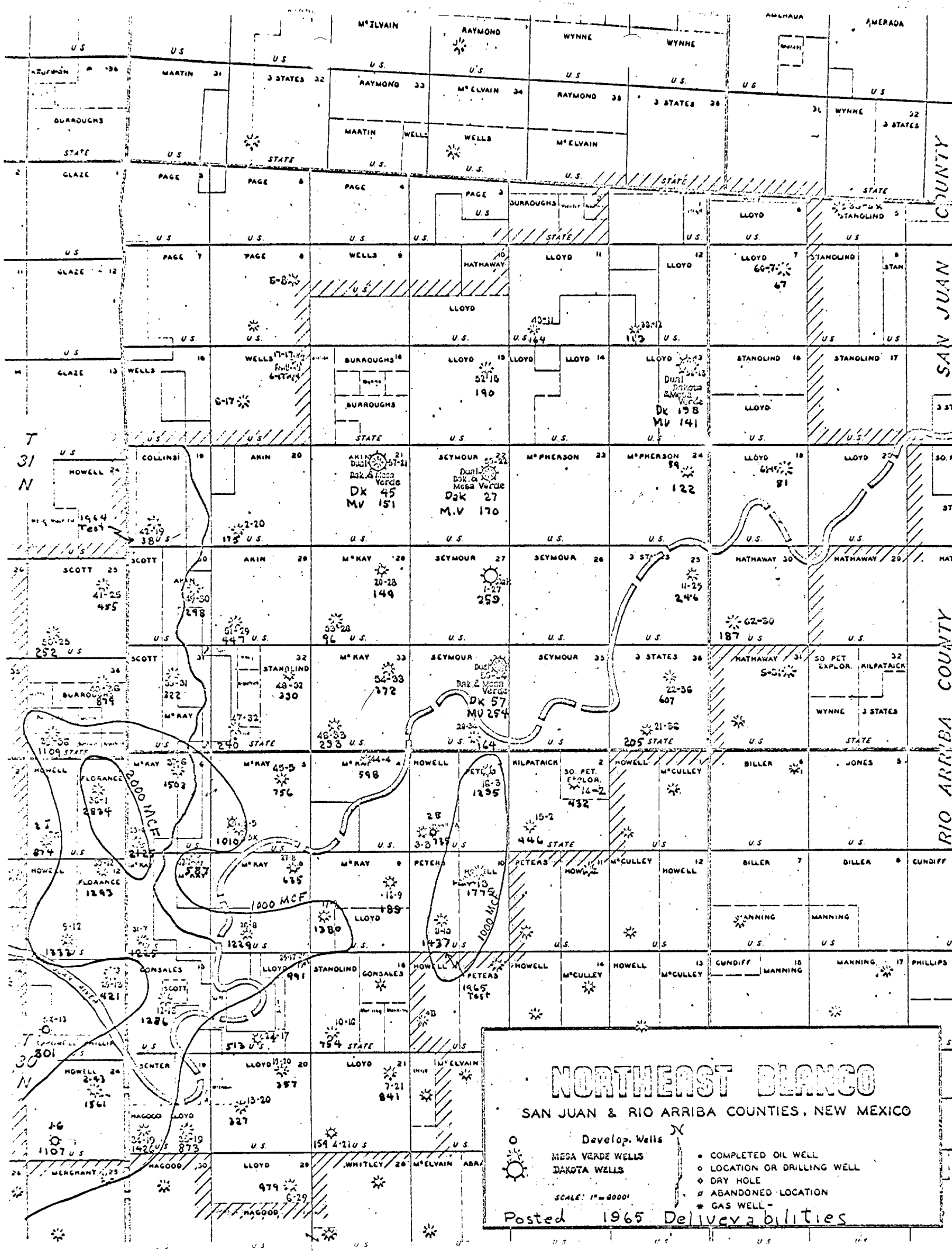
By W. N. Little
W. N. LITTLE, MANAGER OF OPERATIONS

WNL:CB

Attachment - Plat

Four copies to each addressee

Approved Feb 1 1966
A. L. Porter
Secretary-Director
NEW MEXICO OIL CONSERVATION COMMISSION



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

318

March 5, 1965

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. W. Little

Re: 1965 Plan of Development,
Northeast Blance Unit,
San Juan and Rio Arriba Counties,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the calendar year 1965, Mesaverte Zone, for the Northeast Blance Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

ILLEGIBLE

C
O
P
Y

March 1, 1965

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma

Re: Northeast Blanco Unit
San Juan County, New Mexico
1965 Plan of Development

Gentlemen:

The Commissioner of Public Lands approves as of March 1, 1965, your 1965 Plan of Development for the Northeast Blanco Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey.

We are returning two approved copies of the Plan.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
(Mr.) Ted Bilberry, Director
Oil and Gas Department

GBH/mmr/d
Enclosures

cc: United States Geological Survey
Oil Conservation Commission

ILLEGIBLE



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

February 24, 1965

Blackwood & Nichols Company
2013 First National Building
Oklahoma City, Oklahoma 73102

Attention: Mr. W. H. Little

Gentlemen:

Your 1965 plan of development dated December 15, 1964, for the Northeast Blaine unit area, San Juan and Rio Arriba Counties, New Mexico, proposing no additional wells, has been approved on this date subject to later approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:

Washington (w/cy of plan)

Farmington (w/cy of plan)

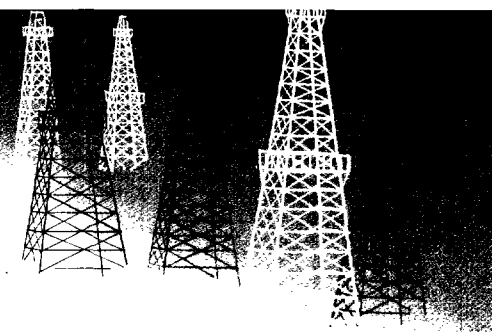
MSGCC, Santa Fe (ltr. only) ✓

Com. of Pub. Lands, Santa Fe (ltr. only)

ILLEGIBLE

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102



December 15, 1964

Plan of Development for the Calendar
Year 1965, Mesaverde Zone, Northeast
Blanco Unit, 1 - Sec. 929, San Juan
and Rio Arriba Counties, New Mexico

To: The Oil and Gas Supervisor
U. S. Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar Year 1965.

I Description of Participating Area in Mesaverde Zone

A plat is included to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone

Status of the wells in the Unit is as follows:

Northeast Blanco Well	October, 1964 MCF Production () Days Prod.	Cumulative MCF Prod. Nov. 1, 1964	Date Completed	Potential MCF Remarks	1964 MCF Deliver- ability	Cum. Bbls. Drip Gasline Nov. 1, 1964
FF 2-43	o (o)	2,627,337	4-30-52	17,452	1,885	944
Howell 1-B	-	560,802	Csg.Failed	Abandoned	-	-
Howell 1-BX	44,950 (25)	2,124,154	10- 6-57	20,334	1,870	o
Howell 2-B	13,542 (10)	1,581,127	10- 3-51	6,891	726	o
Howell 1-G	6,989 (5)	1,696,776	10- 5-51	10,698	633	o
Howell 2-J	25,820 (19)	3,169,348	2- 1-52	3,180	922	3,595
2-20	1,989 (20)	301,246	6-12-54	2,956	126	o
3-5	-	-	Csg.Failed	Abandoned	-	-
3-5X	31,575 (25)	2,261,991	9-24-54	4,116	965	87

Northeast Blanco Well	October, 1964		Cumulative MCF Prod. Nov. 1, 1964	Date Completed	Potential MCF Remarks	1964	
	MCF Production () Days Prod.					MCF Deliver- ability	Cum Bbls. Drip Gasoline Nov. 1, 1964
4-21	6,490	(18)	794,788	2-10-54	4,160	174	o
5-13	-		-	Csg. Failed	Abandoned	-	-
5-13X	6,009	(6)	2,782,770	8-14-53	8,492	722	2,127
6-29	20,408	(27)	1,093,269	12- 4-53	13,185	816	1,268
7-21	21,125	(19)	2,320,557	12-11-53	5,200	825	2,639
8-10	33,045	(26)	2,405,225	9-30-53	8,872	1,437	o
9-12	8,610	(6)	3,098,738	9-22-53	4,970	1,216	2,104
10-16	13,035	(7)	1,574,136	1- 6-54	7,967	967*	o
11-25	2,279	(26)	358,970	1- 7-54	2,425	179	o
12-18	21,075	(13)	1,713,523	10-16-53	5,450	1,374	o
13-20	o	(o)	982,994	12-17-53	4,500	212	1,705
14-2	5,886	(17)	845,967	5-20-54	2,415	252	o
15-2	4,593	(23)	786,545	2- 8-54	2,774	237	o
16-3	34,893	(24)	1,293,982	7-18-54	2,864	1,428	o
17-9	20,406	(10)	2,495,216	8-25-54	3,580	1,234	o
18-9	4,832	(26)	1,327,442	7-28-54	2,237	502	579
19-20	8,766	(7)	730,492	10-19-54	1,644	389	o
20-28	1,728	(21)	323,760	11-11-54	3,602	408	o
21-36	6,504	(28)	630,759	10- 5-54	4,344	357	51
22-36	3,602	(25)	475,962	11- 2-54	3,479	135	o
23-6	12,859	(5)	4,001,115	8-30-55	8,343	2,284	105
24-17	18,226	(26)	1,525,009	5-22-55	4,341	738	1,822
25-17	12,981	(8)	1,891,261	6-15-55	4,738	898*	1,519
26-8	27,910	(26)	2,187,485	8-25-55	4,820	1,228	o
27-8	9,976	(17)	1,423,299	8- 1-55	5,121	713	o
28-34	6,495	(17)	689,669	9-21-55	3,404	409	o
29-13	32,619	(21)	2,552,371	5-31-55	4,907	1,594	1,125
30-12	7,923	(5)	2,374,906	8- 3-55	5,600	1,352	2,064
31-7	4,675	(3)	2,103,327	7- 3-55	3,979	1,190	1,878
32-7	18,479	(23)	1,233,797	9-28-55	4,013	627	o
33-12	2,137	(22)	318,757	11-10-55	1,800	146	o
34-19	1,034	(1)	1,108,219	5- 5-57	22,550	1,300	1,533
35-19	19,048	(32)	1,053,588	7-25-57	21,487	934	o
36-1	79,894	(28)	5,031,090	4-28-56	22,663	2,949	o
37-6	44,508	(22)	2,617,564	5-23-56	20,570	1,739	o
38-31	1,419	(1)	953,084	8-21-57	11,821	467	o
39-36	9,097	(4)	1,693,955	6- 3-57	13,142	1,113	1,828
40-36	4,514	(2)	1,429,073	7- 6-57	11,250	1,388	o
41-25	9,427	(26)	709,834	9-14-57	8,393	415	o
42-19	1,074	(32)	231,593	10-13-57	7,002	38	o
43-11	3,600	(28)	334,071	1- 7-58	3,604	204	o
44-4	19,264	(32)	1,458,000	7- 1-56	13,672	620	o
45-5	19,945	(23)	2,201,221	5- 4-56	16,584	1,277	o
46-33	10,438	(23)	768,825	7-15-57	9,183	448	o
47-32	11,083	(23)	1,156,121	5- 4-56	10,676	597	o
48-32	11,900	(32)	880,323	7-28-57	9,620	634	o
49-30	4,317	(25)	435,132	11- 5-57	6,375	371	o

* 1963 Test

Northeast Blanco Well	October, 1964		Cumulative		Date Completed	Potential MCF Remarks	1964	Cum. Bbls. Drip Gasoline
	MCF Production () Days Prod.		MCF Prod. Nov. 1, 1964				MCF Deliver- ability Nov. 1, 1964	
50-25	3,934 (4)		789,758		8- 3-51	8,582	461	o
51-29	7,565 (31)		787,803		8- 9-57	14,743	452	o
52-15	1,533 (5)		521,350		5-21-57	4,783	362	o
53-28	2,931 (28)		421,811		8-23-57	8,873	151	o
54-33	1,406 (4)		877,624		6-18-57	11,809	491	o
55-22	3,102 (27)		283,587		9-26-58	4,702	167	o
56-34	3,334 (22)		303,622		11-17-58	4,741	255	o
57-21	1,290 (17)		140,494		9-18-59	5,190	112	o
58-13	3,451 (18)		286,986		11- 3-59	6,270	112	o
59-24	2,618 (28)		151,033		7- 2-60	3,141	127	o
60-7	4,798 (28)		136,855		6- 1-61	4,220	194	o
61-19	2,381 (24)		134,891		6-19-61	3,864	53	o
62-30	2,883 (20)		139,561		7- 8-61	4,040	93	o
McElvain 2(37½)	17,238 (25)		623,883		6- 1-55	4,300	.375 WI	1,027
<hr/>								
Total	811,457		88,319,823					28,000
<hr/>								
Past Development History of "Los Pinos" Dakota Zone								
1-27	3,997 (3)		795,491		8-28-52	536	512	o
55-22	823 (31)		64,564		9-26-58	288	24	o
56-34	1,959 (32)		184,594		11-17-58	2,839	79	o
57-21	2,278 (31)		156,256		11- 3-59	1,235	75	o
58-13	5,091 (18)		267,703		9-18-59	2,461	294	o
<hr/>								
Total	14,148		1,468,608					o
Grand Total	<u>825,605</u>		<u>89,788,431</u>					<u>28,000 Bbls.</u>

The following notes pertain to table on preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .580 to .670.

Note #2 - October, 1964 information indicates that the gas carries from 0 GPM to .351 gallons per thousand. The mathematical average gasoline content for 55 wells showing liquids was .233 GPM during October, 1964.

III Participating Area

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV Offset Obligations

Unit Operator, on behalf of the owners of working, royalty, or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V Development

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand, the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years. Unit Operator, therefore, on behalf of all participants, requests your permission to not drill any development wells during the calendar year 1965.

VI Effective Date

The Plan of Development shall be effective January 1, 1965.

VII Modification

This Plan of Development may be modified from time to time, with the approval of the Federal Oil and Gas Supervisor, the New Mexico Commissioner of Public Lands, and the New Mexico Conservation Commission, to meet changing conditions.

Submitted this 15th day of December, 1964.

BLACKWOOD & NICHOLS COMPANY
Unit Operator

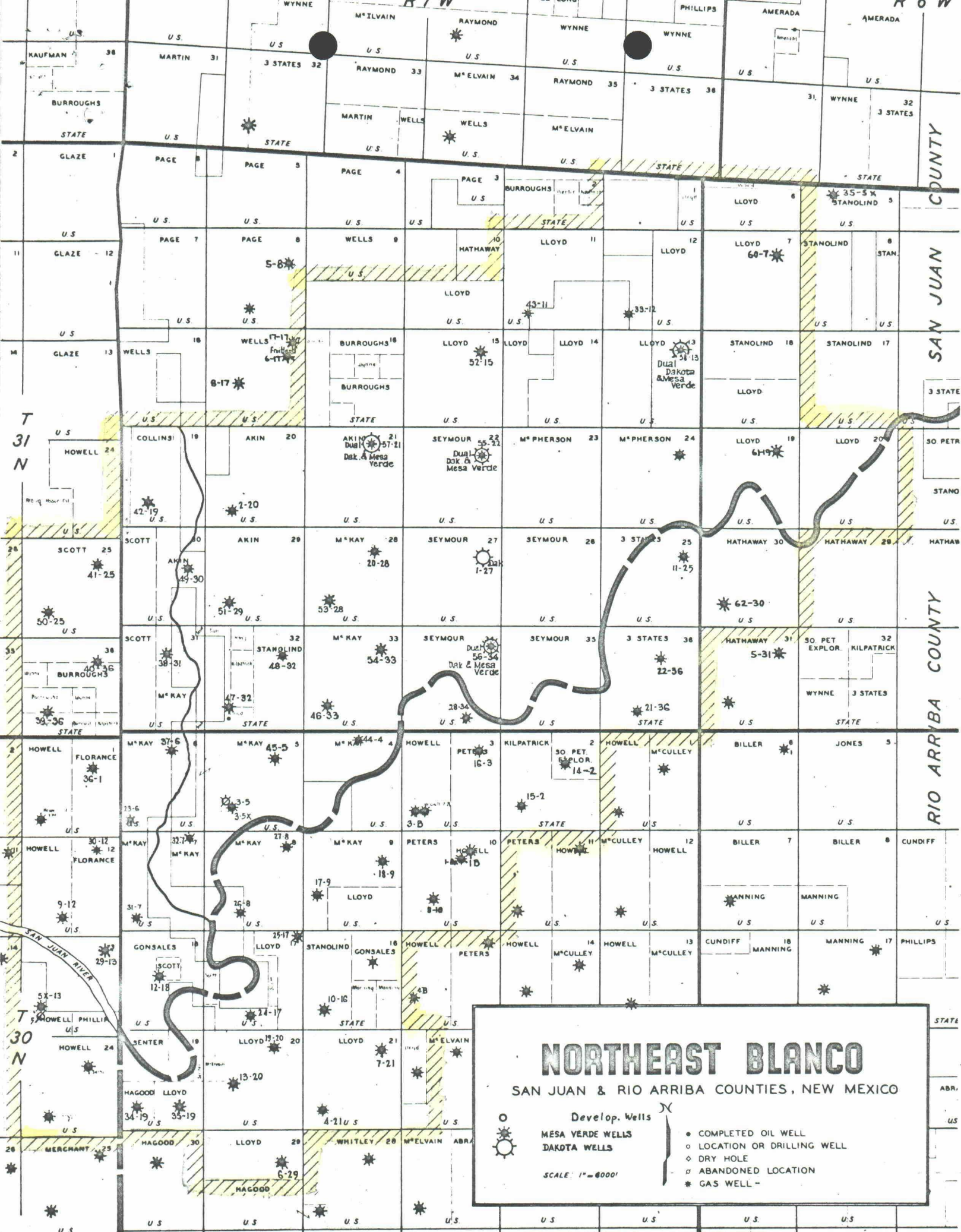
By W. N. Little
W. N. LITTLE, MANAGER OF OPERATIONS

Approved 3-5 19 65
A. L. Porter
Secretary-Director

WNL:CB
Attachment - Plat

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED
DECEMBER 15 1964
OFFICE OF THE SECRETARY-DIRECTOR
NEW MEXICO OIL CONSERVATION COMMISSION



NORTHEAST BLANCO

SAN JUAN & RIO ARRIBA COUNTIES, NEW MEXICO



Develop. Wells

MESA VERDE WELLS
DAKOTA WELLS

- COMPLETED OIL WELL
- ◊ LOCATION OR DRILLING WELL
- ◊ DRY HOLE
- ◊ ABANDONED LOCATION
- * GAS WELL -

SCALE: 1" = 4000'

Blackwood & Nichols Company

2013 FIRST NATIONAL BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

November 18, 1964

TO ALL ADVISORY COMMITTEE MEMBERS IN THE MESAVERDE
PARTICIPATING AREA OF THE NORTHEAST BLANCO UNIT AREA AND
ALL WORKING INTEREST OWNERS IN THE NORTHEAST BLANCO UNIT AREA

Unit Operator hereby calls a meeting for Northeast Blanco Unit Mesaverde Participating Area Advisory Committee and all other working interest owners in the Northeast Blanco Unit Area at 10:00 A.M., Wednesday, December 2, 1964, in the Third Floor Conference Room of El Paso Natural Gas Company, Petroleum Plaza Building, Farmington, New Mexico.

Unit Operator recommends the following agenda for this meeting and will welcome suggestions for additions to the agenda:

1. Approval of minutes of Advisory Committee Meeting held December 4, 1963, in Pan American's Conference Room, Farmington, New Mexico. Unit Operator has not received any corrections of the minutes of this meeting which were submitted to all concerned.
2. Decide on a Plan of Development for the calendar year of 1965. Unit Operator does not recommend the drilling of any "Development Wells" during 1965.
3. Discuss the need for workovers. Currently Well 15-2 is showing black water, indicating a casing leak; and Well 18-9 has quite suddenly lost much of its ability to produce. A copy of our most recent Deliverability test summary is enclosed for your observation and study.
4. Set automotive mileage charge for period 1/1/65 through 12/31/65. A summary of our auto expense for our last fiscal year ending June 30, 1964, is enclosed.
5. We would appreciate a review of Cathodic protection by those companies having experience in the San Juan Basin.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

W. N. Little

W. N. Little, Chairman
Northeast Blanco Unit
Advisory Committee

WNL:cb

Encls - Table 1964 Deliverability Tests
Table Auto Expense

1964 Summary of Deliverability Tests

三

N.M. BIANCO UNIT

1964 Summary of Deliverability Tests

5

uto Expense

Accounting Period 7-1-63 thru 6-30-64

Item	4 Door Chevrolet Sedan	4 Door Chevrolet Sedan	1/2 Ton Ford Pickup	Willy's 4 Wheel Dr. Jeep	Totals or Weighted Average
Year	1961	1963	1963	1962	
Driver	Watkins	Loos	Willmouth	Loos-Willmouth	
Car Number	7-61-1	7-63-1	T-63-1	6-62-1	
Date Purchased	12-27-60	1-23-63	5-22-63	9-25-61	
Date Sold	12-19-63	Operating	Operating	Operating	
Cost	\$ 2751.08	2419.67	2419.96	3045.00	
Sale Price	\$ 1255.00	—	—	—	
Gas & Oil Expense	111.98	575.32	994.65	166.25	
Tires-Tubes	0.00	138.80	306.36	0.00	
Repairs	4.00	88.83	4.00	3.21	
Miscel. Tag-Ins.	48.78	175.10	124.94	112.15	
Reserve-Depreciation (Sus.)	1347.12	806.56	716.14	525.00	
Depreciation %	Remainder	33 1/3	33 1/3	25	
Total Auto Expense	* 256.12	\$ 1784.61	\$ 2146.09	\$ 806.61	\$ 4993.43 T.
Ending Mileage	34195	14259	38002	26145	
Cost per mile	\$.10992	\$.16463	\$.06202	\$.19966	\$.0964 WTA
Period Miles Operat.	2330	10804	34602	4040	51776 T.
Auto Revenue	\$ 256.30	\$ 1158.26	\$ 3709.22	\$ 432.75	\$ 5556.53
Auto Income based on \$.11 per mile July '63 thru Dec '63 and .105 per mile Jan '64 thru July '64.					
* Includes Depreciation Sustained & Sales Price					

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

318

March 12, 1964

C
O
P
Y

Blackwood and Nichols Company
2013 First National Building
Oklahoma City 2, Oklahoma

Attention: Mr. W. N. Little

Re: 1964 Plan of Development,
Northeast Blanco Unit,
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1964 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

Blackwood & Nichols Company

FIFTH FLOOR • 14 NORTH ROBINSON • OKLAHOMA CITY 2, OKLAHOMA

NEW ADDRESS: 2013 FIRST NATIONAL BLDG

December 31, 1963

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Re: Plan of Development for the Calendar
Year 1964, Mesaverde Zone, Northeast
Blanco Unit, 1-Sec. 929, San Juan and
Rio Arriba Counties, New Mexico

Gentlemen:

We are submitting herewith four signed copies of the above-referenced Plan of Development. Copies have also been submitted to the Oil and Gas Supervisor, United States Geological Survey, Roswell, New Mexico; and the Commissioner of Public Lands, State of New Mexico, Santa Fe, New Mexico.

We would appreciate your approval of this Plan of Development.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

W. N. Little
W. N. Little, Chairman
Northeast Blanco Unit
Advisory Committee

WNL:pdw
enclosures/4

MAIN OFFICE OCC

1964 MAR 5 PM 4:18

March 5, 1964

Blackwood & Nichols Company
2013 First National Building
Oklahoma City 2, Oklahoma

Re: Northeast Blanco Unit
San Juan and Rio Arriba
Counties, New Mexico
1964 Plan of Development

Attention: Mr. W. N. Little

Gentlemen:

Your 1964 Plan of Development for the Mesaverde formation, Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells during this period, has been approved by the Commissioner of Public Lands as of March 5, 1964.

We are returning two approved copy.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESW/mm/v

cc: Oil Conservation Commission
Santa Fe, New Mexico

United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

ILLEGIBLE



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

February 3, 1964

Blackwood & Nichols Company
2013 First National Building
Oklahoma City 2, Oklahoma

Attention: Mr. U. N. Little

Gentlemen:

Your 1964 plan of development for the Mesaverde zone, Northeast Blanco unit, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

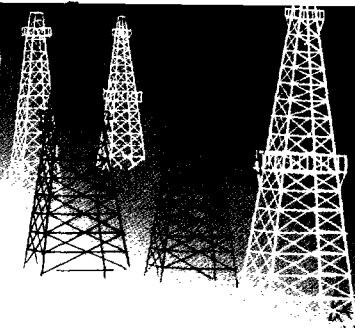
JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:
Washington (w/cy of plan)
Farmington (w/cy of Plan)
BMOCC, Santa Fe (ltr. only) ✓
Com. of Pub. Lands, Santa Fe (ltr. only)

ILLEGIBLE

Blackwood & Nichols Company

FIFTH FLOOR • 14 NORTH ROBINSON • OKLAHOMA CITY 2, OKLAHOMA
NEW ADDRESS: 2013 FIRST NATIONAL BLDG.



December 27, 1963

Plan of Development for the Calendar Year 1964, Mesaverde Zone, Northeast Blanco Unit, 1 - Sec. 929, San Juan and Rio Arriba Counties, New Mexico

To: The Oil and Gas Supervisor
U. S. Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

1964 JAN 4 PM 3 31
RECEIVED

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar Year 1964.

I Description of Participating Area in Mesaverde Zone

A plat is included to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone

Status of the wells in the Unit is as follows:

Northeast Blanco Well	() Days Prod. October, 1963 MCF Production	Cumulative MCF Prod. Nov. 1, 1963	Date Completed	Potential MCF Remarks	1963 MCF Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1963
FF 2-43	0(0)	2,322,429	4-30-52	17,452	2,527	676
Howell 1-B	-	560,802	Csg.Failed	Abandoned	0	0
Howell 1-BX	0(0)	1,786,398	10-6-57	20,334	1,713	0
Howell 2-B	0(0)	1,473,937	10-3-51	6,891	465	0
Howell 1-G	3,099(3)	1,533,548	10-5-51	10,968	1,003	0
Howell 2-J	6,251(5)	2,969,469	2-1-52	3,180	828	3,200
2-20	690(3)	274,340	6-12-54	2,956	171	0
3-5	-	0	Csg.Failed	Abandoned	0	0
3-5X	6,838(3)	2,039,576	9-24-54	4,116	1,027	87
4-21	0(0)	731,261	2-10-54	4,160	166	0
5-13	0(0)	0	Csg.Failed	Abandoned	0	0
5-13X	3,980(5)	2,654,311	8-14-53	8,492	715	1,852
6-29	0(0)	987,243	12-4-53	13,185	532	1,073
7-21	1,909(2)	2,199,333	12-11-53	5,200	951	2,155

Northeast Blanco Well	() Days Prod. October, 1963	Cumulative MCF Prod.	Date	Potential	1963 MCF	Cum. Bbls. Drip Gasoline
	<u>MCF Production</u>	<u>Nov. 1, 1963</u>	<u>Completed</u>	<u>MCF Remarks</u>	<u>Deliverability</u>	<u>Nov. 1, 1963</u>
8-10	0(0)	2,171,448	9-30-53	8,872	1,207	0
9-12	0(0)	2,893,641	9-22-53	4,970	1,138	1,932
10-16	8,274(4)	1,388,027	1-6-54	7,967	967	0
11-25	2,699(29)	335,242	1-7-54	2,425	97	0
12-18	0(0)	1,485,848	10-16-53	5,450	1,443	0
13-20	0(0)	926,557	12-17-53	4,500	163	1,572
14-2	3,893(14)	786,494	5-20-54	2,415	195	0
15-2	0(0)	724,067	2-8-54	2,774	281	0
16-3	0(0)	1,054,963	7-18-54	2,864	1,608	0
17-9	25,839(15)	2,289,826	8-25-54	3,580	1,344	0
18-9	18,234(15)	1,248,209	7-28-54	2,237	474	579
19-20	5,904(8)	653,138	10-19-54	1,644	321	0
20-28	3,887(27)	301,774	11-11-54	3,602	165	0
21-36	0(0)	576,210	10-5-54	4,344	218	51
22-36	0(0)	431,655	11-2-54	3,479	111	0
23-6	0(0)	3,681,531	8-30-55	8,343	2,761	0
24-17	0(0)	1,347,260	5-22-55	4,341	765	1,493
25-17	0(0)	1,738,807	6-15-55	4,738	898	1,346
26-8	28,549(19)	1,974,233	8-25-55	4,820	1,172	0
27-8	0(0)	1,324,169	8-1-55	5,121	357	0
28-34	0(0)	634,872	9-21-55	3,404	246	0
29-13	0(0)	2,288,025	5-31-55	4,907	1,282	900
30-12	0(0)	2,156,803	8-3-55	5,600	1,251	1,811
31-7	0(0)	1,908,746	7-3-55	3,979	1,139	1,608
32-7	4,621(3)	1,095,855	9-28-55	4,013	575	0
33-12	595(3)	289,043	11-10-55	1,800	186	0
34-19	0(0)	959,693	6-5-57	22,550	923	1,234
35-19	1,550(1)	857,819	7-25-57	21,487	1,365	0
36-1	36,708(13)	4,382,632	4-28-56	22,663	3,946	0
37-6	26,294(13)	2,369,876	5-23-56	20,570	1,547	0
38-31	2,778(3)	839,803	8-21-57	11,821	404	0
39-36	4,416(3)	1,385,353	6-3-57	13,142	1,275	1,512
40-36	0(0)	1,263,434	7-6-57	11,250	907	0
41-25	0(0)	612,519	9-14-57	8,393	520	0
42-19	1,010(11)	221,297	10-13-57	7,002	27	0
43-11	3,584(27)	296,107	1-7-58	3,604	149	0
44-4	3,916(2)	1,297,270	7-1-56	13,672	1,023	0
45-5	6,379(3)	1,982,385	5-4-56	16,584	996	0
46-33	2,414(2)	673,287	7-15-57	9,183	411	0
47-32	1,756(2)	1,053,970	5-4-56	10,676	571	620
48-32	1,900(2)	784,650	7-28-57	9,620	484	0
49-30	896(2)	783,710	11-5-57	6,375	289	0
50-25	8,841(9)	708,007	8-3-51	8,582	438	0
51-29	1,497(3)	691,714	8-9-57	14,743	408	0
52-15	5,115(26)	471,816	5-21-57	4,783	257	0
53-28	3,311(26)	384,192	8-23-57	8,873	142	0
54-33	9,867(24)	804,263	6-18-57	11,809	443	0
55-22	3,654(27)	249,636	9-26-58	4,702	314	0
56-34	1,214(3)	258,159	11-17-58	4,741	266	0
57-21	1,845(21)	123,288	9-18-59	5,190	222	0
58-13	1,245(3)	238,694	11-3-59	6,270	205	0
59-24	2,038(32)	115,796	7-2-60	3,141	97	0
60-7	2,089(2)	88,125	6-1-61	4,220	322	0
61-19	4,282(21)	102,731	6-19-61	3,864	194	0

	() Days Prod.	Cumulative			1963	Cum. Bbls.
Northeast	October, 1963	MCF Prod.	Date	Potential	MCF	Drip Gasoline
Blanco Well	MCF Production	Nov. 1, 1963	Completed	MCF Remarks	Deliverability	Nov. 1, 1963
62-30	3,696(22)	104,054	7-8-61	4,040	207	0
McElvain 2(37½)	6,713(7)	539,378	6-1-55	4,300	.375 W. Int.	898
Total	275,270	79,502,848				23,701Bbls.

Past Development History of "Los Pinos" Dakota Zone

1-27	1,621(1)	687,272	8-28-52	536	520	0
55-22	1,121(32)	54,580	9-26-58	288	19	0
56-34	2,485(32)	162,609	11-17-58	2,839	146	0
57-21	2,833(32)	129,427	11-3-59	1,235	105	0
58-13	7,442(26)	204,760	9-18-59	2,461	264	0
Total	15,502	1,238,648				0Bbls.
Grand Totals	290,772	80,741,496				23,701Bbls.

The following notes pertain to table on preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .580 to .670.

Note #2 - October, 1963 information indicates that the gas carries from 0 GPM to .327 gallons per thousand. The mathematical average gasoline content for 35 wells showing liquids was .166 GPM during October, 1963.

III Participating Area

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

IV Offset Obligations

Unit Operator, on behalf of the owners of working, royalty, or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

V Development

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand conditions the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years. Unit Operator, therefore, in behalf of all participants, requests your permission to not drill any development wells during the calendar year 1964.

VI Effective Date

The Plan of Development shall be effective January 1, 1964.

VII Modification

This Plan of Development may be modified from time to time, with the approval of the Federal Oil and Gas Supervisor, the New Mexico Commissioner of Public Lands, and the New Mexico Conservation Commission, to meet changing conditions.

Submitted this 27th day of December, 1963.

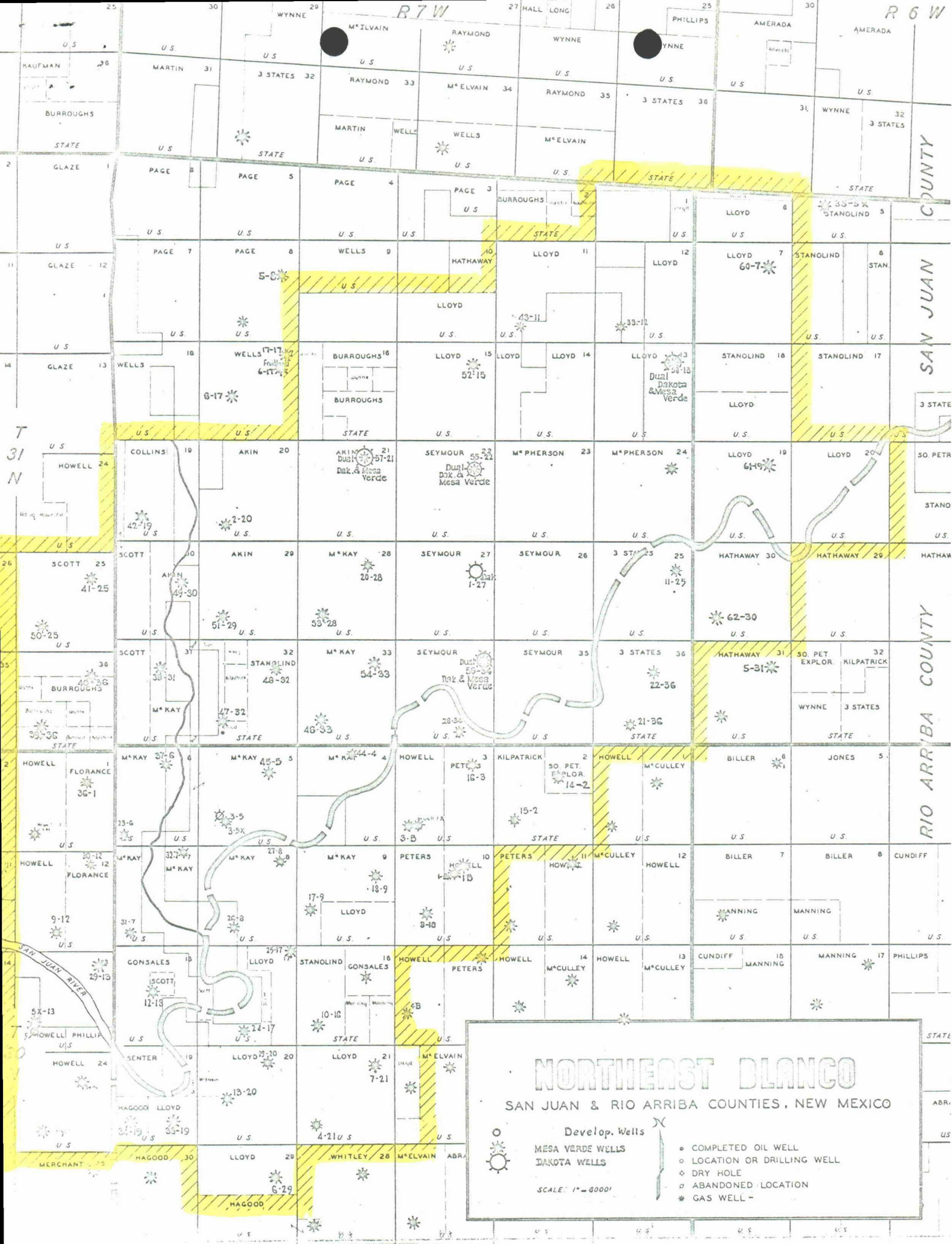
BLACKWOOD & NICHOLS COMPANY
Unit Operator

by W. N. Little
Manager of Operations

WNL:pdw

Approved March 12 1964
A. L. Carter
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION



OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

318

June 6, 1963

Blackwood & Nichols Company
14 North Robinson
Oklahoma City 2, Oklahoma

Attention: Mr. W. M. Little

Re: 1963 Plan of Development,
Mesaverde Zone, Northeast
Blanco Unit, San Juan and
Rio Arriba Counties, New
Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1963 Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/ig

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

ILLEGIBLE

CLARK OFFICE 000

1963 FEB 14 PM 1:36

Drawer 1857
Roswell, New Mexico

February 11, 1963

Blackwood & Nichols Company
14 North Robinson
Oklahoma City 2, Oklahoma

Attention: Mr. W. M. Little

Gentlemen:

Your 1963 plan of development dated December 17, 1962, for the Mesaverde zone, Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)
Farmington (w/cy of plan)
NMOCC - Santa Fe (ltr. only)
Com. of Pub. Lands - Santa Fe (ltr. only)

ILLEGIBLE

RECEIVED MAY 2 1963

May 16, 1963

Blackwood & Nichols Company
Fifth Floor
14 North Robinson
Oklahoma City 2, Oklahoma

Re: Northeast Blanco Unit
San Juan and Rio Arriba
Counties, New Mexico
1963 Plan of Development

Attention: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands has approved as of May 15, 1963, the 1963 Plan of Development for the Northeast Blanco Unit, San Juan and Rio Arriba Counties, New Mexico.

This Plan covers the Mesaverde zone and proposes the drilling of no additional wells in 1963.

We are enclosing two approved copies of this Plan.

Our Official Receipt No. G-9161 in the amount of four (\$4.00) dollars was mailed to you as of December 31, 1962.

ILLEGIBLE

Blackwood & Nichols Company
Attention: W. N. Little
May 16, 1963
- page 2 -

very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

EY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESW/mm/v

encl:

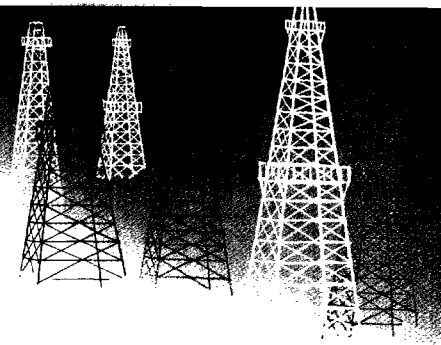
cc: Oil Conservation Commission
Santa Fe, New Mexico

U. S. Department of Interior
Geological Survey
Roswell, New Mexico
Attention: Mr. John A. Anderson

ILLEGIBLE

Blackwood & Nichols Company

FIFTH FLOOR • 14 NORTH ROBINSON • OKLAHOMA CITY 2, OKLAHOMA



December 18, 1962

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Re: Plan of Development for the Calendar
Year 1963, Mesaverde Zone, Northeast
Blanco Unit, 1-Sec. 929, San Juan and
Rio Arriba Counties, New Mexico

Gentlemen:

We are submitting herewith four signed copies of the above referenced Plan of Development. Copies have also been submitted to the Oil and Gas Supervisor, United States Geological Survey, Roswell, New Mexico; and the Commissioner of Public Lands, State of New Mexico, Santa Fe, New Mexico.

We would appreciate your approval of this Plan of Development.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

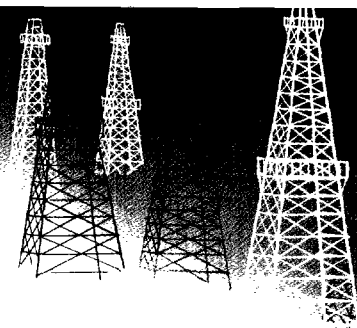
A handwritten signature in cursive script, appearing to read "W. N. Little". The signature is fluid and stylized, with a large loop at the end.

W. N. Little, Chairman
Northeast Blanco Unit
Advisory Committee

WNL:pds
enclosures/4

Blackwood & Nichols Company

FIFTH FLOOR • 14 NORTH ROBINSON • OKLAHOMA CITY 2, OKLAHOMA



December 17, 1962

Plan of Development for the Calendar Year 1963, Mesaverde Zone, Northeast Blanco Unit, 1 - Sec. 929, San Juan and Rio Arriba Counties, New Mexico

To: The Oil and Gas Supervisor
U. S. Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar Year 1963.

I Description of Participating Area in Mesaverde Zone

A plat is included to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone

Status of the wells in the Unit is as follows:

Northeast Blanco Well	() Days Prod. October, 1962 MCF Production	Cumulative MCF Prod. Nov. 1, 1962	Date Completed	Potential MCF Remarks	1962 MCF Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1962
FF 2-43	2,717(1)	539,789	4-30-52	17,452	3,669	442
Howell 1-B	0	560,802	Csg.Failed	Abandoned	0	0
Howell 1-BX	0	1,520,366	10-6-57	20,334	3,312	0
Howell 2-B	0	1,367,503	10-3-51	6,891	1,401	0
Howell 1-G	11,138(6)	1,458,300	10-5-51	10,968	761	0
Howell 2-J	25,600(20)	2,852,491	2-1-52	3,180	1,584	3,044
2-20	3,219(29)	254,831	6-12-54	2,956	100	0
3-5	0	0	Csg.Failed	Abandoned	0	0
3-5X	19,643(10)	1,911,115	9-24-54	4,116	1,660	87
4-21	0	693,573	2-10-54	4,160	424	0
5-13	0	0	Csg.Failed	Abandoned	0	0
5-13X	0	2,598,599	8-14-53	8,492	1,320	1,811

Northeast Blanco Well	() Days Prod. October, 1962	Cumulative MCF Prod. Nov. 1, 1962	Date Completed	Potential MCF Remarks	1962 MCF Deliverability	Cum. Bbls. Drip Gasoline Nov. 1, 1962
	MCF Production					
6-29	0	919,517	12-4-53	13,185	491	997
7-21	27,260(22)	2,002,838	12-11-53	5,200	1,694(61)	1,867
8-10	0	1,974,408	9-30-53	8,872	2,291	0
9-12	23,078	2,740,809	9-22-55	4,970	2,181	1,823
10-16	0	1,260,309	1-6-54	7,967	2,221	0
11-25	1,961(24)	306,366	1-7-54	2,425	97	0
12-18	20,576(15)	1,329,009	10-16-53	5,450	2,277	0
13-20	0	888,163	12-17-53	4,500	271	1,572
14-2	0	734,910	5-20-54	2,415	360	0
15-2	0	682,928	2-8-54	2,774	368	0
16-3	0	919,926	7-18-54	2,864	2,323	0
17-9	0	2,085,358	8-25-54	3,580	2,325	0
18-9	0	1,140,758	7-28-54	2,237	955	495
19-20	0	599,973	10-19-54	1,644	499	0
20-28	3,510(25)	274,349	11-11-54	3,602	201	0
21-36	0	540,254	10-5-54	4,344	181	51
22-36	3,485(24)	397,202	11-2-54	3,479	215	0
23-6	0	3,387,054	8-30-55	8,343	2,923	0
24-17	0	1,253,861	5-22-55	4,341	1,316	1,338
25-17	0	1,577,455	6-15-55	4,738	1,674	1,357
26-8	0	1,800,773	8-25-55	4,820	2,113	0
27-8	0	1,228,566	8-1-55	5,121	923	0
28-34	0	590,557	9-21-55	3,404	327	0
29-13	43,529(32)	2,128,869	5-31-55	4,907	2,339	820
30-12	32,288(24)	2,003,375	8-3-55	5,600	2,281	1,641
31-7	44,610(24)	1,747,326	7-3-55	3,979	2,338	1,537
32-7	5,744(4)	975,314	9-28-55	4,013	1,438	0
33-12	2,814(27)	267,034	11-10-55	1,800	127	0
34-19	5,491(4)	919,512	6-5-57	22,550	742	1,201
35-19	0	789,540	7-25-57	21,487	827	0
36-1	22,807(7)	4,030,761	4-28-56	22,663	5,280	0
37-6	45,583(22)	2,153,069	5-23-56	20,570	2,633	0
38-31	11,571(15)	756,376	8-21-57	11,821	900	0
39-36	52,449(23)	1,329,770	6-3-57	13,142	2,149	1,405
40-36	17,985(15)	1,155,564	7-6-57	11,250	1,240	0
41-25	5,811(15)	539,789	9-14-57	8,393	918	0
42-19	2,676(27)	199,358	10-13-57	7,002	0	0
43-11	5,203(31)	253,052	1-7-58	3,604	381	0
44-4	5,331(4)	1,196,341	7-1-56	13,672	1,074	0
45-5	23,560(19)	1,809,769	5-4-56	16,584	2,332	0
46-33	20,089(21)	590,811	7-15-57	9,183	814	0
47-32	14,961(30)	964,953	5-4-56	10,676	823	0
48-32	4,198(5)	707,183	7-28-57	9,620	848	0
49-30	5,045(24)	349,270	11-5-57	6,375	99	0
50-25	9,838(15)	624,842	8-3-57	8,582	745	0
51-29	1,466(5)	622,792	8-9-57	14,743	926	0
52-15	4,859(31)	419,866	5-21-57	4,783	379	0
53-28	3,723(21)	341,727	8-23-57	8,873	343	0
54-33	10,405(32)	719,787	6-18-57	11,809	849	0
55-22	4,468(28)	206,787	9-26-58	4,702	274	0
56-34	4,734(23)	226,973	11-17-58	4,741	290	0
57-21	2,550(19)	100,934	9-18-59	5,190	192	0

Northeast	() Days Prod.	Cumulative			1962	Cum. Bbls.
Blanco Well	October, 1962	MCF Prod.	Date	Potential	MCF	Drip Gasoline
	MCF Production	Nov. 1, 1962	Completed	MCF Remarks	Deliverability	Nov. 1, 1962
58-13	8,099(32)	178,639	11-3-59	6,270	420	0
59-24	8,802(30)	70,291	7-2-60	3,141	336	0
60-7	4,103(9)	49,268	6-1-61	4,220	29	0
61-19	8,740(17)	48,748	6-19-61	3,864	321	0
62-30	0	42,663	7-8-61	4,040	561	0
McElvain 2(37½)	14,951(24)	485,410	6-1-55	4,300	.375 W. Int.	786
Total	600,610	72,889,739MCF				22,174Bbls.

Past Development History of "Los Pinos" Dakota Zone

1-27	0	641,597	8-28-52	536	603	0
55-22	1,188	45,703	9-26-58	288	25	0
56-34	2,996	132,109	11-17-58	2,839	75	0
57-21	3,397	100,675	11-3-59	1,235	86	0
58-13	704	156,149	9-18-59	2,461	127	0
Total	8,285	1,076,233MCF				0Bbls.

The following notes pertain to table on preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .580 to .670.

Note #2 - October, 1961 information indicates that the gas carries from 0 GPM to .307 gallons per thousand. The mathematical average gasoline content for 35 wells showing liquids was .162 GPM during October, 1962.

III Information on 1962 Work

Well #16-3, located 990 feet from north and east lines of Sec. 3-T30N-R7W, was worked over during the period 5-2-62 through 5-12-62. This well was found to have holes in the 5½ inch OD casing, therefore, 4½ inch OD 11,34# and 10.50# J-55 casing was cemented from 5510 feet to the surface. Well was perforated 5100 feet to 5120 feet, 5136 feet to 5174 feet, 5216 feet to 5236 feet, 5270 feet to 5288 feet, 5354 feet to 5390 feet and 5424 feet to 5500 feet, two holes per foot. Perforated interval was sand-water fraced with 89,180 gallons of water and 75,000# sand. The well's deliverability improved from 364 MCF per day prior to workover, 2323 MCF per day after the workover. Three-eighths interest well McElvain #2, located 960 feet north of the south line and 1000 feet east of the west line, Sec. 22-T30N-R7W, was worked over by El Paso Natural Gas Company during the period 7-13-62 through August 28, 1962. This well had casing trouble, and 4½ inch OD casing was cemented to 5911 feet and after perforating and sand fracing well showed for an absolute open flow potential of 7021 MCF per day. Comparative deliverability information is not available at this time. Additional workovers are planned in 1963 to keep all wells in efficient operating condition.

IV Participating Area

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

V Offset Obligations

Unit Operator, on behalf of the owners of working, royalty, or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement.

VI Development

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand conditions the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years. Unit Operator, therefore, in behalf of all participants, requests your permission to not drill any development wells during the calendar year 1963.

VII Effective Date

This Plan of Development shall be effective January 1, 1963.

VIII Modification

This Plan of Development may be modified from time to time, with the approval of the Federal Oil and Gas Supervisor, the New Mexico Commissioner of Public Lands, and the New Mexico Conservation Commission, to meet changing conditions.

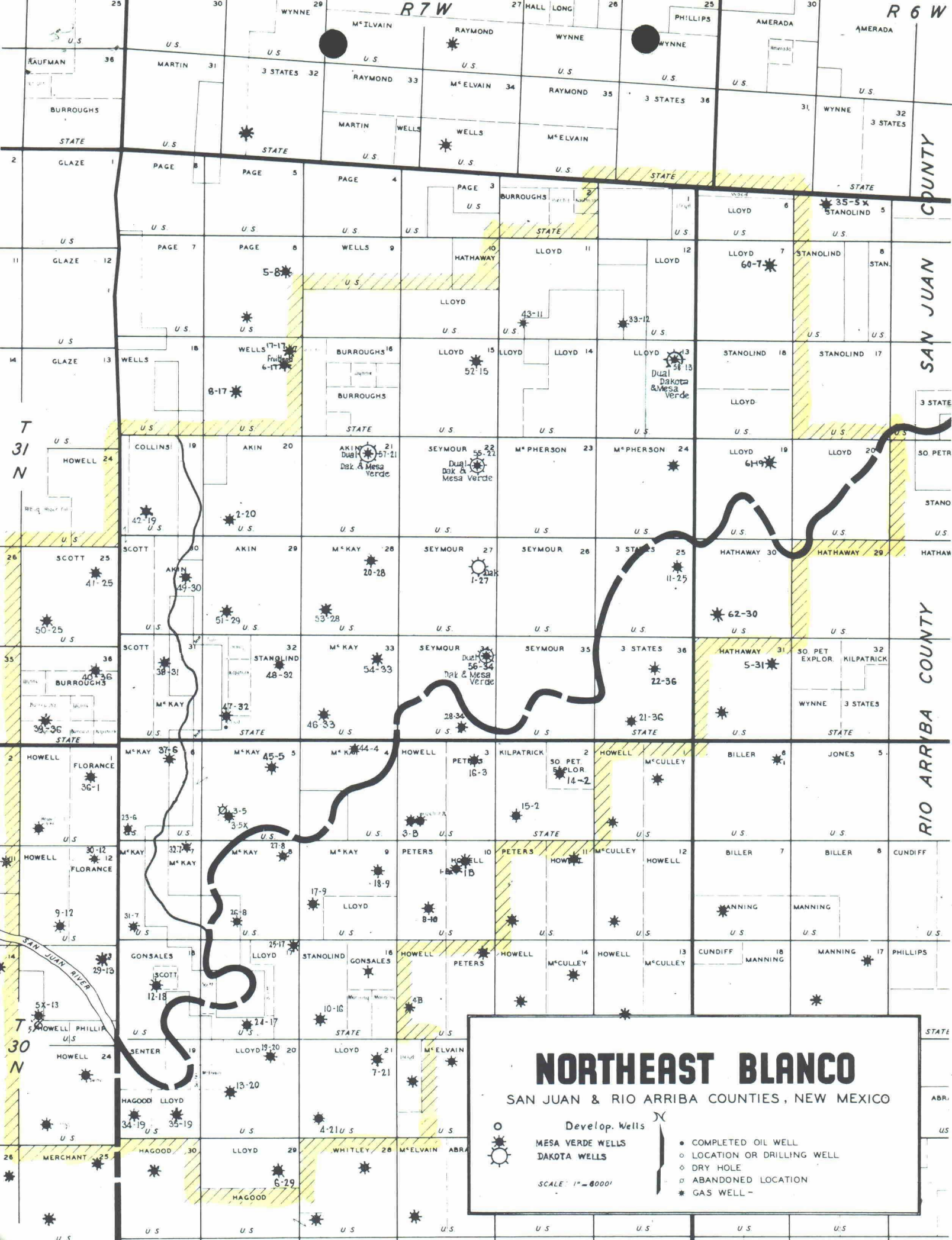
Submitted this 17th day of December, 1962.

BLACKWOOD & NICHOLS COMPANY
Unit Operator

by W. N. Little
Manager of Operations

Approved June 6, 1963
A. L. Porter
Secretary-Land

NEW MEXICO OIL CONSERVATION COMMISSION



OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

518

March 21, 1962

C
O
P
Y
Blackwood & Nichols Company
500 Mid-America Bank Building
Oklahoma City 2, Oklahoma

Attention: Mr. W. M. Little

Re: 1962 Plan of Development
Mesaverde Zone Northeast
Blanco Unit, San Juan &
Rio Arriba Counties, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1962 Plan of Development, Mesaverde Zone for the Northeast Blanco Unit, San Juan & Rio Arriba Counties, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/19

cc: U. S. Geological Survey - Roswell
State Land Office - Santa Fe

March 12, 1962

Blackwood & Nichols Company
500 Mid-America Bank Bldg.
Oklahoma City, 2, Oklahoma

Re: Plan of Development
for the Calendar Year
1962, Mesaverde Formation
Northeast Blanco Unit,
San Juan & Rio Arriba
Counties, New Mexico

Attention: Mr. W. N. Little

Gentlemen:

The Commissioner of Public Lands herewith approves your request that no further Mesaverde Development Wells be required during the Calendar Year 1962.

We are returning two approved copies of this 1962 Plan of Development.

Very truly yours,

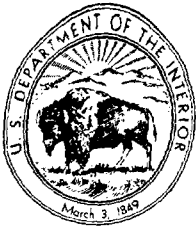
E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor

ESW/mmz

cc: Oil Conservation Commission
Santa Fe, New Mexico

U. S. Geological Survey
Roswell, New Mexico



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

1962 PART 1
Drawer 1857
Roswell, New Mexico

March 9, 1962

Blackwood and Nichols Company
Mid-American Building
Oklahoma City 2, Oklahoma

Attention: Mr. W. N. Little

Gentlemen:

Your plan of development for 1962, dated December 27, 1961, for the Northeast Blanco unit area, San Juan and Rio Arriba Counties, New Mexico, which proposes no development wells, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Very truly yours,

(Orig. Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)
Farmington (w/cy of plan)
NMOCC, Santa Fe (Ltr only) ✓
Com. of Pub. Lands, Santa Fe (Ltr only)

Blackwood & Nichols Company

MID-AMERICA BLDG. • 14 N. ROBINSON • OKLAHOMA CITY 2, OKLAHOMA

December 27, 1961

Plan of Development for the Calendar Year 1962, Mesaverde Zone, Northeast Blanco Unit, 1 - Sec., 929, San Juan and Rio Arriba Counties, New Mexico

To: The Oil and Gas Supervisor
U. S. Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Blackwood & Nichols Company, as Unit Operator, on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits the Plan of Development for the Mesaverde Zone of the Northeast Blanco Unit for the Calendar Year 1962.

I Description of Participating Area in Mesaverde Zone

A plat is included to show the Northeast Blanco Unit Area which is also the Northeast Blanco Unit Mesaverde Participating Area.

II Past Development History of the Mesaverde Zone

Status of the wells in the Unit is as follows:

<u>Northeast Blanco Well</u>	<u>October, 1961 MCF Production</u>	<u>Cumulative MCF Prod. Nov. 1, 1961</u>	<u>Date Completed</u>	<u>Potential MCF Remarks</u>
FF 2-43	40,492 (21)	1,830,194	4-30-52	17,452
Howell 1-B	-0-	560,802	Csg.Failed	Abandoned
Howell 1-BX	64,686 (32)	1,361,358	10-6-57	20,334
Howell 2-B	1,915 (1)	1,251,370	10-3-51	6,891
Howell 1-G	2,177 (1)	1,329,267	10-5-51	10,968
Howell 2-J	30,607 (22)	2,764,329	2-1-52	3,180
2-20	2,265 (18)	232,715	6-12-54	2,956
3-5	-0-	-0-	Csg.Failed	Abandoned
3-5X	23,320 (24)	1,813,218	9-24-54	4,116
4-21	5,897 (30)	652,099	2-10-54	4,160
5-13	-0-	-0-	Csg.Failed	Abandoned
5-13X	12,667 (30)	2,497,754	8-14-53	8,492

<u>Northeast Blanco Well</u>	<u>October, 1961 MCF Production</u>	<u>Cumulative MCF Prod. Nov. 1, 1961</u>	<u>Date Completed</u>	<u>Potential MCF Remarks</u>
6-29	12,349 (32)	825,826	12-4-53	13,185
7-21	30,688 (23)	1,887,700	12-11-53	5,200
8-10	10,422 (7)	1,784,922	9-30-53	8,872
9-12	37,075 (22)	2,615,292	9-22-53	4,970
10-16	356 (8)	1,107,921	1-6-54	7,967
11-25	3,959 (29)	279,829	1-7-54	2,425
12-18	34,047 (22)	1,171,934	10-16-53	5,450
13-20	2,096 (8)	845,437	12-17-53	4,500
14-2	3,937 (8)	680,776	5-20-54	2,415
15-2	11,694 (32)	651,780	2-8-54	2,774
16-3	10,019 (32)	842,327	7-18-54	2,864
17-9	6,132 (2)	1,909,541	8-25-54	3,580
18-9	3,026 (2)	1,047,045	7-28-54	2,237
19-20	2,855 (4)	539,200	10-19-54	1,644
20-28	3,322 (24)	248,912	11-11-54	3,602
21-36	4,412 (32)	499,940	10-5-54	4,344
22-36	4,386 (31)	357,194	11-2-54	3,479
23-6	7,169 (2)	3,128,313	8-30-55	8,343
24-17	30,173 (30)	1,154,158	5-22-55	4,341
25-17	2,071 (1)	1,447,561	6-15-55	4,738
26-8	1,902 (1)	1,643,842	8-25-55	4,820
27-8	-0-	1,121,355	8-1-55	5,121
28-34	10,549 (27)	545,571	9-21-55	3,404
29-13	35,806 (22)	1,973,230	5-31-55	4,907
30-12	37,584 (22)	1,875,356	8-3-55	5,600
31-7	38,957 (22)	1,637,843	7-3-55	3,979
32-7	19,121 (21)	896,997	9-28-55	4,013
33-12	2,651 (24)	243,936	11-10-55	1,800
34-19	1,918 (1)	805,032	6-5-57	22,550
35-19	9,881 (9)	684,859	7-25-57	21,487
36-1	-0-	3,646,055	4-28-56	22,663
37-6	3,005 (1)	1,934,178	5-23-56	20,570
38-31	26,499 (20)	634,410	8-21-57	11,821
39-36	46,618 (22)	1,149,145	6-3-57	13,142
40-36	27,372 (22)	987,287	7-6-57	11,250
41-25	8,627 (8)	474,005	9-14-57	8,393
42-19	2,275 (21)	175,951	10-13-57	7,002
43-11	5,043 (29)	208,864	1-7-58	3,604
44-4	14,181 (21)	1,107,403	7-1-56	13,672
45-5	23,634 (21)	1,630,872	5-4-56	16,584
46-33	12,738 (12)	496,855	7-16-57	9,183
47-32	12,448 (32)	858,704	5-4-56	10,676
48-32	3,503 (7)	629,769	7-28-57	9,620
49-30	4,964 (24)	308,219	11-5-57	6,375
50-25	9,939 (8)	512,952	8-3-57	8,582
51-29	109 (1)	542,674	9-19-57	14,743
52-15	5,539 (32)	367,572	5-21-57	4,783
53-28	3,792 (29)	300,642	8-23-57	8,873
54-33	12,670 (30)	635,478	6-18-57	11,809
55-22	4,540 (32)	163,858	9-26-58	4,702
56-34	4,921 (30)	183,344	11-17-58	4,741
57-21	3,246 (21)	78,555	9-18-59	5,190
58-13	7,756 (8)	104,667	11-3-59	6,270
McElvain #2 (.375)	2,265 (30)	457,618	6-1-55	4,300

<u>Northeast Blanco Well</u>	<u>October, 1961 MCF Production</u>	<u>Cumulative MCF Prod. Nov. 1, 1961</u>	<u>Date Completed</u>	<u>Potential MCF Remarks</u>
59-24	-0-	32,110	7-2-60	3,141
60-7	5,643 (4)	5,643	6-1-61	4,220
61-19	3,845 (3)	3,845	6-19-61	3,864
62-30	-0-	-0-	7-8-61	4,040
TOTALS	<u>817,737</u>	<u>66,377,820</u>		

The following notes pertain to table on preceding pages:

Note #1 - The specific gravity of the gas being produced from these wells varies from .580 to .670.

Note #2 - October, 1960 information indicates that the gas carries from 0 GPM for 9 wells to .333 gallons per thousand. The mathematical average gasoline content for all wells was .265 GPM during October, 1961.

III Information on 1960 Work

Three wells proposed in the 1961 Plan of Development were drilled and completed as scheduled. Mesaverde development well #60-7 was completed June 1, 1961, with an absolute open flow potential of 4,320 MCF per day; Mesaverde well #61-19 was completed June 19, 1961, with an absolute open flow potential of 3,864 MCF per day; and Mesaverde well #62-30 was completed July 8, 1961, with an absolute open flow potential of 4,040 MCF per day. These wells were connected to El Paso's gathering system on October 27, October 26, and November 21 of 1961, respectively. Northeast Blanco Unit well #10-16 became loaded with extraneous water and was successfully repaired during November, 1961, by cementing a 5 inch O.D. liner inside the 7 inch casing string. All wells in the Unit are now in good operating condition.

IV Participating Area

The entire Northeast Blanco Unit Area is now participating in the Mesaverde Horizon.

V Offset Obligations

Unit Operator, on behalf of the owners of working, royalty, or other interests in the Northeast Blanco Unit, will take appropriate and adequate measures to prevent drainage from lands subject to the Northeast Blanco Unit Agreement by wells on lands not subject to the agreement, or pursuant to applicable regulations, will pay a fair and reasonable compensatory royalty as provided in Section 17 of the Northeast Blanco Unit Agreement. A table is attached to this Plan of Development showing the production by months of all wells offsetting the Northeast Blanco Unit, which are not offset by Northeast Blanco Unit wells. All of these wells, in our opinion, are not commercial in quality.

VI Development

Participants in the Mesaverde Zone of the Northeast Blanco Unit have determined that under current market demand conditions the drilling of any development wells would not be reasonable since existing conditions indicate a payout period in excess of ten years. Unit Operator, therefore, in behalf of all participants, requests your permission to not drill any development wells during the calendar year 1962.

VII Effective Date

This Plan of Development shall be effective January 1, 1962.

VIII Modification

This Plan of Development may be modified from time to time, with the approval of the Federal Oil and Gas Supervisor, the New Mexico Commissioner of Public Lands, and the New Mexico Conservation Commission, to meet changing conditions.

Submitted this 27th day of December, 1961.

BLACKWOOD & NICHOLS COMPANY
Unit Operator

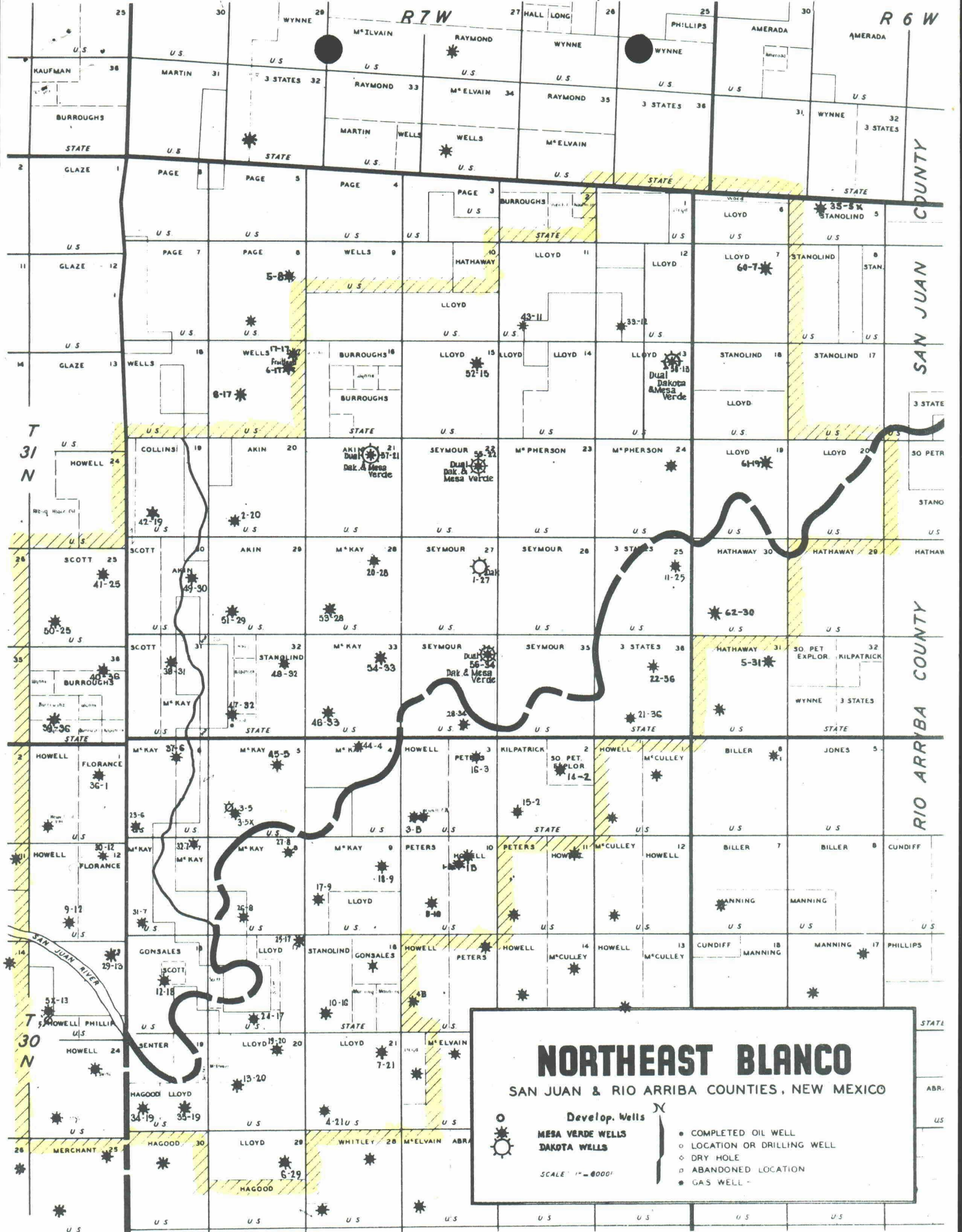
by W. N. Little
Manager of Operations

Approved... 3/21/62
[Signature]
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

NORTHEAST BLANCO OFFSET PRODUCTION

Date	San Juan 32-7 Well # 5-8 8-31N-7W SE/NE/4	San Juan 32-7 Well # 8-17 17-31N-7W SW/4	San Juan 32-7 Well # 17-17 17-31N-7W NE/NE/4	San Juan 31-6 Well # 5-31 31-31N-6W SW/4	San Juan 31-6 Well # 11-51 31-31N-6W NE/4	San Juan 32-7 Well # 6-17 17-31N-7W NE/4	Rosa Unit Well # 35-5X 5-31N-6W NE/SW/4
Deliverabilities	41 MCF	120 MCF	131 MCF	276 MCF	453 MCF	210 MCF	198 MCF
1960							
November	1167 MCF	1691 MCF	2701 MCF	3984 MCF	3072 MCF	1036 MCF	2314 MCF
December	551	1118	1789	2461	2997	2935	3008
1961							
January	602	1658	1710	2887	2392	2799	2376
February	832	1407	1047	2154	2788	2211	2060
March	1097	2267	1429	3055	3382	814	3783
April	1054	1295	1103	2662	2781	581	3666
May	1332	1727	1918	2067	2371	422	3532
June	1230	831	2152	4141	3067	402	3114
July	861	959	1765	3233	3192	4868	2224
August	1421	1385	2579	2373	2407	2762	2957
September	1285	1378	2324	2621	2329	4790	2605
October	1224	2194	3107	2877	3014		2346



OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

May 4, 1961

Blackwood and Nichols Company
500 Mid-America Bank Building
Oklahoma City 2, Oklahoma

Attention: Mr. W. N. Little

Re: Classification of Dakota Wells
Northeast Blanco Unit
San Juan and Rio Arriba Counties,
New Mexico

Gentlemen:

On the basis of data presented in your Geological and Engineering Memorandum dated March 16, 1961, the Oil Conservation Commission concurs with the determination that the wells listed below be classified as non-commercial in quality from the Dakota Zone.

Well No. 1-27	Sec. 27, T 31 N, R 7 W, NMFM
Well No. 55-22	Sec. 22, T 31 N, R 7 W, NMFM
Well No. 56-34	Sec. 34, T 31 N, R 7 W, NMFM
Well No. 57-21	Sec. 21, T 31 N, R 7 W, NMFM
Well No. 58-13	Sec. 13, T 31 N, R 7 W, NMFM

The Commission's approval being subject to like approval by the Oil and Gas Supervisor, U. S. Geological Survey, Roswell, New Mexico and the Commissioner of Public Lands.

Three approved copies of the application are returned herewith.

Very truly yours,

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

ALL/JEK/ig
Enclosures

cc: U. S. Geological Survey
Commissioner of Public Lands

ILLEGIBLE

April 11, 1961

Blackwood and Nichols Company
500 Mid-America Bank Building
Oklahoma City 2, Oklahoma

Re: Classification of Dakota Zone
Northeast Blanco Unit,
San Juan and Rio Arriba,
New Mexico

Attention: Mr. W. N. Little

Gentlemen:

We have received your request dated March 16, 1961, setting forth data pertaining to recommendation for classifying Dakota Zone producing wells in the Northeast Blanco Unit Area.

The Commissioner of Public Lands, on the basis of this data presented by you, concurs that the following wells be classified as non-commercial in quality from the Dakota Formation.

Well # 1-27 Sec. 27, T 31N, R 7W, San Juan County, N.M.
Well # 55-22 Sec. 22, T 31N, R 7W, San Juan County, N.M.
Well # 56-34 Sec. 34, T 31N, R 7W, San Juan County, N.M.
Well # 57-21 Sec. 21, T 31N, R 7W, San Juan County, N.M.
Well # 58-13 Sec. 13, T 31N, R 7W San Juan County, N.M.

The Commissioner's approval being subject to like approval by the Oil and Gas Supervisor, US Geological Survey, Roswell, New Mexico and the Oil Conservation Commission.

ILLEGIBLE

Blackwood and Nichols Company
Oklahoma City 2, Oklahoma

April 11, 1961
Page (2).

We are returning two approved copies of your application.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/mmr/s

cc: Oil Conservation Commission
Santa Fe, New Mexico

US Geological Survey
Roswell, New Mexico

ILLEGIBLE

Blackwood & Nichols Company

500 MID-AMERICA BANK BLDG. • OKLAHOMA CITY 2, OKLAHOMA

March 16, 1961

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

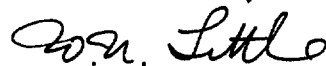
Re: Classification of Dakota Zone
Northeast Blanco Unit, 1-Sec. 929
San Juan and Rio Arriba Counties,
New Mexico

Gentlemen:

Blackwood and Nichols Company, as unit operator and on behalf of itself and all other owners of oil and gas leases in the Northeast Blanco Unit, hereby submits a recommendation for classifying Dakota Zone producing wells in the Northeast Blanco Unit Area, 1-Sec. 929, San Juan and Rio Arriba Counties, New Mexico. A similar request is being mailed today to the Commissioner of Public Lands, State of New Mexico, Santa Fe, New Mexico; and the Oil and Gas Supervisor, U. S. Geological Survey, Roswell, New Mexico.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY



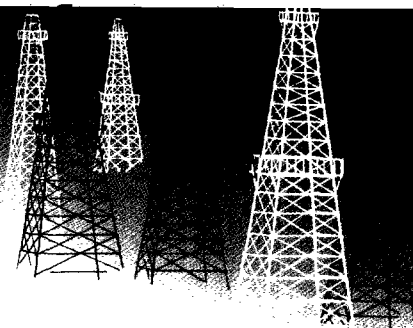
W. N. Little, Chairman
Northeast Blanco Unit
Advisory Committee

WNL:ak

Enclosures

Blackwood & Nichols Company

500 MID-AMERICA BANK BLDG. • OKLAHOMA CITY 2, OKLAHOMA



NORTHEAST BLANCO UNIT 1-SECTION NO. 929

SAN JUAN & RIO ARriba COUNTIES, NEW MEXICO

GEOLOGICAL & ENGINEERING MEMORANDUM

CONCERNING DAKOTA SANDSTONE

The first Dakota exploration on Northeast Blanco Unit property was drilled on lands covered by Lease #SF-079003, which covers all of Sections 22, 27, 34, and 35 Twp 31N, R 7W, NMPM. This first well was Northeast Blanco Unit well #1-27, located in the NE/4 Section 27, T 31N, R 7W.

Drilling Commenced 5/19/52. Drilling Completed 10/18/52.

13-3/8" casing was set @ 442' w/377 sacks cement.

8-5/8" casing was set @ 3854' w/600 sacks cement. Top cement 1615'.

5-1/2" casing was set @ 7932' w/200 sacks cement. Top cement 6915'.

Dakota Formation was encountered 7792' - 7985'. Zone was shot w/295 qts. nitroglycerin 7877' - 7995'. On initial test through open 2" well flowed 536 MCF/day. Total depth was 8101'. Well has a plugged back T.D. of 7985'. Analysis of Dakota gas is:

Methane	94.00%
Ethane	.47%
Carbon Dioxide	1.70%
Other non-combustibles	.50%

Northeast Blanco Unit Well #1-27 was classified non-commercial and produced at capacity as shown in a later table in this report. The well was reworked 6/3/58 through 6/10/58 by cementing a 4 1/2" OD Flush Joint liner 7638' to 7961' and perforating the liner 7812' to 7924'. The Dakota Zone was then water fraced with 55,000 gallons of water and 40,000 pounds of sand. The well has continued to produce as a non-commercial well since that time.

In 1958 owners of Lease #SF 079003 made arrangements with Participants in the Northeast Blanco Unit Mesaverde Participating Area to explore for Dakota gas in the NE/4 of Sections 22, and 34, T 31N, R 7W, while participants were developing their Mesaverde Reservoir on a joint venture basis by drilling Dual Dakota-Mesaverde wells #55-22 and #56-34.

In 1959 Dakota Interest Owners under the Northeast Blanco Unit Area and Participants in the Northeast Blanco Unit Mesaverde Participating Area with joint venture arrangements drilled Dual Dakota Mesaverde wells #57-21 and #58-13 in Sections 21 and 13, T 31N, R 7W. Again in 1960 the same 1959 joint venture arrangement tested Dakota possibilities under Mesaverde well #12-18 near the center of Section 18, T 30N, R 7W. Well #12-18 was treated with a 63,000 gallon water 35,000# sand frac 7590'

to 7776' and a 44,800 gallon water 42,500# sand frac 7338 to 7776', using 45 balls, after which Dakota Zone only tested 200,000 MCF per day, and was finally abandoned. Because of mechanical drilling troubles, we failed to reach Dakota objective at Dual effort well #59-24, located in the NE/4 of Section 24, T 31N, R 7W.

A summary of Dakota zone production history and well cost follows:

Well #59-24 started drilling 4/16/60. After 5/7/60 a bad fishing job occurred at a depth of 7900', just prior to encountering the Dakota horizon. Long efforts to fish junk from hole and whipstocking failed, and on 6/24/60, efforts to reach the Dakota horizon were abandoned. Well was completed as a Mesaverde producer on 7/2/60. \$9,337.31 was charged to the Dakota Participants on this effort. Prior to the time contractor was released of his obligation to reach the Dakota horizon, he had spent a large amount of money, which is not shown in this report.

Well #12-18 was completed as a Mesaverde producer on 10/7/53. During the period 4/22/60 to 6/12/60, the well was deepened to test the Dakota horizon, and since only small amounts of gas were encountered, the zone was plugged on 6/12/60. The cost to Dakota Participants was \$115,388.54.

Item	Well #1-27	Well #55-22	Well #56-34	Well #58-13	Well #57-21
Completed	8/28/52	9/26/58	11/17/58	11/3/59	9/18/59
Potential	536MCF	288MCF	2,839MCF	1,235MCF	2,461MCF
Deliv. Date	5/14/60	11/14/59	11/14/59		
Deliverability	420	84	372		
Well Cost	\$300,456.95	\$81,537.06	\$88,008.84	\$78,846.08	\$80,342.16

Summary #1-27 Production History Prior to 1959

Month	1954	1955	1956	1957	1958
1	--	6,307(31)	--	1400(4)	5424
2	--	5,086(27)	3,723(15)	5955(27)	3842
3	--	2,080(12)	6,911(31)	2872(12)	3748
4	--	--	5,763(30)	6310(30)	5379
5	--	--	5,951(31)	4939(23)	5073(31)
6	--	--	2,673(12)	1080(4)	18309(19)
7	--	--	3,328(16)	81(1)	22512(23)
8	--	--	688(3)	3871(14)	--
9	6986	--	725(2)	5149(22)	68(1)
10	5650	--	7,106(29)	5531(28)	13514(9)
11	6396	--	1,243(6)	4807(22)	5123(5)
12	5521	--	3,144(13)	5399(30)	2978(1)
Year Totals	24,553	13,473	41,255	47,394	85,970

All Dakota Wells' Production History

<u>1959</u>	<u>#1-27</u>	<u>#55-22</u>	<u>#56-34</u>	<u>#58-13</u>	<u>#57-21</u>
1	29,441(23)	--	--	--	--
2	22,610(28)	--	--	--	--
3	6,706(8)	--	--	--	--
4	17,136(15)	--	--	--	--
5	6,807(8)	--	--	--	--
6	301(1)	--	--	--	--
7	352(1)	--	--	--	--
8	9,849(5)	1,013(1)	7,337(9)	--	--
9	6,794(5)	782(7)	9,437(17)	--	--
10	26,827(31)	1,607(16)	8,642(16)	--	--
11	23,248(30)	1,574(15)	7,392(15)	--	--
12	23,236(31)	1,070(16)	Dual Leak	--	--
Year Totals	173,307	6,046	32,808		

<u>1960</u>	<u>#1-27</u>	<u>#55-22</u>	<u>#56-34</u>	<u>#58-13</u>	<u>#57-21</u>
1	17,259(29)	214(5)	0	0	0
2	15,886(24)	0	0	0	0
3	6,257(5)	0	0	0	0
4	15,758(15)	0	0	11,145(29)	13,306(24)
5	3,862(8)	0	0	3,295(13)	4,709(14)
6	15,442(15)	816(5)	10,722(29)	46(1)	94(1)
7	23,635(31)	2,238(31)	5,001(31)	5,716(14)	6,225(14)
8	19,333(30)	1,837(22)	4,551(22)	2,009(8)	8,241(22)
9	2,652(2)	1,882(30)	4,594(30)	763(1)	8,622(30)
10	512(1)	1,723(31)	4,422(31)	2,560(5)	6,923(24)
11	8,549(6)	1,843(30)	4,290(30)	6,335(24)	2,507(6)
12	15,922(20)	1,691(31)	3,459(30)	5,544(31)	10,051(31)
Year Totals	145,067	12,244	36,539	37,413	60,778

<u>1961</u>	<u>#1-27</u>	<u>#55-22</u>	<u>#56-34</u>	<u>#58-13</u>	<u>#57-21</u>
1	368(1)	1,753(30)	3,622(26)	3,626(13)	5,063(30)
Cumulative 1/31/61	531,019	20,043	72,969	64,404	42,476

Dakota Working Interest Owners have decided that with present completion methods, the Dakota Reservoir under the Northeast Blanco Unit is non-commercial in quality. It is doubtful under present conditions that any more joint interest wells will be agreed upon or attempted.

Only well #1-27 has fair production. The other wells are all definitely not commercial in quality. A Bottom Hole Pressure over Z factor, versus cumulative gas production relationship plotted on coordinate paper for Well #1-27, does not show a straight line. As estimated, extrapolation through the mean of these points indicates that Well #1-27 will produce 1,300 MCF down to a reservoir pressure of 600 psi, or 1,515 MCF down to a pressure of 250# psi. This would be an uncommerical amount of gas for an 8000' well to test the Dakota Formation. At least one stage of compression would be required to sell gas into present gathering systems in the case of the lower pressure.

To show the relative position of the Dakota Formation, a map is presented showing the Northeast Blanco Unit Area in the center of a 9 township area. This map is contoured on the top of the Dakota Formations at 50' intervals.

On the basis of the data available and presented to you in this report, we request the following wells be classified as non-commercial in quality from the Dakota Horizon, the top of which is located from 1294' to 1470' below sea level.

					<u>Lease #</u>
Well #1-27	Sec. 27, T	31N, R 7W,	San Juan County,	N.M.	SF 079003
Well #55-22	Sec. 22, T	31N, R 7W,	San Juan County,	N.M.	SF 079003
Well #56-34	Sec. 34, T	31N, R 7W,	San Juan County,	N.M.	SF 079003
Well #57-21	Sec. 21, T	31N, R 7W,	San Juan County,	N.M.	SF 079045
Well #58-13	Sec. 13, T	31N, R 7W,	San Juan County,	N.M.	NM 03358

This request is respectfully submitted for your approval in behalf of all operators of the Northeast Blanco Unit.

Yours very truly,

BLACKWOOD & NICHOLS COMPANY

W. N. Little

W. N. Little
Manager of Operations and
Chairman of N.E. Blanco Unit
Advisory Committee

WNL:ak

Approved *April May 5* 19 *61*

A. Q. Carter, Jr.
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION