

PAN AMERICAN PETROLEUM CORPORATION

SECURITY LIFE BUILDING

DENVER, COLORADO 80202

PRODUCING DEPARTMENT
H. T. HUNTER
DIVISION PRODUCTION
MANAGER

DISTRICT SUPERINTENDENTS

W. M. JONES
A. E. PIPER
T. M. CURTIS

JOINT INTEREST
SUPERINTENDENT
S. B. RICHARDS

March 6, 1968

File: TMC-86-416

Re: 1968 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
The State of New Mexico
State Land Office Building
Santa Fe, New Mexico 87501

Oil Conservation Commission of
The State of New Mexico (3)
P. O. Box 2088
Santa Fe, New Mexico 87501

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

In compliance with Section 10 of the Northeast Hogback Unit Agreement, designated No. 14-08-001-6674, dated December 18, 1959, Pan American Petroleum Corporation respectfully submits the 1968 Plan of Development.

History of Development - A total of 47 wells have been drilled in the Northeast Hogback Unit. Of these, 32 are Gallup producers, 12 are water injection wells and 3 are dry holes which have been abandoned.

Proposed Additional Wells - It is planned that no additional wells will be drilled during 1968. The Pressure Maintenance Project initiated in March 1962 will continue in operation in the Gallup Participating Area.

Modifications - This plan is dependent upon certain information to be obtained from unit operations, and therefore, it may be modified from time to time to meet changing conditions.

Effective Date - This Plan of Development shall be effective January 1, 1968, through December 31, 1968.

Yours very truly,



Attachments

68 APR 3 AM 8 32

APPROVED: _____

Director, United States Geological Survey
(Subject to like approval by appropriate
State Officials)

DATE: _____

3-29-68

APPROVED: _____

Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

DATE: _____

3-14-68

APPROVED: _____

Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commission of Public Lands)

DATE: _____

3-18-68

ADDRESSEE LIST

Mr. J. R. Abraham
5517 Willow Lane
Dallas, Texas 75230

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona 85252

Colorado Oil Company
P. O. Box 749
Denver, Colorado 80201
Attention: Mr. C. E. Titus

El Paso Products Company
P. O. Box 3986
Midland, Texas 79701
Attention: Mr. R. L. Hamblin

Mr. R. L. Harper
Waterflow
New Mexico 87421

Northwest Production Corporation
P. O. Box 1796
El Paso, Texas 79999

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico 87103

Southern Petroleum Exploration, Inc. (2)
Sistersville
West Virginia 26175

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

1769

April 27, 1967

C
O
P
Y
Pan American Petroleum Corporation
Security Life Building
Denver, Colorado 80202

Attention: Mr. T. M. Curtis

Re: 1967 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1967 Plan of Development dated February 13, 1967 for the Northeast Hogback Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/ir
Enclosures

cc: Commissioner of Public Lands - Santa Fe, New Mexico
U. S. Geological Survey - Roswell, New Mexico



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

April 25, 1967

Pan American Petroleum Corporation
Security Life Building
Denver, Colorado 80202

Attention: Mr. T. M. Curtis

Gentlemen:

Your 1967 plan of development dated February 13, 1967, for the Northeast Hogback unit area, San Juan County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

Three approved copies of the plan are enclosed.

Sincerely yours,

(Orig. Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting 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)

State of New Mexico



Commissioner of Public Lands



April 28, 1967

GUYTON B. HAYS
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: Northeast Hogback Unit
San Juan County, New Mexico
1967 Plan of Development

ATTENTION: Mr. T. M. Curtis

Gentlemen:

The Commissioner of Public Lands has this date approved your 1967 Plan of Development for the Northeast Hogback Unit, San Juan County, New Mexico, proposing the drilling of no additional wells.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies of the plan and returning one copy for your files.

Very truly yours,

GUYTON B. HAYS

COMMISSIONER OF PUBLIC LANDS

BY:

(Mr.) Eddie Lopez, Supervisor
Unit Division

GBH/TB/EL/s

encl. 1.

cc: USGS-Roswell, New Mexico
OCC-Santa Fe, New Mexico

1967 May 1 AM 8 19

PAN AMERICAN PETROLEUM CORPORATION

SECURITY LIFE BUILDING

DENVER, COLORADO 80202

PRODUCING DEPARTMENT
H. T. HUNTER
DIVISION PRODUCTION
MANAGER

DISTRICT SUPERINTENDENTS
W. M. JONES
A. E. PIPER
T. M. CURTIS
JOINT INTEREST
SUPERINTENDENT
S. B. RICHARDS

February 13, 1967

File: TMC-74-416

RE: 1967 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands
The State of New Mexico
State Land Office Building
Santa Fe, New Mexico

Oil Conservation Commission of
The State of New Mexico (3)
P. O. Box 2088
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

In compliance with Section 10 of the Northeast Hogback Unit Agreement, designated No. 14-08-001-6674, dated December 18, 1959, Pan American Petroleum Corporation respectfully submits the 1967 Plan of Development.

History of Development - A total of 47 wells have been drilled in the Northeast Hogback Unit. Of these, 32 are Gallup producers, 12 are water injection wells and 3 are dry holes which have been abandoned.

Proposed Additional Wells - It is planned that no additional wells will be drilled during 1967. The Pressure Maintenance Project initiated in March 1962 will continue in operation in the Gallup Participating Area.

Modifications - This plan is dependent upon certain information to be obtained from unit operations, and therefore, it may be modified from time to time to meet changing conditions.

Effective Date - This Plan of Development shall be effective January 1, 1967 through December 31, 1967.

Yours very truly,



Attachments

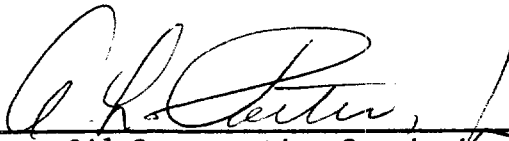
TMC-74-416

Page 2

February 13, 1967

APPROVED: _____ DATE: _____
Director, United States Geological Survey
(Subject to like approval by appropriate
State Officials)

APPROVED: _____ DATE: _____
Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

APPROVED:  _____ DATE: April 27, 1967
Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commission of Public Lands)

ADDRESSEE LIST

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil Company
P. O. Box 749
Denver, Colorado
ATTN: Mr. C. E. Titus

El Paso Products Company
P. O. Box 3986
Midland, Texas
ATTN: Mr. R. L. Hamblin

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

MAIN OFFICE OCC

Denver 1897
Boswell, New Mexico 88201

MAR 3 PM 1:19

March 1, 1966

1761
Pan American Petroleum Corporation
Security Life Building
Denver, Colorado 80202

Attention: Mr. T. M. Curtis

Gentlemen:

Your 1966 plan of development dated February 3, 1966, for the Northeast Hugback unit area, San Juan County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

Three approved copies of the plan are 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)

N.M.O.C.C. - Santa Fe (w/ltr. only) ✓

Com. of Pub. Lands - Santa Fe (w/ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

1769

February 24, 1966

C
O
P
Y

Pan American Petroleum Corporation
Security Life Building
Denver, Colorado 80202

Attention: Mr. T. M. Curtis

Re: 1966 Plan of Development,
Northeast Hogback Unit,
San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1966 Plan of Development for the Northeast Hogback Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the plan are returned herewith.

Very truly yours,

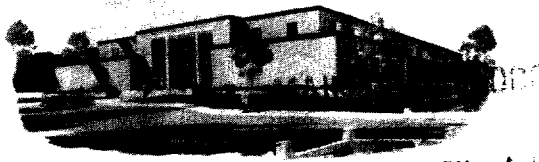
A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

U. S. Geological Survey
Roswell, New Mexico

State of New Mexico



FEB 22 PM 1 41

Commissioner of Public Lands



GUYTON B. HAYS
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

FEBRUARY 21, 1966

Pan American Petroleum Corporation
Security Life Building
Denver, Colorado

Re: Northeast-Hogback Unit
San Juan County, New Mexico

ATTENTION: Mr. T. M. Curtis

Gentlemen:

The Commissioner of Public Lands approves as of this date the 1966 Plan of Development for the Northeast Hogback Unit, subject to like approval by the United States Geological Survey.

We are returning one approved copy of this Plan.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

GBH/TB/MB/s

cc: Oil Conservation Commission
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

PAN OFFICE 000

SECURITY LIFE BUILDING

DENVER, COLORADO 80202

PRODUCING DEPARTMENT
H. T. HUNTER
DIVISION PRODUCTION
MANAGER

FEB 11 AM

DISTRICT SUPERINTENDENTS
05
W. M. JONES
A. E. PIPER
T. M. CURTIS

February 3, 1966

File: TMC-48-416

Re: 1966 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands
The State of New Mexico
State Land Office Building
Santa Fe, New Mexico

Oil Conservation Commission of
The State of New Mexico (3)
P. O. Box 2088
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

In compliance with Section 10 of the Northeast Hogback Unit Agreement, designated No.14-08-001-6674, dated December 18, 1959, Pan American Petroleum Corporation respectfully submits the 1966 Plan of Development.

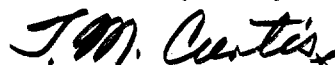
History of Development - A total of 47 wells have been drilled in the Northeast Hogback Unit. Of these, 32 are Gallup producer, 12 are water injection wells and 3 are dry holes which have been abandoned.

Proposed Additional Wells - It is planned that no additional wells will be drilled during 1966. The Pressure Maintenance Project initiated in March 1962 will continue in operation in the Gallup Participating Area.

Modifications - This plan is dependent upon certain information to be obtained from unit operations and, therefore, it may be modified from time to time to meet changing conditions.

Effective Date - This Plan of Development shall be effective January 1, 1966 through December 31, 1966.

Yours very truly,



T. M. Curtis

Attachments

Page 2

File: TMC-48-416

APPROVED: _____ DATE: _____
Director, United States Geological Survey
(Subject to like approval by appropriate
State Officials)

APPROVED: _____ DATE: _____
Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

APPROVED: *A. H. Kite* DATE: *Feb 24, 1966*
Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commission of Public Lands)

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 1819
Colorado Springs, Colorado 80901
Attn: Mr. F. W. Heiser

El Paso Natural Gas Products Company
P. O. Box 3986
Midland, Texas
Attn: Mr. R. L. Hamblin

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

Drawer 1857
Roswell, New Mexico 88201

March 30, 1965

1761

Pan American Petroleum Corp.
P. O. Box 480
Farmington, New Mexico

Attention: Mr. T. H. Curtis

Gentlemen:

Your 1965 plan of development dated December 29, 1964, for the Northeast Hogback unit area, San Juan County, New Mexico, proposing no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Three approved copies of the plan are 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)
NMOC, Santa Fe (ltr only) ✓
Com. of Public Lands, Santa Fe, (ltr only)

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
April 5, 1965

File: N-222-416

Subject: 1965 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
State Land Office Building
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

The 1965 Plan of Development for the Northeast Hogback Unit, San Juan County, New Mexico, has been approved by the regulatory bodies on the following dates:

Director
United States Geological Survey

March 30, 1965

New Mexico
Oil Conservation Commission

March 5, 1965

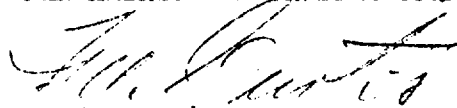
Commissioner of Public Lands
State of New Mexico

(Copies received and noted. No approval necessary; all State land eliminated from Unit effective 1-1-65.)

This Plan of Development was effective January 1, 1965 through December 31, 1965.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis
District Production Superintendent

CKD:en
Attach.

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 1819
Colorado Springs, Colorado 80901
Attn: Mr. F. W. Heiser

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Charles Higgins

El Paso Natural Gas Products Company
P. O. Box 3986
Odessa, Texas 79760
Attn: Mr. M. L. Ayers

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

1769

March 5, 1965

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Attention: Mr. T. M. Curtis

Re: 1965 Plan of Development,
Northeast Hogback Unit,
San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1965 Plan of Development for the Northeast Hogback Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey.

Two approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JMK/eq

cc: U. S. Geological Survey - Roswell

C
O
P
Y

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

March 5, 1965

C
O
P
Y

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Attention: Mr. T. M. Curtis

Re: 1965 Plan of Development,
Northeast Hogback Unit,
San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1965 Plan of Development for the Northeast Hogback Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey.

Two approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: U. S. Geological Survey - Roswell

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
December 29, 1964

File: N-837-416

Subject: 1965 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
State Land Office Building
Santa Fe, New Mexico

Oil Conservation Commission of (3) ✓
The State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

In compliance with Section 10 of the Northeast Hogback Unit Agreement, designated No. 14-08-001-6674, dated December 18, 1959, Pan American Petroleum Corporation respectfully submits the 1965 Plan of Development.

History of Development - A total of 47 wells have been drilled in the Northeast Hogback Unit. Of these, 32 are Gallup producer, 12 are water injection wells and 3 are dry holes which have been abandoned.


Proposed Additional Wells - It is planned that no additional wells will be drilled during 1965. The Pressure Maintenance Project initiated in March 1962 will continue in operation in the Gallup Participating Area.

Modifications - This plan is dependent upon certain information to be obtained from unit operations and, therefore, it may be modified from time to time to meet changing conditions.

Effective Date - This Plan of Development shall be effective January 1, 1965 through December 31, 1965.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis
District Superintendent

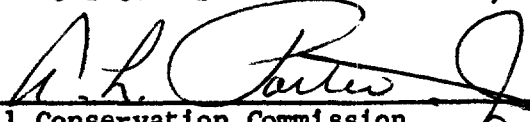
CKD:en
Attach.

Page 2
U. S. Geological Survey
Oil Conservation Commission
Commissioner of Public Lands
All Working Interest Owners

December 29, 1964
File: N-837-416
Subject: 1965 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

APPROVED: _____ DATE: _____
Director, United States Geological Survey
(Subject to like approval by appropriate
State Officials)

APPROVED: _____ DATE: _____
Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

APPROVED:  _____ DATE: 3-5-65
Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commissioner of Public Lands)

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 1819
Colorado Springs, Colorado 80901
Attn: Mr. F. W. Heiser

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Charles Higgins

El Paso Natural Gas Products Company
P. O. Box 3986
Odessa, Texas 79760
Attn: Mr. M. L. Ayers

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

IN REPLY REFER TO:

FEB 10 1965

FEB 15 1965

Pan American Petroleum Corporation
P. O. Box 1410
Fort Worth, Texas 76101

Attention: Mr. Bruce A. Landis, Jr.

Gentlemen:

By letter of January 8 filed with the Regional Oil and Gas Supervisor, Roswell, New Mexico, you furnished a list of lands automatically eliminated as of January 1, 1965, from the Northeast Hogback unit agreement, No. 14-68-001-6674, San Juan County, New Mexico, pursuant to Section 2(e) of the agreement.

The area you describe as so eliminated is acceptable with the following correction:

Lot 1 and the NE 1/4 sec. 15, T. 30 N., R. 16 W., N.M.P.M., which are omitted lands within the Gallup participating area, are not subject to automatic elimination. Accordingly, with the elimination of 9013.30 acres, the unit has been reduced to the participating area of 2355.60 acres.

Copies of your notice and the list of lands affected by automatic elimination with the above correction are being distributed to the appropriate Federal offices. You should notify all parties in interest after the Commissioner of Public Lands of the State of New Mexico has accepted the corrected list of land.

Revised Exhibits A and B for the unit agreement should be filed with the Oil and Gas Supervisor, Roswell, New Mexico, to reflect the change in unit area, retaining existing tract numbers and showing current ownership for the leases surviving automatic elimination.

Sincerely yours,

Arthur A. Baker

Acting Director

cc: NMOCC, Santa Fe (ltr. only)

MAILED
JAN 15 1965
174

January 14, 1965

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Re: Northeast Hogback Unit
San Juan County, New Mexico
1965 Plan of Development

Attention: Mr. T. M. Curtis

Gentlemen:

Effective January 1, 1965, all non-participating acreage was eliminated from the Northeast Hogback Unit. This elimination includes all State of New Mexico acreage.

Therefore, since the State has no further interest in the Unit it will not be necessary for the Commissioner of Public Lands to approve the Plan of Development.

We are returning two copies of the 1965 Plan of Development unapproved.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
(Mr.) Ted Bilberry, Director
Oil & Gas Department

GBH/mmr/v

cc: United States Geological Survey
Roswell, New Mexico

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

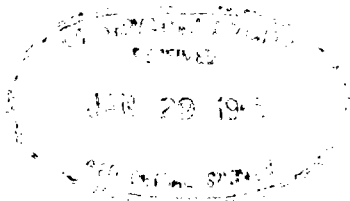
OIL AND GAS BUILDING P. O. BOX 1410

FORT WORTH, TEXAS—76101
January 8, 1965

PRODUCING DEPARTMENT
BRUCE A. LANDIS, JR.
DIVISION UNITIZATION
SUPERINTENDENT

File: BAL-112-416

Subject: Northeast Hogback Unit
San Juan County, New Mexico
No. 14-08-001-6674



The Director
United States Geological Survey
Washington 25, D. C.

Through: Mr. John A. Anderson (6)
Regional Oil and Gas Supervisor
Drawer 1857
Roswell, New Mexico

Commissioner of Public Lands (2)
State of New Mexico
Santa Fe, New Mexico

RECEIVED
JAN 11 1965
U.S. GEOLOGICAL SURVEY
WASHINGTON

Gentlemen:

The initial participating area established under the Unit Agreement for the Development and Operation of the Northeast Hogback Unit Area, County of San Juan, State of New Mexico, became effective on December 18, 1959. By the terms of Section 2 (e) of the Unit Agreement all legal subdivisions of unitized lands not within a participating area on January 1, 1965, were eliminated automatically from the Unit Agreement.

Pan American Petroleum Corporation, as Unit Operator, is required by the provisions of Section 2 (e) of the Unit Agreement within ninety days after the effective date of such elimination to describe the area eliminated from the Unit Agreement to your satisfaction. Accordingly, we have prepared and are attaching hereto a Schedule of Lands in which the area so eliminated from the Unit Agreement is described.

Your approval of the area described in the attached Schedule of Lands as constituting the area eliminated from the Unit Agreement is respectfully requested.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

By: Bruce A. Landis, Jr.
BRUCE A. LANDIS, JR.

LLM/ml
Attachment

Page 2
BAL-112-416
January 8, 1965

APPROVED, this _____ day of _____,
1965.

COMMISSIONER OF PUBLIC LANDS

By: _____

APPROVED, this _____ day of _____,
1965.

DIRECTOR OF THE UNITED STATES GEOLOGICAL SURVEY

By: _____

NORTHEAST HOGBACK UNIT
SCHEDULE OF LANDS TO BE ELIMINATED FROM THE UNIT AGREEMENT
UNDER SECTION 2 (e) OF UNIT AGREEMENT
EFFECTIVE JANUARY 1, 1965

<u>LAND DESCRIPTION</u>	<u>NO. OF ACRES</u>	<u>TRACTS AFFECTED</u>	<u>TYPE OF LAND</u>
<u>All in T-30-N, R-16-W, San Juan County, New Mexico</u>			
Section 11: N/2 NE/4 and SE/4 NE/4	120.00	120 acres out of Tract 20	United States of America
Section 12: N/2, SE/4, and E/2 SW/4	560.00	440 acres out of Tract 18 and 120 acres out of Tract 20	USA
Section 13: NE/4, E/2 NW/4, and E/2 SE/4	320.00	120 acres out of Tract 19 and 200 acres out of Tract 21	USA
Section 14: S/2 SW/4	80.00	80 acres out of Tract 7	USA
Section 15: SE/4, E/2 W/2, and Lots 1, 2, 3, and 4	474.16	434.16 acres out of Tract 11 and 40 acres out of Tract 14	USA
Section 16: SE/4, E/2 SW/4, and Lots 3 and 4	279.08	All of Tract 25, All of Tract 26, and 40 acres out of Tract 22	State of New Mexico
Section 21: Lots 1 through 16, inclusive	543.18	All of Tract 34	USA
Section 22: All	640.00	All of Tract 9, 160 acres out of Tract 14, and 160 acres out of Tract 11	USA

<u>LAND DESCRIPTION</u>	<u>NO. OF ACRES</u>	<u>TRACTS AFFECTED</u>	<u>TYPE OF LAND</u>
Section 23: S/2, NW/4, S/2 NE/4, and NW/4 NE/4	600.00	600 acres out of Tract 13	USA
Section 24: S/2, S/2 N/2, and NE/4 NE/4	520.00	240 acres out of Tract 1, 240 acres out of Tract 7, and 40 acres out of Tract 13	USA
Section 25: All	640.00	320 acres out of Tract 1 and 320 acres out of Tract 13	USA
Section 26: All	640.00	640 acres out of Tract 3	USA
Section 27: All	640.00	320 acres out of Tract 3 and all of Tract 2	USA
Section 28: Lots 1 through 16, inclusive	559.14	All of Tract 8, All of Tract 10, and All of Tract 12	USA
Section 33: NE/4, E/2 NW/4, N/2 SE/4, NE/4 SW/4, and Lots 1 through 7, inclusive	556.30	All of Tract 4 All of Tract 5 All of Tract 5A	USA
Section 34: All	640.00	640 acres out of Tract 3	USA
Section 35: NW/4, N/2 NE/4, SW/4 NE/4, N/2 SW/4, and SW/4 SW/4	400.00	400 acres out of Tract 3	USA
Section 35: SE/4 NE/4, SE/4, and SE/4 SW/4	240.00	All of Tract 30, All of Tract 31, All of Tract 32, All of Tract 33	Patented

<u>LAND DESCRIPTION</u>	<u>NO. OF ACRES</u>	<u>TRACTS AFFECTED</u>	<u>TYPE OF LAND</u>
Section 36: N/2	320.00	All of Tract 23, All of Tract 24 40 acres out of Tract 22	State of New Mexico
Section 36: S/2	320.00	All of Tract 27, All of Tract 28, All of Tract 29	Patented

Total Acres:

~~9091.86~~

901330

Acreage Eliminated:

Federal
State of New Mexico
Patented

~~7932.78~~ Acres
599.08 Acres
560.00 Acres

1769

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico

April 14, 1964

File: N-250-416

Subject: 1964 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Supervisor (6)
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
P. O. Box 791
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

All Working Interest Owners
Northeast Hogback Unit
(See Attached Addressee List)

Gentlemen:

The 1964 Plan of Development for the Northeast Hogback Unit submitted by our letter of December 19, 1963, to the regulatory bodies has received official approval on the following dates:

Supervisor
United States Geological Survey

March 12, 1964

Commissioner of Public Lands
The State of New Mexico

March 6, 1964


Oil Conservation Commission
The State of New Mexico

April 8, 1964

This Plan shall be effective January 1, 1964 through December 31, 1964.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis
District Superintendent

CKD:en

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 749
Denver, Colorado
Attn: Mr. F. W. Heiser

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Charles Higgins

El Paso Natural Gas Products Company
P. O. Box 1492
El Paso, Texas
Attn: Mr. M. L. Ayers

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

1769

April 8, 1964

C
O
P
Y

Pan American Petroleum Corporation
P.O. Box 480
Farmington, New Mexico

Attention: Mr. T. M. Curtis

Re: 1964 Plan of Development
Northeast Hogback Unit
San Juan County,
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 Hogback Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the plan are returned herewith.

Very truly yours,

A. L. Porter, Jr.
Secretary-Director

ALF:JEK:ag

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Newell

MAIN OFFICE OCC

Drawer 1857
Roswell, New Mexico 88201

1964 MAR 13 AM 8:21

March 12, 1964

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Attention: Mr. T. Curtis

Gentlemen:

Your 1964 plan of development dated December 19, 1963, for the Northeast Hogback unit agreement, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Three approved copies of the plan are enclosed.

Sincerely yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:
Washington (w/cy of plan)
Farmington (w/cy of plan)
NMOCG-Santa Fe (ltr. only) ✓
Com. of Pub. Lands-Santa Fe (ltr. only)

MAIN OFFICE OCC
1964 MAR 11 AM 8:39

March 6, 1964

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Re: Northeast Hogback Unit
San Juan County, New Mexico
1964 Plan of Development

Attention: Mr. T. M. Curtis

Gentlemen:

The Commissioner of Public Lands approved as of March 6, 1964, your 1964 Plan of Development for the Northeast Hogback Unit Area, San Juan County, New Mexico.

This Plan covers the period January 1, 1964 to December 31, 1964 and calls for no additional wells to be drilled during this period.

We are returning one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESW/mmr/v
cc: Oil Conservation Commission

United States Geological Survey
Roswell, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico

December 19, 1963

File: N-894-416

Subject: 1964 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

In compliance with Section 10 of the Northeast Hogback Unit Agreement, designated No. 14-08-001-6674, dated December 18, 1959, Pan American Petroleum Corporation respectfully submits the 1964 Plan of Development.

History of Development - A total of 47 wells have been drilled in the Northeast Hogback Unit. Of these, 28 are Gallup producers, 16 are water injection wells and 3 are dry holes which have been abandoned.

Proposed Additional Wells - It is planned that no additional wells will be drilled during 1964. The Pressure Maintenance Project initiated in March 1962 will continue in operation in the Gallup Participating Area.

Modifications - This plan is dependent upon certain information to be obtained from unit operations and, therefore, it may be modified from time to time to meet changing conditions.

Effective Date - This Plan of Development shall be effective January 1, 1964 through December 31, 1964.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis
District Superintendant

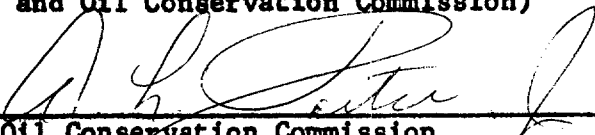
CKD:en
Attach.

Page 2
U. S. Geological Survey
Commissioner of Public Lands

December 19, 1963
File: N-894-416.
Subject: 1964 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

APPROVED: _____ DATE: _____
Director, United States Geological Survey
(Subject to like approval by appropriate
State Officials)

APPROVED: _____ DATE: _____
Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

APPROVED:  _____ DATE: 4-8-64
Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commissioner of Public Lands)

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 749
Denver, Colorado
Attn: Mr. F. W. Heiser

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Charles Higgins

El Paso Natural Gas Products Company
P. O. Box 1492
El Paso, Texas
Attn: Mr. M. L. Ayers

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
351 Myrtle
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

1769

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
March 1, 1963

File: N-166-416

Subject: 1963 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
c/o Oil and Gas Supervisor
P. O. Drawer 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

All Working Interest Owners
Northeast Hogback Unit
(See Attached Addressee List)

Gentlemen:

The 1963 Plan of Development for the Northeast Hogback Unit filed with the regulatory bodies December 18, 1962, has been approved on the following dates:

Director United States Geological Survey	February 11, 1963
---	-------------------

Commissioner of Public Lands State of New Mexico	February 15, 1963
---	-------------------

New Mexico Oil Conservation Commission	February 25, 1963
---	-------------------

This Plan of Development shall be effective from January 1, 1963 through December 31, 1963.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis
District Superintendent

CKD:en
Attach.

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 749
Denver, Colorado
Attn: Mr. F. W. Heiser

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Harry Gevertz

El Paso Natural Gas Products Company
P. O. Box 1492
El Paso, Texas
Attn: Mr. M. L. Ayers

~~Gulf Oil Corporation (2)~~
~~P. O. Box 2097~~
~~Denver, Colorado~~

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
351 Myrtle
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

OIL CONSERVATION COMMISSION

**P. O. BOX 871
SANTA FE, NEW MEXICO**

1769

February 25, 1963

**Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico**

Attention: Mr. T. M. Curtis

**Re: 1963 Plan of Development
Northeast Hogback Unit,
San Juan County, 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 Northeast Hogback Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JHK/ig

**cc: Commissioner of Public Lands
Santa Fe, New Mexico
United States Geological Survey
Roswell, New Mexico**

C
O
P
Y

MAIN OFFICE OCC
1963 FEB 15 PM 4 32

February 15, 1963

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Re: Northeast Hogback Unit
San Juan County, New
Mexico 1963 Plan of
Development

Attention Mr. T. M. Curtis

Gentlemen:

The Commissioner of Public Lands has approved as of February 15, 1963, the 1963 Plan of Development for the Northeast Hogback Unit Area, San Juan County, New Mexico subject to like approval by the United States Geological Survey.

This approved plan proposes the continuation of the pressure maintenance project and the drilling of no additional wells .

We are returning one copy of the approved plan.

Very truly yours,

E. S. Johnny Walker
COMMISSIONER OF PUBLIC

BY:
(Mrs.) Marian M. Shea
Supervisor, Unit Division

ESW/maz/e
encl:
cc:

United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

MAIN OFFICE OCC

1963 FEB 13 PM 1:20

Drawer 1857

Albuquerque, New Mexico

February 11, 1963

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Attention: Mr. T. M. Curtis

Gentlemen:

Your 1963 plan of development for the Northeast Hogbeck unit area, San Juan County, New Mexico, proposing the continuation of the Gallup pressure maintenance project and the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Three approved copies of the plan are enclosed.

Very truly yours,

JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)
Farmington (w/cy of plan)
BBOC C-Santa Fe (ltr. only) ✓
Com. of Pub. Lands-Santa Fe (ltr. only)

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
December 18, 1962

File: N-1512-416

Subject: 1963 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

In compliance with Section 10 of the Northeast Hogback Unit Agreement, designated No. 14-08-001-6674, dated December 18, 1959, Pan American Petroleum Corporation respectfully submits the 1963 Plan of Development.

History of Development - A total of 47 wells have been drilled in the Northeast Hogback Unit. Of these, 33 are Gallup producers, 11 are water injection wells and 3 are dry holes which have been abandoned.


Proposed Additional Wells - It is planned that no additional wells will be drilled during 1963. The Pressure Maintenance Project initiated in March 1962 will continue in operation in the Gallup Participating Area.

Modifications - This plan is dependent upon certain information to be obtained from unit operations and, therefore, it may be modified from time to time to meet changing conditions.

Effective Date - This Plan of Development shall be effective January 1, 1963 through December 31, 1963.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis
District Superintendent

CKD:en
Attach.

Page 2


U. S. Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
All Working Interest Owners

December 18, 1962

File: N-1512-416
Subject: 1963 Plan of Development
Northeast Hogback Unit
San Juan County, New Mexico

APPROVED: _____ DATE: _____
Director, United States Geological Survey
(Subject to like approval by appropriate
State Officials)

APPROVED: _____ DATE: _____
Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

APPROVED:  _____ DATE: 2-25-63
Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commissioner of Public Lands)

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
814 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 749
Denver, Colorado
Attn: Mr. F. W. Heiser

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Harry Gevertz

El Paso Natural Gas Products Company
P. O. Box 1492
El Paso, Texas
Attn: Mr. M. L. Ayers

Gulf Oil Corporation (2)
P. O. Box 2097
Denver, Colorado

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
351 Myrtle
P. O. Box 1796
El Paso, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

1769

PAN AMERICAN PETROLEUM CORPORATION

1962 APR 18 PM 11 32

P. O. Box 480, Farmington, New Mexico
April 18, 1962

File: N-360-993.3

Subject: Northeast Hogback Unit
Revised Ownership Schedule

Director (6)
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)


Gentlemen:

Attached is a Revised Ownership Schedule for the Northeast Hogback Unit showing participation percentages effective July 1, 1961, applicable to the Second Enlargement to the Gallup Participating Area.

This revised schedule was occasioned by the subsequent joinder of Tract Nos. 15 and 39 by J. R. Abraham and Tract No. 20-A by El Paso Natural Gas Products to the Unit Agreement.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis
District Superintendent

CKD:en

Attachments

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

Mr. J. R. Abraham
841 Mercantile Bank Building
Dallas, Texas

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

Colorado Oil and Gas Corporation
P. O. Box 749
Denver, Colorado
Attn: Mr. F. W. Heiser

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Harry Gevertz

El Paso Natural Gas Products Company
P. O. Box 1492
El Paso, Texas
Attn: Mr. M. L. Ayers

Gulf Oil Corporation (2)
P. O. Box 2097
Denver, Colorado

Mr. R. L. Harper
Waterflow, New Mexico

Northwest Production Corporation
520 Simms Building
Albuquerque, New Mexico

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

REVISED OWNERSHIP SCHEDULE
SECOND ENLARGEMENT TO THE GALLUP PARTICIPATING AREA
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO
EFFECTIVE JULY 1, 1961

Tract No.	Description of Land	Serial No. & Date of Lease	Basic Royalty		Owner of Record	Overrides & Production Payments %	Working Interest		Acres	Percent Participation
			Owner	% of 8/8			Owner	% of Lease		
6	NW/4 Sec. 14, T-30N, R-16W	NM-04407 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	160.00	7.28730
7	N/2 SW/4 and SE/4 Sec. 14, T-30N, R-16W	NM-04407-A 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	4.00	Pan American Pet- roleum Corporation	100	240.00	10.93095
7	N/2 NW/4 Sec. 24, T-30N, R-16W	NM-04407-A 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	4.00	Pan American Pet- roleum Corporation	100	80.00	3.64365
11	Lot 1, SW/4 NE/4, NE/4 NW/4, NW/4 NE/4 Sec. 15, T-30N, R-16W	NM-04443 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	158.56	7.22172
13	NE/4 NE/4 Sec. 23, T-30N, R-16W	NM-04443-B 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	40.00	1.82182
13	NW/4 NE/4 Sec. 24, T-30N, R-16W	NM-04443-B 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	40.00	1.82182
15	W/2 NE/4 Sec. 14, T-30N, R-16W	NM-04444	USA	12.50	J. R. Abraham	3.00	J. R. Abraham	100	80.00	3.64365
16	S/2 SW/4 Sec. 13, T-30N, R-16W	NM-05859 8-1-51	USA	12.50	Pan American Pet- roleum Corporation	3.00	Pan American Pet- roleum Corporation	100	80.00	3.64365

OWNERSHIP SCHEDULE (CONT'D)

Page 2

Tract No.	Description of Land	Serial No. & Date of Lease	Basic Royalty		Owner of Record	Overrides & Production Payments %	Working Interest		Acres	Percent Participation
			Owner	% of 8/8			Owner	% of Lease		
17	E/2 NE/4 Sec. 15, T-30N, R-16W	NM-06686 3-1-55	USA	12.50	Pan American Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	80.00	3.64365
18	NW/4 SW/4, Sec. 12, T-30N, R-16W	SF-081298 10-1-51	USA	12.50	El Paso Natural Gas Products Co.	4.00	El Paso Natural Gas Products Co. Colorado Oil & Gas Corporation	50	(40.00)	0.00000
19	NW/4 SE/4 Sec. 13, T-30N, R-16W	SF-081298-A 10-1-51	USA	12.50	Pan American Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	40.00	1.82182
20	SW/4 NE/4, NE/4 SE/4 Sec. 11, T-30N, R-16W	SF-081299 10-1-51	USA	12.50	El Paso Natural Gas Products Co.	4.00	El Paso Natural Gas Products Co. Colorado Oil & Gas Corporation	50	(80.00)	0.00000
20	SW/4 SW/4 Sec. 12, T-30N, R-16W	SF-081299 10-1-51	USA	12.50	El Paso Natural Gas Products Co.	4.00	El Paso Natural Gas Products Co. Colorado Oil & Gas Corporation	50	(40.00)	0.00000
20-A	NW/4 SE/4, S/2 SE/4 Sec. 11, T-30N, R-16W	SF-081299 10-1-51	USA	12.50	El Paso Natural Gas Products Co.	4.00	El Paso Natural Gas Products Co. Colorado Oil & Gas Corporation	50	120.00	5.46548
21-A	SW/4 SE/4 Sec. 13 T-30N, R-16W	SF-081299-A 10-1-51	USA	12.50	Pan American Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	40.00	1.82183
21-B	SW/4 NW/4, N/2 SW/4 Sec. 13, T-30N, R-16W	SF-081299-A 10-1-51	USA	12.50	Pan American Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	120.00	5.46548

OWNERSHIP SCHEDULE (CONT'D)

Page 3

Tract No.	Description of Land	Serial No. & Date of Lease	Basic Royalty		Owner of Record	Overrides & Production Payments %	Working Interest		Acres	Percent Participation
			Owner	% of 8/8			Owner	% of Lease		
21-C	NW/4 NW/4 Sec. 13, T-30N, R-16W E/2 NE/4 Sec. 14, T-30N, R-16W	SF-081299-A 10-1-51	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	120.00	5.46548
35	NE/4 Sec. 10, T-30N, R-16W	NM-077281 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	160.00	7.28730
35	Lot 3, Lot 4, E/2 SW/4 Sec. 10, T-30N, R-16W	NM-077281 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	157.04	7.15249
36	NW/4, N/2 SW/4, SW/4 SW/4 Sec. 11, T-30N, R-16W	NM-077282 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	280.00	12.75278
37	SE/4 SW/4 Sec. 11, T-30N, R-16W	NM-077283 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	40.00	1.82183
38	S/2 SE/4, Sec. 10, T-30N, R-16W	NM-077284 3-1-55	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	80.00	3.64365
39	N/2 SE/4, Sec. 10, T-30N, R-16W	NM-04444 4-1-52	USA	12.50	J. R. Abraham	3.00	J. R. Abraham	100	80.00	3.64365

Acreage in () is not committed to Unit.

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

<u>Type of</u> <u>Acreage</u>	<u>Committed</u> <u>Acres</u>	<u>Uncommitted</u> <u>Acres</u>	<u>Total</u> <u>Acres</u>
Federal	2195.60	160.00	2355.60

1769

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
February 14, 1962

File: N-139-416

Subject: 1962 Plan of Operations
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

All Working Interest Owners
In Unit Area
(See Attached Addressee List)

Gentlemen:

The 1962 Plan of Operations for Northeast Hogback Unit dated December 6, 1961, has been approved by the Director, the Commissioner, and the Commission on the following dates:

Director United States Geological Survey	February 8, 1962
---	------------------


Commissioner of Public Lands State of New Mexico	December 18, 1961
---	-------------------

New Mexico Oil Conservation Commission	December 21, 1961
---	-------------------

This Plan becomes effective January 1, 1962.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis
District Superintendent

CKD:en

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Harry Gevertz

El Paso Natural Gas Products Company
P. O. Box 1492
El Paso, Texas
Attn: Mr. M. L. Ayres

Mr. J. R. Abraham
841 Mercantile Bank Building
Dallas, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Northwest Production Corporation
520 Simms Building
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

Mr. R. L. Harper
Waterflow, New Mexico

Gulf Oil Corporation (2)
P. O. Box 2097
Denver, Colorado

Colorado Oil and Gas Corporation
P. O. Box 749
Denver, Colorado
Attn: Mr. F. W. Heiser

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona

1461
MAIN OFFICE OGC 1857
Roswell, New Mexico
1962 FEB 12 AM 8:09

February 8, 1962

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Attention: Mr. T. M. Curtis

Gentlemen:

Your 1962 Plan of Operation for the Northeast Hogback unit No. 14-08-001-6674, San Juan County, New Mexico, which proposes the expansion of the pressure maintenance program for the Gallup formation, has been approved on this date subject to like approval by the appropriate state agencies.

Three approved copies are enclosed.

Very truly yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

Copy to: Washington (w/cy plan)
Farmington (w/cy plan)
— MIOGC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

1769

December 21, 1961

C
O
P
Y

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Attention: Mr. T. M. Curtis

Re: 1962 Plan of Operation
Northeast Hogback Unit
San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1962 Plan of Operation for the Northeast Hogback Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/lq

cc: USGS - Roswell, New Mexico
Commissioner of Public Lands
Santa Fe, New Mexico

1769

December 18, 1961

Pan American Petroleum Corporation
P. O. Box 480
Farmington, New Mexico

Re: Plan of Operation
Northeast Hogback Unit
San Juan County, New Mexico

Attention: Mr. T. M. Curtis

Gentlemen:

The Commissioner of Public Lands has of this date approved the 1962 Plan of Operation for the Northeast Hogback Unit Area, San Juan County, New Mexico.

We are enclosing two approved copies of this application.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/nmr/v

Encl:

cc: U. S. Geological Survey
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
December 6, 1961

File: N-682-416

Subject: Plan of Operation
Northeast Hogback Unit
Pressure Maintenance Project
San Juan County, New Mexico

Director (6)
United States Geological Survey
c/o Oil and Gas Supervisor
P. O. Drawer 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

All Working Interest Owners
In Unit Area
(See Attached Addressee List)

Gentlemen:

On June 12, 1961, Pan American filed a Plan of Development Supplement which briefly discussed our plans for a pressure maintenance program for Northeast Hogback Unit. This supplemental plan provided for only five injection wells at the southeast end of the Gallup Participating Area. The Supplemental Plan of Development was subsequently approved by the working interest owners and the regulatory bodies. Since that time, the uncommitted tracts in the Gallup Participating Area have been signed up. Pan American Petroleum Corporation, as Unit Operator, plans to initiate the Pressure Maintenance project with the five wells discussed in the 1961 Plan of Development Supplement, but we propose to expand the Pressure Maintenance Project to include the entire Gallup Participating Area at a later date. At a hearing before the New Mexico Oil Conservation Commission we requested, and subsequently obtained approval, for a full scale pressure maintenance program with 20 injection wells.

During the year 1962 Pan American proposes to expand the project and flood both the Upper and Lower Gallup sands by injecting a total of approximately 7,500 barrels of water per day into 20 injection wells. Injection pressures will be approximately 700 psi. We have drilled a Morrison water supply well in the NE/4 SW/4 of Section 10, T-30-N, R-16-W, and this well should be able to supply all of the required water for the expanded project. Water handling facilities and injection pumps will be designed so the injection pressures may be increased in the future if necessary to achieve the desired water injection rates.

We estimate that the proposed water injection project will have a life of approximately eight years and will recover more oil through pressure maintenance operations than would have been recovered if the field had been depleted to abandonment with no supplemental reservoir energy being provided.

Oil and Gas Supervisor
Oil Conservation Commission
Commissioner of Public Lands
All Working Interest Owners

-2-


December 6, 1961
File: N-682-416
Subject: Plan of Operation
Northeast Hogback Unit
Pressure Maintenance
Project, San Juan County,
New Mexico

For your information we are attaching a map which shows the proposed water injection wells, the location of the water well and water injection plant, and the location of the water injection lines.

Your approval of the proposed Pressure Maintenance Project in the Northeast Hogback Unit is respectfully requested.

Yours very truly,

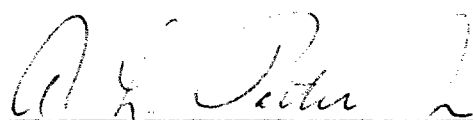
PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis
District Superintendent

JRK:en
Attach.

Approved _____ Date _____
Regional Oil and Gas Supervisor
United States Geological Survey

Approved _____ Date _____
Commissioner of Public Lands
State of New Mexico

Approved  _____ Date 12.2.61
Oil Conservation Commission
State of New Mexico

MAILING LIST OF WORKING INTEREST OWNERS
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

El Paso Natural Gas Company (2)
P. O. Box 1492
El Paso, Texas

El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico
Attn: Mr. Harry Gevertz

El Paso Natural Gas Products Company
P. O. Box 1492
El Paso, Texas
Attn: Mr. M. L. Ayres

Mr. J. R. Abraham
841 Mercantile Bank Building
Dallas, Texas

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Northwest Production Corporation
520 Simms Building
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc. (2)
Sistersville, West Virginia

Mr. R. L. Harper
Waterflow, New Mexico

Gulf Oil Corporation (2)
P. O. Box 2097
Denver, Colorado

Colorado Oil and Gas Corporation
P. O. Box 749
Denver, Colorado
Attn: Mr. F. W. Heiser

Brookhaven Oil Company
P. O. Box 1267
Scottsdale, Arizona