

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
July 27, 1961

File: N-294-416

Subject: Redesignation of
Well Numbers
Northeast Hogback Unit
San Juan County, New Mexico

Case 1704

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:

Our letter of July 12, 1961, File: N-243-416, notified each of you of Pan American's redesignation of several well numbers for lands recently included in the Northeast Hogback Unit. Please make the following corrections to the descriptions of well locations listed below:

<u>Well No.</u>	<u>Correct Location</u>
Northeast Hogback Unit No. 42	NW/4 SE/4 Section 11, T-30-N, R-16-W
Northeast Hogback Unit No. 43	SW/4 SE/4 Section 11, T-30-N, R-16-W
Northeast Hogback Unit No. 44	SE/4 SE/4 Section 11, T-30-N, R-16-W

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

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
July 12, 1961

File: N-243-416

Subject: Redesignation of
Well Names and Numbers
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
In Unit Area
(See Attached Addressee List)

Gentlemen:

Effective July 1, 1961, Pan American Petroleum Corporation as Unit Operator of the Northeast Hogback Unit will redesignate all wells located on acreage recently committed to the Unit by subsequent joinder and ratification effective July 1, 1961. The newly committed acreage, well names and numbers are detailed on an attachment for your information.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis,
District Superintendent

CKD:en
Attach.

ATTACHMENT

<u>Old Designation</u>	<u>Location S - T - R</u>	<u>New Designation</u>
J. R. Abraham - Federal No. 1	NE/4 SE/4 10-30-16	Northeast Hogback Unit No. 41
J. R. Abraham - Federal No. 2-X	NW/4 SE/4 10-30-16	Northeast Hogback Unit No. 40
J. R. Abraham - Federal No. 3	NW/4 NE/4 14-30-16	Northeast Hogback Unit No. 45
J. R. Abraham - Federal No. 4	SW/4 NE/4 14-30-16	Northeast Hogback Unit No. 46
El Paso Products - Williams No. 1	NW/4 SE/4 11-30-16	Northeast Hogback Unit No. 43
El Paso Products - Williams No. 2	SW/4 SE/4 11-30-16	Northeast Hogback Unit No. 44
El Paso Products - Williams No. 3	SE/4 SE/4 11-30-16	Northeast Hogback Unit No. 42

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
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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

PAN AMERICAN PETROLEUM CORPORATION
FORT WORTH, TEXAS

June 28, 1961

File: RMH-537-416

Subject: Northeast Hogback Unit,
San Juan County, New Mexico

**REGISTERED MAIL -
RETURN RECEIPT REQUESTED**

Case #1769

~~Mr. John A. Anderson
Regional Oil and Gas Supervisor
U. S. Geological Survey
P. O. Box 6721
Roswell, New Mexico~~

Dear Sir:

Furnished herewith for your files are four copies each of "Ratification and Joinder of Unit Agreement and Unit Operating Agreement, Northeast Hogback Unit, San Juan County, New Mexico", executed by J. R. Abraham, El Paso Natural Gas Products Company, and Colorado Oil and Gas Corporation for their respective interests in the unit. These ratifications have been accepted by Pan American Petroleum Corporation, as Unit Operator, subject to title examination. These joinders commit the working interests from the surface to the base of the Gallup formation in the following leases:

J. R. Abraham: N/2 SE/4 of Section 10, and
W/2 NE/4 of Section 14, both being
in T-30-N, R-16-W.

El Paso Natural Gas
Products Company and
Colorado Oil and Gas
Corporation: NW/4 SE/4 and S/2 SE/4 of Section 11,
T-30-N, R-16-W.

Upon your acknowledging receipt of these instruments, copies will be furnished to the other working interest owners in the unit. It is our desire to have these commitments become effective as of July 1, 1961, and we would appreciate your acknowledgment letter stating that the forms were received during June, 1961. By copy of this letter, the Commissioner and the Commission are being furnished one copy each of said ratifications for each working interest owner.

Very truly yours,

ORIGINAL S. L. HOYT, JR.
SIGNED BY

J. L. HOYT, JR.

JWA/ek
Attachments

C O P Y

Page 2
RGN-537-416
June 28, 1961

Carbon Copies Sent Registered Mail - Return Receipt Requested to:

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

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

RATIFICATION AND JOINDER OF UNIT AGREEMENT
AND UNIT OPERATING AGREEMENT
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

In consideration of the Unit Agreement dated JULY 1, 1959, for the Development and Operation of the Northeast Hogback Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other working interest owners of the contemporary Unit Operating Agreement which relates to said Unit Agreement, the undersigned owner, whether one or more, of certain oil and gas leases, to-wit:

LESSOR:	The United States of American
LESSEE:	El Paso Natural Gas Products Company
SERIAL NUMBER:	SF-081299
DATED:	October 1, 1951
DESCRIPTION:	NW/4 SE/4 and S/2 SE/4, Section 11, T-30-N, R-16-W, as to formations from the surface to the base of the Gallup Formation, only,

hereby consents to the inclusion of said lands within the said Unit Agreement, approves and adopts the terms of said Unit Agreement, agrees that the term of said leases are extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agrees that the drilling, development, and producing requirements of said leases and other contracts relating thereto shall be deemed fully performed by the performance of the provisions of said Unit Agreement, and agrees that payment for or delivery of oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the above described lands regardless of actual production therefrom shall constitute full performance of all such obligations to the undersigned existing under said leases.

For a like consideration, the undersigned does hereby expressly ratify, approve, adopt, confirm, and join in said Unit Operating Agreement to the extent of the undersigned's leasehold interest in the above described lands, and agrees to be governed by all the terms and provisions thereof as a working interest owner, as fully to all intents and purposes as though the undersigned had executed said Unit Operating Agreement and all counterparts thereof.

This Ratification and Joinder is expressly limited to formations from the surface of the earth down to the base of the Gallup formation.

The provisions hereof shall inure to the benefit of and be binding upon the successors and assigns of the undersigned.

EXECUTED, this 22 day of June, 1961.

ATTEST: Assistant Secretary
EL PASO NATURAL GAS PRODUCTS COMPANY
BY: Roland L. Hamblin ^{in X'd}
President
Attorney-in-Fact

ATTEST: C. W. McQuinn
Assistant Secretary
COLORADO OIL AND GAS CORPORATION
By: J. S. Bowman
E. V. President

STATE OF TEXAS }
COUNTY OF EL PASO }

The foregoing instrument was acknowledged before me this 22 day of June, 1961, by ROLAND L. HAMBLIN, Attorney-in-Fact of El Paso Natural Gas Products Company, a Texas corporation, on behalf of said corporation.

Witness my hand and official seal.

Form P-10-21 (6-59)
(New Mexico)

My Commission Expires:
MARY T. SAXON
Notary Public in and for El Paso County, Texas
My Commission Expires June 1, 1963

Mary T. Saxon
Notary Public in and for El Paso County, State of Texas

County, _____

STATE OF Colorado
COUNTY OF Denver

On this 27th day of June, 1961, before me appeared J. S. Bowman, to me personally known, who, being by me duly sworn did say that he is the Exec. Vice President of COLORADO OIL AND GAS CORPORATION, and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said J. S. Bowman acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on this, the day and year first above written.

My Commission Expires: 6/6/62
Notary Public in and for Denver County, Colo.

Consented to and accepted as of the _____ day of June, 1961.

PAN AMERICAN PETROLEUM CORPORATION
Unit Operator
By: J. S. Hart
Attorney-in-Fact
APPROVED
70X
JWA
-2-

RATIFICATION AND JOINDER OF UNIT AGREEMENT
AND UNIT OPERATING AGREEMENT
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO

In consideration of the Unit Agreement dated JULY 1, 1959, for the Development and Operation of the Northeast Hogback Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, and in consideration of the execution or ratification by other working interest owners of the contemporary Unit Operating Agreement which relates to said Unit Agreement, the undersigned owner, whether one or more, of certain oil and gas leases, to-wit:

- (1) LESSOR: The United States of American
LESSEE: J. R. Abraham
SERIAL NUMBER: NM-04444
DATED: April 1, 1952
DESCRIPTION: W/2 NE/4, Section 14, T-30-N, R-16-W, as to formations from the surface to the base of the Gallup Formation, only,
- (2) LESSOR: The United States of America
LESSEE: J. R. Abraham
SERIAL NUMBER: NM-04444
DATED: April 1, 1952
DESCRIPTION: N/2 SE/4, Section 10, T-30-N, R-16-W, as to formations from the surface to the base of the Gallup Formation, only,

hereby consents to the inclusion of said lands within the said Unit Agreement, approves and adopts the terms of said Unit Agreement, agrees that the term of said leases are extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agrees that the drilling, development, and producing requirements of said leases and other contracts relating thereto shall be deemed fully performed by the performance of the provisions of said Unit Agreement, and agrees that payment for or delivery of oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the above described lands regardless of actual production therefrom shall constitute full performance of all such obligations to the undersigned existing under said leases.

For a like consideration, the undersigned does hereby expressly ratify, approve, adopt, confirm, and join in said Unit Operating Agreement to the extent of the undersigned's leasehold interest in the above described lands, and agrees to be governed

by all the terms and provisions thereof as a working interest owner, as fully to all intents and purposes as though the undersigned had executed said Unit Operating Agreement and all counterparts thereof.

This Ratification and Joinder is expressly limited to formations from the surface of the earth down to the base of the Gallup formation.

The provisions hereof shall inure to the benefit of and be binding upon the successors and assigns of the undersigned.

EXECUTED, this 20th day of June, 1961.

J. R. Abraham
J. R. ABRAHAM

Dorothy A. Abraham
DOROTHY A. ABRAHAM

STATE OF Texas
COUNTY OF Dallas

On this 20th day of June, 1961, before me personally appeared J. R. ABRAHAM and wife, DOROTHY A. ABRAHAM, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on this, the day and year first above written.

E. Grace Parker
Notary Public in and for
Dallas County, Texas

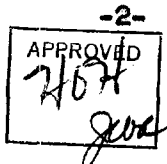
My Commission Expires:

June 1, 1962

Consented to and accepted as of the
_____ day of June, 1961.

PAN AMERICAN PETROLEUM CORPORATION
Unit Operator

By: J. J. Hight
Attorney-in-fact



Page # 1769

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
April 3, 1961

File: E-298-416

Subject: Redesignation of Gallup
Well Name and Numbers
Northeast Hogback Unit

Director (6)
United States Geological Survey
c/o Oil and Gas Supervisor
P. O. Box 6721
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:

Effective April 1, 1961, Pan American Petroleum Corporation as Unit Operator of the Northeast Hogback Unit will redesignate the well names and numbers of all wells located within the area included in the Second Enlargement to the Gallup Participating Area for proper identification purposes.

The attached list indicates the old and new names, numbers and location of each well for your information.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis
District Superintendent

CKD:ep

Attachment

REDESIGNATION NORTHEAST HOGBACK UNIT WELLS
SECOND GATEUP ENLARGEMENT

<u>New Designation</u>	<u>Location</u>	<u>Old Designation</u>
Northeast Hogback Unit No. 23	NW/4 NE/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "A" No. 1
Northeast Hogback Unit No. 24	NE/4 NE/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "A" No. 4
Northeast Hogback Unit No. 25	NW/4 NW/4 Section 11, T-30-N, R-16-W	O. J. Hoover "B" No. 1
Northeast Hogback Unit No. 26	SW/4 NE/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "A" No. 3
Northeast Hogback Unit No. 27	SE/4 NE/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "A" No. 2
Northeast Hogback Unit No. 28	SW/4 NW/4 Section 11, T-30-N, R-16-W	O. J. Hoover "B" No. 4
Northeast Hogback Unit No. 29	SE/4 NW/4 Section 11, T-30-N, R-16-W	O. J. Hoover "B" No. 2-X
Northeast Hogback Unit No. 30	NW/4 SW/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "D" No. 3
Northeast Hogback Unit No. 31	NE/4 SW/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "D" No. 1
Northeast Hogback Unit No. 32	NW/4 SW/4 Section 11, T-30-N, R-16-W	O. J. Hoover "B" No. 3
Northeast Hogback Unit No. 33	NE/4 SW/4 Section 11, T-30-N, R-16-W	O. J. Hoover "B" No. 5
Northeast Hogback Unit No. 34	SW/4 SW/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "D" No. 4
Northeast Hogback Unit No. 35	SE/4 SW/4 Section 10, T-30-N, R-16-W	J. W. Aidlin "D" No. 2
Northeast Hogback Unit No. 36	SW/4 SE/4 Section 10, T-30-N, R-16-W	J. V. Fritts No. 2
Northeast Hogback Unit No. 37	SE/4 SE/4 Section 10, T-30-N, R-16-W	J. V. Fritts No. 1
Northeast Hogback Unit No. 38	SW/4 SW/4 Section 11, T-30-N, R-16-W	O. J. Hoover "B" No. 6
Northeast Hogback Unit No. 39	SE/4 SW/4 Section 11, T-30-N, R-16-W	O. J. Hoover "C" No. 1

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

Northwest Production Corporation
520 Simms Building
Albuquerque, New Mexico

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

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

Mr. R. L. Harper
Waterflow, New Mexico

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

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

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

PAN AMERICAN PETROLEUM CORPORATION

Case # 1769

P. O. Box 480, Farmington, New Mexico
March 27, 1961

File: E-281-416

Subject: 1961 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. Box 6721
Roswell, New Mexico

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

Oil Conservation Commission of (3) ✓
The State of New Mexico
Land Office Building
Santa Fe, New Mexico

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

Gentlemen:

The 1961 Plan of Development for the Northeast Hogback Unit, dated December 27, 1960, has been approved by the regulatory bodies on the following dates:

Director United States Geological Survey	March 6, 1961
Commissioner of Public Lands State of New Mexico	March 10, 1961
New Mexico Oil Conservation Commission	March 22, 1961

The plan, as approved, will be effective January 1, 1961.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

District Superintendent

By: *Fred L. Nators*

CKD:en

Blind Note: Attached are executed pages for the Director and the Commissioner for your files.

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

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

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P. O. Box 1267
Scottsdale, Arizona

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520 Simms Building
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Sistersville, West Virginia

Mr. R. L. Harper
Waterflow, New Mexico

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

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

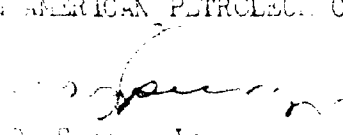
-2-

December 27, 1960
File: E-742-416
Subject: 1961 Plan of Development
Northeast Hogback Unit
San Juan County, New Mex.

Effective Date: This plan of development will be effective
as of January 1, 1961.

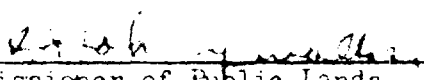
Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


L. D. Speer, Jr.
Area Superintendent

CKD:hh
Attach.

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

Approved  Date _____
Commissioner of Public Lands
State of New Mexico

Approved _____ Date _____
Oil Conservation Commission
State of New Mexico

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

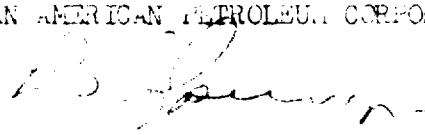
-2-

December 27, 1960
File: E-942-416
Subject: 1961 Plan of Development
Northeast Hogback Unit
San Juan County, New Mex.

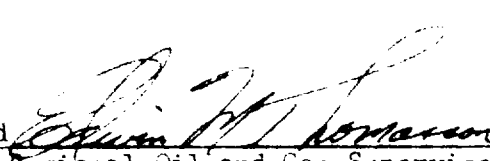
Effective Date: This plan of development will be effective
as of January 1, 1961.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


L. O. Speer, Jr.
Area Superintendent

CKD:hh
Attach.

Approved  Date 3-6-61
Acting Regional Oil and Gas Supervisor
United States Geological Survey

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

Approved _____ Date _____
Oil Conservation Commission
State of New Mexico

PAN AMERICAN PETROLEUM CORPORATION

Case #1767

P. O. Box 480, Farmington, New Mexico
March 27, 1961

File: E-280-416

Subject: Approval of Second
Enlargement of the Gallup
Participating Area
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
c/o Oil and Gas Supervisor
P. O. Box 6721
Roswell, New Mexico

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

✓ Oil Conservation Commission of (3)
The State of New Mexico
Land Office Building
Santa Fe, New Mexico

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

Gentlemen:

The application for approval of the Second Enlargement of the Gallup Participating Area in the Northeast Hogback Unit dated January 10, 1961, has been executed by the United States Geological Survey, the Commissioner and the Commission on the following dates:

Director United States Geological Survey	March 8, 1961
Commissioner of Public Lands State of New Mexico	March 23, 1961
New Mexico Oil Conservation Commission	March 23, 1961

The Second Enlargement became effective November 1, 1960.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

District Superintendent

CKD:en

By:

Fred L. Naters

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

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

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

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

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case #1769

March 27, 1961

C
O
P
Y

Pan American Petroleum Corporation
Oil and Gas Building
Fort Worth, Texas

Attention: Mr. Alex Clarke, Jr.

Re: First Expansion of the
Northeast Hogback Unit
Area, San Juan County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the First Expansion of the Unit Area 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.

Such expansion shall be effective November 1, 1960.

Very truly yours,

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

ALP/JEM/ig

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

17.18.1961

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

ALEX CLARKE, JR.
DIVISION ENGINEER

FORT WORTH, TEXAS

March 7, 1961

File: GWK-95-416

Subject: First Expansion of the
Northeast Hogback Unit Area
San Juan County, New Mexico

Mr. A. L. Porter, Jr. (2)
Secretary-Director
New Mexico Oil Conservation Commission
State Land Office Building
Santa Fe, New Mexico

Dear Sir:

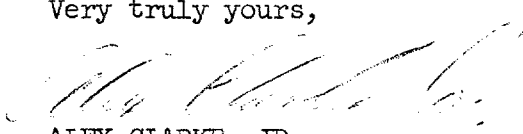
Pursuant to Paragraph 4(b) of the Commission's Order R-1494, Pan American as Unit Operator under the Unit Agreement for the Development and Operation of the Northeast Hogback Unit Area, San Juan County, New Mexico, hereby makes application for administrative approval of the expansion of the Northeast Hogback Unit Area effective November 1, 1960. The unit area will be expanded to include 797.04 acres in the W/2 of Section 11, the E/2 and SW/4 of Section 10, T-30-N, R-16-W, San Juan County, New Mexico, being tracts nos. 35, 36, 37, 38 and 39. Your approval of the expansion is respectfully requested.

The expansion has been made in compliance with all provisions of the Northeast Hogback Unit Agreement and has been approved by the New Mexico State Land Commissioner, and the Acting Director of the U.S.G.S. Two copies of Certificates of these approvals are attached. Also attached are two copies of Exhibits "A" and "B" to the original Unit Agreement which have been amended to include the expanded unit area.

All of the area to be included in the expansion is proven productive in the Gallup horizon in the Horseshoe Gallup Field, and is included in an enlargement to the Gallup participating area presently being processed. The proposed expansion of the unit will be in the interest of conservation and will allow more efficient operation of the unit.

Your consideration of this matter will be appreciated.

Very truly yours,


ALEX CLARKE, JR.

CM/rb
Attachments

PAN AMERICAN PETROLEUM CORPORATION
FORT WORTH, TEXAS

March 7, 1961

File: GWK-95-416

Subject: First Expansion of the
Northeast Hogback Unit Area
San Juan County, New Mexico

Mr. A. L. Porter, Jr. (2)
Secretary-Director
New Mexico Oil Conservation Commission
State Land Office Building
Santa Fe, New Mexico

Dear Sir:

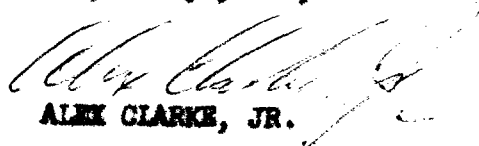
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Very truly yours,


ALEX CLARKE, JR.

CM/rb
Attachments

C O P Y

CERTIFICATE OF APPROVAL

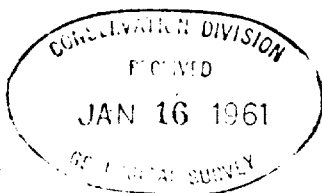
NORTHEAST HOGBACK UNIT AREA
SAN JUAN COUNTY, NEW MEXICO

Pursuant to the authority vested in the Secretary of the Interior under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C. Secs. 181, et seq., as delegated to the Director of the Geological Survey, the foregoing application for expansion of the Northeast Hogback Unit Area is hereby approved. Such expansion shall be effective November 1, 1960.

Date FEB 1 - 1961

Acting

John S. Zacher
DIRECTOR,
UNITED STATES GEOLOGICAL SURVEY



RECEIVED
DEC 23 1960
U. S. GEOLOGICAL SURVEY
Rm. 111, Bldg. 100

Pursuant to the authority vested in the Commissioner of Public Lands of the State of New Mexico by act of the Legislature (Chapter 88, Laws 1943), the foregoing application for expansion of the Northeast Hogback Unit Area is hereby approved. Such expansion shall be effective as of November 1, 1960, upon approval by the Director, United States Geological Survey.

Date 11-21-60

W. M. Morgan
COMMISSIONER OF PUBLIC LANDS OF THE
STATE OF NEW MEXICO

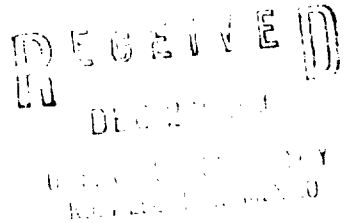
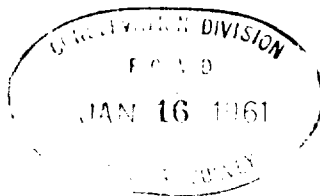
CERTIFICATE OF APPROVAL

NORTHEAST HOGBACK UNIT AREA
SAN JUAN COUNTY, NEW MEXICO

Pursuant to the authority vested in the Secretary of the Interior under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C. Secs. 181, et seq., as delegated to the Director of the Geological Survey, the foregoing application for expansion of the Northeast Hogback Unit Area is hereby approved. Such expansion shall be effective November 1, 1960.

Date FEB 1 - 1961

Acting *John S. Baker*
DIRECTOR,
UNITED STATES GEOLOGICAL SURVEY



Pursuant to the authority vested in the Commissioner of Public Lands of the State of New Mexico by act of the Legislature (Chapter 88, Laws 1943), the foregoing application for expansion of the Northeast Hogback Unit Area is hereby approved. Such expansion shall be effective as of November 1, 1960, upon approval by the Director, United States Geological Survey.

Date 2-21-60

W. M. Morgan
COMMISSIONER OF PUBLIC LANDS OF THE
STATE OF NEW MEXICO

EXHIBIT "B"

RELATING TO FIRST EXPANSION
SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS IN
ALL LAND IN THE NORTHEAST HOGBACK UNIT AGREEMENT,
SAN JUAN COUNTY, NEW MEXICO

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICANT	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
1	T-30N, R-16W Sec. 24: S/2 NE/4, SE/4 Sec. 25: E/2	560.00	NM-0269 10-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Jean S. Brady and Stuart F. Brady, her husband. . . . 1% Edna Ione Hall and Ora R. Hall, Jr., her husband. . . . 4%	Pan American All
2	T-30N, R-16W Sec. 27: NW/4	160.00	NM-01049 12-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	H. O. Pool and Thelma K. Pool, his wife, Production Payment of \$1,000.00 per acre payable out of 1/16 of 7/8	Pan American All
3	T-30N, R-16W Sec. 26: All Sec. 27: E/2, SW/4 Sec. 34: All Sec. 35: NE/4 NE/4, W/2 NE/4, NW/4, N/2 SW/4, SW/4 SW/4	2160.00	NM-01049-A 12-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	H. O. Pool and Thelma K. Pool, his wife5%	Pan American All
4	T-30N, R-16W Sec. 33: Lots 1, 2, E/2 NW/4, NE/4	278.70	NM-03331 5-1-52	USA 12 $\frac{1}{2}$ % (All)	R. W. Bolack	None	R. W. Bolack All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
5	T-30N, R-16W Sec. 33: Lots 3, 4, 5, 6, 7 NE/4 SW/4, N/2 SE/4	277.60	NM-03331-A	USA 12 $\frac{1}{2}$ % (All)	Petro-Atlas, Inc.	None	Petro-Atlas, Inc. All
6	T-30N, R-16W Sec. 14: NW/4	160.00	NM-04407 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife 5%	Pan American - All
7	T-30N, R-16W Sec. 14: S/2 Sec. 24: W/2	640.00	NM-04407-A 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife 4%	Pan American - All
8	T-30N, R-16W Sec. 28: Lots 2, 7, 10, 15	162.00	NM-04419 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife 5%	Pan American - All
9	T-30N, R-16W Sec.22: E/2	320.00	NM-04419-A 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife 4%	Pan American - All
10	T-30N, R-16W Sec. 28: Lots 1, 8, 9, 16	161.96	NM-04419-B 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife 5%	Pan American - All
11	T-30N, R-16W Sec. 15: Lots 1, 2, 3, 4 E/2 W/2, W/2 E/2, NE/4 SE/4 Sec. 22: NW/4	674.16	NM-04443 1-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis 1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil. 1/2 of 1% D. J. Hoover. . . 1/2 of 1% E. J. Hoover. . . 1/2 of 1% F. W. Hoover. . . 1/2 of 1% F. W. Hoover & E. J. Hoover, Ancillary Administrators of Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. . 1/2 of 1% Richard Jansen. 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit. 1/10 of 1 $\frac{1}{4}$ % Blain Pettit. . . 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss . . . 5/8 of 1% Wm. R. Voss . . . 5/8 of 1%	Pan American - All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICANT	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
12	T-30N, R-16W Sec. 28: Lots 3, 4, 5, 6, 11, 12, 13, 14	235.18	NM-04443-A 1-1-52	USA 12 $\frac{1}{2}$ % (All)	John N. Eddy - 1/2 Charles B. Gonsales - 1/2	Edna J. Hoover, Executrix of Estate of O. J. Hoover, Deceased. 2 $\frac{1}{2}$ % Anna J. Voss, Sole Devisee of Henry Voss, Deceased. 5/8 of 1% Wm. R. Voss. 5/8 of 1%	John N. Eddy-50% Charles B. Gonsales -50%
13	T-30N, R-16W Sec. 23: All Sec. 24: N/2 NE/4 Sec. 25: W/2	1040.00	NM-04443-B 1-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis . 1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil. . 1/2 of 1% D. J. Hoover. . . . 1/2 of 1% E. J. Hoover. . . . 1/2 of 1% F. W. Hoover. . . . 1/2 of 1% F. W. Hoover and E. J. Hoover, Ancillary Administrators of the Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. . . . 1/2 of 1% Richard Jansen. . . . 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen . . . 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit 1/10 of 1 $\frac{1}{4}$ % Blain Pettit. . . . 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss. . . . 5/8 of 1% Wm. R. Voss 5/8 of 1%	Pan American-All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLI- CATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY		WORKING INTEREST OWNER AND PERCENTAGE	
14	T-30N, R-16W Sec. 15: SE/4 SE/4 Sec. 22: SW/4	200.00	NM-0443-C 1-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis .1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil .1/2 of 1%		Pan American -All	
						D. J. Hoover. . . . 1/2 of 1%			
						E. J. Hoover. . . . 1/2 of 1%			
						F. W. Hoover. . . . 1/2 of 1%			
						F. W. Hoover and			
						E. J. Hoover, Ancillary			
						Administrators of the			
						Estate of Edna J.			
						Hoover. 1/2 of 1%			
						Andreas Jansen. . . 1/2 of 1%			
						Richard Jansen . . 1/10 of 1 $\frac{1}{4}$ %			
						Virginia Jansen. .1/10 of 1 $\frac{1}{4}$ %			
						Alice Augusta Pettit.			
						 1/10 of 1 $\frac{1}{4}$ %			
						Blain Pettit. . . 1/10 of 1 $\frac{1}{4}$ %			
						Anna J. Voss. . . 5/8 of 1%			
						Wm. R. Voss. . . . 5/8 of 1%			
15	T-30N, R-16W Sec. 14: W/2 NE/4	80.00	NM-04444 4-1-52	USA 12 $\frac{1}{2}$ % (All)	J. R. Abraham	R. P. Mohrbacker and		J. R. Abraham-All	
						Cavita D. Mohrbacker. . . 3%			
16	T-30N, R-16W Sec. 13: S/2 SW/4	80.00	NM-05859 8-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	R. P. Mohrbacker and		Pan American - All	
						Cavita D. Mohrbacker,			
						his wife, as joint tenants.1%			
						Berry Merrit and wife,			
						Jean Merrit, as joint			
						tenants. 1%			
						L. W. Swarts and Hazel			
						Swarts, his wife. 1%			

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
17	T-30N, R-16W Sec. 15: E/2 NE/4	80.00	NM-06686 3-1-55	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	J. V. Fritts and Ruth C. Fritts, his wife 2 $\frac{1}{2}$ % A. L. Duff, Jr. 2 $\frac{1}{2}$ %	Pan American - All
18	T-30N, R-16W Sec. 12: N/2, N/2 S/2	480.00	SF-081298 10-1-51	USA 12 $\frac{1}{2}$ % (All)	El Paso Natural Gas Products Company	Darrel C. Williams . . . 4%	Colorado Oil & Gas Corpora- tion - 50% El Paso Natural Gas Products Company - 50%
19	T-30N, R-16W Sec. 13: S/2 NE/4, N/2 SE/4	160.00	SF-081298-A 10-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	J. Felix Hickman . . 1-5/6% Helbing & Podpechan . . 2 $\frac{1}{2}$ % Floyd H. Schroeder . . . 1/3 of 1% Clyde C. Mathews and Helen C. Mathews, his wife 1/6 of 1% Charles W. Fryar and Ruby Fryar, his wife 1/6 of 1%	Pan American - All
20	T-30N, R-16W Sec. 11: E/2 Sec. 12: S/2 S/2	480.00	SF-081299 10-1-51	USA 12 $\frac{1}{2}$ % (All)	El Paso Natural Gas Products Company	Joe J. Lommori and Darrel C. Williams . . . 4%	Colorado Oil & Gas Corporation - 50% El Paso Natural Gas Products Company - 50%
21	T-30N, R-16W Sec. 13: S/2 SE/4	80.00 (Pt.)	SF-081299A 10-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joe J. Lommori 1 $\frac{1}{4}$ % Thelma Bachechi 1 $\frac{1}{4}$ % Horace F. McKay, Jr. . . . 2 $\frac{1}{2}$ %	Pan American - All

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21 (Continued)							
	T-30N, R-16W Sec. 13: S/2 NW/4, N/2 SW/4	160.00 (Pt.)	SF-081299-A 10-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joe J. Lommori . . . 1-3/4% Thelma Bachechi . . . 1 $\frac{1}{4}$ % Darrell C. Williams and Elizabeth M. Williams 2%	Pan American - All
	T-30N, R-16W Sec. 14: E/2 NE/4 Sec. 13: N/2 NW/4, N/2 NE/4	240.00 (Pt.)	SF-081299A 10-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joe J. Lommori 1 $\frac{1}{2}$ % Thelma Bachechi 1% Darrell C. Williams and Elizabeth M. Williams 2% Dino Lommori $\frac{1}{4}$ of 1% John W. Shirley and Norma P. Shirley. $\frac{1}{4}$ of 1%	Pan American - All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLI- CATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
22	T-30N, R-16W Sec. 16: NW/4 SE/4, Sec. 36: SE/4 NE/4	80.00	E-3150-1 12-10-49	State of New Mexico 12 $\frac{1}{2}$ % (All)	El Paso Natural Gas Company	John Burroughs 5%	El Paso Natural Gas Company - All
23	T-30N, R-16W Sec. 36: NW/4, NE/4, SW/4 NE/4	240.00	E-8343 7-20-54	State of New Mexico 12 $\frac{1}{2}$ % (All)	Pubco Petroleum Corporation	None	Pubco Petroleum Corporation - All
24	T-30N, R-16W Sec. 36: NW/4 NE/4	40.00	B-10405-45 6-24-43	State of New Mexico 12 $\frac{1}{2}$ % (All)	Brookhaven Oil Company	None	Brookhaven Oil Company - All
25	T-30N, R-16W Sec. 16: E/2 SW/4, S/2 SE/4, NE/4 SE/4	200.00	E-9991 4-17-56	State of New Mexico 12 $\frac{1}{2}$ % (All)	Gulf Oil Corporation	None	Gulf Oil Corporation - All
26	T-30N, R-16W Sec. 16: Lots 3, 4	39.08	OG-456 12-18-56	State of New Mexico 12 $\frac{1}{2}$ % (All)	Northwest Production Corporation	None	Northwest Production Corporation - 42 $\frac{1}{2}$ % Pubco Petroleum Corporation - 42 $\frac{1}{2}$ % R. L. Harper - 15%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICANT	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY		WORKING INTEREST OWNER AND PERCENTAGE
34	T-30N, R-16W Sec. 21: Lots 1 through 16, Incl.	543.18	Oil & Gas Leasing Rights unknown until determined by the Department of the Interior					
35	T-30N, R-16W Sec. 10: NE/4	160.00	NM-077281 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin & Mary Aidlin, his wife	5%	Pan American -All
	T-30N, R-16W Sec. 10: Lots 3 & 4 E/2 SW/4	157.04	NM-077281 7-1-52	USA - 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin & Mary Aidlin, his wife	5%	Pan American -All
36	T-30N, R-16W Sec. 11: NW/4, N/2 SW/4, SW/4 SW/4	280.00	NM-077282 1-1-52	USA - 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis 1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil 1/2 of 1% D. J. Hoover. 1/2 of 1% E. J. Hoover. 1/2 of 1% F. W. Hoover. 1/2 of 1% F. W. Hoover & E. J. Hoover, Ancillary Administrators of the Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. 1/2 of 1% Richard Jansen. 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen. 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit 1/10 of 1 $\frac{1}{4}$ % Blain Pettit.. 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss. 5/8 of 1% Wm. R. Voss 5/8 of 1%		Pan American -All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND		RECORD OWNER OF LEASE OR APPLI- CATION	NAME OF OWNER AND		WORKING INTEREST OWNER AND PERCENTAGE
				PERCENTAGE OF ROYALTY	ROYALTY		PERCENTAGE OF OVERRIDING ROYALTY		
37	T-30N, R-16W Sec. 11: SE/4 SW/4	40.00	NM-077283 1-1-52	USA - 12½% (All)		Pan American Petroleum Corporation	Dorothy Ann Davis...1/5 of 1¼% Marion Helen Fencil.. 1/2 of 1% D. J. Hoover. 1/2 of 1% E. J. Hoover. 1/2 of 1% F. W. Hoover. 1/2 of 1% F. W. Hoover and E. J. Hoover, Ancillary Administrators of the Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. . . . 1/2 of 1% Richard Jansen. . . . 1/10 of 1¼% Virginia Jansen. . . . 1/10 of 1¼% Alice Augusta Pettit.1/10 of 1¼% Blaine Pettit... .1/10 of 1¼% Anna J. Voss... .5/8 of 1% William R. Voss. . . .5/8 of 1%		Pan American - All
38	T-30N, R-16W Sec. 10: S/2 SE/4	80.00	NM-077284 3-1-55	USA - 12½% (All)		Pan American Petroleum Corporation	A. L. Duff, Jr.. 2½% J. V. Fritts... 2½%		Pan American - All
39	T-30N, R-16W Sec. 10: N/2 SE/4	80.00	NM-044444 4-1-52	USA - 12½% (All)		J. R. Abraham	R. P. Mohrbacker & Cavita D. Mohrbacker. . . . 3%		J. R. Abraham - All

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

<u>LAND</u>	<u>NO. OF TRACTS</u>	<u>ACRES IN UNIT</u>	<u>PERCENTAGE OF UNIT AREA</u>
Federal	26	9,666.64	85.03
State	5	599.08	5.27
Patented	7	560.00	4.92
Undetermined	<u>1</u>	<u>543.18</u>	<u>4.78</u>
TOTAL	39	11,368.90	100.00

EXHIBIT "B"

RELATING TO FIRST EXPANSION
SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTERESTS IN
ALL LAND IN THE NORTHEAST HOGBACK UNIT AGREEMENT,
SAN JUAN COUNTY, NEW MEXICO

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLI- CATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
1	T-30N, R-16W Sec. 24: S/2 NE/4, SE/4 Sec. 25: E/2	560.00	NM-0269 10-1-51	USA 12½% (All)	Pan American Petroleum Corporation	Jean S. Brady and Stuart F. Brady, her husband. . . . 1% Edna Ione Hall and Ora R. Hall, Jr., her husband. . . . 4%	Pan American All
2	T-30N, R-16W Sec. 27: NW/4	160.00	NM-01049 12-1-51	USA 12½% (All)	Pan American Petroleum Corporation	H. O. Pool and Thelma K. Pool, his wife, Production Payment of \$1,000.00 per acre payable out of 1/16 of 7/8	Pan American All
3	T-30N, R-16W Sec. 26: All Sec. 27: E/2, SW/4 Sec. 34: All Sec. 35: NE/4 NE/4, W/2 NE/4, NW/4, N/2 SW/4, SW/4 SW/4	2160.00	NM-01049-A 12-1-51	USA 12½% (All)	Pan American Petroleum Corporation	H. O. Pool and Thelma K. Pool, his wife5%	Pan American All
4	T-30N, R-16W Sec. 33: Lots 1, 2, E/2 NW/4, NE/4	278.70	NM-03331 5-1-52	USA 12½% (All)	R. W. Bolack	None	R. W. Bolack All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY		WORKING INTEREST OWNER AND PERCENTAGE
5	T-30N, R-16W Sec. 33: Lots 3, 4, 5, 6, 7 NE/4 SW/4, N/2 SE/4	277.60	NM-03331-A	USA 12 $\frac{1}{2}$ % (All)	Petro-Atlas, Inc.	None		Petro-Atlas, Inc. All
6	T-30N, R-16W Sec. 14: NW/4	160.00	NM-04407 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife	5%	Pan American - All
7	T-30N, R-16W Sec. 14: S/2 Sec. 24: W/2	640.00	NM-04407-A 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife	4%	Pan American - All
8	T-30N, R-16W Sec. 28: Lots 2, 7, 10, 15	162.00	NM-04419 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife	5%	Pan American - All
9	T-30N, R-16W Sec. 22: E/2	320.00	NM-04419-A 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife	4%	Pan American - All
10	T-30N, R-16W Sec. 28: Lots 1, 8, 9, 16	161.96	NM-04419-B 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin, and Mary Aidlin, his wife	5%	Pan American - All
11	T-30N, R-16W Sec. 15: Lots 1, 2, 3, 4 E/2 W/2, W/2 E/2, NE/4 SE/4 Sec. 22: NW/4	674.16	NM-04443 1-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis 1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil. 1/2 of 1 $\frac{1}{4}$ % D. J. Hoover. . . 1/2 of 1 $\frac{1}{4}$ % E. J. Hoover. . . 1/2 of 1 $\frac{1}{4}$ % F. W. Hoover. . . 1/2 of 1 $\frac{1}{4}$ % F. W. Hoover & E. J. Hoover, Ancillary Administrators of Estate of Edna J. Hoover. 1/2 of 1 $\frac{1}{4}$ % Andreas Jansen. . 1/2 of 1 $\frac{1}{4}$ % Richard Jansen. 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit. 1/10 of 1 $\frac{1}{4}$ % Blain Pettit. . . 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss . . . 5/8 of 1 $\frac{1}{4}$ % Wm. R. Voss . . . 5/8 of 1 $\frac{1}{4}$ %		Pan American - All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICANT	NAME OF OWNER AND PERCENTAGE OF OVERRIING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
12	T-30N, R-16W Sec. 28: Lots 3, 4, 5, 6, 11, 12, 13, 14	235.18	NM-0443-A 1-1-52	USA 12 $\frac{1}{2}$ % (All)	John N. Eddy - 1/2 Charles B. Gonsales - 1/2	Edna J. Hoover, Executrix of Estate of O. N. Hoover, Deceased. 2 $\frac{1}{2}$ % Anna J. Voss, Sole Devisee of Henry Voss, Deceased. 5/8 of 1% Wm. R. Voss. 5/8 of 1%	John N. Eddy-50% Charles B. Gonsales -50%
13	T-30N, R-16W Sec. 23: All Sec. 24: N/2 NE/4 Sec. 25: W/2	1040.00	NM-0443-B 1-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis . 1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil...1/2 of 1% D. J. Hoover. . . . 1/2 of 1% E. J. Hoover. . . . 1/2 of 1% F. W. Hoover. . . . 1/2 of 1% F. W. Hoover and E. J. Hoover, Ancillary Administrators of the Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. . . 1/2 of 1% Richard Jansen. . . 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen . . 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit 1/10 of 1 $\frac{1}{4}$ % Blain Pettit. . . . 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss. . . . 5/8 of 1% Wm. R. Voss 5/8 of 1%	Pan American-All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLI- CATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY		WORKING INTEREST OWNER AND PERCENTAGE	
14	T-30N, R-16W Sec. 15: SE/4 SE/4 Sec. 22: SW/4	200.00	NM-04443-C 1-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis .1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil .1/2 of 1% D. J. Hoover. . . . 1/2 of 1% E. J. Hoover. . . . 1/2 of 1% F. W. Hoover. . . . 1/2 of 1% F. W. Hoover and E. J. Hoover, Ancillary Administrators of the Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. . . 1/2 of 1% Richard Jansen . . 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen. . 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit. 1/10 of 1 $\frac{1}{4}$ % Blain Pettit. . . 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss. . . 5/8 of 1% Wm. R. Voss. . . . 5/8 of 1%		Pan American -All	
15	T-30N, R-16W Sec. 14: W/2 NE/4	80.00	NM-04444 4-1-52	USA 12 $\frac{1}{2}$ % (All)	J. R. Abraham	R. P. Mohrbacker and Cavita D. Mohrbacker. . . 3%		J. R. Abraham-All	
16	T-30N, R-16W Sec. 13: S/2 SW/4	80.00	NM-05859 8-1-51	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	R. P. Mohrbacker and Cavita D. Mohrbacker, his wife, as joint tenants.1% Berry Merritt and wife, Jean Merritt, as joint tenants. 1% L. W. Swarts and Hazel Swarts, his wife. 1%		Pan American - All	

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
17	T-30N, R-16W Sec. 15: E/2 NE/4	80.00	NM-06686 3-1-55	USA 12 $\frac{1}{2}$ % (ALL)	Pan American Petroleum Corporation	J. V. Fritts and Ruth C. Fritts, his wife 2 $\frac{1}{2}$ % A. L. Duff, Jr. 2 $\frac{1}{2}$ %	Pan American - All
18	T-30N, R-16W Sec. 12: N/2, N/2 S/2	480.00	SF-081298 10-1-51	USA 12 $\frac{1}{2}$ % (ALL)	El Paso Natural Gas Products Company	Darrel C. Williams . . . 4%	Colorado Oil & Gas Corpora- tion - 50% El Paso Natural Gas Products Company - 50%
19	T-30N, R-16W Sec. 13: S/2 NE/4, N/2 SE/4	160.00	SF-081298-A 10-1-51	USA 12 $\frac{1}{2}$ % (ALL)	Pan American Petroleum Corporation	J. Felix Hickman . . 1-5/6% Helbing & Podpechan . . 2 $\frac{1}{2}$ % Floyd H. Schroeder . . . 1/3 of 1% Clyde C. Mathews and Helen C. Mathews, his wife 1/6 of 1% Charles W. Fryar and Ruby Fryar, his wife 1/6 of 1%	Pan American - All
20	T-30N, R-16W Sec. 11: E/2 Sec. 12: S/2 S/2	480.00	SF-081299 10-1-51	USA 12 $\frac{1}{2}$ % (ALL)	El Paso Natural Gas Products Company	Joe J. Lommori and Darrel C. Williams . . . 4%	Colorado Oil & Gas Corporation - 50% El Paso Natural Gas Products Company - 50%
21	T-30N, R-16W Sec. 13: S/2 SE/4	80.00 (Pt.)	SF-081299A 10-1-51	USA 12 $\frac{1}{2}$ % (ALL)	Pan American Petroleum Corporation	Joe J. Lommori 1 $\frac{1}{4}$ % Thelma Bachechi 1 $\frac{1}{4}$ % Horace F. McKay, Jr. . . . 2 $\frac{1}{2}$ %	Pan American - All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
21 (Continued)							
	T-30N, R-16W Sec. 13: S/2 NW/4, N/2 SW/4	160.00 (Pt.)	SF-081299-A 10-1-51	USA 12 $\frac{1}{2}$ % (ALL)	Pan American Petroleum Corporation	Joe J. Lommori . . . 1-3/4% Thelma Bachechi . . . 1 $\frac{1}{4}$ % Darrell C. Williams and Elizabeth M. Williams 2%	Pan American - All
	T-30N, R-16W Sec. 14: E/2 NE/4 Sec. 13: N/2 NW/4, N/2 NE/4	240.00 (Pt.)	SF-081299A 10-1-51	USA 12 $\frac{1}{2}$ % (ALL)	Pan American Petroleum Corporation	Joe J. Lommori 1 $\frac{1}{2}$ % Thelma Bachechi 1% Darrell C. Williams and Elizabeth M. Williams 2% Dino Lommori $\frac{1}{4}$ of 1% John W. Shirley and Norma P. Shirley . $\frac{1}{4}$ of 1%	Pan American - All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLI- CATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY		WORKING INTEREST OWNER AND PERCENTAGE
22	T-30N, R-16W Sec. 16: NW/4 SE/4, Sec. 36: SE/4 NE/4	80.00	E-3150-1 12-10-49	State of New Mexico 12 $\frac{1}{2}$ % (All)	El Paso Natural Gas Company	John Burroughs	5%	El Paso Natural Gas Company - All
23	T-30N, R-16W Sec. 36: NW/4, NE/4 NE/4, SW/4 NE/4	240.00	E-8343 7-20-54	State of New Mexico 12 $\frac{1}{2}$ % (All)	Pubco Petroleum Corporation	None		Pubco Petroleum Corporation - All
24	T-30N, R-16W Sec. 36: NW/4 NE/4	40.00	B-10405-45 6-24-43	State of New Mexico 12 $\frac{1}{2}$ % (All)	Brookhaven Oil Company	None		Brookhaven Oil Company - All
25	T-30N, R-16W Sec. 16: E/2 SW/4, S/2 SE/4, NE/4 SE/4	200.00	E-9991 4-17-56	State of New Mexico 12 $\frac{1}{2}$ % (All)	Gulf Oil Corporation	None		Gulf Oil Corporation - All
26	T-30N, R-16W Sec. 16: Lots 3, 4	39.08	OG-456 12-18-56	State of New Mexico 12 $\frac{1}{2}$ % (All)	Northwest Production Corporation	None		Northwest Production Corporation - 42 $\frac{1}{2}$ % Pubco Petroleum Corporation - 42 $\frac{1}{2}$ % R. L. Harper - 15%

[illegible]

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY	WORKING INTEREST OWNER AND PERCENTAGE
34	T-30N, R-16W Sec. 21: Lots 1 through 16, Incl.	543.18	Oil & Gas Leasing Rights unknown until determined by the Department of the Interior				
35	T-30N, R-16W Sec. 10: NE/4	160.00	NM-077281 7-1-52	USA 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin & Mary Aidlin, his wife 5%	Pan American -All
	T-30N, R-16W Sec. 10: Lots 3 & 4 E/2 SW/4	157.04	NM-077281 7-1-52	USA - 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Joseph W. Aidlin & Mary Aidlin, his wife 5%	Pan American -All
36	T-30N, R-16W Sec. 11: NW/4, N/2 SW/4, SW/4 SW/4	280.00	NM-077282 1-1-52	USA - 12 $\frac{1}{2}$ % (All)	Pan American Petroleum Corporation	Dorothy Ann Davis 1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil 1/2 of 1% D. J. Hoover. 1/2 of 1% E. J. Hoover. 1/2 of 1% F. W. Hoover. 1/2 of 1% F. W. Hoover & E. J. Hoover, Ancillary Administrators of the Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. 1/2 of 1% Richard Jansen. 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen. 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit 1/10 of 1 $\frac{1}{4}$ % Blain Pettit. 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss. 5/8 of 1% Wm. R. Voss 5/8 of 1%	Pan American -All

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LAND OWNERS AND PERCENTAGE OF ROYALTY		RECORD OWNER OF LEASE OR APPLI- CATION	NAME OF OWNER AND PERCENTAGE OF OVERRIDING ROYALTY		WORKING INTEREST OWNER AND PERCENTAGE	
				USA -	ROYALTY					
37	T-30N, R-16W Sec. 11: SE/4 SW/4	40.00	NM-077283 1-1-52	USA - 12 $\frac{1}{2}$ % (All)		Pan American Petroleum Corporation	Dorothy Ann Davis...1/5 of 1 $\frac{1}{4}$ % Marion Helen Fencil.. 1/2 of 1% D. J. Hoover. . . . 1/2 of 1% E. J. Hoover. . . . 1/2 of 1% F. W. Hoover. . . . 1/2 of 1% F. W. Hoover and E. J. Hoover, Ancillary Administrators of the Estate of Edna J. Hoover. 1/2 of 1% Andreas Jansen. . . . 1/2 of 1% Richard Jansen. . . . 1/10 of 1 $\frac{1}{4}$ % Virginia Jansen. . . . 1/10 of 1 $\frac{1}{4}$ % Alice Augusta Pettit. 1/10 of 1 $\frac{1}{4}$ % Blaine Pettit. . . . 1/10 of 1 $\frac{1}{4}$ % Anna J. Voss. 5/8 of 1% William R. Voss. . . . 5/8 of 1%		Pan American - All	
38	T-30N, R-16W Sec. 10: S/2 SE/4	80.00	NM-077284 3-1-55	USA - 12 $\frac{1}{2}$ % (All)		Pan American Petroleum Corporation	A. L. Duff, Jr. 2 $\frac{1}{2}$ % J. V. Fritts. 2 $\frac{1}{2}$ %		Pan American - All	
39	T-30N, R-16W Sec. 10: N/2 SE/4	80.00	NM-044444 4-1-52	USA - 12 $\frac{1}{2}$ % (All)		J. R. Abraham	R. P. Mohrbacker & Cavita D. Mohrbacker. . . . 3%		J. R. Abraham - All	

RECAPITULATION

<u>LAND</u>	<u>NO. OF TRACTS</u>	<u>ACRES IN UNIT</u>	<u>PERCENTAGE OF UNIT AREA</u>
Federal	26	9,666.64	85.03
State	5	599.08	5.27
Patented	7	560.00	4.92
Undetermined	<u>1</u>	<u>543.18</u>	<u>4.78</u>
TOTAL	39	11,368.90	100.00

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case #1769

March 23, 1961

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

O Attention: Mr. J. B. Jenkins

Re: Second Enlargement of the
Gallup Participating Area
Northeast Hogback Unit
San Juan County, New Mexico.

P Gentlemen:

Y This is to advise that the New Mexico Oil Conservation Commission has this date approved the Second Enlargement of the Gallup Participating Area 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.

Five approved copies of the application are returned herewith.

Very truly yours,

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

ALP/JEK/ig

cc: Commissioner of Public Lands
Santa Fe, New Mexico

U. S. Geological Survey
Roswell, New Mexico

March 23, 1961

C
O
P
Y

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

Re: Second Enlargement of
the Gallup Participating Area
Northeast Hogback Unit
San Juan County, New Mexico

Attention: Mr. J. E. Jenkins

Gentlemen:

The Commissioner of Public Lands has approved the Second Enlargement of the Gallup Participating Area for the Northeast Hogback Unit, as of March 23, 1961.

We are retaining two copies and handing to the Oil Conservation Commission six approved copies for their consideration. We are requesting the Oil Conservation Commission to forward to you five copies of this Participating Area.

Very truly yours,
E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

ESW/mmr/s
cc:

US Geological Survey
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico
January 10, 1961

File: E-22-416

Subject: Application for Approval
Second Enlargement of
The Gallup Participating Area
Northeast Hogback Unit
San Juan County, New Mexico

Director (6)
United States Geological Survey
c/o Oil and Gas Supervisor
Roswell, New Mexico

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

✓ Oil Conservation Commission (3)
The State of New Mexico
State Land Office Building
Santa Fe, New Mexico

All Working Interest Owners
(See Attached Addressee List)

Gentlemen:

Pursuant to Section 11 of the Northeast Hogback Unit Agreement, approved December 18, 1959, Pan American Petroleum Corporation, as Unit Operator, has determined, subject to the approval of the Director, Commissioner, and the Commission, that the Gallup Participating Area in the Northeast Hogback Unit should be enlarged to include lands which are currently producing unitized substances in paying quantities within the enlarged Northeast Hogback Unit. Although final approval of the Northeast Hogback Unit enlargement has not been received, it is very probable that the enlargement will be approved; consequently, Pan American, in order to avoid any delay in enlarging the Gallup Participating Area, is submitting the application for approval of the Second Enlargement of the Gallup Participating Area prior to receipt of final approval of the Unit enlargement.

The proposed Second Enlargement of the Gallup Participating Area contains 797 acres and is described as follows:

W/2 Section 11, T-30-N, R-16-W
NE/4 of Section 10, T-30-N, R-16-W
S/2 of Section 10, T-30-N, R-16-W

Attached as Exhibit "A" is a map which shows that the proposed Second Enlargement of the Gallup Participating Area in the Northeast Hogback Unit will include all acreage in the enlarged Unit area. Attached as Exhibit "B" is a schedule which reflects the ownership and describes the acreage within the Second Enlargement of the Gallup Participating Area. Also attached is a Geological and Engineering Report, including an isopach map, to support the Second Enlargement of the Gallup Participating Area and a tabulation of well data on all 19 producing wells in the Second Enlargement of the Gallup Participating Area.

January 10, 1961
File: E-22-416

-2-

Subject: Application for
Approval Second
Enlargement of the Gallup
Participating Area,
Northeast Hogback Unit
San Juan County, N. Mex.

The effective date for the Second Enlargement of the Gallup Participating Area will be November 1, 1960, which will be the effective date of the enlargement of Northeast Hogback Unit.

Your approval of the proposed Second Enlargement of the Gallup Participating Area in the Northeast Hogback Unit is respectfully requested.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

J. B. Jenkins
J. B. Jenkins
District Superintendent

RBB:en
Attach.

Approved: *Arthur A. Baker* Date: MAR - 8 1961
Director, United States Geological Survey
(Subject to like approval by appropriate
State Officials)

Approved: *Ed Johnson Walker* Date: March 23, 1961
Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

Approved: *A. L. Porter, Jr.* Date: 3. 23. 61
Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commissioner of Public Lands)

[Stamp]
MAR 12 1961

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

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

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

Northwest Production Corporation
520 Sirms 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

GEOLOGICAL AND ENGINEERING REPORT
TO SUPPORT THE SECOND ENLARGEMENT OF THE
GALLUP PARTICIPATING AREA
NORTHEAST HOGBACK UNIT

All 19 producing wells in the proposed Second Enlargement of the Gallup Participating Area in Northeast Hogback Unit are completed in either or both the Upper or Lower Gallup producing zones. These same zones are productive in the present Gallup Participating Area. These Upper and Lower Gallup zones also produce oil in commercial quantities farther to the northwest in the Horseshoe Gallup Field. Therefore, it is evident that Gallup producing zones in the proposed Enlargement of the Participating Area are continuous and geologically equivalent. The attached isopach map shows that the Gallup sand is continuous across the present Participating Area and the proposed enlargement. The isopach map also shows that Gallup sand underlies all acreage which is included in the proposed Second Enlargement of the Gallup Participating Area.

Well data for all 19 producing wells in the proposed Second Enlargement of the Gallup Participating Area is shown on the attached tabulation.

Geological and engineering data both indicate that acreage in the proposed Second Enlargement of the Gallup Participating Area in Northeast Hogback Unit is producing unitized substances in paying quantities from the same formation that is producing within the existing Gallup Participating Area, and that the producing formation is continuous and in communication. Therefore, all acreage in the proposed Second Enlargement of the Gallup Participating Area in Northeast Hogback Unit is reasonably proved productive of unitized substances in paying quantities and should be included in a Gallup Participating Area.

WELL DATA
PRODUCING WELLS IN THE
SECOND ENLARGEMENT OF THE
GALLUP PARTICIPATING AREA
NORTHEAST HOGBACK UNIT

1. Pan American - J. W. Aidlin "A" No. 1
Located NW/4 NE/4 Section 10, T-30-N, R-16-W
TD 1685 PBD 1668
Perforations (Upper Zone): 1492-1512 w/4 SPF
Stimulation (Upper Zone): SOF w/20,000 gals. of
oil and 20,000 lbs. of
sand
Perforations (Lower Zone): 1582-1614 w/4 SPF
Stimulation (Lower Zone): SOF w/30,150 gals. of
oil and 30,000 lbs. of
sand
Initial Potential: Pump 79 B0 in 22 hrs.
Completion Date: August 22, 1958
2. Pan American - J. W. Aidlin "A" No. 2
Located SE/4 NE/4 Section 10, T-30-N, R-16-W
TD 1740 PBD 1704
Perforations (Upper & Lower Zones): 1500-1518;
1590-1622
Stimulation (Upper & Lower Zones): SOF w/40,000 gals.
of oil and 40,000
lbs. of sand
Initial Potential: Pump 55 B0 in 6 hrs.
Completion Date: November 1, 1958
3. Pan American - J. W. Aidlin "A" No. 3
Located SW/4 NE/4 Section 10, T-30-N, R-16-W
TD 1681 PBD 1642
Perforations (Upper Zone): 1480-1512 w/2 SPF
Stimulation (Upper Zone): SOF w/28,670 gals. of oil
and 28,000 lbs. of sand
Perforations (Lower Zone): 1576-1606 w/2 SPF
Stimulation (Lower Zone): SOF w/31,180 gals. of oil
and 45,000 lbs. of sand
Initial Potential: Pump 61 B0 in 7 hrs.
Completion Date: February 14, 1959
4. Pan American - J. W. Aidlin "A" No. 4
Located NE/4 NE/4 Section 10, T-30-N, R-16-W
TD 1678 PBD 1639
Perforations (Upper Zone): 1488-1518 w/2 SPF
Stimulation (Upper Zone): SOF w/23,020 gals. of oil
and 32,785 lbs. of sand
Perforations (Lower Zone): 1582-1610 w/2 SPF
Stimulation (Lower Zone): SOF w/30,250 gals. of oil
and 60,000 lbs. of sand
Initial Potential: Pump 62 B0 in 2-1/4 hrs.
Completion Date: February 26, 1959

5. Pan American - J. W. Aidlin "D" No. 1
Located NE/4 SW/4 Section 10, T-30-N, R-16-W
TD 1780 PBD 1712
Perforations (Upper Zone): 1596-1628 w/2 SPF
Stimulation (Upper Zone): SOF w/47,000 gals. of oil
and 40,000 lbs. of sand
Initial Potential: 18 BO in 24 hrs.
Completion Date: August 17, 1959
6. Pan American - J. W. Aidlin "D" No. 2
Located SE/4 SW/4 Section 10, T-30-N, R-16-W
TD 1693 PBD 1649
Perforations (Upper Zone): 1492-1521 w/2 SPF
Stimulation (Upper Zone): SOF w/29,200 gals. of oil
and 20,000 lbs. of sand
Perforations (Lower Zone): 1547-1555 w/6 SPF
Stimulation (Lower Zone): SOF w/9850 gals. of oil
and 10,000 lbs. of sand
Initial Potential: Flow 85 BOPD
Completion Date: February 28, 1960
7. Pan American - J. W. Aidlin "D" No. 3
Located NW/4 SW/4 Section 10, T-30-N, R-16-W
TD 1605 PBD 1565
Perforations (Upper Gallup): 1454-1484 w/2 SPF
Stimulation (Upper Gallup): SOF w/40,000 gals. of oil
and 40,000 lbs. of sand
Perforations (Lower Gallup): 1505-1523 w/4 SPF
Stimulation (Lower Gallup): SOF w/20,000 gals. of oil
and 20,000 lbs. of sand
Initial Potential: Pump 100 BOPD
Completion Date: April 6, 1960
8. Pan American - J. W. Aidlin "D" No. 4
Located SW/4 SW/4 Section 10, T-30-N, R-16-W
TD 1470 PBD 1431
Perforations (Upper Gallup): 1312-1363 w/2 SPF
Stimulation (Upper Gallup): SOF w/39,200 gals. of oil
and 50,000 lbs. of sand
Initial Potential: Pump 84 BOPD
Completion Date: March 23, 1960

9. Pan American - J. V. Fritts No. 1
Located SE/4 SE/4 Section 10, T-30-N, R-16-W
TD 1885 PBD 1848
Perforations (Upper Gallup): 1688-1720 w/2 SPF
Stimulation (Upper Gallup): SOF w/30,400 gals of oil
and 30,000 lbs. of sand
Perforations (Lower Gallup): 1774-1804 w/2 SPF
Stimulation (Lower Gallup): SOF w/27,500 gals of oil
and 60,000 lbs. of sand
Initial Potential: Pump 100 BO in 14 hrs.
Completion Date: March 26, 1959
10. Pan American - J. V. Fritts No. 2
Located SW/4 SE/4 Section 10, T-30-N, R-16-W
TD 1750 PBD 1711
Perforations (Upper Gallup): 1533-1583 w/2 SPF
Stimulation (Upper Gallup): SOF w/32,800 gals. of oil
and 40,000 lbs. of sand
Perforations (Lower Gallup): 1645-1653, 1661-1669 and
1679-1689 w/4 SPF
Stimulation (Lower Gallup): SOF w/19,000 gals of oil
and 20,000 lbs. of sand
Initial Potential: Pump 57 BOPD
Completion Date: July 27, 1959
11. J. R. Abraham - Federal No. 1
Located NE/4 SE/4 Section 10, T-30-N, R-16-W
TD 1769 PBD 1755
Perforations (Upper & Lower Gallup): 1599-1637; 1691-
1716; 1726-1730 &
1739-1749 w/4 SPF
Stimulation (Upper & Lower Gallup): SOF w/16,000 gals.
of oil and 16,000
lbs. of sand. Re-
SOF perfs 1599-1637
w/16000 gals of oil
and 16,000 lbs. of
sand.
Initial Potential: Flow 528 BOPD
Completion Date: March 30, 1959

12. J. R. Abraham - Federal No. 2-X
Located NW/4 SE/4 Section 10, T-30-N, R-16-W
TD 1712 PBD 1641
Perforation (Upper Gallup): 1480-1490 & 1508-1524
w/8 SPF
Stimulation (Upper Gallup): SOF w/18,500 gals of oil
and 18,000 lbs. of sand
Perforations (Lower Gallup): 1590-1607 w/8 SPF
Stimulation (Lower Gallup): SOF w/13,500 gals of oil
and 13,500 lbs. of sand
Initial Potential: Pump 120 BOPD
Completion Date: March 22, 1960
13. Pan American - O. J. Hoover "B" No. 1
Located NW/4 NW/4 Section 11, T-30-N, R-16-W
TD 1733 PBD 1692
Perforations (Upper & Lower Gallup): 1524-1568 &
1641-1670 w/2 SPF
Stimulation (Upper & Lower Gallup): SOF w/40,000 gals.
of oil and 40,000
lbs. of sand
Initial Potential: Pump 11 BOPD
Completion Date: February 14, 1959
14. Pan American - O. J. Hoover "B" No. 2-X
Located SE/4 NW/4 Section 11, T-30-N, R-16-W
TD 1982 PBD 1946
Perforations (Upper & Lower Gallup): 1776-1818 &
1890-1918 w/2 SPF
Stimulation (Upper & Lower Gallup): SOF w/39,000 gals.
of oil and 40,000
lbs. of sand
Initial Potential: Pump 96 BOPD
Completion Date: December 11, 1958
15. Pan American - O. J. Hoover "B" No. 3
Located NW/4 SW/4 Section 11, T-30-N, R-16-W
TD 1980 PBD 1942
Perforations (Upper & Lower Gallup): 1748-1774 &
1841-1874 w/2 SPF
Stimulation (Upper & Lower Gallup): SOF w/38,000 gals.
of oil and 40,000
lbs. of sand
Initial Potential: Pump 54 BO in 7 hrs.
Completion Date: November 30, 1958

16. Pan American - O. J. Hoover "B" No. 4
Located SW/4 NE/4 Section 11, T-30-N, R-16-W
TD 1885 PBD 1828
Perforations (Upper Gallup): 1684-1720 w/2 SPF
Stimulation (Upper Gallup): SOF w/29,100 gals. of oil
and 30,000 lbs. of sand
Perforations (Lower Gallup): 1792-1818 w/2 SPF
Stimulation (Lower Gallup): SOF w/19,000 gals. of oil
and 20,000 lbs. of sand
Initial Potential: Pump 59 BOPD
Completion Date: January 22, 1959
17. Pan American - O. J. Hoover "B" No. 5
Located NE/4 SW/4 Section 11, T-30-N, R-16-W
TD 2030 PBD 1981
Perforations (Upper Gallup): 1832-1868 w/2 SPF
Stimulation (Upper Gallup): SOF w/30,000 gals. of oil
and 30,000 lbs. of sand
Perforations (Lower Gallup): 1938-1961 w/2 SPF
Stimulation (Lower Gallup): SOF w/18,900 gals. of oil
and 20,000 lbs. of sand
Initial Potential: Pump 62 BO in 9 hrs.
Completion Date: January 18, 1959
18. Pan American - O. J. Hoover "B" No. 6
Located SW/4 SW/4 Section 11, T-30-N, R-16-W
TD 2117 PBD 2078
Perforations (Upper Zone): 1943-1970 w/2 SPF
Stimulation (Upper Zone): SOF w/24,800 gals. of oil
and 30,000 lbs. of sand
Perforations (Lower Zone): 2029-2060 w/2 SPF
Stimulation (Lower Zone): SOF w/32,040 gals. of oil
and 45,000 lbs. of sand
Initial Potential: Pump 63 BO in 8 hrs.
Completion Date: February 1, 1959
19. Pan American - O. J. Hoover "C" No. 1
Located SE/4 SW/4 Section 11, T-30-N, R-16-W
TD 2241 PBD 2202
Perforations (Upper & Lower Gallup): 2056-2076 &
2146-2175 w/2 SPF
Stimulation (Upper & Lower Gallup): SOF w/40,000 gals.
of oil and 40,000
lbs. of sand
Initial Potential: Pump 57 BO in 6 hrs.
Completion Date: November 14, 1958

EXHIBIT "B"
OWNERSHIP SCHEDULE
SECOND ENLARGEMENT TO THE GALLUP PARTICIPATING AREA
NORTHEAST HOGBACK UNIT
SAN JUAN COUNTY, NEW MEXICO
EFFECTIVE NOVEMBER 1, 1960

Tract No.	Description of Land	Serial No. & Date of Lease	Basic Royalty		Owner of Record	Overrides & Production Payments %	Working Interest		Acres	Participation
			Owner	% of 8/8			Owner	% of Lease		
6	NW/4 Sec. 14, T-30N, R-16W	NW-04407 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	160.00	8.35247
7	N/2 SW/4 and SE/4 Sec. 14, T-30N, R-16W	NW-04407-A 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	4.00	Pan American Pet- roleum Corporation	100	240.00	12.52871
7	N/2 NW/4 Sec. 24, T-30N, R-16W	NW-04407-A 7-1-52	USA	12.50	Pan American Pet- roleum Corporation	4.00	Pan American Pet- roleum Corporation	100	80.00	4.17624
11	Lot 1, SW/4, NE/4, NE/4 NW/4, NW/4 NE/4 Sec. 15, T-30N, R-16W	NW-04443 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	158.56	8.27730
13	NE/4 NE/4 Sec. 23, T-30N, R-16W	NW-04443-B 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	40.00	2.08812
13	NW/4 NE/4 Sec. 24, T-30N, R-16W	NW-04443-B 1-1-52	USA	12.50	Pan American Pet- roleum Corporation	5.00	Pan American Pet- roleum Corporation	100	40.00	2.08812
15	W/2 NE/4 Sec. 14, T-30N, R-16W	NW-04444	USA	12.50	J. R. Abraham	3.00	J. R. Abraham	100	(80.00)	0.00000
16	S/2 SW/4 Sec. 13, T-30N, R-16W	NW-05859 8-1-51	USA	12.50	Pan American Pet- roleum Corporation	3.00	Pan American Pet- roleum Corporation	100	80.00	4.17624

OWNERSHIP SCHEDULE (CONT'D)

Page 2

<u>Tract No.</u>	<u>Description of Land</u>	<u>Serial No. & Date of Lease</u>	<u>Basic Royalty Owner</u>	<u>% of 8/8</u>	<u>Owner of Record</u>	<u>Overrides & Production Payments %</u>	<u>Working Interest Owner</u>	<u>% of Lease</u>	<u>Acres</u>	<u>Percent Participation</u>
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	4.17624
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	2.08812
20	SW/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	(200.00)	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
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	2.08812
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	6.26435
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 Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	120.00	6.26435

OWNERSHIP SCHEDULE (CONT'D)

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		
35	NW/4 Sec. 10 T-30N, R-16W	NM-077281 7-1-52	USA	12.50	Pan American Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	160.00	8.35247
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 Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	157.04	8.19795
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 Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	280.00	14.61684
37	SE/4 SW/4 Sec. 11, T-30N, R-16W	NM-077283 1-1-52	USA	12.50	Pan American Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	40.00	2.08812
38	S/2 SE/4, Sec. 10 T-30N, R-16W	NM-077284 3-1-55	USA	12.50	Pan American Petroleum Corporation	5.00	Pan American Petroleum Corporation	100	80.00	4.17624
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)	0.00000
										100.00000%

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	1915.60	440.00	2355.60