

## PAN AMERICAN PETROLEUM CORPORATION

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

File: N-540-416

Subject: Proposed Gallup Participating Area "B"  
With First and Second Enlargements and  
Gallup Participating Area "C" With  
First Enlargement, Gallegos Canyon Unit

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Attention: Mrs. Marian Rhea

Gentlemen:

Attached herewith is Pan American Petroleum Corporation's proposed Gallup Participating Area "B" with First and Second Enlargements and Gallup Participating Area "C" with First Enlargement of the Gallegos Canyon Unit. If this proposal meets with your approval, please execute all copies and send them to the Oil Conservation Commission of the State of New Mexico. We recognize that there is additional productive acreage in the vicinity of Gallegos Canyon Unit No. 120 adjacent to Gallup Participating Area "C", and we plan to submit a second enlargement to Participating Area "C" to include this acreage in the near future.

By copy of this letter to the Oil Conservation Commission, we request that upon their approval they in turn execute all copies and send them to the Oil and Gas Supervisor, United States Geological Survey.

By copy of this letter to the United States Geological Survey, we request that upon approval, they return to Pan American Petroleum Corporation, Box 480, Farmington, New Mexico, four fully executed copies. We will then transmit one fully signed copy of the enlargement to the Commissioner of Public Lands and to the Oil Conservation Commission.

In this manner, the files for each Agency will be complete.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

*T. M. Curtis*  
T. M. Curtis  
District Superintendent

JRK:ep

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

The Oil and Gas Supervisor  
United States Geological Survey  
Roswell, New Mexico

**COPY**

## PAN AMERICAN PETROLEUM CORPORATION

Post Office Box 480  
Farmington, New Mexico  
July 18, 1962

247

Re: AFF 8939  
Unit No. 105,655  
Gallegos Canyon Unit  
Lease No. 187,809-C  
San Juan County  
NEW MEXICO

Tract No. 95

CERTIFIED MAIL  
RETURNED RECEIPT REQUESTED

United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Attention: Mr. John A. Anderson

Gentlemen:

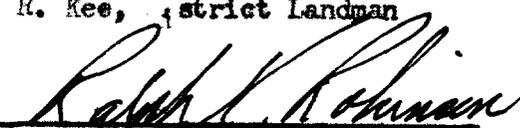
Enclosed are the original and five carbon copies of a Ratification and Joinder of Unit Agreement and Unit Operating Agreement, which was executed on April 25, 1962, by the Town of Farmington in connection with 2.07 acres situated in Tract 95 of the Gallegos Canyon Unit. This Ratification was consented to and accepted by Pan American, as unit operator, on June 14, 1962. On April 25, 1962 Pan American purchased a five year Oil and Gas Lease from the Town of Farmington covering the subject 2.07 acre tract, in which the Town owns a one-half interest in the minerals. The lease provides for a 12-1/2 per cent royalty.

Please process the attached Ratification and return the surplus copies to this office after the instrument has been approved. Do not hesitate to contact us if you desire additional information.

By carbon copy of this letter to the Commissioner of Public Lands and by carbon copy of this letter to the Oil Conservation Commission, we are enclosing an executed carbon copy of the Ratification for their files.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION  
Ben R. Kee, District Landman

By:   
Ralph K. Robinson

R/KR:sb  
Enclosures

cc: Commissioner of Public Lands  
Box 791  
Santa Fe, New Mexico

**COPY**

New Mexico Oil Conservation Commission  
Box 871  
Santa Fe, New Mexico

RATIFICATION OF JOINDER OF UNIT AGREEMENT  
AND UNIT OPERATING AGREEMENT

---

In consideration of the execution of the Unit Agreement for the Development and Operation of the Gallegos Canyon Unit Area, County of San Juan, State of New Mexico, dated the 1st day of November, 1950, in form approved on behalf of the Secretary of the Interior, the undersigned, whether one or more, hereby expressly joins said Unit Agreement and ratifies, approves, and adopts said Agreement, its terms and any modifications thereof.

This ratification and joinder shall be effective as to the undersigned's interest in any lands and leases or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any of the following described land:

~~XXXXXXXXXXXX~~

**2.07 acres described as Beginning at a point which is 703.4 feet North 89° 42' East of the Southwest corner of the SE 1/4 NW 1/4 of Section 13, Township 29 North, Range 13 West, N.M.P.M., thence North 300.0 feet; thence North 89° 42' East 300.0 feet; thence South 300.0 feet; thence South 89° 42' West 300.0 feet to the point of beginning.**

As a part and parcel of this ratification and joinder, the undersigned to the extent of his or its interest expressly agrees:

(1) That the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement.

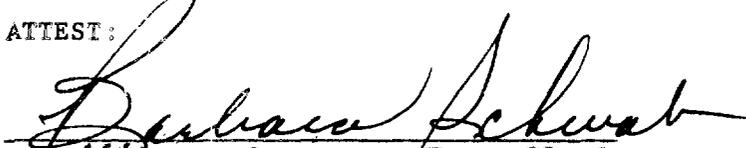
(2) That the drilling, development, and producing requirements of all leases and other contracts in which undersigned's rights and interest are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement.

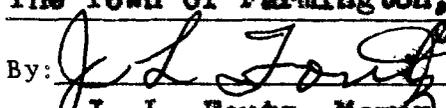
(3) That payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interest do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

For a like consideration, the undersigned does hereby expressly ratify, approve, adopt, confirm, and join in said Unit Operating Agreement and Amendment and Supplement thereto, dated September 1, 1960, 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.

This Ratification and Joinder of Unit Agreement and Unit Operating Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns, or successors in interest.

EXECUTED this 25<sup>th</sup> day of April, 1962.

ATTEST:  
  
~~XXXXXXXXXXXX~~ Secretary/Town Clerk

The Town of Farmington, a Municipal Corporation  
By:   
J. L. Fouts, Mayor

CONSENTED TO AND ACCEPTED AS OF THE 14<sup>th</sup> DAY OF June, 1962.  
PAN AMERICAN PETROLEUM CORPORATION, Unit Operator

By: , Attorney-in-Fact  
D. B. MASON, JR.

APPROVED  


SINGLE ACKNOWLEDGMENT

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, before me personally appeared \_\_\_\_\_, to me known to be the person described in and who executed the foregoing instrument, and acknowledged that \_\_\_\_\_ executed the same as \_\_\_\_\_ 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.

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
NOTARY PUBLIC in and for  
County, \_\_\_\_\_

JOINT ACKNOWLEDGMENT

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 196\_\_\_\_, before me personally appeared \_\_\_\_\_ and wife, \_\_\_\_\_, 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.

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
NOTARY PUBLIC in and for  
County, \_\_\_\_\_

CORPORATE ACKNOWLEDGMENT

STATE OF NEW MEXICO  
COUNTY OF SAN JUAN

On this 17<sup>th</sup> day of April, 1962, before me appeared J. L. Fouts, to me personally known, who, being by me duly sworn did say that he is the Mayor of The Town of Farmington, a Municipal 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~~ <sup>Trustees</sup> and said J. L. Fouts 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: \_\_\_\_\_

\_\_\_\_\_  
NOTARY PUBLIC in and for

\_\_\_\_\_  
County, \_\_\_\_\_

# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico

June 14, 1962

File: N-481-416

Subject: Proposed Gallup Participating Area "B"  
With First and Second Enlargements &  
Gallup Participating Area "C" With  
First Enlargement, Gallegos Canyon Unit

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

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

All Working Interest Owners  
Gallegos Canyon Unit  
(See Attached Addressee List)

Gentlemen:

The United States Geological Survey has returned Pan American's application for the First Enlargement of the Gallup Participating Area in the Gallegos Canyon Unit. The U.S.G.S. replied as follows:

"Our Washington Office has returned the application with the request that (1) the application be revised to provide for a separate Gallup participating area in lieu of the first revision of the Initial Gallup Participating Area, since the two areas are approximately six miles apart and have two condemning wells in between; or (2) a much stronger justification be furnished that the two areas are geologically qualified as a single pool or deposit. If you elect to submit an application for a separate Initial Gallup Participating Area, we suggest such participating area be entitled Gallup Participating Area "B", and that your application request that the original Gallup participating area be designated as Gallup Participating Area "A"."

We are of the opinion that we could not submit a very strong justification that the Initial Participating Area, which consists of 360 acres surrounding Gallegos Canyon Unit Well No. 83, and the proposed First Enlargement, which consists of reasonably proven productive acreage in the Totah Gallup Field, are geologically qualified as a single pool or deposit. Therefore, Pan American requests that the application for the First Enlargement of the Gallup Participating Area be voided and superseded by the following application.

Pan American Petroleum Corporation, as Unit Operator for the Gallegos Canyon Unit, respectfully submits for your approval the Gallup Participating Area "B" with First and Second Enlargements and Gallup Participating Area "C" with

RECEIVED  
JUL 26 1962

U. S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

June 12, 1962

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

File: N-481-416  
Subject: Proposed Gallup Participating Area  
"B" With First & Second Enlarge-  
ments & Gallup Participating Area  
"C" With First Enlargement,  
Gallegos Canyon Unit

First Enlargement for the Gallegos Canyon Unit. We further request that the Initial Gallup Participating Area be redesignated as Initial Gallup Participating Area "A".

The Gallup Participating Area "B" with First and Second Enlargements consists of 715.4 acres and includes all reasonably proven productive acreage in the Totah Gallup Field portion of the Gallegos Canyon Unit. The Gallup Participating Area "C" with First Enlargement consists of 1240.00 acres and includes reasonably proven productive acreage in the Cha Cha Gallup Field portion of the Gallegos Canyon Unit. The attached Engineering and Geological Report describes the acreage and indicates that all the acreage included in the Second Enlarged Gallup Participating Area "B" and First Enlarged Gallup Participating Area "C" is reasonably proven productive.

The effective dates of the Initial, First Enlarged, and Second Enlarged Gallup Participating Area "B" are May 1, 1961, July 1, 1961, and October 1, 1961, respectively. The effective dates of the Initial and First Enlarged Gallup Participating Area "C" are August 5, 1961, and November 1, 1961, respectively. These effective dates were based on the completion date of the well on which the initial area or enlargements were predicated.

Attached for your information is Exhibit "B", which is the Ownership Schedule for the Initial Gallup Participating Area "B" with First and Second Enlargements and Initial Gallup Participating Area "C" with First Enlargement. Also attached, as Exhibit "A", is a map showing the entire Gallegos Canyon Unit, the Initial Gallup Participating Area "A" and the proposed Initial Gallup Participating Area "B" with First and Second Enlargements and Initial Gallup Participating Area "C" with First Enlargement.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

*T. M. Curtis*  
T. M. Curtis  
District Superintendent

JRK:en  
Attach.

APPROVED: *Arthur A. Baker* DATE AUG 24 1962  
Acting Director, U. S. Geological Survey

APPROVED: *E. Walker* DATE June 24, 1962  
Commissioner of Public Lands

APPROVED: *A. L. Fetter* DATE 7-25-62  
Oil Conservation Commission

MAILING LIST OF WORKING INTEREST OWNERS  
GALLEGOS CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Wilkin, Prod. Dept.

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Deewall, Land Dept.

Mary Roberts Berry  
208 E. Washington Street  
Washington, Iowa

Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

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

B. H. and Dyvena Crawford  
Bloomfield, New Mexico

Delta Oil Company of Utah  
c/o Universal Minerals, Inc.  
1126 Mercantile Securities Bldg.  
Dallas 1, Texas

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas  
Attention: Land Department

Mr. Olen F. Featherstone  
Roswell Petroleum Building  
Roswell, New Mexico

Ernest A. Hanson  
P. O. Box 1515  
Roswell, New Mexico

L. B. Hodges  
P. O. Box 1558  
Roswell, New Mexico

Elma R. Jones  
764 Twentieth Avenue  
San Francisco, California

Locke-Taylor Drilling Company  
801 Second Avenue  
Durango, Colorado

Petro-Atlas, Inc.  
2000 National Bank of Tulsa Building  
Tulsa, Oklahoma

John J. Redfern, Jr.  
P. O. Box 1747  
Midland, Texas

H. K. Riddle  
644 East Barcelona Rd.  
Santa Fe, New Mexico

John H. Trigg  
P. O. Box 520  
Roswell, New Mexico

Texas Pacific Coal & Oil Company  
P. O. Box 2110  
Fort Worth 1, Texas  
Attention: Mr. R. W. Hines

Skelly Oil Company  
P. O. Box 1650  
Tulsa 2, Oklahoma  
Attention: Mr. R. G. Hiltz

Skelly Oil Company  
P. O. Box 38  
Hobbs, New Mexico  
Attention: Mr. H. E. Aab

Wood Oil Company  
Room 800 - Midstates Building  
Tulsa, Oklahoma

Texaco, Inc.  
P. O. Box 2100  
Denver, Colorado

Sunray DX Oil Company  
Fourth Floor, 101 University Building  
Cherry Creek Center  
Denver 6, Colorado  
Attention: Mr. A. W. Wadman, Jr.

Aztec Oil and Gas Company  
920 Mercantile Securities Building  
Dallas 1, Texas  
Attention: Mr. H. L. Snider, Jr.

Southern Union Production Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas  
Attention: Mr. A. M. Wiederkehr

National Drilling Company, Inc.  
4810 N. Kenneth Avenue  
Chicago 30, Illinois

Diversa, Inc.  
633 Meadows Building  
Dallas 6, Texas

The Atlantic Refining Co.  
Suite 760, Petroleum Club Building  
110 - 16th Street  
Denver 2, Colorado

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

Marie C. Anderson  
372 Euclid Avenue  
Oakland California

Agnes L. Fulsaa  
1807 78th Avenue  
Oakland, California

Arthur B. Johnson  
1114 Laurel Drive  
Lafayette, California

Harold K. Johnson  
1118 Laurel Drive  
Lafayette, California

# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico

May 8, 1962

247

File: N-429-416

Subject: 1962 Plan of Development  
for the Gallegos Canyon Unit

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:

Application for approval of the 1962 Plan of Development for the Gallegos Canyon Unit dated December 20, 1961, has been approved by the Director, the Commissioner, and the Commission on the following dates:

Director United States Geological Survey	March 30, 1962
Commissioner of Public Lands State of New Mexico	April 9, 1962
New Mexico Oil Conservation Commission	May 1, 1962

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis  
District Superintendent

CKD:en

MAILING LIST OF WORKING INTEREST OWNERS  
GALLEGOS CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Wilkin, Prod. Dept.

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Vendig, Land Dept.

Mary Roberts Berry  
208 E. Washington Street  
Washington, Iowa

Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

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

B. H. and Dyvena Crawford  
Bloomfield, New Mexico

Delta Oil Company of Utah  
c/o Universal Minerals, Inc.  
1126 Mercantile Securities Bldg.  
Dallas 1, Texas

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas  
Attention: Land Department

Mr. Olen F. Featherstone  
Roswell Petroleum Building  
Roswell, New Mexico

Ernest A. Hanson  
P. O. Box 1515  
Roswell, New Mexico

L. B. Hodges  
P. O. Box 1558  
Roswell, New Mexico

Mrs. James A. Anderson, Executrix of  
Estate of Edward J. Johnson  
372 Euclid Avenue  
Oakland 10, California

Elma R. Jones  
764 Twentieth Avenue  
San Francisco, California

Locke-Taylor Drilling Company  
801 Second Avenue  
Durango, Colorado

Petro-Atlas, Inc.  
2000 National Bank of Tulsa Building  
Tulsa, Oklahoma

John J. Redfern, Jr.  
P. O. Box 1747  
Midland, Texas

H. K. Riddle  
644 East Barcelona Rd.  
Santa Fe, New Mexico

John H. Trigg  
P. O. Box 6529  
Roswell, New Mexico

Texas Pacific Coal & Oil Company  
P. O. Box 2110  
Fort Worth 1, Texas  
Attention: Mr. R. W. Hines

Skelly Oil Company  
P. O. Box 1650  
Tulsa 2, Oklahoma  
Attention: Mr. R. G. Hiltz

Skelly Oil Company  
P. O. Box 38  
Hobbs, New Mexico  
Attention: Mr. H. E. Aab

Wood Oil Company  
Room 800 - Midstates Building  
Tulsa, Oklahoma

Sunray DX Oil Company  
Fourth Floor, 101 University Building  
Cherry Creek Center  
Denver 6, Colorado  
Attention: Mr. A. W. Wadman, Jr.

Texaco, Inc.  
P. O. Box 2100  
Denver, Colorado

Aztec Oil and Gas Company  
920 Mercantile Securities Building  
Dallas 1, Texas  
Attention: Mr. H. L. Snider, Jr.

Southern Union Production Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas  
Attention: Mr. A. M. Wiederkehr

National Drilling Company, Inc.  
4810 N. Kenneth Avenue  
Chicago 30, Illinois

Diversa, Inc.  
633 Meadows Building  
Dallas 6, Texas

The Atlantic Refining Co.  
Suite 760 Petroleum Club Building  
110 - 16th Street  
Denver 2, Colorado

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



# PAN AMERICAN PETROLEUM CORPORATION

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

PM 1 33 207

File: N-282-416

Subject: Revision to  
Schedule of Ownership  
Third Enlarged Dakota  
Participating Area  
Gallegos Canyon Unit

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:

In reference to the Schedule of Ownership transmitted with our letter dated March 16, 1962, File: N-250-416, we are attaching a corrected Recapitulation page with an effective date of March 1, 1962, rather than July 1, 1961. Please insert this corrected page in your copy. This date represents the actual date of inclusion of Tract No. 161 as committed by Atlantic Refining Company and accepted by the United States Geological Survey.

Also attached hereto, we are submitting a revised Schedule of Ownership to complete your files to include only Tract No. 82 as committed by Pubco Petroleum Corporation with an effective date of February 1, 1962. These separate revisions are necessary due to the different effective dates of commitment of Tract Nos. 82 and 161 and the participation percentages applicable to each tract.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

*T. M. Curtis*  
T. M. Curtis  
District Superintendent

CKD:en

Attach.

MAILING LIST OF WORKING INTEREST OWNERS  
GALLEGOS CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Wilkin, Prod. Dept.

Mrs. James A. Anderson, Executrix of  
Estate of Edward J. Johnson  
372 Euclid Avenue  
Oakland 10, California

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Vendig, Land Dept.

Elma R. Jones  
764 Twentieth Avenue  
San Francisco, California

Mary Roberts Berry  
208 E. Washington Street  
Washington, Iowa

Locke-Taylor Drilling Company  
801 Second Avenue  
Durango, Colorado

Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

Petro-Atlas, Inc.  
2000 National Bank of Tulsa Building  
Tulsa, Oklahoma

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

John J. Redfern, Jr.  
P. O. Box 1747  
Midland, Texas

B. H. and Dyvena Crawford  
Bloomfield, New Mexico

H. K. Riddle  
644 East Barcelona Rd.  
Santa Fe, New Mexico

Delta Oil Company of Utah  
c/o Universal Minerals, Inc.  
1126 Mercantile Securities Bldg.  
Dallas 1, Texas

John H. Trigg  
P. O. Box 6529  
Roswell, New Mexico

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas  
Attention: Land Department

Texas Pacific Coal & Oil Company  
P. O. Box 2110  
Fort Worth 1, Texas  
Attention: Mr. R. W. Hines

Mr. Olen F. Featherstone  
Roswell Petroleum Building  
Roswell, New Mexico

Skelly Oil Company  
P. O. Box 1650  
Tulsa 2, Oklahoma  
Attention: Mr. R. G. Hiltz

Ernest A. Hanson  
P. O. Box 1515  
Roswell, New Mexico

Skelly Oil Company  
P. O. Box 38  
Hobbs, New Mexico  
Attention: Mr. H. E. Aab

L. B. Hodges  
P. O. Box 1558  
Roswell, New Mexico

Wood Oil Company  
Room 800 - Midstates Building  
Tulsa, Oklahoma

Sunray Mid-Continent Oil Company  
Fourth Floor, 101 University Building  
Cherry Creek Center  
Denver 6, Colorado  
Attention: Mr. A. W. Wadman, Jr.

Texaco, Inc.  
P. O. Box 3109  
Midland, Texas  
Attention: Mr. R. T. Maxwell

Aztec Oil and Gas Company  
920 Mercantile Securities Building  
Dallas 1, Texas  
Attention: Mr. H. L. Snider, Jr.

Southern Union Production Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas  
Attention: Mr. A. M. Wiederkehr

National Drilling Company, Inc.  
4810 N. Kenneth Avenue  
Chicago 30, Illinois

Diversa, Inc.  
633 Meadows Building  
Dallas 6, Texas

The Atlantic Refining Co.  
Suite 760, Petroleum Club Building  
110 - 16th Street  
Denver 2, Colorado

Pubco Petroleum Corporation  
P. O. Box 1429  
Albuquerque, New Mexico

April 9, 1962

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

**Re: 1962 Plan of Development**  
**Gallegos Canyon Unit,**  
**San Juan County, New Mexico**

**Attention: Mr. T. M. Curtis**

**Gentlemen:**

The Commissioner of Public Lands has this date approved the 1962 Plan of Development for Gallegos Canyon Unit Area, San Juan County, New Mexico, which proposed the drilling of five Dakota and two Gallup formation wells.

This office has not received a plan of operation for your proposed pressure maintenance project in the Gallup formation.

One approved copy of the 1962 Plan of Development is enclosed.

Very truly yours,

**E. S. JOHNNY WALKER**  
**COMMISSIONER OF PUBLIC LANDS**

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

**ESW/mar/v**  
**encl:**

**cc: Oil Conservation Commission**  
**Santa Fe, New Mexico**

**U. S. Geological Survey**  
**Roswell, New Mexico**

C  
O  
P  
Y



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico

March 30, 1962

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

Attention: Mr. T. M. Curtis

Gentlemen:

Your 1962 plan of development dated December 20, 1961, for the Gallegos Canyon unit area, San Juan County, New Mexico, which proposes the drilling of five Dakota, and two Gallup formation wells, has been approved on this date subject to like approval by the appropriate State officials.

A separate plan should be submitted for approval of the pressure maintenance project proposed for the Gallup formation. Such plan should include a plat showing the type of pattern to be used and the wells to be converted to water injection.

Three approved copies of the 1962 plan are enclosed.

Very truly yours,

[Orig. Sgd.] JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

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

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

47

March 21, 1962

C  
O  
P  
Y

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

Attention: Mr. L. O. Speer

Re: 1961 Plan of Development  
Gallegos Canyon Unit, San  
Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1961 Plan of Development for the Gallegos Canyon 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/ig

cc: U. S. Geological Survey - Roswell  
State Land Office - Santa Fe

# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico  
March 16, 1962

File: N-250-416

Subject: Revised Schedule of Ownership  
Third Dakota Participating Area  
Gallegos Canyon Unit

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:

Attached is a Revised Schedule of Ownership for the Third Dakota Participating Area in the Gallegos Canyon Unit. This revision incorporates the subsequent joinder of Tract Nos. 82 and 161 by Pubco Petroleum Corporation and Atlantic Refining Company, respectively, and indicates the participation percentages allocated thereto.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis  
District Superintendent

CKD:en

Attach.

247  
MAR 21 1962  
MAIL ROOM

MAILING LIST OF WORKING INTEREST OWNERS  
GALLEGOS CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Wilkin, Prod. Dept.

Mrs. James A. Anderson, Exectrix of  
Estate of Edward J. Johnson  
372 Euclid Avenue  
Oakland 10, California

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Vendig, Land Dept.

Elma R. Jones  
764 Twentieth Avenue  
San Francisco, California

Mary Roberts Berry  
208 E. Washington Street  
Washington, Iowa

Locke-Taylor Drilling Company  
801 Second Avenue  
Durango, Colorado

Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

Petro-Atlas, Inc.  
2000 National Bank of Tulsa Building  
Tulsa, Oklahoma

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

John J. Redfern, Jr.  
P. O. Box 1747  
Midland, Texas

B. H. and Dyvena Crawford  
Bloomfield, New Mexico

H. K. Riddle  
644 East Barcelona Rd.  
Santa Fe, New Mexico

Delta Oil Company of Utah  
c/o Universal Minerals, Inc.  
1126 Mercantile Securities Bldg.  
Dallas 1, Texas

John H. Trigg  
P. O. Box 6529  
Roswell, New Mexico

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas  
Attention: Land Department

Texas Pacific Coal & Oil Company  
P. O. Box 2110  
Fort Worth 1, Texas  
Attention: Mr. R. W. Hines

Mr. Olen F. Featherstone  
Roswell Petroleum Building  
Roswell, New Mexico

Skelly Oil Company  
P. O. Box 1650  
Tulsa 2, Oklahoma  
Attention: Mr. R. G. Hiltz

Ernest A. Hanson  
P. O. Box 1515  
Roswell, New Mexico

Skelly Oil Company  
P. O. Box 38  
Hobbs, New Mexico  
Attention: Mr. H. E. Aab

L. B. Hodges  
P. O. Box 1558  
Roswell, New Mexico

Wood Oil Company  
Room 800 - Midstates Building  
Tulsa, Oklahoma

Sunray Mid-Continent Oil Company  
Fourth Floor, 101 University Building  
Cherry Creek Center  
Denver 6, Colorado  
Attention: Mr. A. W. Wadman, Jr.

Texaco, Inc.  
P. O. Box 3109  
Midland, Texas  
Attention: Mr. R. T. Maxwell

Aztec Oil and Gas Company  
920 Mercantile Securities Building  
Dallas 1, Texas  
Attention: Mr. H. L. Snider, Jr.

Southern Union Production Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas  
Attention: Mr. A. M. Wiederkehr

National Drilling Company, Inc.  
4810 N. Kenneth Avenue  
Chicago 30, Illinois

Diversa, Inc.  
633 Meadows Building  
Dallas 6, Texas

The Atlantic Refining Co.  
Suite 760, Petroleum Club Building  
110 - 16th Street  
Denver 2, Colorado

Pubco Petroleum Corporation  
P. O. Box 1429  
Albuquerque, New Mexico

# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico  
March 2, 1962

MAR 5 1962 AM 5 25

File: N-186-416

Subject: Approval of the  
Third Enlargement  
Dakota Participating Area  
Gallegos Canyon Unit

247

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:

Application for approval of the Third Enlargement to the Dakota Participating Area in Gallegos Canyon Unit dated December 11, 1961, has been approved by the Director, the Commissioner, and the Commission on the following dates:

Director United States Geological Survey	February 16, 1962
Commissioner of Public Lands State of New Mexico	December 19, 1961
New Mexico Oil Conservation Commission	December 20, 1961

The Third Enlargement to the Dakota Participating Area is effective as of July 1, 1961.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis  
District Superintendent

CKD:en

# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico  
December 11, 1961

File: N-691-416

Subject: Request for Approval  
Third Enlargement of the  
Dakota Participating Area  
Gallegos Canyon 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:

Pursuant to the provisions of Section 10 of the Unit Agreement for the Gallegos Canyon Unit, Pan American Petroleum Corporation, as Unit Operator, has determined, subject to the approval of the Director, Commissioner, and Commission, that Gallegos Canyon Unit Nos. 89, 90, 93, 95, 96, 102, 106, 107, 108, 109, 110, and 111 are capable of producing unitized substances in paying quantities from the Dakota formation and that a Third Enlargement of the Dakota Participating Area in Gallegos Canyon Unit should be made. The twelve wells are described in detail in the attached Engineering and Geological Report.

The proposed Third Enlargement of the Dakota Participating Area contains 28,279.60 acres and is described as follows:

Sections 4, 5, 6, and N/2 Section 9	T-27-N, R-12-W
Sections 18, 19 and S/2 Sections 7 and 31	T-28-N, R-11-W
Sections 13, 14, 15, 16, 29, 30, 31, 32, 33, 34, 35, 36, and S/2 Sections 8, 9, 10, 11, 12	T-28-N, R-12-W
Sections 25, 35, 36	T-28-N, R-13-W
Sections 17, 18, 19, 20, 21, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36; SW/4 Section 16; and NW/4, SW/4, and SE/4 of Sections 22 and 25	T-29-N, R-12-W
Sections 13, 23, and 24	T-29-N, R-13-W

Total acreage in the Dakota Participating Area after this Third Enlargement is 43,146.62 acres as shown on the attached schedule, Exhibit "B", which

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

-2-

December 11, 1961

File: N-691-416

Subject: Request for Approval, Third  
Enlargement, Dakota Participating  
Area, Gallegos Canyon  
Unit, San Juan County, New  
Mexico

describes and shows the ownership of acreage in the Dakota Participating Area after the Third Enlargement. The Third Enlarged Dakota Participating Area includes the entire Gallegos Canyon Unit.

It is proposed that the effective date for the Third Enlargement of the Dakota Participating Area be July 1, 1961. The Gallegos Canyon Unit Nos. 89 and 96 were completed during May, 1961, the Gallegos Canyon Unit Nos. 90 and 95 were completed during June, 1961, the Gallegos Canyon Unit Nos. 93, 102, 106, and 107 were completed during September, 1961, the Gallegos Canyon Unit Nos. 108 and 109 were completed during October, 1961, and the Gallegos Canyon Unit Nos. 110 and 111 were completed during November, 1961. The completion of these wells, coupled with the completed wells just outside the Unit boundary, reasonably proves all the acreage within the Third Enlargement to be productive from the Dakota formation. Section 10 of the Unit Agreement states that the effective date of any revision shall be the first of the month following the date of first authentic knowledge or information on which such revision is predicated, unless a more appropriate effective date is specified in the schedule. Prior to October 1, 1961, no sale of gas from any well in the proposed enlargement area was being made, and the only Dakota production was a small amount from one well. However, a substantial sale of gas from the Gallegos Canyon Unit commenced that date. Since the entire Unit is now reasonably proven productive, Pan American proposes July 1, 1961, as a more appropriate date, according to Section 10 of the Unit Agreement. This date is a median of the completion dates of the wells completed in the Third Enlargement area.

The attached map, Exhibit "A", shows the proposed Third Enlargement of the Dakota Participating Area in the Gallegos Canyon Unit. Also attached is an Engineering and Geological Report, including cross sections, to support the Third Enlargement and prove the acreage included in the Third Enlargement is productive of gas in paying quantities from the Dakota formation.

Your approval of the proposed Third Enlargement of the Dakota Participating Area in the Gallegos Canyon Unit is respectfully requested.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

  
T. M. Curtis  
District Superintendent

JRK:en  
Attachments

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

-2-

December 11, 1961  
File: N-691-416  
Subject: Request for Approval, Third  
Enlargement, Dakota Partici-  
pating Area, Gallegos Canyon  
Unit, San Juan County, New  
Mexico

Approved *William A. Baker*  
Acting Director, United States Geological Survey  
(Subject to like approval by appropriate  
State Officials)

Date FEB 16 1962

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

Date December 19, 1961

Approved *A. H. Porter*  
Oil Conservation Commission  
(Subject to like approval by U.S.G.S.  
and Commissioner of Public Lands)

Date Dec 20, 1961



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Drawer 1857

Roswell, New Mexico

February 27, 1962

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

Attention: Mr. T. M. Curtis

Gentlemen:

Your application of December 11, 1961, for the third revision of the Dakota participating area, Callegos Canyon unit, San Juan County, New Mexico, was approved on February 16, 1962, by the Acting Director of the Geological Survey, effective as of July 1, 1961.

Six approved copies of the application are enclosed. It is assumed that you will furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

[Orig. Sgd.] JOHN A. ANDERSON  
ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (ltr only)  
BLM-Santa Fe (w/cy of appln.)  
Farmington (w/cy of appln.)  
NMOCC-Santa Fe (ltr only) ✓  
Com. of Public Lands-Santa Fe (ltr only)

247

1962 FEB 22 AM 8:15

# PAN-AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico  
February 21, 1962

File: N-161-416

Subject: Revised Schedule of Ownership  
Pictured Cliffs Participating Area  
Gallegos Canyon Unit

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  
Pictured Cliffs Participating Area  
(See Attached Addressee List)

Gentlemen:

The attached Schedule of Ownership for the Pictured Cliffs Participating Area reflects the revised participation percentages occasioned by the subsequent joinder of Tract 82, being the NE/4 of the NE/4 of Section 36, T-29-N, R-13-W, effective February 1, 1962, as accepted by Pan American Petroleum Corporation as Unit Operator.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis  
District Superintendent

CKD:en  
Attach.

MAILING LIST OF WORKING INTEREST OWNERS  
PICTURED CLIFFS PARTICIPATING AREA  
GALLEGOS CANYON UNIT  
SAN JUAN COUNTY, NEW MEXICO

Aztec Oil and Gas Company  
920 Mercantile Securities Building  
Dallas 1, Texas  
Attention: Mr. H. L. Snider, Jr.

Mrs. James A. Anderson, Executrix of  
Estate of Edward J. Johnson  
372 Euclid Avenue  
Oakland 10, California

Delta Oil Company of Utah  
c/o Universal Minerals, Inc.  
1126 Mercantile Securities Bldg.  
Dallas 1, Texas

Diversa, Inc.  
633 Meadows Building  
Dallas 6, Texas

Southern Union Production Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas  
Attention: Mr. A. M. Wiederkehr

Texaco, Inc.  
P. O. Box 3109  
Midland, Texas  
Attention: Mr. R. T. Maxwell

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Wilkin, Prod. Dept.

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Vendig, Land Dept.

Pubco Petroleum Corporation  
P. O. Box 1429  
Albuquerque, New Mexico

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

L. B. Hodges  
P. O. Box 1558  
Roswell, New Mexico

Elma R. Jones  
764 Twentieth Avenue  
San Francisco, California

National Drilling Company, Inc.  
4810 North Kenneth Avenue  
Chicago 30, Illinois

Wood Oil Company  
Room 800 - Midstates Building  
Tulsa, Oklahoma

Sunray Mid-Continent Oil Company  
Fourth Floor, 101 University Building  
Cherry Creek Center  
Denver 6, Colorado  
Attention: Mr. A. W. Wadman, Jr.

Texas Pacific Coal & Oil Company  
P. O. Box 2110  
Fort Worth 1, Texas  
Attention: Mr. R. W. Hines

E. A. Hanson  
P. O. Box 1515  
Roswell, New Mexico

Olen F. Featherstone  
Roswell Petroleum Corporation  
Roswell, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

247

MAIL OFFICE 000

P. O. Box 480, Farmington, New Mexico  
February 5, 1962

1962 FEB 7 AM 11:29

File: N-118-416

Subject: Third Enlargement  
Dakota Participating Area  
Gallegos Canyon UnitCommissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Attention: Mrs. Marian M. Rhea

Gentlemen:

Reference is made to your letter of January 30, 1962, concerning the 1961 Production History for the V. W. McManus Well No. 1 attached to the subject application. This production data was in error, and we are attaching a corrected list of 1961 production. Also attached are copies of Form C-115, Monthly Report of Production. By copy of this letter to the Regulatory Bodies we request that they substitute the corrected list attached for the one previously furnished.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION


T. M. Curtis  
District SuperintendentCKD:en  
Attach.cc: Oil Conservation Commission  
Santa Fe, New MexicoU. S. Geological Survey  
Roswell, New Mexico

COPY

1961 PRODUCTION HISTORY  
V. W. MCMANUS NO. 1  
SW/4 SW/4 SECTION 22, T-28-N, R-12-W  
BASIN DAKOTA FIELD  
SAN JUAN COUNTY, NEW MEXICO

<u>Month</u>	<u>Gas, MCF</u>	<u>Condensate Barrels</u>	<u>Days Produced</u>
January	3,801	12	14
February	1,803	0	8
March	12,796	168	28
April	12,272	117	27
May	72	0	1
June	62	-24	1
July	32	0	1
August	52	0	1
September	24	-2	1
October	2,930	96	13
November	19,298	218	32
December	7,162	84	12

MAIN OFFICE OCC

1962 JAN 31 AM 9:21

January 29, 1962

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

Re: 1961 Plan of Development  
Gallegos Canyon Unit  
San Juan County,  
New Mexico

Attention: Mr. L. O. Speer

Gentlemen:

Please find enclosed one approved copy of the 1961  
Plan of Development, Gallegos Canyon Unit, San Juan County,  
New Mexico.

We believe this will more or less put Gallegos Canyon  
on a current basis.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

ESW/mor/v  
cc: U.S. Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

COPY

# PAN AMERICAN PETROLEUM CORPORATION

P. O. BOX 1410

FORT WORTH, TEXAS  
January 24, 1962

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

File: BAL-221-416

Subject: Gallegos Canyon Unit  
San Juan County, New Mexico  
I - Sec. No. 844

247

REGISTERED MAIL - Return Receipt Requested

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

Dear Sir:

Furnished herewith for your files are four copies of ratification instruments relating to joinder by working interest owners to the Gallegos Canyon Unit Agreement, I - Sec. No. 844, New Mexico, as follows:

<u>Joinder to</u>	<u>Date Executed</u>	<u>Executed by</u>
Unit Agreement and Unit Operating Agreement	January 15, 1962	The Atlantic Refining Company, who has filed an application for United States Oil and Gas Lease bearing Serial No. NM-0175791; identified as Federal land unit tract No. 161.
Unit Agreement and Unit Operating Agreement	January 15, 1962	Pubco Petroleum Corporation, reported lessee of record and working interest owner in State land unit tract No. 82.

Lands committed to the Unit are more fully described in the instruments attached.

The joinders have been accepted and consented to by Pan American Petroleum Corporation, as Unit Operator. It is our desire to have these commitments become effective as of February 1, 1962. Upon your acknowledging receipt of these instruments, copies will be furnished to the other working interest owners in the unit.

By copy of this letter, we are furnishing a copy of both instruments to the Commissioner and the Commission, and a copy of the joinder executed by Atlantic to the Chief, Mineral Adjudication Section, BLM.

Very truly yours,

*Bruce A. Landis, Jr.*  
BRUCE A. LANDIS, JR.

LLM:cgg  
Attachments

Page 2

File: BAL-221-416

January 24, 1962

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

Mr. Howard M. Grotberg, Chief  
Mineral Adjudication Section, BLM  
Santa Fe, New Mexico

---

Regular Mail

The Atlantic Refining Company  
Suite 760, Petroleum Club Building  
110 - 16th Street  
Denver 2, Colorado  
Attention: Mr. T. S. Pace

Pubco Petroleum Corporation  
Box 1429  
Albuquerque, New Mexico  
Attention: Mr. Gilbert J. Sevier, Jr.

RATIFICATION AND JOINDER OF UNIT AGREEMENT  
AND UNIT OPERATING AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Gallegos Canyon Unit Area, County of San Juan, State of New Mexico, dated the 1st. day of November, 1950, in form approved on behalf of the Secretary of the Interior, the undersigned, whether one or more, hereby expressly joins said Unit Agreement and ratifies, approves, and adopts said Agreement, its terms and any modifications thereof.

This ratification and joinder shall be effective as to the undersigned's interest in any lands and leases or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any of the following described land:

T-27-N, R-12-W, N.M.P.M., San Juan County, New Mexico  
Section 6: Lots 6 and 7, E-1/2 SW-1/4

The undersigned has filed an application for a United States oil and gas lease covering the above described land, such application bearing Serial No. NM-0175791. Upon issuance thereof, such oil and gas lease, as to the above-described land, shall be subject to this ratification and joinder.

As a part and parcel of this ratification and joinder, the undersigned to the extent of his or its interest expressly agrees:

(1) That the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement.

(2) That the drilling, development, and producing requirements of all leases and other contracts in which undersigned's rights and interest are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement.

(3) That payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interest do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

For a like consideration, the undersigned does hereby expressly ratify, approve, adopt, confirm, and join in said Unit Operating Agreement and Amendment and Supplement thereto, dated September 1, 1960, 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.

This Ratification and Joinder of Unit Agreement and Unit Operating Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns, or successors in interest.

EXECUTED this 15<sup>th</sup> day of January, 1962.

ATTEST:

Mary C. Drayner  
Assistant Secretary

PARTY: THE ATLANTIC REFINING COMPANY

By: [Signature]  
ASSISTANT Vice-President

CONSENTED TO AND ACCEPTED AS OF THE 15<sup>th</sup> DAY OF January, 1962.

PAN AMERICAN PETROLEUM CORPORATION, Unit Operator

By: [Signature]  
Attorney-in-Fact

NOTED  
HOT  
BS

My Commission expires:

Notary Public in and for

County,

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

On this 19th day of January, 1962, before me appeared W. Dow Hamm, to me personally known, who, being by me duly sworn did say that he is the Attorney-in-Fact of THE ATLANTIC REFINING COMPANY, 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 free act and deed of said corporation.

STATE OF TEXAS  
COUNTY OF DALLAS

ATTORNEY-IN-FACT ACKNOWLEDGMENT

My Commission expires:

June 1, 1963

Dallas County, Texas

Notary Public in and for

HOLLY MAE TIPPETT

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

On this 15th day of January, 1962, before me appeared W. Dow Hamm, to me personally known who, being by me duly sworn did say that he is the Vice President of THE ATLANTIC REFINING COMPANY, 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 free act and deed of said corporation.

STATE OF TEXAS  
COUNTY OF DALLAS

CORPORATE ACKNOWLEDGMENT

RATIFICATION AND JOINDER OF UNIT AGREEMENT  
AND UNIT OPERATING AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Gallegos Canyon Unit Area, County of San Juan, State of New Mexico, dated the 1st. day of November, 1950, in form approved on behalf of the Secretary of the Interior, the undersigned, whether one or more, hereby expressly joins said Unit Agreement and ratifies, approves, and adopts said Agreement, its terms and any modifications thereof.

This ratification and joinder shall be effective as to the undersigned's interest in any lands and leases or interests therein, and royalties presently held or which may arise under existing option agreements or other interests in unitized substances, covering any of the following described land:

NE/4 NE/4, Section 36, T-29-N, R-13-W, N.M.P.M., San Juan County, New Mexico  
(Unit Tract No. 82)

As a part and parcel of this ratification and joinder, the undersigned to the extent of his or its interest expressly agrees:

- (1) That the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement.
- (2) That the drilling, development, and producing requirements of all leases and other contracts in which undersigned's rights and interest are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement.
- (3) That payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interest do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

For a like consideration, the undersigned does hereby expressly ratify, approve, adopt, confirm, and join in said Unit Operating Agreement and Amendment and Supplement thereto, dated September 1, 1960, 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.

This Ratification and Joinder of Unit Agreement and Unit Operating Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns, or successors in interest.

EXECUTED this 15th day of January, 1962.

ATTEST:

PARTY: **PUBCO PETROLEUM CORPORATION**

BY: [Signature]  
Executive Vice-President  
Frank D. Gorham, Jr.

[Signature]  
Assistant Secretary  
K. F. Shaw

CONSENTED TO AND ACCEPTED AS OF THE 19th DAY OF January, 1962.  
PAN AMERICAN PETROLEUM CORPORATION, Unit Operator

By: [Signature]  
Attorney-in-Fact



CORPORATE ACKNOWLEDGMENT

STATE OF New Mexico

COUNTY OF Bernalillo

On this 15th day of January, 1962, before me appeared Frank D. Corban Jr., to me personally known who, being by me duly sworn did say that he is the Executive Vice President of Pubeo Petroleum 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 Frank D. Corban, Jr. 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.

Margie Lindsey  
NOTARY PUBLIC in and for  
Margie Lindsey  
Bernalillo County, New Mexico

My Commission expires:

May 27, 1964

ATTORNEY-IN-FACT ACKNOWLEDGMENT

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me appeared \_\_\_\_\_, to me personally known, who, being by me duly sworn did say that he is the Attorney-in-Fact of \_\_\_\_\_, 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 \_\_\_\_\_ 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.

\_\_\_\_\_  
NOTARY PUBLIC in and for  
\_\_\_\_\_  
County, \_\_\_\_\_

My Commission expires:

\_\_\_\_\_

# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico  
December 20, 1961

File: N-729-416

Subject: 1962 Plan of Development  
Gallegos Canyon 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)

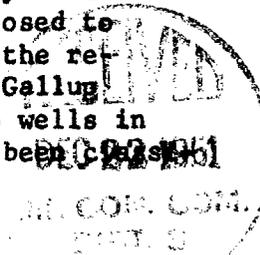
Gentlemen:

In accordance with Section 9 of the Gallegos Canyon Unit Agreement dated November 1, 1950, designated I-Section No. 844, Pan American Petroleum Corporation, as Unit Operator, respectfully submits for your approval a Plan of Development for the calendar year 1962. The recommended Plan has been approved by the required number of Working Interest Owners as provided by the Unit Operating Agreement.

History of Past Development - A total of 110 wells have been drilled in the Gallegos Canyon Unit to date, including four dual completions. Development by horizons is as follows:

<u>Pictured Cliffs Zone</u>	- 65 producing wells 13 abandoned wells
<u>Fruitland Zone</u>	- 1 producer (non-commercial)
<u>Gallup Zone</u>	- 18 producers (includes 4 duals and 5 non-commercial wells)
<u>Dakota Zone</u>	- 5 producing wells - 12 shut in wells awaiting market arrangements (includes 4 duals)

An Initial Gallup Participating Area has been established and a First Enlargement to the Gallup Area has been submitted to the regulatory bodies. At present, a Second Enlargement for the Gallup Area has been proposed to the Working Interest Owners and will be submitted upon receipt of the required approvals. There are eight wells producing from the Totah Gallup Field, eight wells producing from the Cha Cha Gallup Field and two wells in the Undesignated Gallup Field. Five of the Gallup producers have been filed as non-commercial.



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

-2- December 20, 1961  
File: N-729-416  
Subject: 1962 Plan of Development  
Gallegos Canyon Unit  
San Juan County, N. Mex.

A Third Enlargement to the Dakota Participating Area has been filed with the regulatory bodies expanding the area to the Unit boundary. Five of the seventeen Dakota wells are currently producing into a gas sales line and the remaining wells are shut in pending gas market arrangements.

Attached is a tabulation showing wells by producing formation, production data and statistics for the Gallegos Canyon Unit.

Proposed Additional Wells - It is planned to drill five Basin Dakota Field and two Cha Cha Gallup Field wells during the year 1962. We do not propose to drill additional Pictured Cliffs wells. Locations for these wells are not being specified, however, locations of the Dakota wells will be selected around the perimeter of the Unit to meet offset development. The Gallup wells will be located in the Cha Cha Gallup Field trend for optimum pay and orderly development. Also included in this 1962 Plan of Development is a proposal for pressure maintenance projects in the Totah and Cha Cha Gallup Field portions which extend into the Unit area. Since these areas are still in an active development status, a detailed plan has not been formulated, but reservoir studies indicate the Gallup to be susceptible to water injection and that such projects would be feasible.

Well Casing Program - The well casing program will generally follow current programs used in similar wells in the San Juan Basin. Included will be surface casing and other casing as required by the United States Geological Survey and the State of New Mexico.

Offset Obligation - Appropriate measures will be taken to prevent drainage of unitized substances from lands subject to the Gallegos Canyon Unit Agreement, or, pursuant to applicable regulations, fair and reasonable compensatory royalty will be paid as provided in Section 15 of the Unit Agreement.

Further Development - This Plan of Development shall constitute the drilling obligation of the Unit Operator under terms of the Gallegos Canyon Unit Agreement for the period ending December 31, 1962.

Modifications - It is understood that this plan is dependent upon certain information to be obtained prior to and subsequent to drilling, therefore, it may be modified from time to time to meet changing conditions.

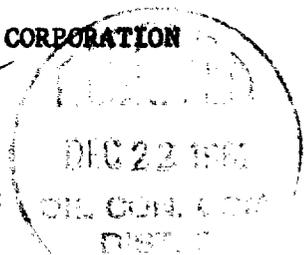
Effective Date - This Plan of Development shall be effective January 1, 1962.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

  
T. M. Curtis  
District Superintendent

CKD:en  
Attach.



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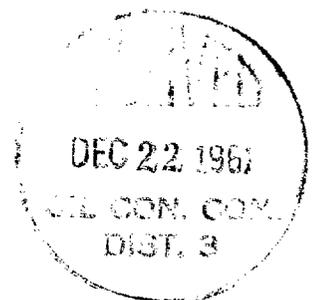
Oil and Gas Supervisor  
Oil Conservation Commission  
Commissioner of Public Lands  
All Working Interest Owners

-3- December 20, 1961  
File: N-729-416  
Subject: 1962 Plan of Development  
Gallegos Canyon Unit  
San Juan County, N. Mex.

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. L. Porter, Jr. Date 5-1-62  
Oil Conservation Commission  
(Subject to like approval by U.S.G.S.  
and Commissioner of Public Lands)



Department of Health and Human Services  
Office of the Assistant Secretary for Health  
200 Independence Avenue, S.W.  
Washington, D.C. 20462

Division of Health Care Services  
Office of the Assistant Secretary for Health  
200 Independence Avenue, S.W.  
Washington, D.C. 20462

Date: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_  
(Print name and title)  
(Date of issue)

Date: \_\_\_\_\_  
Signature: \_\_\_\_\_  
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(Print name and title)  
(Date of issue)

Date: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_  
(Print name and title)  
(Date of issue)

STATISTICAL REVIEW OF OPERATIONS  
GALLEGOS CANYON UNIT  
DECEMBER 1, 1961

Total Wells Drilled in Unit	110 (Includes 4 duals)
Acreage in Unit Area	43,146.62 acres

Pictured Cliffs Statistics

Pictured Cliffs Participating Area	27,456.46 acres
Total Wells Drilled	78
Dry Holes	13
Producing Wells	65
Current Production:	
October, 1961	82,463 MCF
November, 1961	90,139 MCF
Cumulative Production to 12-1-61	27,936,706 MCF

Dakota Statistics

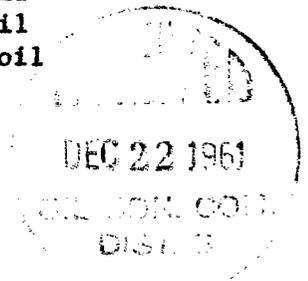
Dakota Participating Area	14,867.02 acres
Proposed Third Enlargement	43,146.62 acres
Total Wells Drilled	17 (Includes 4 duals)
Producing Wells	5
Current Production:	
October, 1961	113,815 MCF
November, 1961	142,639 MCF
Cumulative Production to 12-1-61	500,391 MCF

Fruitland Statistics

Total Wells Drilled	1 (Non-Commercial)
Current Production:	
October, 1961	2,314 MCF
November, 1961	2,187 MCF
Cumulative Production to 12-1-61	60,824 MCF

Gallup Statistics

Gallup Participating Area	360 acres
Proposed First Enlargement	600 acres
Proposed Second Enlargement	1,395.40 acres
Total Wells Drilled	18 (Includes 4 duals & 5 Non-Commercial)
Producing Wells	18
Current Production:	
October, 1961	34,352 bbls. oil
November, 1961	39,612 bbls. oil
Cumulative Production to 12-1-61	268,151 bbls. oil



REPUBLICAN PARTY  
STATE COMMITTEE  
MEMBERS

Local Committee Members

Local Committee Members

MAILING LIST OF WORKING INTEREST OWNERS  
GALLEGOS CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Wilkin, Prod. Dept.

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Vendig, Land Dept.

Mary Roberts Berry  
208 E. Washington Street  
Washington, Iowa

Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

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

B. H. and Dyvena Crawford  
Bloomfield, New Mexico

Delta Oil Company of Utah  
c/o Universal Minerals, Inc.  
1126 Mercantile Securities Bldg.  
Dallas 1, Texas

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas  
Attention: Land Department

Mr. Olen F. Featherstone  
Roswell Petroleum Building  
Roswell, New Mexico

Ernest A. Hanson  
P. O. Box 1515  
Roswell, New Mexico

L. B. Hodges  
P. O. Box 1558  
Roswell, New Mexico

Mrs. James A. Anderson, Executrix of  
Estate of Edward J. Johnson  
372 Euclid Avenue  
Oakland 10, California

Elma R. Jones  
764 Twentieth Avenue  
San Francisco, California

Locke-Taylor Drilling Company  
801 Second Avenue  
Durango, Colorado

Petro-Atlas, Inc.  
2000 National Bank of Tulsa Building  
Tulsa, Oklahoma

John J. Redfern, Jr.  
P. O. Box 1747  
Midland, Texas

H. K. Riddle  
65 East 4th South  
Salt Lake City, Utah

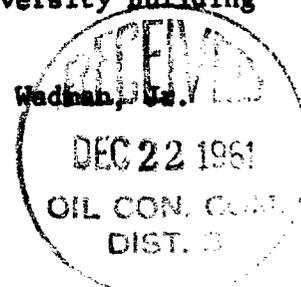
John H. Trigg  
P. O. Box 6529  
Roswell, New Mexico

Texas Pacific Coal & Oil Company  
P. O. Box 2110  
Fort Worth 1, Texas  
Attention: Mr. R. W. Hines

Skelly Oil Company  
Tulsa 2, Oklahoma  
Attention: Mr. D. W. Smith

Wood Oil Company  
Room 800 - Midstates Building  
Tulsa, Oklahoma

Sunray Mid-Continent Oil Company  
Fourth Floor, 101 University Building  
Cherry Creek Center  
Denver 6, Colorado  
Attention: Mr. A. W. Wadham, Jr.



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Texaco, Inc.  
P. O. Box 3109  
Midland, Texas  
Attention: Mr. R. T. Maxwell

Aztec Oil and Gas Company  
920 Mercantile Securities Building  
Dallas 1, Texas  
Attention: Mr. H. L. Snider, Jr.

Southern Union Production Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas  
Attention: Mr. A. M. Wiederkehr

Summit Oil Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas

National Drilling Company, Inc.  
4810 N. Kenneth Avenue  
Chicago 30, Illinois

Diversa, Inc.  
633 Meadows Building  
Dallas 6, Texas





December 18, 1961

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

Re: Third Enlargement Dakota  
Participating Area, Gallegos  
Canyon Unit, San Juan County,  
New Mexico

Attention: Mr. T. M. Curtis

Gentlemen:

The Commissioner of Public Lands has of this date approved the Third Enlargement for the Dakota Participating Area, Gallegos Canyon, San Juan County, New Mexico.

We are handing eleven copies of this enlargement to the New Mexico Oil Conservation Commission and requesting by copy of this letter that they forward all these copies to the U. S. Geological Survey at Roswell.

Please furnish us another copy of this participating area when it has been fully approved.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

ESW/mmrv  
cc: Oil Conservation Commission  
Santa Fe, New Mexico

U. S. Geological Survey  
Roswell, New Mexico

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247

P. O. Box 480, Farmington, New Mexico  
December 13, 1961

File: N-705-416

Subject: Third Enlargement  
Dakota Participating Area  
Gallegos Canyon Unit

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

Attention: Mrs. Marian Rhea

Gentlemen:

Attached herewith is Pan American Petroleum Corporation's proposed Third Enlargement to the Dakota Participating Area of the Gallegos Canyon Unit. If this proposal meets with your approval, please execute all copies and send them to the Oil Conservation Commission of the State of New Mexico.

By copy of this letter to the Oil Conservation Commission, we request that upon their approval they in turn execute all copies and send them to the Oil and Gas Supervisor, United States Geological Survey.

By copy of this letter to the United States Geological Survey, we request that upon approval, they return to Pan American Petroleum Corporation, Box 480, Farmington, New Mexico, four fully executed copies. We will then transmit one fully signed copy of the enlargement to the Commissioner of Public Lands and to the Oil Conservation Commission.

In this manner, the files for each Agency will be complete.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis  
District Superintendent

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

The Oil and Gas Supervisor  
United States Geological Survey  
Roswell, New Mexico

COPY

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

247

December 8, 1961

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

O  
Attention: Mr. T. M. Curtis

Re: First Enlargement Gallup  
Participating Area Gallegos  
Canyon 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 First Enlargement of the Gallup Participating Area for the Gallegos Canyon 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.

Eight approved copies of the application are being forwarded to the United States Geological Survey, Roswell, New Mexico.

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

COMMISSION ON THE STATUS OF WOMEN

OFFICE OF THE SECRETARY

WASHINGTON, D. C. 20540

MEMORANDUM FOR THE RECORD

DATE: 10/15/78

TO: THE SECRETARY

FROM: [Name]

SUBJECT: [Topic]

1. [Text]

2. [Text]

December 7, 1961

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

Re: First Enlargement  
Gallup Participating Area  
Gallegos Canyon Unit  
San Juan County, New Mexico

Attention: Mr. T. M. Curtis

Gentlemen:

The Commissioner of Public Lands has of December 7, 1961 approved the First Enlargement of the Gallup Participating Area, Gallegos Canyon Unit Area, San Juan County, New Mexico.

We are handing nine approved copies of this Participating Area to the Oil Conservation Commission and by copy of this letter we request that after their consideration they in turn send them to the Oil and Gas Supervisor, United States Geological Survey, for their consideration.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

ESW/umr/v  
cc: Oil Conservation Commission  
Santa Fe, New Mexico

Oil & Gas Supervisor  
U. S. Geological Survey  
Roswell, New Mexico

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# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico  
August 25, 1961

File: N-384-416

Subject: First Enlargement  
Gallup Participating Area  
Gallegos Canyon 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:

Pan American Petroleum Corporation, as Unit Operator for the Gallegos Canyon Unit, respectfully submits for your approval the First Enlargement of the Gallup Participating Area for the Gallegos Canyon Unit. The effective date of the First Enlargement will be May 1, 1961.

The First Enlargement of the Gallup Participating Area will consist of Section 34, the W/2 NW/4 and the SW/4 of Section 35, T-29-N, R-13-W, and Lots 1, 2, 3 and 4 in Section 11, T-28-N, R-13-W, and will increase the Gallup Participating Area from 360 acres to 1,355.36 acres. The purpose of this enlargement is to include in the Gallup Participating Area acreage which is reasonably proven productive from the Gallup formation. The attached "Engineering and Geological Report" indicates that all the acreage included in the First Enlargement is reasonably proven productive.

The effective date of the First Enlargement will be May 1, 1961. Although some of the wells in Section 34 were completed during 1960, an earlier date was not chosen because this acreage was not committed to the Gallegos Canyon Unit. The first commercial Gallup well to be completed on committed unit acreage in this area was the Gallegos Canyon Unit No. 92. This well was completed May 1, 1961. Section 10 of the Unit Agreement for the Gallegos Canyon Unit states that the effective date of any revision shall be the first of the month following the date of first authentic knowledge or information on which such revision is predicated, unless a more appropriate date is specified. In this instance we propose May 1, 1961, as a more appropriate date under Section 10.

Attached for your information is Exhibit B, which is the Ownership Schedule for the Gallup Participating Area after the first enlargement. Also

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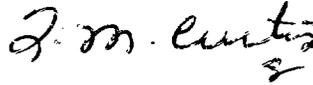
Director - U. S. Geological Survey  
Oil Conservation Commission  
Commissioner of Public Lands  
All Working Owners

August 25, 1961  
File: N-384-416  
Subject: First Enlargement  
Gallup Participating Area  
Gallegos Canyon Unit

attached, as Exhibit A, is a map showing the entire Gallegos Canyon Unit, the initial Gallup Participating Area, and the proposed First Enlargement to the Gallup Participating Area.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



T. M. Curtis  
District Superintendent

DJR:ep  
Attachments

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

Date \_\_\_\_\_

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

Date December 7, 1961

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

Date 12-8-61

California  
State Department of  
Public Safety

the subject  
of the

- 2 -

Director - U.S. Geological Survey  
Conservation Commission  
Commission of Public Lands  
All working papers  
Subject: First Amendment  
Calif. Participating Area  
Calif. Participating Area

attached as Exhibit A is a map showing the entire  
initial Calif. Participating Area and the proposed  
to the Calif. Participating Area.

JOHN AMERSON TROUBLE CORPORATION

F. L. CURRY  
District Superintendent

Director  
All members

Date	Approved by Director, United States Geological Survey (Subject to like approval by appropriate Federal officials)
Date	Approved by Commission of Public Lands U.S.G.S. (Subject to like approval by U.S.G.S. Conservation Commission)
Date	Approved by Conservation Commission Subject to like approval by U.S.G.S. (Subject to like approval by U.S.G.S.)

MAILING LIST OF WORKING INTEREST OWNERS  
GALLEGOS CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Wilkin, Prod. Dept.

American Petrofina Co. of Texas  
P. O. Box 2159  
Dallas 21, Texas  
Attention: Mr. Vendig, Land Dept.

Mary Roberts Berry  
208 E. Washington Street  
Washington, Iowa

Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

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

B. H. and Dyvena Crawford  
Bloomfield, New Mexico

Delta Oil Company of Utah  
c/o Universal Minerals, Inc.  
1126 Mercantile Securities Building  
Dallas 1, Texas

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas  
Attention: Land Department

Mr. Olen F. Featherstone  
Roswell Petroleum Building  
Roswell, New Mexico

Ernest A. Hanson  
P. O. Box 1515  
Roswell, New Mexico

L. B. Hodges  
P. O. Box 1558  
Roswell, New Mexico

Mrs. James A. Anderson, Execrix of  
Estate of Edward J. Johnson  
372 Euclid Avenue  
Oakland 10, California

Elma R. Jones  
764 Twentieth Avenue  
San Francisco, California

Locke-Taylor Drilling Company  
801 Second Avenue  
Durango, Colorado

Petro-Atlas, Inc.  
2000 National Bank of Tulsa Building  
Tulsa, Oklahoma

John J. Redfern, Jr.  
P. O. Box 1747  
Midland, Texas

H. K. Riddle  
65 East 4th South  
Salt Lake City, Utah

John H. Trigg  
P. O. Box 6529  
Roswell, New Mexico

Texas Pacific Coal & Oil Company  
P. O. Box 2110  
Fort Worth 1, Texas  
Attention: Mr. R. W. Hines

Skelly Oil Company  
Tulsa 2, Oklahoma  
Attention: Mr. D. W. Smith

Wood Oil Company  
Room 800 - Midstates Building  
Tulsa, Oklahoma

Sunray Mid-Continent Oil Company  
Fourth Floor, 101 University Building  
Cherry Creek Center  
Denver 6, Colorado  
Attention: Mr. A. W. Wadman, Jr.

Texaco, Inc.  
P. O. Box 3109  
Midland, Texas  
Attention: Mr. R. T. Maxwell

Aztec Oil and Gas Company  
920 Mercantile Securities Building  
Dallas 1, Texas  
Attention: Mr. H. L. Snider, Jr.

Southern Union Production Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas  
Attention: Mr. A. M. Wiederkehr

Summit Oil Company  
Fidelity Union Tower Building  
1507 Pacific Avenue  
Dallas 1, Texas

National Drilling Company, Inc.  
4810 N. Kenneth Avenue  
Chicago 30, Illinois

Diversa, Inc.  
633 Meadows Building  
Dallas 6, Texas

1. The first part of the document  
 discusses the general principles  
 of the system and its objectives.  
 It outlines the scope of the  
 project and the roles of the  
 various stakeholders involved.  
 The second part of the document  
 provides a detailed description  
 of the system architecture and  
 the components that make up  
 the system. This includes a  
 discussion of the hardware and  
 software requirements, as well  
 as the data flow and the  
 control logic of the system.

The third part of the document  
 describes the implementation  
 of the system and the results  
 of the testing. It includes a  
 discussion of the challenges  
 encountered during the  
 development process and the  
 solutions that were found.  
 Finally, the fourth part of  
 the document provides a  
 summary of the findings and  
 conclusions of the project.

The document is organized into  
 several sections, each of which  
 covers a specific aspect of the  
 project. The sections are:  
 1. Introduction  
 2. System Architecture  
 3. Implementation  
 4. Results and Conclusions

ATTACHMENT NO. 1

COMPLETION DATA

GALLEGOS CANYON UNIT NO. 92

Location - NW/4 SW/4 Section 35, T-29-N, R-13-W

Elevation - 5887' RDB

Total Depth - 5810'          Plug Back Depth - 5774'

Casing Program - 4-1/2" CSA 5809' w/350 sx.

Perforations - 5720-5728 with 6 shots per foot

Stimulation - Fractured with 21,000 gals. oil and 20,000 lbs. sand.

Potential - 362 BOPD

Completion date - May 1, 1961

GALLEGOS CANYON UNIT NO. 99

Location - SE/4 SW/4 Section 35, T-29-N, R-13-W

Elevation - 5838' RDB

Total Depth - 5764          Plug Back Depth - 5719'

Casing Program - 4-1/2" CSA 5761' w/350 sx.

Perforations - 5660-5668 with 6 shots per foot

Stimulation - Fractured with 15,800 gals. oil and 16,000 lbs. sand.

Potential - 244 BOPD

Completion date - June 2, 1961

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## ENGINEERING AND GEOLOGICAL REPORT

To support First Enlargement to the Gallup  
Participating Area, Gallegos Canyon Unit

The major Gallup oil producing members in the San Juan Basin are sand bars formed by the transgression and regression of the Cretaceous seas. These bars run in a general northwest to southeast direction. Some of the major oilfields which follow this trend are the Horseshoe Gallup, Gallegos Gallup, Bisti Gallup, Cha Cha Gallup, and the Totah Gallup.

The First Enlargement of the Gallup Participating Area in the Gallegos Canyon Unit has resulted from continued development on the southeast end of the Totah Gallup Field. This development has continued to the point that commercial production has been obtained from the Gallup sand within the boundary of the Gallegos Canyon Unit. The attached Isopach map over the southeast portion of the Totah Gallup Field indicates the development to date and also the area which is proposed for the First Enlargement of the Gallup Participating Area. An examination of this map shows that Section 34 and the SW/4 of Section 35, T-29-N, R-13-W, are completely developed with commercial wells on 80-acre spacing. Also, a commercial Gallup well is located in Lot No. 1 of Section 11, T-28-N, R-13-W. These wells reasonably prove all the acreage included in the First Enlargement to be productive of oil as indicated by the Isopach map. Attachment No. 1 indicates the completion data for the Gallegos Canyon Unit Nos. 92 and 99.

This Isopach map also indicates that the extent of the field has not been found. For this reason active development is continuing in a southeasterly direction in the Totah Gallup Field.

THE UNIVERSITY OF CHICAGO

Department of Chemistry  
Chicago, Illinois

Dear Sirs:

I have the pleasure to inform you that your application for admission to the Ph.D. program in Chemistry for the fall semester of 1964 has been accepted. You will be admitted to the program on the condition that you will be able to present satisfactory evidence of financial resources for the support of your education and living expenses during the period of your study.

You are expected to begin your studies in the fall of 1964. You will be assigned to the laboratory of Professor [Name] as your advisor. It is your responsibility to contact Professor [Name] at the University of Chicago to discuss the details of your program of study and to arrange for your admission to the University. You should also contact the Graduate Office of the Department of Chemistry for information regarding the application process and the requirements for admission to the Ph.D. program.

The University of Chicago is a leading center of research and learning in the field of chemistry. We offer a wide range of courses and research opportunities for students at the graduate level. Our faculty consists of some of the most distinguished scientists in the world. We are committed to the highest standards of academic excellence and to the development of our students as independent researchers.

If you have any questions or need further information, please contact the Graduate Office of the Department of Chemistry at the University of Chicago. We are pleased to welcome you to our community and to the Ph.D. program in Chemistry.