Ċ	23 () De	21	19-A	19	œ	Tract No.	
C	Sec. 34, T29N, R13W SF-079065 10-1-49 Denotes acreage not committed to Unit.	W/2 NW/4, SW/4 Sec. 35, T29N, R13W	W/2 NW/4 Sec. 25, T28N, R12W	S/2 SE/4 Sec. 23, SW/4 SW/4 Sec. 24, NE/4 Sec. 26, T28N, R12W	Lots 1 & 2, E/2 Sec. 11, Lots 3 & 4, W/2 Sec. 11, T28N, R13W	Description of Land	
	SF-079065 10-1-49 itted to Unit.	SF-078926 5-1-48	SF-078904A 2-1-48	SF-078904 2-1-48	SF-078072 2-1-48	Serial No. & Date of Lease	
	USA	USA	USA	USA	USA	Basic Owner	
Type of <u>Acreage</u> Federal	12.50	12.50	12.50	12.50	12.50	Royalty % of 8/8	FIRST EN
Committed Acres 600	Aztec Oil and Gas Company	Pan American Pet- roleum Corporation George J. Darneille	Pan American Pet- roleum Corporation	Pan American Pet- roleum Corporation George J. Darneille	Louise M. Phillips	Owner of Record (	EXHIBIT "B" OWNERSHIP SCHEDULE FIRST ENLARGEMENT GALLUP PARTICIPATING AREA GALLEGOS CANYON UNIT SAN JUAN COUNTY, NEW MEXICO EFFECTIVE MAY 1, 1961
Perti 10	5.00	None Le	None	2.00 le	None	Overrides %	<u>BULE</u> ARTICIPATING NUNIT NEW MEXICO 1, 1961
Percent Participation 100.00	Aztec Oil and Gas Company	Pan American Pet- roleum Corporation National Drilling Company, Inc.	Pan American Pet- roleum Corporation	Pan American Pet- roleum Corporation National Drilling Company, Inc.	Robert Mims	Working Interest Owner % o	AREA
	100.00	75.00 25.00	100.00	75.00 25.00	100.00	rest <u>% of Lease</u>	
	(640.00)	240.00	80.00	280.00	(115.36)	Acres	- <u>-</u> 
		40.00	13.33	46.66	:	Perc Partici	

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## O. \_ CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

241

December 20, 1961

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

Attention: Mr. T. M. Curtis

Re: Third Enlargement of the Dakota Participating Area 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 Third Enlargement of the Dakota 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.

Ten approved copies of the enlargement 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: USGS - Roswell, New Mexico Commissioner of Public Lands Santa Fe, New Mexico

#### PAN AMERICAN PETROLEUM CORPORATION

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

-117

File: N-386-416

Subject: First Enlargement Gallup 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 First Enlargement to the Gallup 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

J.m. Curtis

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



PAN AMERICAN PETROLEUM CORPORATION FORT WORTH. TEXAS

la 14 - 27

August 15, 1961

File: BAL-133-416

Subject: Gallegos Canyon Unit, San Juan County, New Mexico

CERTIFIED MAIL -RETURN RECEIPT REQUESTED

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 of "Ratification and Joinder of Unit Agreement and Unit Operating Agreement", Gallegos Canyon Unit, San Juan County, New Mexico, executed by Texaco Inc.

By this joinder, consented to and approved by Pan American Petroleum Corporation as Unit Operator, Texaco commits interest as to all horizons in Tract 73. This interest was formerly owned by Clarence Rupp.

It is desired to have this commitment become effective as of September 1, 1961, and we would appreciate your acknowledging receipt of this ratification instrument during the month of August, 1961. Upon your acknowledging receipt, copies will be furnished to the other Working Interest Owners in the unit.

By copy of this letter, the Commission and the Commissioner are being furnished one copy each of said ratification.

(; () |₽ ₩

Very truly yours,

Jriginal J. D. COVT, JR. Signed by DY 124 J. L. HOYT, JR.

LLN/ek Attachments Page 2 BAL-133-416 August 15, 1961

CC w/att: Commissioner of Public Lands, State of New Mexico P. O. Box 791 Santa Fe, New Mexico

> New Mexico Oil Conservation Commission -P. O. Box 871 Santa Fe, New Mexico

Texaco Inc. P. O. Box 3109 Midland, Texas Attn: Mr. B. E. Helman

#### 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:

### Township 29 North, Range 12 West, N. M. P. M.

# Section 36: Northwest Quarter of the Northeast Quarter (NW/4 NS/4)

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 interests 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 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 <u>9</u> <sup>th</sup> day of	August, 1961.
Name	Name
Address	Address
ATTEST: ASSISTENT Secretary Address: P. O. Box 3109, Midland, Texas Consented to and accepted as of the 14	Party TEXACOINC. By: M. Junio And AND AND AND AS IN Attorney-in-Fact Form Wild Form Wild
day of August, 1961. PAN AMERICAN PETROLEUM CORPORATION - Unit	
By: William J. mill BA	Hit H

STATE OF			
	200		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
On this day of		, before me pe	to be the nerson
appeared described in and who executed and del	decrea 3 Alter Arrested	, to me khown	g ograding ograd
to me that executed the same	as free (	act and deed.	W WOWTOWTONReg
GIVEN UNDER MY HAND AND BEAL OF C	FFICE, this	day of	, 196
My commission expires:			
	Notary Public	C	
STATE OF)			
On this day of	, 196	, before me per . to me known t	sonally to be the person
appeared described in and who executed and del to me that executed the sam	ivered the foregoine as fr	ng instrument, ar ee act and deed.	d acknowledged
GIVEN UNDER MY HAND AND SEAL OF O	)FFICE, this	day of	, 196
My commission expires:		,	
	Notary Public		
STATE OF TEXAS			
COUNTY OF MIDLAND )			
On this <u>9th</u> day of <u>Augus</u>	st, 196	<u>l</u> , before me per	sonally
On this <u>9thday of Augus</u> appeared <u>R. M. Bischoff</u> who, being by me duly sworn, did say of TEXACO Inc.	that he is the At	, to me person torney-in-Fact	PJOHNANOWA,
and that the seal affixed to said ins			
and that said instrument was signed a authority of its Board of Directors, acknowledged said instrument to be th	and said	r of said corpore R. M. Bischoff	tion by
acknowledged said instrument to be th	e free act and dee	d of said corpore	tion.
GIVEN UNDER MY HAND AND NOTARIAL	seal This 9th	day of <u>Au</u>	gust,1961
My commission expires			
	xl	inches	Langan

Notary Public Dorothy Langas

6-1-63

4

# PAN AMERICAN PETROLEUM CORPORATION

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

File: N-339-416

Subject: Non-Commercial Determination Of Gallup Formation V. W. McManus Well No. 1 San Juan County, New Mexico Gallegos Canyon Unit

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

Oil Conservation Commission of The State of New Mexico Capitol Annex Building Santa Fe, New Mexico Commissioner of Public Lands The State of New Mexico Capitol Annex Building Santa Fe, New Mexico

2117

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

Gentlemen:

A Non-Commercial Determination of the Gallup formation for the V. W. McManus Well No. 1, located in the SW/4 of Section 22, T-28-N, R-12-W, was approved by the U. S. Geological Survey on August 7, 1961.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

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.

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, Exectrix 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, Oklaboma

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

Case 247

Drawer 1857 Roswell, New Mexico

August 7, 1961

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

Attention: Mr. T. M. Curtis

Sentlemen:

Your letter of March 9, 1961, supplemented by letter of July 26, 1961, advises that Pan American Petroleum Corporation as unit operator of the Gallegos Canyon unit area, San Juan County, New Mexico, has determined well V. W. McManus No. 1 in the SWE sec. 22, T. 28 N., R. 12 W., N.M.P.M., to be incapable of producing unitized substances in paying quantities from the Gallup formation.

The well was recompleted in February 1961 for a potential of 50 barrels of oil per day from the Gallup formation 3416-5421 feet. You advise that engineering estimates indicate that the recoverable reserves attributed to the well are insufficient to pay out the cost of the well and return a reasonable profit on the investment.

This office concurs with your determination that well V. W. McManus No. 1 is incapable of producing unitized substances in paying quantities from the Gallup formation under existing conditions.

Very truly yours,

(Urig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON Regional Oil and Cas Supervisor

Copy to: Wash. (w/cy of determination) Farmington (w/cy of determination) NMOCC, Santa Fe (ltr. only) Com. of Pub. Lands, Santa Fe (ltr. only) Accounts

11 247

In reply refer to: Legal Division

July 26, 1961

Pun American Petroloum Corporation Fort Warth Taxas

Attention Wr. J. L. Hoyt, Jr.

Re: Your reference File Lease RGH-533-416 Gallegos Canyon Unit E2447--3

Gentlement

Reference is made to your letter to Mr. John A. Anderson, of the U.S.G.S., dated June 28, 1961, containing retification and joinder of unit agreement covering Track No. 46 among others.

Our file shows that demand was made upon El Paso Natural Gas Company for further development of the acreage under the above lease with particular reference to the Dakota formation, and especially as it regards Section 16, 29 North, 12 West. In view of this action which was known to the Skelly Oil Company, the present record owner, objection is made to commitment of this acreage to the Gallegos Campon Unit, especially in view of the fact that it is our position that this entire unit area has been proven to be productive in the Dakota formation and should be set up as a peticipating area in that formation under the terms of the unit agreement. When this is done, a satisfactory plan for orderly drilling of the participating areas should be submitted for approval.

Very truly yours,

E. S. JOHNNY WALKER Commissioner of Public Lands

William O. Jordan General Counsel

WOJang

cc Skelly Oil Company, Nr. John A. Anderson, Oil Conservation Commission

# PAN AMERICAN PETROLEUM CORPORATION

June 28, 1961

File: RGH-533-416

Subject: Gallegos Canyon Unit, San Juan County, New Mexico

Cher # 247

REGISTERED MAIL -RETURN RECEIPT REQUESTED

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

Dear Sir:

Furnished herewith for your files are four copies of "Ratification and Joinder of Unit Agreement and Unit Operating Agreement" instruments relative to the subject unit, which have been separately executed by El Paso Natural Gas Company, Skelly Oil Company, and Texas Pacific Coal and Oil Company for their respective interests in the unit. These joinders serve to commit the working interests in Tracts 46, 75, 76, 80, and 81, which are more fully described on the forms attached, and have been accepted by Pan American Petroleum Corporation, as Unit Operator, subject to title exemination.

The forms executed by Skelly recommit Tract 56 which was originally committed in October 1956. Skelly now has the rights in all horizons in Tract 46 as a result of El Pasc reassigning its rights above the base of the Mesa Verde to Skelly in April 1961. El Pasc has the rights above the base of the Mesa Verde in Tract 76, and Skelly has the deeper rights, but all horizons in Tract 76 are now committed. Texas Pacific has the rights in all horizons in Tracts 75, 80 and 81.

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.

B D V

Very truly yours,

J. L. HOYT, JR.

JWA/ek Attachments Page 2 RGH-533-416 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

#### 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 lst. 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: State of How Marico Lease No. 3-3462, only insofar as it covers the following tracts of land:

### Township 29 Borth, Hange 12 West

Unit Tract No. 75 - Section 36: Still containing 40 acres Unit Tract No. 80 - Section 36: Michiel containing 40 acres Unit Tract No. 81 - Section 36: Still containing 40 acres

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 interests 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 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 day of	<b>June</b> 9	196 <u></u> .
Name	Name	a engesten staar soor soor aan aan aan aan aan aan aan aa dag as aa dag as aa dag as aa dag ah soor aa dag ah s
Address	Address	
ATTEST: Address: P. C. Box 2110, Fort Worth, Texas	Party Texas Pacific Con By: Vice-President	uken M
Consented to and accepted as of the day of June, 1961.		
PAN AMERICAN PETROLEUM CORPORATION Unit Operator BY: Attorney-in-Fact		

STATE OF )	
On this day of	to me known to be the person
described in and who executed and delivered th	he foregoing instrument, and acknowledged
to me that executed the same as	free act and deed.
GIVEN UNDER MY HAND AND SEAL OF OFFICE, th	his day of, 196
My commission expires:	
Not	tary Public
STATE OF) COUNTY OF)	
On this day of	, 196 , before me personally
appeared described in and who executed and delivered the	, to me known to be the person
described in and who executed and delivered the to me that executed the same as	he foregoing instrument, and acknowledged free act and deed.
GIVEN UNDER MY HAND AND SEAL OF OFFICE, th	his day of, 196
My commission expires:	,
، 	
NOT	ary Public
STATE OF Texas	
COUNTY OF)	
On this 13th day of June appeared R. I. Dickey	, 196_1, before me personally
who, being by me duly sworn, did say that he :	is the <b>Vice</b> President of
Tenne Pacific Coal and Oll Company	
and that the seal affixed to said instrument :	
and that said instrument was signed and sealed authority of its Board of Directors, and said	a in denair of said corporation by
acknowledged said instrument to be the free ac	ct and deed of said corporation.
GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS	S 13th day of June ,19611.
My commission expires	
	d and a second se

June 1, 1962

Notary Public Jo Ante Loncontent <u>`</u>a

#### 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:

#### Township 20 North, Range 12 West, N.M.P.M. Section 36: SE/4 NW/4

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 interests 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 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 day of	, 196 <u>/</u> .	
Name	Name	
Address	Address	
ATTEST: Assistant Scoretary Address: <b>P.G. Box 1482, El Pass, Texas</b>	Party EL PASO NATURAL GAS COMPANY By:	r Josep
Consented to and accepted as of the $\underline{\mathscr{A}} = \underline{\mathscr{A}}$ day of June, 1961.		
PAN AMERICAN PETROLEUM CORPORATION Unit Operator By:		

On this	day of	, 196, before to me	re me personally hown to be the person
escribed in and	who executed and de	, to me	ent. and acknowledged
o me that	executed the same	as free act and de	sed.
GIVEN UNDER	MY HAND AND SEAL OF (	OFFICE, this day of	, 196
y commission ex	ççires:		
		Notary Public	
TATE OF OUNTY OF	}		
On this	day of	, 196, before	a me personally
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escribed in and o me that	l who executed and de executed the same	livered the foregoing instrumenter as free act and	nent, and acknowledged deed.
		OFFICE, this day of	
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y commission ex	pires:	Notary Public	
PATE OF	)	Notary Public	
PATE OF	)	Notary Public	
TATE OF OUNTY OF	) day of	, 196_/_, before	e me personally
TATE OF OUNTY OF On this ppeared ho, being by me	day of}	, 196_/_, before	e personally known,
TATE OF OUNTY OF On this ppeared ho, being by me L P/SO NATURAL ad that the sea	day of) day of) duly sworn, did say GAS CIMPARY L affixed to said in	, 196 / , before , to me that he is the <u>ATTORNEY</u> strument is the corporate see	e personally known, <u>N-FACT</u> President of al of said corporation,
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#### 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: Lot 2, Sec. 7; NE4 NW4, SE4 NW4, NW4 SE4, Lot 3, SE4 SW4 Sec. 18-28N-11W; Lots 1,2,3, S2 SE4 Sec. 12; SE4 NW4, NW4 SE4, S2 SE4 Sec. 13-28N-12W, NE4 SW4 Sec. 16; NE4 NW4, NE4 SW4, SW4 SE4 Sec. 36-29N-12W; Tr. 56. N2 NE4 Sec. 13-28N-12W; Tr. 76. SE4 NW4 Sec. 3629N-12W

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 interests 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 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 31st day of	May	ء 1	96 <u>1</u> .
Name	Name		
Address	Address		
<b> </b>	-0-40 C2074-4-4	* ·	an a
	Party S	KELLY OIL COM	PANY
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Address:	ł	ATCC-LIEBIGCHO.	
Consented to and accepted as of the $\mathcal{A}$ day of June, 1961.			
PAN AMERICAN PETROLEUM CORPORATION Unit Operator By: Attorney in Fact	WVED WV		

STATE OF) COUNTY OF)			
On this day of		. to me kno	wn to be the person
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GIVEN UNDER MY HAND AND SEAL OF O	FFICE, this	_ day of	, 196
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COUNTY OF)			
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STATE OF OKLAHOMA			
COUNTY OF TULSA			
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appeared <u>w. SIMFSON</u> who, being by me duly sworn, did say SKELLY OIL COMPANY	that he is the At	tonney in Fact	Exercident of
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May 23, 1961

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

> Re: Proposed Third Expansion of Gallegos Canyon Unit Area, San Juan County, New Mexico

Attention: Mr. J. L. Hoyt, Jr.

Gentlemen:

This office received copies of application dated April 25, 1961 for preliminary approval for the Third Expansion of the Gallegos Canyon Unit Area, San Juan County, New Mexico.

The State Loss Stin her at believe the Unit Operator has dilight of wellook in the estage within the unit bounderies. Another, we object to the preposed expansion of the unit at the present time.

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

BY:

Marian M. Rhea, Supervisor Unit Division

ESW/went/s

ce:

US Geological Survey Roswell, New Mexico

011 Conservation Commission Santa Fe, New Mexico

# PAN AMERICAN PETROLEUM CORPORATION P. O. Box 480, Farmington, New Mexico

April 3, 1961

File: E-300-416

Subject: Approval Second Dakota Enlargement Gallegos Canyon Unit

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

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

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

Gentlemen:

Application for approval of the Second Enlargement to the Dakota Participating Area of the Gallegos Canyon Unit, dated September 9, 1960, has been approved by the Director, Commissioner, and Commission on the following dates:

> Director United States Geological Survey March 21, 1961

Commissioner of Public Lands State of New Mexico

November 22, 1960

Oil Conservation Commission State of New Mexico November 22, 1960

Effective date of this enlargement is April 1, 1960.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

T. M. Curtis District Superintendent

CKD:en Attach.

Blind Note: Attached is a fully executed copy of the enlargement for your file.

#### 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 N. Dustin Farmington, New Mexico

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

Lester F. Colby Route No. 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

Delta Oil Company of Utah 2606 Oak Lawn Avenue Dallas 19, 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 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 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

George H. Krause, et al P. O. Box 1107 Colorado Springs, Colorado

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

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

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

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

Wood Oil Company Room 800 - Midstates Building Tulsa, Oklahoma Miss Doris Woods 5 Lewis Center Newark, California

Mrs. Sarah G. Fredrick 308 E. Clinton Clinton, Missouri

Mrs. Inez Glasscock 303 S. Water Clinton, Missouri

Mr. Robert W. Woods Appleton City, Missouri

Mrs. Prudence Davis 6591 N. Tennyson Street Arvada, Colorado

Sunray Mid-Continent Oil Company P. O. Box 2692 Denver 1, 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 l, Texas Attention: Mr. H. L. Snider, Jr.

Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas 1, Texas Attention: Mr. D. W. Whitlow ' Summit Oil Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas 1, Texas

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National Drilling Company, Inc. 4810 N. Kenneth Avenue Chicago 30, Illinois May 19, 1961

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

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

Attention: Mr. T. M. Curtis

Centlemen:

In reply to your letter dated May 3, 1961 in regard to your Flam of Development for Gallegos Canyon Unit Area for the calendar year 1961.

Your letter of April 4, 1961 listed proposed locations for six wells, one of which was on State land. This location if drilled and a producing well had been obtained, would have resulted in some royalty for the state, however, out of the six proposed locations this location was changed eliminating any well on State acreage.

Therefore, we are not willing to approve a plan of development, unless it contains plans for a well on State acreage.

In lieu of such we will approve the 1961 Plan of Development as presented if a third revision of the Dakota Participating Area is submitted, which includes the entire Gallegos Canyon Unit Area. Pan American Petroleum Corporation P. O. Box 480 Farmington, New Mexico May 19, 1961 Page (2).

Very truly yours,

E. S. JOHNNY WALKER COMMISSIONER OF PUBLIC LANDS

ESW/mmz/a ee:

R

Mr. John A. Anderson Regional Oil & Gas Supervisor US Geological Survey Roswell, New Mexico

Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

#### PAN AMERICAN PETROLEUM CORPORATION

<b>P</b> .	<b>Q.</b>	Box	480,	Para	ington,	New	Mexico
			April	4,	1961		

File: E-301-416

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

Oil Conservation Commission of  $\nu$ The State of New Mexico State Land Office Building Santa Ye, New Maxico Commissioner of Public Lands The State of New Mexico State Land Office Building Santa Fe, New Mexico

Gentlemen:

On December 20, 1960, Pan American, as Unit Operator, submitted the 1961 Plan of Development for the Gallegos Canyon Unit, San Juan County, New Maxico, with a proposal to drill six Dekota wells during the year. This Plan was submitted without definite locations for the six wells.

Specific locations for the 1961 Plan of Development were given to the United States Geological Survey on February 20, 1961, to satisfy their request for more supporting data for the proposed Second Enlargement to the Dakota Participating Area dated September 9, 1960. These locations were not furnished to either of you at that time since some changes may have been made if United States Geological Survey approval of the Second Enlarged Dakota Participating Area was not obtained. On March 21, 1961, the United States Geological Survey approved the Second Enlargement to the Dakota Participating Area and Pan American is now in a position to detail the proposed location for the six Plan wells as submitted to the United States Geological Survey on February 20, 1961.

> Well No. 89 ME/4 Section 31, T-28-H, R-12-W Well No. 90 ME/4 Section 32, T-29-H, R-12-W Well No. 93 MW/4 Section 36, T-29-H, R-12-W Well No. 94 ME/4 Section 23, T-29-H, R-13-W Well No. 95 ME/4 Section 36, T-28-H, R-12-W Well No. 96 SE/4 Section 18, T-29-H, R-12-W

The United States Geological Survey approved the 1961 Flan of Development on March 6, 1961, and we would appreciate your consideration of the above



Oil Conservation Commission Commissioner of Public Lands April 4, 1961 E-301-416

six locations, which are already approved by the United States Geological Survey, as constituting our 1961 Plan of Development for this unit.

-2-

Yours very truly,

PAN AMERICAN PETROLEUN CORPORATION

T. M. Curtis

District Superintendent

CKD:en

Note: Supervisor, United States Geological Survey - Two of the above locations (Wells 89 and 93) differ from those listed in your letter of March 6, 1961, which approved this Plan. These differences are apparently due to typographical errors. The locations listed above are correct, and your records should be modified accordingly.



## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

P.O. Box 6721 Roswell, New Mexico

March 6, 1961

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

Attention: Mr. L. O. Speer, Jr.

Gentlemen:

Your 1961 plan of development for the Gallegos Canyon unit, San Juan County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

The 1961 plan of development, dated December 20, 1960, proposes the drilling of six Dakota wells at undesignated locations around the perimeter of the Gallegos Canyon unit area. By letter of February 20, 1961, you advise that the location of these six Dakota wells, subject to the approval of the working interest owners, will be as follows:

Well	No.	<b>8</b> 9	NE 4	Section	5 <b>1,</b>	<b>T-</b> 28-N,	R-13-8
Well	No.	<b>90</b>	NEL	Section	32,	<b>T-</b> 29-N,	R-12-W
Well	No.	3.3	ne 🛓	Section	26,	<b>T-</b> 29-N,	R-12-W
Well	No.	94	NE .	Section	25,	T-20-N,	R-13-W
Well	No.	95	NE 🤱	Section	36,	T-28-N,	R-12-W
Well	No.	26	SE	Section	18,	<b>T-</b> 29-N,	R-12 W

The Gallegos Canyon unit area is subject to drainage by certain offending Dakota wells. You will be advised by separate letter of the protective wells required to prevent drainage of unitized substances from the Gallegos Canyon unit area, pursuant to the offset obligation clause of your plan of development and the appropriate provisions of the Gallegos Canyon unit agreement.

Three approved copies of the plan are attached.

Very truly yours,

Second of the general to

EDWIN M. THOMASSON Acting Regional Oil and Gas Supervisor

Copy to: Mashington (w/cy of plan) Farmington (w/cy of plan) NMOCC, Santa Fe (ltr. only)

#### PAN AMERICAN PETROLEUM CORPORATION

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

**File:** E-197-416

Subject: Gallegos Canyon Unit 1961 Plan of Development

Commissioner of Public Lands State of New Mexico P. D. Box 794 Santa Fe, Hew Mexico

Dear Sir:

Please refer to your letter of February 28, 1961, which advised that you would not be able to consider the 1961 Plan of Development for the Gallegos Canyon Unit until you knew the out come of the proposed Second Enlargement to the Dakota Participating Area dated September 9, 1960. The United States Geological Survey has not yet approved the proposed Second Enlargement to the Dakota Participating Area, but we will advise you immediately once United States Geological Survey approval has been obtained.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

akins J. B. Jenkins

District Superintendent

GWE:en cc: New Mexico Oil Conservation Commission



February 28, 1961

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

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

Attention: Mr. L. O. Speer

Gentlemen:

Your application dated September 9, 1960 for the Second Enlargement to the Dakota Participating Area, Gallegos Canyon Unit, San Juan County, New Mexico, was approved by the Commissioner of Public Lands, November 22, 1960. As of this date we have not heard what action, if any, has been taken by the US Geological Survey.

We will not be able to consider a 1961 Plan of Development until we know the out come of this proposed enlargement.

This office is now of the opinion due to the fact that Pan American has stated at various times that the entire Gallegos Unit Area is considered to be productive in the Dakota Formation, therefore, the entire unit area should be set up as a participating area for production from the Dakota Formation. Pan American Petroleum Corporation P. O. Box 480 Farmington, New Mexico February 28, 1961 (Page 2.)

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

BY: Ted Bilberry, Supervisor Oil and Gas Division

ESW/mmr/s

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

Oil Conservation Commission Santa Fe, New Mexico



# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico September 9, 1960

File: E-591-416

Subject: Request for Approval Second Enlargement of the Dakota Participating Area Gallegos Canyon 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 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) HOGWELL, NEW MEXICO

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#### Gentlemen:

Pursuant to Section 10 of the Gallegos Canyon Unit Agreement, which was approved November 1, 1951, Pan American Petroleum Corporation, as Unit Operator, has determined, subject to approval of the Director, Commissioner, and Commission, that Gallegos Canyon Unit No. 85, Gallegos Canyon Unit No. 86, and V. W. McManus No. 1 are capable of producing unitized substances in paying quantities from the Dakota formation and that a Second Enlargement of the Dakota Participating Area in Gallegos Canyon Unit should be made. These three wells are described in detail in the attached Engineering and Geological Report. Aztec Oil & Gas Company's Hagood No. 3 and Hagood No. 4, located in the SE/4 and NW/4, respectively, of Section 34, T-29-N, R-13-W, also were completed as commercial Dakota wells within the Gallegos Canyon Unit Area but on acreage not committed to the Unit Agreement. Acreage on which these wells are located is also proposed for inclusion in the Second Enlargement of the Dakota Participating Area.

The Second Enlargement of the Dakota Participating Area contains 10,947 acres and is described as follows:

Sections	7;	17,-1	18, 3	19,			
		2i,			and	28	T-28-N; R-12-W
Sections							T-28-N, R-13-W
Sections							T-29-N, R-13-W

Total acreage in the Dakota Participating Area after this Second Enlargement is 14,787 acres as shown on the attached schedule, Exhibit "B", which Director - U. S. Geological Survey -2-Oil Conservation Commission Commissioner of Public Lands All Working Interest Owners September 9, 1960 File: E-591-416 Subject: Request for Approval Second Enlargement of 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 Second Enlargement. It is proposed that the effective date for the Second Enlargement of the Dakota Participating Area be April 1, 1960. Section 10 of the Unit Agreement provides that the effective date of any revision shall be the first of the month following the date of first authenic knowledge or information on which such revision is predicated, unless a more appropriate effective date is specified in the schedule. While the several wells upon which this Second Enlargement is predicated were completed during different months in early 1960, only one well, V. W. McManus No. 1, is being produced from the Dakota formation. This well was reworked with the result that it was reclassified from non-commercial to capable of producing in paying quantities, the completion of the workover operation being March 23, 1960. Under these circumstances, Unit Operator proposes that an effective date of April 1, 1960, is a more appropriate effective date for the Second Enlargement.

The attached map, Exhibit "A", shows the proposed Second Enlargement of the Dakota Participating Area as well as the Initial Participating Area and the First Enlargement. An Engineering and Geological Report is attached to support the proposed Second Enlargement of the Dakota Participating Area.

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

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

50. Journ -

L. O. Speer, Jr. Area Superintendent

RBB:en

Attachments

Director - U. S. Geological Survey -3-Oil Conservation Commission Commissioner of Public Lands All Working Interest Owners September 9, 1960 File: E-591-416 Subject: Request for Approval Second Enlargement of Dakota Participating Area, Gallegos Canyon Unit, San Juan County, New Mexico

Date MAR 21 1961

Approved Acting D

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

Approved

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

Approved

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

Date 100. 22, 1960

Date 11. 22-60



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

March 50, 1961

122 2 1

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

Attention: Mr. L. O. Speer, Jr.

Gentlemen:

Your application of September 9, 1960, for the second revision of the Dakota participating area for the Gallegos Canyon unit agreemant, San Juan County, New Mexico, was approved March 21, 1961, by the Acting Director of the Geological Survey, effective as of April 1, 1960.

Enclosed are five copies of the approved application. 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.) JCHN A. ANDERSON

JOHN A. ANDERSON Regional Oil and Gas Supervisor

Copy to: Vashington (ltr. only)

Farmington (w/cy of approved appln.) BLM, Santa Fe (w/cy of approved appla.) Com. of Pub. Lands, Santa Fe (ltr. only) NMOCC, Santa Fe (ltr. only)

FORM 470 2-57

# PAN AMERICAN PETROLEUM CORPORATION

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

1777 - 17 - 17 - 17 - **33** 

File: E-40-416 X 993.1

Subject: Revision of Participation Pictured Cliffs Participating Area, Gallegos Canyon Unit

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

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

( ... × 41

All Pictured Cliffs Participating Area Owners (See Attached Addressee List

Gentlemen:

Attached is a revised ownership schedule for the Pictured Cliffs Participating Area to be effective October 1, 1960. It is presumed in accordance with the Unit Agreement that this revised schedule will be effective unless we are otherwise notified by your respective offices.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

. B. Jenkins

/J. B. Jénkins District Superintendent

CKD:en Attachment MAILING LIST PICTURED CLIFFS OWNERS GALIFGOS CANYON UNIT AREA SAN JUAN COUNTY, NEW MEXICO

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby Route 1, Crystal Lake, Illinois

George J. Darneille 5521 Bordley Houston, Texas

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California

Elman R. Jones 764 Twentieth Avenue San Francisco, California

Delta Oil Company of Utah 2606 Oaklawn Avenue Dallas 19, Texas

E. A. Hanson P. O. Box 852 Roswell, New Mexico

Olen F. Featherstone Roswell Petroleum Building Roswell, New Mexico Wood Oil Company Room 800, Midstates Building Tulsa, Oklahoma

Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas Attention: D. W. Whitlow Sunray Mid-Continent Oil Company

P. O. Box 2692 Denver 1, Colorado Attention: Mr. A. W. Wadman

Texaco, Inc. P. O. Box 3109 Midland, Texas

Texas Pacific Coal and Oil Company P. O. Box 2110 Fort Worth 1, Texas

American Petrofina Company of Texas P. O. Box 2159 Dallas 21, Texas Attention: Mr. Wilkins Production Department

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

# PAN AMERICAN PETROLEUM CORPORATION

Post Office Box 480 Farmington, New Mexico January 9, 1961

Carl # 247

CERTIFIED MAIL RETURN RECEIPT REQUESTED

> Re: AFE - 8939 Lease No. 200354 San Juan County, New Mexico

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

Gentlemen:

On October 27, 1960 Earl A. Rogers purchased an oil, gas and mineral lease from Kenneth S. Washburn et ux, as joint tenants, Russell Foutz et ux, as joint tenants, and A. L. Foutz, which covers the rights below the base of the Pictured Cliffs formation under Lots 1 and 2, and the S/2 NW/4 of Section 5, T-27N, R-12W, San Juan County, New Mexico.

Kenneth S. Washburn et ux owns 1/3rd; Russell Foutz et ux owns 1/3rd; and A. L. Foutz owns 1/3rd of the minerals under this tract which is described as Tract No. 164 of the Gallegos Canyon Unit Agreement. The lease is for the primary term of five years.

On January 5, 1961 Pan American Petroleum Corporation purchased an Assignment of Oil and Gas Lease, dated November 30, 1960, from Earl A. Rogers and wife, Nina Jo Rogers, which covers the lease dated October 27, 1960 that embraces the rights below the base of the Pictured Cliffs formation under Lots 3 and 4 and the S/2 NW/4 of Section 5, T-27N, R-12W, San Juan County, New Mexico.

Enclosed are one copy each of the following described Ratifications which cover the rights below the base of the Pictured Cliffs formation under Tract No. 164 of the Gallegos Canyon Unit:

- Ratification and Joinder of Unit Agreement executed by A. L. Foutz, Kenneth S. Washburn et ux, Russell Foutz et ux, which was consented to and accepted by Pan American, as Unit Operator, as of November 30, 1960.
- (2) Ratification and Joinder of Unit Agreement executed by Earl A. Rogers and wife, Nina Jo Rogers. This Ratification was consented to and accepted as of November 30, 1960 by Pan American, as Unit Operator.
- (3) Ratification and Joinder of Unit Operating Agreement executed by Earl A. Rogers et ux. This Ratification was consented to and

Oil Conservation Commission Santa Fe, New Mexico

accepted as of November 30, 1960 by Pan American, as Unit Operator.

The enclosed copies of the Ratifications are furnished to you for your information and please do not hesitate to contact us if you should have any questions in connection with these instruments. We are submitting six copies of each of the Ratifications to the U.S.G.S. for its approval in order that Tract No. 164 will be effectively committed to the Gallegos Canyon Unit Agreement and to the Gallegos Canyon Unit Operating Agreement.

We are also forwarding one copy of each of the Ratifications to the Commissioner of Public Lands, for its files.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

Ben R. Kee

District Landman

RKR:eh Enclosures

#### **RATIFICATION AND JOINDER OF UNIT 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, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, briefly described opposite his signature, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree 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, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree 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 interests 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.

This Ratification and Joinder of Unit 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.

SIGNATURES AND ADDRESSES DESCRIPTION Township 27 Horth, Runge 12 Vest, H.M.P.M. Section 5: Lots 3 and 4 and 5/2 MM/4 listian. staining 159.94 acres, more or less, as to all rights and depths below the base of the Platured Cliffs Formation. Consented to and accepted as of the 30th day of November, 1960. Lester, J.M. PAN AMERICAN PETROLEUM CORPORATION Unit Operator APPROVED Attorney An Fact 6 Ladeview Brive 606 Gladeview Drive - Yammington, M.M. STATE OF. COUNTY OF\_ Noutrichic, 19\_\_\_\_, before me personally appeared On this 2 day of\_ \_\_\_\_\_to me known to be the person\_\_\_ described in and A. I. Pouts, & single man who executed and delivered the foregoing instrument, and acknowledged to me that \_\_\_\_\_\_executed the same as\_\_\_\_\_free act and deed. GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 2 12 day of 1/2 My Commission expires: Notary Public 12-31-60

#### 그는 것은 물건에 가지 않는 것을 즐기고 있는 이번째 가 없는 것 같이.

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STATE OF	NEW MEXICO	)
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COUNTY OF	AN JUAN	)
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On this <u>Ith</u> day of <u>Hormann</u>, 1960, before me personally appeared <u>Kenneth S. Washburn and Rose Washburn, his wife</u> to me known to be the persons described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

	GIVEN 1	under	MY	hand	AND	SEAL	of	OFFICE,	this	101	_day	of	16mmun	<b>19</b> 60,
My	Commiss	ion e	xpir	es:									<b>-</b>	

12-31-40

Notary Public

Notary Public /

STATE OF )
COUNTY OF SAN
On this <u>21</u> day of <u>Monthus</u> , 1960, before me personally appeared
Russell Foutz and Helen Foutz, his wife to me known to be the persons described in and
who executed and delivered the foregoing instrument, and acknowledged to me that they executed
the same as their free act and deed.
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 2, Taky of 10, 1960.

My Commission expires: 12-31-400

# **RATIFICATION AND JOINDER OF UNIT 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, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, briefly described opposite his signature, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree 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, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree 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 interests 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.

This Ratification and Joinder of Unit 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.

SIGNATURES AND ADDRESSES

DESCRIPTION

and the second	Tormahip 27 Morth, Ronge 12 West, M.M.P.M.
Earl A. Rogers	Section 5: Lots 3 and 4 and 5/2 Mi/4
4624 Douglas Street	Containing 159.94 acres, more or less,
Farmington, New Marico	as to all rights and depths below the base of the Pictured Cliffs Formation.
· · · · · · · · · · · · · · · · · · ·	
Hine Jo Rogers	
4024 Daugles Street	
Parnington, New Mexico	
Consented to and accepted as of the 30th day of November, 1960.	
PAN AMERICAN PETHOLSUM CORPORATION	uname wastani turna NV si≧ak
Unit Operator	
Attorney is pact	
STATE OF	
COUNTY OF	
On this 28th day of Octub	er, 19, before me personally appeared
tert A. Rogers and Mine Jo Regers, hi	to me known to be the person described in and
who executed and delivered the foregoing instr	ument, and acknowledged to me thatexecuted
the same asfree act and deed.	
GIVEN UNDER MY HAND AND SEAL	OF OFFICE, this day of 19
My Commission expires:	
117-12	- AMMUNICA -
	Notary Public

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FORM 470 2-57

#### **PAN AMERICAN PETROLEUM CORPORATION** P. O. Box 480, Farmington, New Mexico wy 41 January 4, 1961 [] 1 File: E-8-416 Subject: Approval of Amended 1960 Plan of Development Gallegos Canyon Unit San Juan County, New Mexico The Oil and Gas Supervisor (6) Commissioner of Public Lands (3) United States Geological Survey State of New Mexico Roswell, New Mexico Santa Fe, New Mexico

Oil Conservation Commission (3) State of New Mexico Santa Fe, New Mexico

All Working Interest Owners

Gallegos Canyon Unit (See Attached Addressee List)

Gentlemen:

Application for an Amended 1960 Plan of Development for the Gallegos Canyon Unit, dated December 20, 1960, has been executed by the United States Geological Survey, Commissioner of Public Lands and Oil Conservation Commission on the following dates:

> Director, United States Geological Survey:

December 27, 1960

Commissioner of Public Lands State of New Mexico:

December 28, 1960

New Mexico Oil Conservation Commission:

December 29, 1960

The Amended 1960 Plan of Development was effective January 1, 1960.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

B. Jenkins log

District Superintendent

CKD:ep

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

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mary Roberts Berry 208 E. Washington Street Washington, Iowa

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby, Trustee Route 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

George J. Darneille 5521 Bordley Houston, Texas

Ernest A. Hanson P. O. Box 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California

Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas Attn: Mr. D. W. Whitlow Elma R. Jones 764 Twentieth Avenue San Francisco, California

Nathan Kessler 5900 States Drive Oakland, California

George H. Krause, et al P. O. Box 1107 Colorado Springs, Colorado

Delta Oil Company of Utah 120 Arno NE Albuquerque, New Mexico

El Paso Natural Gas Company P, O. Box 1492 El Paso, Texas M. H. and Eula Stark Route 3

Farmington, New Mexico

Petro-Atlas Inc. 2000 National Bank of Tulsa Building Tulsa 3, Oklahoma

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

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

Robb Woods 501 W. Grand River Street Clinton, Missouri

Skelly Oil Company Tulsa 2, Oklahoma Attn: Mr. D. E. Smith and a start of the second start of the second

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

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Súnráy Mid-Continent Oil Company P. O. Box 2692 Denver 1, Colorado Attn: Mr. A. W. Wadman

Olen F. Featherstone Roswell Fetroleum Building Roswell, New Mexico

Locke-Taylor Drilling Co. 801 Second Avenue Durango, Colorado Texaco, Inc. P. O. Box 3109 Midland, Texas

Texas Pacific Coal and Oil Company P. O. Box 2110 Fort Worth 1, Texas

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

Wood Oil Company Room 800, Midstates Building Tulsa, Oklahoma

Tom Bolack 1010 N. Dustin Farmington, New Mexico

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In reply refer to: Unit Division

Jecember 29, 1960

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

Attention: Mr. L. O. Speer

Re: Amended 1960 Plan of Development Gallegos Canyon Unit, San Juan County, New Mexico

Gentlemen:

Your Amended Plan of Development for the calendar year 1960 has been approved by the Commissioner of Public Lands as of December 28, 1960, and one copy is enclosed herewith.

This amended plan consists of the drilling and completion of Gallegos Canyon Unit Well No. 87 and Gallegos Canyon Unit Well No. 83, also the reworking and the dual completion of the V. M. McManus No. 1.

The Commissioner's approval being subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

> Very truly yours, MURDAY E. MORGAN Commissioner of Public Lands BY: Mariso M. Rhea, Supervisor Unit Division

MEM/nmr/s cc:

U.S. Geological Survey Roswell, New Mexico

OCC- Sante Te u

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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY DED 105 000 P. O. Box 6721 Reguell, New Mexico

December 27, 1960

Pan American Patroleum Corporation P. O. Box 480 Parmington, New Maxico

Attention: Mr. L. O. Speer, Jr.

Gentlemen:

Your amanded 1960 plan of development dated December 20, 1960, for the Gallegos Canyon unit agreement, San Juan County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

Three approved copies of the amended plan are enclosed.

Very truly yours,

Acting Begional Oil and Gas Supervisor

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

SOSSTRUCTURE AND DATES 



# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico December 20, 1960

File: E-917-416

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

The Oil and Gas Supervisor (6) United States Geological Survey Roswell, New Mexico Oil Conservation Commission (3) State of New Mexico Santa Fe, New Mexico

34

Commissioner of Public Lands (3) State of New Mexico Santa Fe, New Mexico All Working Interest Owners Gallegos Canyon Unit (See Attached Addressee List)

#### Gentlemen:

In compliance with Section 9 of the Gallegos Canyon Unit Agreement dated November 1, 1950, designated I-Sec. No. 844, Pan American Petroleum Corporation, as Unit Operator, respectfully submits for your approval a Plan of Development for the calendar year 1961. The recommended 1961 Plan of Development has been approved by a majority of the Working Interest Owners as provided by the Unit Operating Agreement.

History of Past Development - There has been, to date, a total of 86 wells drilled in the Gallegos Canyon Unit. Of these, 67 are Pictured Cliffs producers, 4 are Gallup-Dakota duals, 1 a single Dakota completion well, 2 Gallup wells, 1 Fruitland completion, and 11 wells that are either dry holes or abandoned Pictured Cliffs wells.

An initial Gallup Participating Area has been established for the commercial production from Gallegos Canyon Unit No. 83. The performance of other Gallup completions are being carefully observed inasmuch as information now available indicates that the Gallup may prove to be non-commercial in these completions. One Gallup completion has already been classified non-commercial (Gallegos Canyon Unit No. 84), and application has been made for the non-commercial determination of the Gallup in the Gallegos Canyon Units No. 86 and 87, and in all probability, applications will also be made for the non-commercial determination for the two remaining Gallup completions.

A non-commercial determination application has also been made for the Fruitland formation in Gallegos Canyon Unit No. 77.

An initial Dakota Participating Area has been approved as well as a First Enlargement thereof, and application has been filed for a Second Enlargement of the Gallegos Canyon Unit Dakota Participating Area.

The Oil and Gas Supervisor Commissioner of Public Lands Oil Conservation Commission All Working Interest Owners December 20, 1960 File: E-917-416 Subject: 1961 Plan of Development Gallegos Canyon Unit San Juan County, New Mexico

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

Proposed Additional Wells - It is planned to drill six additional Dakota wells during 1961, the location of which will be around the perimeter of the Gallegos Canyon Unit Area. We propose to drill no additional Pictured Cliffs wells during 1961 in view of the high risk involved insofar as further development of this zone is concerned. Prospects for further Gallup development in the Unit Area will be determined from information derived from the drilling of Dakota wells, inasmuch as the Gallup overlies the Dakota and log analysis will be the basis for future Gallup development and/or exploration.

<u>Well Casing Program</u> - The well casing program will generally follow the program currently used in similar wells in San Juan County, including such surface casing and other casing as may be required by the Supervisor, the Commissioner and the Commission, or as set forth in approvals of the applicable U.S.G.S. and State of New Mexico forms. The producing string of casing may be set and cemented on top, partially through or completely through the producing zone.

<u>Off-Set Obligations</u> - Appropriate and adequate measures will be taken to prevent drainage of unitized substances from lands subject to th. Gallegos Canyon Unit Agreement, or, pursuant to applicable regulations, fair and reasonable compensatory royalty will be paid as provided in Section 15 of said Agreement.

Further Development - This plan of development shall constitute the drilling obligations of the Unit Operator under the terms of the Gallegos Canyon Unit Agreement for the period ending December 31, 1961. Before this plan expires, another plan for further development of the unit area will be submitted.

<u>Modifications</u> - It is understood that this plan of development is dependent upon certain information to be obtained prior to and subsequent to drilling, and upon other contingencies, such as availability of well casing; therefore, this plan of development may be modified from time to time to meet changing conditions.

Effective Date - This plan of development shall be effective January 1, 1961.

The Oil and Gas Supervisor Commissioner of Public Lands Oil Conservation Commission All Working Interest Owners December 20, 1960 File: E-917-416 Subject: 1961 Plan of Development Gallegos Canyon Unit San Juan County, New Mexico

Dated: December 19, 1960.

PAN AMERICAN PETROLEUM CORPORATION Unit Operator

1.1

By Superinténdent

FWF: Attach.

Approved:\_\_\_\_\_Date:\_\_\_\_\_ Regional Oil & Gas Supervisor United States Geological Survey

-3-

Approved:	Date:
Commissioner of Public Lands State of New Mexico	
Approved:	Date: 3/21/62
State of New Mexico	

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### STATISTICAL REVIEW OF OPERATIONS <u>GALLEGOS CANYON UNIT</u> <u>DECEMBER 1, 1960</u>

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Total Wells Drilled In Unit Unit Area	. 86 43,146.82	acres
Pictured Cliffs Statistics		
Pictured Cliffs Participating Area Total Wells Drilled Dry Holes Producing Wells as of 12-1-60 Temporarily Abandoned Wells Current Production October, 1960 November, 1960 Cumulative Production to 12-1-60	27,456.46 78 10 67 1 161,901 92,365 26,878,991	MCF MCF
Dakota Statistics		
Dakota Participating Area Proposed Second Enlargement Total Wells Drilled Producing Wells Current Production	3,840 11,027.02 5 1	
October, 1960 November, 1960 Cumulative Production to 12-1-60	13,265 12,927 200,0 <b>76</b>	MCF
Gallup Statistics		
Gallup Participating Area Total Wells Drilled Producing Wells Current Production	360 6 6	acres
October, 1960 November, 1960 Cumulative Production to 12-1-60	5,575	bbls./oil bbls./oil bbls./oil
Fruitland Statistics		
Total Wells Drilled Current Production October, 1960 November, 1960 Cumulative Production to 12-1-60	1 5,854 3,356 32,792	MCF

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#### 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

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mary Roberts Berry 208 E. Washington Street Washington, Iowa

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby, Trustee Route 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

George J. Darneille 5521 Bordley Houston, Texas

Ernest A. Hanson P. O. Box 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California

Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas Attn: D. W. Whitlow Elma R. Jones 764 Twentieth Avenue San Francisco, California

Nathan Kessler 5900 States Drive Oakland, California

George H. Krause, et al P. O. Box 1107 Colorado Springs, Colorado

Delta Oil Company of Utah 26C6 Oak Lawn Avenue Dallas 19, Texas

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

M. H. and Eula Stark Route 3 Farmington, New Mexico

Petro-Atlas Inc. 2000 National Bank of Tulsa Building Tulsa 3, Oklahoma

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

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

Robb Woods 501 W. Grand River Street Clinton, Missouri

Skelly Oil Company Tulsa 2, Oklahoma Attn: Mr, D, E, Smith

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

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Sunray Mid-Continent Oil Company P. O. Box 2692 Denver 1, Colorado Attn: Mr. A. W. Wadman

Olen F. Featherstone Roswell Petroleum Building Roswell, New Mexico

Locke-Taylor Drilling Co. 801 Second Avenue Durango, Colorado Texaco, Inc. P. O. Box 31.09 Midland, Texas

Texas Pacific Coal and Oil Company P. O. Box 2110 Fort Worth 1, Texas

John H. Trigg P. O. Box 6529 Roswell, New Me ico

Wood Oil Company Room 800, Midstates Building Tulsa, Oklahoma

Tom Bolack 1010 N. Dustin Farmington, New Mexico

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FORM 470 2-57

# **PAN AMERICAN PETROLEUM CORPORATION**

P. O. Box 480, Farmington, New Mexico December 15, 1960

Case # 247

File: E-900-416

Subject: Gallegos Canyon Unit San Juan County, New Mexico

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

Oil Conservation Commission of The State of New Mexico Capitol Annex Building Santa Fe, New Mexico Commissioner of Public Lands 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, respectfully submits that due to a title failure under the east  $16\frac{1}{2}$  feet of the NE/4 NM/4 Section 24, T-29-N, R-13-W, San Juan County, New Mexico, the total committed acres within the Pictured Cliffs Participating Area of the Gallegos Canyon Unit must be reduced from 27,456.96 to 27,456.46 acres. This acreage is carried under the Patented Land Section of the Ownership Schedule, Exhibit "B" as Tract No. 107.

Pan American Petroleum Corporation pursuant to Article 5(h) of the Unit Operating Agreement received approval from a majority of the working interest owners within the Pictured Cliffs Participating Area to adjust the ownership percentages. The effective date of the revision will be October 1, 1960.

Copies of this letter are being sent to the working interest owners shown on the attached list.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

L. O. Speer, Jr. Area Superintendent

CID: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

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mary Roberts Berry 208 E, Mashington Street Mashington, Iowa

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby, Trustee Route 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

George J. Darneille 5521 Bordley Houston, Texas

Ernest A. Hanson P. O. Box 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California

Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas Attn: D. W. Whitlow Elma R. Jones 764 Twentieth Avenue San Francisco, California

Nathan Kessler 5900 States Drive Oakland, California

George H. Krause, et al P. O. Box 1107 Colorado Springs, Colorado

Delta Oil Company of Utah 2606 Oak Lawn Avenue Dallas 19, Texas

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

M. H. and Eula Stark Route 3 Farmington, New Mexico

Petro-Atlas Inc. 2000 National Bank of Tulsa Building Tulsa 3, Oklahoma

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

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

Robb Woods 501 W. Grand River Street Clinton, Missouri

Skelly Oil Company Tulsa 2, Oklahoma Attn: Mr, D, E, Smith

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# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico December 8, 1960

> File: E-872-416

Subject: Revised Exhibit "B" Second Enlarged Dakota Participating Area Gallegos Canyon Unit San Juan County, New Mexico

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

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

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

Page + -47

Gentlemen:

Attached is a corrected copy of the Exhibit "B" for the proposed Second Enlarged Dakota Participating Area of the Gallegos Canyon Unit. This revision was necessitated by an error in Tracts No. 8, 9, and 10. At such time as all regulatory bodies have approved this enlargement, a notification of such will be forwarded. Please destroy the Exhibit "B" attached with our letter of September 9, 1960, File: E-591-416.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

L. O. Speer, Jr. Area Superintendent

CKD:en

Attachment

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MAILING LIST OF VORKING INTEREST OWNERS GALLEGOS CANYON UNIT ARLA SAN JUAN COUNTY, NEW MEXICO

American Petrofina Co. of Texas P. O. Box 2159 Dallas 21, Texas

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mary Roberts Berry 208 E. Washington Street Washington, Iowa

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby, Trustee Route 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

George J. Darneille 5521 Bordley Houston, Texas

Ernest A. Hanson P. O. Box 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California

Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas Attn: Mr. D. W. Whitlow Elma R. Jones 764 Twentieth Avenue San Francisco, California

Nathan Kessler 5900 States Drive Oakland, California

George H. Krause, et al P. O. Box 1107 Colorado Springs, Colorado

Delta Oil Company of Utah 120 Arno NE Albuquerque, New Mexico

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

M. H. and Eula Stark Route 3 Farmington, New Mexico

Petro-Atlas Inc. 2000 National Bank of Tulsa Building Tulsa 3, Oklahoma

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

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

Robb Woods 501 W. Grand River Street Clinton, Missouri

Skelly Oil Company Tulsa 2, Oklahoma Attn: Mr. D. E. Smith the second state 

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Sunray Mid-Continent Oil Company P. O. Box 2692 Denver 1, Colorado Attn: Mr. A. W. Wadman

Olen F. Featherstone Roswell Petroleum Building Roswell, New Mexico

Locke-Taylor Drilling Co. 801 Second Avenue Durango, Colorado Texaco, Inc. P. O. Box 3109 Midland, Texas

Texas Pacific Coal and Oil Company P. O. Box 211C Fort Worth 1, Texas

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

Wood Oil Company Room 800, Midstates Building Tulsa, Oklahoma

Tom Bolack 1010 N. Dustin Farmington, New Mexico

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C . CONSERVATION COMMISSI( P. O. BOX 871 SANTA FE, NEW MEXICO

Casi # 247 November 22, 1960 Pan American Petroleum Corporation P. U. Box 460 Farmington, New Mexico ATTENTION: MR. L. O. SPEER, Jr. RE: Second Enlargement to Dakota Participating Area 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 Second Enlargement to the Dakota 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. Nine approved copies of the application are being forwarded to the United States Geological Survey, Roswell, as requested. Very truly yours. A. L. PORTER, Jr., Secretary-Director ALP/JEK/ig US Geological Survey - Roswell, New Mexico cc: Commissioner of Public Lands - Santa Fe

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In reply refer to: Unit Division

November 22, 1960

)Pan American Petroleum Corporation P. O. Box 480 Farmington, New Mexico Re: Application for Second Enlargement to Dakota Participating Area Gallegos Canyon, San Juan County, New Mexico ttention: Mr. L. O. Speer, Jr. Gentlemen: The Commissioner of Public Lands has of this date approved your application for the Second Enlargement to the Dakota Participating Area for the Gallegos Canyon Unit Area. We are handing to the Oil Conservation Commission ten approved copies for their consideration and requesting that they transmit same to the United States Geological Survey, Roswell, New Mexico, as requested in your letter dated September 12, 1960. Very truly yours, MURRAY E. MORGAN Commissioner of Public Lands BY: Marian M. Rhea, Supervisor Unit Division MEM/mmr/s Oil Conservation Commission CC: Santa Fe, New Mexico

> United States Geological Survey Roswell, New Mexico

## PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico September 12, 1960 1950 SEP 14 PM 1:31 File:

E-595-416

Chest fort 7

Subject: Approval of 1960 Plan of Development Gallegos Canyon Unit San Juan County, New Mexico

Director United States Geological Survey c/o Oil and Gas Supervisor P. 0. Box 6721 Roswell, New Mexico

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

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

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

#### Gentlemen:

The approval was requested for the 1960 Plan of Development in the Gallegos Canyon Unit, San Juan County, New Mexico, by our letter of December 28, 1959, and has been executed by the Director of the U. S. Geological Survey, Commissioner and Commission on the following dates:

> Director United Stated Geological Survey: August 2, 1960

> Commissioner of Public Lands State of New Mexico: August 22, 1960

New Mexico Oil Conservation Commission: September 1, 1960

This Plan of Development was effective January 1, 1960.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

for y-

L. O. Speer, Jr. Area Superintendent

CKD:en Attachment

### 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

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mary Roberts Berry 208 E. Washington Street Washington, Iowa

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby, Trustee Route 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

George J. Darneille 5521 Bordley Houston, Texas

Ernest A. Hanson P. O. Box 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California

Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas Attn: D. W. Whitlow Elma R. Jones 764 Twentieth Avenue San Francisco, California

Nathan Kessler 5900 States Drive Oakland, California

George H. Krause, et al P. O. Box 1107 Colorado Springs, Colorado

Delta Oil Company of Utah 120 Arno NE Albuquerque, New Mexico

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

M. H. and Eula Stark Route 3 Farmington, New Mexico

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

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

Robb Woods 501 W. Grand River Street Clinton, Missouri

Skelly Oil Company Tulsa 2, Oklahoma Attn: Mr. D. E. Smith Summit Oil Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas

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Sunráy Mid-Continent Oil Company P. O. Box 2692 Denver 1, Colorado Attn: A. W. Wadman

Olen F. Featherstone Roswell Petroleum Building Roswell, New Mexico

Locke-Taylor Drilling Co. 801 Second Avenue Durango, Colorado Texaco, Inc. P. O. Box 3109 Midland, Texas

Texas Pacific Coal and Oil Company P. O. Box 2110 Fort Worth 1, Texas

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

Wood Oil Company Room 800, Midstates Building Tulsa, Oklahoma

Tom Bolack 1010 N. Dustin Farmington, New Mexico

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FAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico Septe ber 12, 1960

File: 8-596-416

Subject: Application for Approval of Second Enlargement to the Dakota Forticipating Area Gallegos Canyon Unit San Juan County, New Mexico

Commissioner of Pullic Lands State/of New Mexico Capitol Annex Building Santa Fe, New Maxico

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TO CORE

Attention: Mrs. Marion Rhea

Dont Sir:

Attached are 12 copies of Pan American's application for the Second Enlargement to the Dakota Participating Area, Gallegos Canyon Unit, San Juan County, New Mexico. We would appreciate your processing this application through the State Land Office and after obtaining the Commissioner's approval, to forward all copies to the New Mexico Oil Conservation Commission for their review and approval. By copy of this letter to the New Mexico Oil Conservation Commission, we ask that following their approval that they forward all copies to the United States Geological Survey in Roswell for their processing. When the U. S. Geological Survey's approval has been obtained, we will furnish both you and the Oil Conservation Commission with fully executed copies of the application.

In order thay we may keep current on the progress of obtaining approval of this application, it would be appreciated if you would furnish us a copy of your letter transmitting the application to the Oil Conservation Commission and if the Oil Conservation Commission would furnish us a copy of their letter transmitting it to the U.S. Geological Survey. We would also appreciate the U.S. Geological Survey furnishing us with information regarding the date they transmit the application to their Washington Office.

Very truly yours,

PAN AMERICAN PATROLEUN CORPORATION

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ORIGINAL SIGNED BY L. O. Speer, Jr.

L. O. Speer, Jr.

Ares Superintendent

ACten Attachments ect Mr. A. L. Porter, Jr.V 18000 Santa Pe, New Mexico Mr. John A. Anderson U.S.G.J. Koswell, New Mexico



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# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico 1960 AUG 1 /M August 31, 1960

File: E-565-416

Subject: 1960 Plan of Development Gallegos Canyon Unit San Juan County, New Mexico

Case # 247

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

Gentlemen:

On December 28, 1959, a 1960 Plan of Development for the Gallegos Canyon Unit was forwarded to your office for approval. Executed approved copies have been returned from the United States Geological Survey and the Commissioner of Public Lands and to complete our files, we would appreciate your executing the above Plan of Development and returning it to this office. Upon receipt of your approval, notices will be sent to all interested parties in the Unit Area advising them of the dates of such approvals.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

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L. O. Speer, Jr. Area Superintendent

CKD:en

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Case # 247

### PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico

File: E-509-416

Subject: Approval of Initial Participating Area For The Gallup Formation Gallegos Canyon Unit, San Juan County, New Mexico

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

Oil Conservation Commission of The State of New Mexico Capitol Annex Building Santa Fe, New Mexico Commissioner of Public Lands 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 Initial Participating Area for the Gallup Formation, Gallegos Canyon Unit, dated May 26, 1960, has been executed by the U. S. Geological Survey, Commissioner and Commission on the following dates:

Director United States Geological Survey:	July 22, 1960
Commissioner of Public Lands State of New Mexico:	June 7, 1960
New Mexico Oil Conservation Commission:	June 7, 1960

The Initial Gallup Participating Area becomes effective February 6, 1959.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

L. O. Speer, Jr. Area Superintendent

NOTE: Attached is a fully executed copy of the Application for your files.

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

American Petrofina Co. of Texas P. O. Box 2159 Dallas 21, Texas

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Mary Roberts Berry 208 E. Washington Street Washington, Iowa

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby, Trustee Route 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

George J. Darneille 5521 Bordley Houston, Texas

Devonian Gas and Oil Company 2003 Commonwealth Building Pittsburg 22, Pennsylvania

Ernest A. Hanson P. O. Box 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California Elma R. Jones 764 Twentieth Avenue San Francisco, California

Nathan Kessler 5900 States Drive Oakland, California

George H. Krause, et al P. O. Box 1107 Colorado Springs, Colorado

Delta Oil Company of Utah 120 Arno NE Albuquerque, New Mexico

El Páso Natural Gas Company P. O. Box 1492 El Paso, Texas

M. H. and Eula Stark Route 3 Farmington, New Mexico

Petro-Atlas Inc. 2000 National Bank of Tulsa Building Tulsa 3, Oklahoma

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

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

Robb Woods 501 W. Grand River Street Clinton, Missouri

Skelly Oil Company Tulsa 2, Oklahoma Att: Mr. D. E. Smith Southern Union Gas Company Fidelity Union Tower Building 1507 Pacific Avenue Dallas, Texas Attn: D. W. Whitlow

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

Sunray Mid-Continent Oil Company 1101 Wilco Building Midland, Texas Attn: V. M. Williams

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

Locke-Taylor Drilling Co. 801 Second Avenue Durango, Colorado Texaco, Inc. P. O. Box 3109 Midland, Texas

Texas Pacific Coal and Oil Company P. O. Box 2110 Fort Worth 1, Texas

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

Wood Oil Company Room 800, Midstates Building Tulsa, Oklahoma

Tom Bolack 1010 N. Dustin Farmington, New Mexico

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# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 487, Farmington, New Mexico May 26, 1960

File: E-296-416

Subject: Request for Approval of Proposed Initial Gallup Participating Area Gallegos Canyon 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 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)

JUN 13 1960

U. S. Comp. ROSWELL, Control Mark

#### Gentlemen:

Pursuant to Section 10 of the Gallegos Canyon Unit Agreement, which was approved November 1, 1951, Pan American Petroleum Corporation, as Unit Operator, has determined, subject to approval of the Director, Commissioner, and Commission, that the Gallup formation is capable of producing unitized substances in paying quantities from the Gallegos Canyon Unit No. 83 and that an Initial Gallup Participating Area should be established in the Gallegos Canyon Unit. The proposed Initial Gallup Participating Area contains 360 acres and consists of the 40 acres on which Gallegos Canyon Unit No. 83 is located, plus the direct and diagonal offsetting quarter-quarter sections as shown on the attached map, Exhibit "A", and is described as follows:

S/2 SE/4 Section 23	T-28-N, R-12-W
SW/4 SW/4 Section 24	T-28-N; R-12-W
W/2 NW/1. Section 25	T-28-N, R-12-W
NE/4 Section 26	T-28-N, R-12-W

Attached as Exhibit "B" is a schedule which describes and shows the ownership of the acreage in the proposed Initial Gallup Participating Area in Gallegos Canyon Unit. February 6, 1959, is proposed as the effective date of the Initial Gallup Participating Area since this is the date on which the Gallegos Canyon Unit No. 83 was completed. Also attached for your information is an Engineering and Geological Report which was written to support the proposed Initial Gallup Participating Area. Director - U. S. Geological Survey Oil Conservation Commission Commissioner of Public Lands All Working Owners May 26, 1960 File: E-296-416 Subject: Request for Approval of Proposed Initial Gallup Participating Area Gallegos Canyon Unit San Juan County, New Mexico

### U. S. GEOLOGICAL SURVEY

JUL 28 1960

Gallegos Canyon Unit No. 83 is located in<sup>0</sup> the NE/4 of Section 26, T-28-N, R-12-W, and is a Gallup Dakota dual completion. The Gallup in this well had a calculated initial potential of 267 barrels of oil per day based on 89 barrels of oil in eight hours. Currently, the producing capacity is 100 barrels per day with a GOR of 2322 and the current allowable is 78 barrels of oil per day.

Your approval of the proposed Initial Gallup Participating Area in the Gallegos Canyon Unit is respectfully requested.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION

L.O. Speer De:

L. O. Speer, Jr. Area Superintendent

RBB:en Attach.

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

Date JUL 2 2 1960

1ngan Approved Commissioner of Public Lands/

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

Approved Rulu

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

Date \

Date June 7, 1960

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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

Aztec Oil and Gas Company 920 Mercantile Securities Building Dallas 1, Texas

Nary Roberts Berry 208 E. Washington Street Washington, Iowa

Brookhaven Oil Company P. O. Box 396 Scottsdale, Arizona

Lester F. Colby, Trustee Route 1 Crystal Lake, Illinois

B. H. and Dyvena Crawford Bloomfield, New Mexico

George J. Darneille 5521 Bordley Houston, Texas

Devonian Gas and Oil Company 2003 Commonwealth Building Pittsburg 22, Pennsylvania

Phillip Gates 802 N. LaBrea Avenue Englewood, California

Ernest A. Hanson P. O. Box 852 Roswell, New Mexico

L. B. Hodges P. O. Box 671 Roswell, New Mexico

Edward J. Johnson 223 Greenbank Avenue Piedmont 10, California Elman R. Jones 764 Twentieth Avenue San Francisco, California

Nathan Kessler 5900 States Drive Oakland, California

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

Sunray Mid-Continent Oil Company 1101 Wilco Building Midland, Texas Attn: V. M. Williams

Arthur W. Sunter 2210 Tenth Street Berkeley, California Texaco, Inc. P. O. Box 3109 Midland, Texas

Texas Pacific Coal and Oil Company P. O. Box 2110 Fort Worth 1, Texas

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

Wood Oil Company Room 800, Midstates Building Tulsa, Oklahoma

### "ENGINEERING AND GEOLOGICAL REPORT FOR INITIAL GALLUP PARTICIPATING AREA" GALLEGOS CANYON UNIT SAN JUAN COUNTY, NEW MEXICO

Gallegos Canyon Unit No. 83 was completed on February 6, 1959, as a dual completion in the Gallup and Dakota formations. A determination of the commercial productivity of the Gallup was not made pending collection of performance data, and no initial participating area has been set up for that formation. Since completion, Gallegos Canyon Unit. No. 83 has demonstrated its ability to produce oil from the Gallup formation in paying quantities; consequently, an Initial Gallup Participating Area to encompass the 360 acres around Gallegos Canyon Unit No. 83 is being recommended. The outline of this proposed Initial Gallup Participating Area is shown in yellow on the attached map. Exhibit "A".

Gallegos Canyon Unit No. 83 is located 990 feet from the North and East lines of Section 26, T-28-N, R-12-W. The Gallup zone was perforated 5548-5620 and stimulated by sand-oil fracturing with 50,000 gallons of oil and 75,000 pounds of sand. This well produced 89 barrels of oil in eight hours for a calculated initial potential of 267 barrels of oil per day. Currently, it is capable of producing 100 barrels of oil per day pumping with a GOR of 2322.

In the Gallegos Canyon Unit Area the oil producing Gallup is a finegrained, shaly sandstone member of the Mancos shale of Cretaceous Age. Commercial oil production from the Gallup is controlled by stratigraphy or sand cleanliness rather than by structure. It is believed that commercial production at well No. 83 proves all the directly and diagonally offsetting quarter-quarter sections to be reasonably proven productive of unitized substances in paying quantities.

JUN 1 3 1960

EXHIBIT B OWNERSHIP SCHEDULE INITIAL GALLUP PARTICIPATING AREA GALLEGOS CANYON UNIT SAN JUAN COUNTY, NEW MEXICO EFFECTIVE FEBRUARY 6, 1959 Overrides of 8/8 Owner of Record Payments % Owner % of Lease
Dverrides Production Payments % Owner
Pan American Pet- 2,00 roleum Corporation
Pan American Pet- - roleum Corporation
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Percent Participation

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