

PAN AMERICAN PETROLEUM CORPORATION

MAIN OFFICE UCC

P. O. Box 480, Farmington, New Mexico

June 13, 1960

1960 JUN 15 AM 8:18

File: E-360-416

Subject: Non-Commercial Determination
of Gallup Formation
Gallegos Canyon Unit No. 84
San Juan County, New Mexico

Director
United States Geological Survey
c/o Oil and Gas Supervisor
P. O. 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

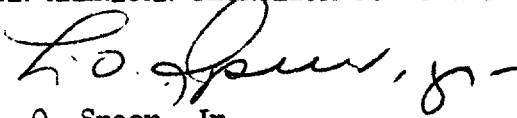
All Working Interest Owners
In Unit Area
(See Attached Addressee List)

Gentlemen:

A Non-Commercial determination of the Gallup formation, Gallegos Canyon Unit Well No. 84, located in the NW/4 NW/4 Section 26, T-28-N, R-13-W, was approved by the U. S. Geological Survey on June 10, 1960.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION


L. O. Speer, Jr.
Area 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

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

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

Petro-Atlas Corporation
First National 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

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721-32
Roswell, New Mexico

June 10, 1960

Pan American Petroleum Corporation
P. O. Box 487
Farmington, New Mexico

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

Gentlemen:

Reference is made to your determination dated May 24, 1960, that Gallegos Canyon Unit No. 84 well in the NW1/4 sec. 26, T. 28 N., R. 13 W., N.M.P.M., San Juan County, New Mexico, dual completed as a Gallup-Dakota producer on March 20, 1959, 5,648' - 5,730', declining to 18 barrels of oil per day in a period of one year, is not capable of producing unitized substances in paying quantities from the Gallup formation pursuant to sec. 10 of the unit agreement.

We concur with such determination and return herewith one approved copy of your determination. Production from the Gallup formation of this well should be allocated to the land on which the well is located.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: (w/cy of notice)
BLM-Santa Fe (w/cy of notice)
Comm. Pub. Lands (ltr only)
NMOCC (ltr only)

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 487, Farmington New Mexico

1960 JUN 13 AM 9:39 June 8, 1960

File: E-342-416

Subject: Revised Exhibit "B"
Gallegos Canyon Unit

Director
United States Geological Survey
c/o Oil and Gas Supervisor
P. O. 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)

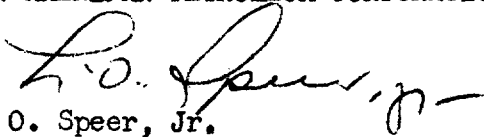
Gentlemen:

A Revised Exhibit "B" was transmitted by our letter of May 5, 1960, setting out the ownership of the various tracts in the Gallegos Canyon Unit. The following corrections should be made to your copy of the Exhibit "B".

<u>Page</u>	<u>Tract</u>	<u>Correction</u>
1	9	All acreage included under the description should be Range 12 West instead of Range 13 West.
31	156	(1) Under column headed Serial or Contract No. and Lease Date it should be - Patented 10-28-58 instead of Unleased. (2) Column headed Owner should be Pan American instead of Elsworth R. and Mona K. Caldwell. (3) Column - Percentage of 8/8 - should be 12.50 instead of unleased.

Very truly yours,

PAN AMERICAN PETROLEUM CORPORATION


L. O. Speer, Jr.
Area 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

Elmer R. Jones
764 Twentieth Avenue
San Francisco, California

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

Nathan Kessler
5900 States Drive
Oakland, California

Mary Roberts Berry
208 E. Washington Street
Washington, Iowa

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

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

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

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

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

B. H. and Dyvena Crawford
Bloomfield, New Mexico

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

George J. Darneille
5521 Bordley
Houston, Texas

Petro-Atlas Corporation
First National Building
Tulsa 3, Oklahoma

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

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

~~XXXXXXXXXXXX~~

~~XXXXXXXXXXXX~~

~~XXXXXXXXXXXX~~

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

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

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

Robb Woods
501 W. Grand River Street
Clinton, Missouri

Edward J. Johnson
223 Greenbank Avenue
Piedmont 10, California

Skelly Oil Company
Tulsa 2, Oklahoma
Attn: 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

~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~
Berkeley, California

Tom Bolack
1010 N. Dustin
Farmington, 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

Olen F. Featherstone
Roswell Petroleum Building
Roswell, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING
FORT WORTH, TEXAS

J. L. HOYT, JR.
DIVISION PRODUCTION SUPERINTENDENT

May 5, 1960

File: GWK-271-416

Subject: Revised Exhibit "B"
Gallegos Canyon Unit

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

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

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

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

Gentlemen:

Attached is a revised Exhibit "B" effective April 1, 1960 for the Gallegos Canyon Unit. This exhibit sets out the ownership of the various tracts in this unit as reflected by our records. Any inquiries regarding this matter should be addressed to Mr. L. O. Speer, Jr., Pan American Petroleum Corporation, P. O. Box 487, Farmington, New Mexico.

Very truly yours,



DRC:lj
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

Tom Bolack
1910 N. Dustin
Farmington, New Mexico

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

E. H. Colby
45 Woodstock
Crystal Lake, Illinois

B. H. and Dyvena Crawford
Bloomfield,
New Mexico

George J. Darneille
5521 Bordley
Houston, Texas

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

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

El Paso Natural Gas Company
P. O. Box 1526
Salt Lake City 10, Utah
Attn: Mr. Donald L. Anderson

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

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

Locke-Taylor Drilling Company
801 Second Avenue
Durango, Colorado

Petro-Atlas Corporation
2000 Natl. Bank of Tulsa
Tulsa 3, Oklahoma

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

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

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

Robb Woods
308 E. Clinton Street
Clinton, Missouri

Skelly Oil Company
Box 1650
Skelly Building
Tulsa 2, Oklahoma
Attn: Mr. D. E. Smith

Southern Union Gas Company
Burt Building
Dallas, Texas

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

Summit Oil Company
1104 Burt Building
Dallas, Texas

Nathan Kessler
5900 States Drive
Oakland, California

Olen F. Featherstone
Roswell Petroleum Building
Roswell, New Mexico

Texaco, Inc.
Box 3109
Midland, Texas

Texas Pacific Coal & 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

GILLEGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. B.F.N. No. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial or Contract No. & Lease Date	Basic Royalty		OIL or 8/3 Percentage of 8/3	Lessee Or Applicant Of Record	Working Interest	
					Owner	Percentage of 8/3			Owner	Percent Of Total A.I.
1	N/2 S/2 Sec. 24, 29N-13W	160.00	160.00		U.S.A.	12.50	None	Levonian Gas & Oil Company	Levonian Gas & Oil Company	100.00
2	Lot 1 Sec. 7, SE/4 NE/4 and SW/4 SE/4 Sec. 18, 28N-11W	106.90	106.90	SF-047019-B 3-6-36	U.S.A.	12.50	None	Summit Oil Company	Summit Oil Company	100.00
3 170547	Lot 3 Sec. 18, 29N-12W	39.43	39.43	NM-03654 2-1-51	U.S.A.	12.50	Pauline S. McNaughton 5.00000 ORI	Pan American Petroleum Corporation	Pan American Petroleum Corp.	100.00
4 170547	S/2 SW/4, SW/4 SE/4, Sec. 23, NE/4 NE/4 Sec. 26, 29N-13W	160.00	160.00	NM-03654 2-1-51	U.S.A.	12.50	Pauline S. McNaughton 5.00000 ORI	Pan American Petroleum Corporation	Pan American Petroleum Corp.	100.00
5	NE/4 Sec. 21, 29N-12W	160.00	160.00	NM-06237 10-1-52	U.S.A.	12.50	None	Ernest A. Hanson	Ernest A. Hanson	100.00
6	Sec. 23, Sec. 24, SW/4 and SE/4 Sec. 14, 28N-13W	1600.00	1600.00	SF-077966 2-1-48	U.S.A.	12.50	None	Aztec Oil and Gas Company	Aztec Oil and Gas Company	100.00
7 170274	Sec. 35, Sec. 36, 28N-13W	1280.00	1280.00	SF-077967 2-1-48	U.S.A.	12.50	None	Southern Union Gas Company	Pictured Cliffs & Above Southern Union Gas Company	100.00 100.00
8	E/2 and W/2 Sec. 11, 28N- 13W	0	275.56	SF-078072 2-1-48	U.S.A.	12.50	None	Louise M. Phillips	Robert Mims	100.00
9	Sec. 15, 17, 18 and NW/4 Sec. 19, NW/4, SE/4 Sec. 21 and NW/4 Sec. 22-28N-13W	2536.94	2536.94	SF-078106 12-1-47	U.S.A.	12.50	None	Sunray Mid-Continent Oil Company	Sunray Mid- Continent Oil Co.	100.00
10	NW/4, N/2 SW/4, SE/4 Sec. 21, S/2 SW/4, W/2 SE/4 Sec. 26, S/2 NE/4 Sec. 27, NE/4 NE/4 Sec. 28, All Sec. 31, SE/4 Sec. 33, S/2 SW/4 Sec. 34, 29N-12W and Sections 7, 8, 10, W/2 Sec. 9, lots 3&4 Sec. 11-28N-12W	2561.19	2561.19	SF-078109 2-1-48	U.S.A.	12.50	None	Sunray Mid-Continent Oil Company	Sunray Mid- Continent Oil Company	100.00

GALLEGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number of Acres In Unit Area	Serial or Contract No. & Lease Date	Basic Royalty		ORRI or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Working Interest	
					Owner	Percentage of 8/8			Owner	Percent Of Total W.I.
11	NW/4 SW/4 Sec. 28, NW/4 SE/4 Sec. 34, NW/4 NE/4 Sec. 35-29N-12W	120.00	120.00	SF-078209 10-1-49	U.S.A.	12.50	None	Petro-Atlas, Inc.	Petro-Atlas, Inc.	100.00
11-A 171876	SW/4 SE/4, SE/4 SW/4 Sec. 28, S/2 NE/4 Sec. 33, 29N-12W	160.00	160.00	SF-078209-B 10-1-49	U.S.A.	12.50	L. B. Stewart 2.50000 ORI J. B. Allison 2.50000 ORI #66.00000 P/P #4.00000 P/P	George J. Darnelle	Pictured Cliffs and Above George J. Darnelle et al 100.00 Base of Pictured Cliffs to Base of Korrison George J. Darnelle et al 50.00 Pan American Petroleum Corporation 50.00 All Formations Below Base of the Morrison George J. Darnelle et al 50.00 Pan American Petroleum Corporation 50.00	
11-B	NE/4 NE/4, NE/4 SE/4, Lot 4 Sec. 30, 29N-12W	119.68	119.68	SF-078209 10-1-49	U.S.A.	12.50	None	American Petrofina, Inc.	American Petrofina, Inc.	100.00
12 170524	E/2 SE/4, SE/4 NE/4 Sec. 18 29N-12W	120.00	120.00	SF-078303 12-1-47	U.S.A.	12.50	James J. Hudson 5.00000 ORI C. E. Carroll et ux Zollie Rhea .08789 ORI Dudley Cornell and Mary Lee Connell .08789 ORI A. T. Hannett, Trustee 6.25000 P/P	Pan American Petroleum Corporation Petro-Atlas, Inc.	Pan American Petroleum Corporation Petro-Atlas, Inc.	37.50 62.50
13	NE/4, E/2 NW/4 Sec. 17, N/2 W/2, SW/4 NE/4 Sec. 18-29N-12W	439.32	439.32	SF-078370 12-1-47	U.S.A.	12.50	None	Nathan Kessler	Nathan Kessler	100.00
14 171802	W/2 NW/4 Sec. 17-29N-12W	80.00	80.00	NW-03401 12-1-47	U.S.A.	12.50	Nathan Kessler et ux Jean 5.00000 ORI C. E. Carroll et ux Zollie Rhea .08789 ORI Dudley Cornell & Mary Lee Cornell .08789 ORI A. T. Hannett, Trustee 6.25000 P/P	Pan American Petroleum Corp. Petro-Atlas, Inc.	Pan American Petroleum Corp. Petro-Atlas, Inc.	37.50 62.50

CALLEGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial or Contract No. & Lease Date	Basic Royalty Percentage of 8/8	ORRI or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Working Interest Owner	Percent Of Total W.I.
15	SE/4 SE/4 Sec. 7, NE/4 NE/4, E/2 SE/4 Sec. 18- 28N-11W	160.00	160.00	SF-078780 3-1-51	12.50	Hazel L. Gentle 3.00000 ORI	Ni loco Company	John J. Redfern, Jr.	100.00
16 94007	Lots 1, 2, 3, 4 and S/2 S/2 Sec. 12, Sec. 13; NW/4, NE/4 Sec. 14-28N-13W	1235.40	1235.40	SF-078807-A 4-1-48	12.50	Stokoll Pet. Corporation 2.00000 ORI #34.20000 P/P *2.00000 P/P	Pictured Cliffs & Alcoe Pan American Pet. Corp. George J. Darneille et al Below Pictured Cliffs Pan American Pet. Corp. George J. Darneille et al	Pan American Pet. Corp. George J. Darneille et al	50.00 50.00 75.00 25.00
17 139782	NE/4 NE/4, SW/4 NE/4 Sec. 14, NE/4 Sec. 22, W/2 NW/4 Sec. 23, SE/4 Sec. 29-28N-12W	480.00	480.00	SF-078828 8-1-49	12.50	#34.20000 P/P Texas National Petroleum Co. .36868 ORI Claude W. Ray- bourn .06667 ORI R. E. Beamon .55877 ORI Alma. Beamon Anderson .27939 ORI R. E. Beamon, III .03255 ORI J. Felix Hickman .25859 ORI The First National Bank of Fort Worth, Trustee for Eula May Johnston .21768 ORI V. A. Johnston .05442 ORI Orville C. Rogers .01814 ORI Veva Jean Gibbard .01814 ORI Lillie Leona Rogers .01813 ORI Mrs. Jerry J. Andrew .05442 ORI James J. Johnston .05442 ORI *2.00000 P/P	From The Surface to the Base of the Pictured Cliffs Formation Pan American Pet. Corp. George J. Darneille et al Below the Base of the Pictured Cliffs Formation Pan American Pet. Corp. George J. Darneille et al	Pan American Pet. Corp. George J. Darneille et al	50.00 50.00 75.00 25.00

CALLIGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number of Acres In Unit Area	Serial Or Contract No. & Lease Date	Basic Royalty Owner	Percentage of 8/8	ORI or P/P Percentage of 8/8	Lessee Or Applicant Cf Record	Working Interest Owner	Percent Of Total V. I.
17-A 74485	E/2 S/2 S/2, W/2 S/2 S/2 Sec. 11, SE 1/4 Sec. 14, Sec. 27, Sec. 28, NE 1/4 Sec. 29 - 28N-12W	1760.00	1760.00	SF-078928-A 8-1-49	U.S.A.	12.50	David C. Tyrrell .2872 ORI #34,20000 P/P Texas National Pet. Co. .31601 ORI R. E. Beamon .47894 ORI R. E. Beamon III .02790 ORI Alma Beamon Anderson .23947 ORI The First National Bank of Fort Worth, Trustee for Eula Kay Johnston .18658 ORI V. A. Johnston .04665 ORI Orville C. Rogers .01555 ORI Veva Jean Gibbard .01554 ORI Lillie Leona Rogers .01554 ORI Mrs. Jerry J. Andrew .04665 ORI James J. Johnston .04665 ORI J. Felix Hickman .22165 ORI Claid W. Raybourn .05715 ORI *2.00000 P/P	From the Surface to the base of the Pictured Cliffs Formation Pan American Pet. Corp. George J. Darnelle George J. Darnelle et al Below the Base of the Pictured Cliffs Formation Pan American Pet. Corp. George J. Darnelle et al	Pan American Petroleum Corp. George J. Darnelle et al	50.00 50.00 75.00 25.00 75.00
18 94158	Sec. 34-28N-12W	640.00	640.00	SF-078903-A 2-1-48	U.S.A.	12.50	#35.00000 P/P *2.00000 P/P	From the Surface to the Base of the Pictured Cliffs Formation Pan American Petroleum Corp. George J. Darnelle Below the Base of the Pictured Cliffs Formation Pan American Pet. Corp. George J. Darnelle et al	Pan American Petroleum Corp. George J. Darnelle et al	50.00 75.00 25.00
18-A 171872	Sec. 35 and 36 -28N-12W	1280.00	1280.00	SF-078903 2-1-48	U.S.A.	12.50	#70.00000 P/P *4.00000 P/P	From The Surface to the Base of the Pictured Cliffs Formation George J. Darnelle et al Below The Base of the Pictured Cliffs Formation George J. Darnelle et al Pan American Pet. Corp.	George J. Darnelle et al George J. Darnelle et al Pan American Petroleum Corp.	100.00 50.00 50.00 50.00

CHILDOSS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Cr Contract No. & Lease Date	Basic Royalty Percentage of S/S	Owner	Oil Cr P/P Percentage of S/S	Lesse Cr Applicant Cr Record	Owner	Percent Of Total P.P.I.
18-B 170070	Sec. 33-28N-12W	640.00	640.00	SP-078903-B 2-1-48	12.50	U.S.A.	None	Pan American	Pan American	100.00
19 94070	E/2, SW/4, E/2 NW/4 Sec. 23, Sec. 24 and 26-28N- 12W	1840.00	1840.00	SP-078904 2-1-48	12.50	U.S.A.	35.00000 P/P *2.00000 I/P	From the Surface to the Base of the Pictured Cliffs Pan American George J. Larnelle George J. Larnelle et al	Pan American George J. Larnelle George J. Larnelle et al	50.00 50.00
19-A 170071	Sec. 25-28N-12W	640.00	640.00	SP-078904-A 2-1-48	12.50	U.S.A.	None	Pan American	Pan American	100.00
20 94077	Lots 1&2 Sec. 11, SW/4 SW/4 Sec. 12, E/2 NW/4, SW/4 Sec. 13, NW/4, NE/4 NE/4, SE/4 NE/4, SE/4 Sec. 14, S/2 Sec. 22, Lots 3&4, E/2 SW/4 Sec. 31, - All in 28N- 12W, (Less and except the Lakota Rights in S/2 Sec. 22.)	1207.18	1207.18	SP-078905 7-1-48	12.50	U.S.A.	35.00000 P/P *2.00000 I/P	Pictured Cliffs and above Pan American George J. Larnelle George J. Larnelle et al	Pan American George J. Larnelle George J. Larnelle et al	50.00 50.00
21 94078	S/2 NW/4, S/2 Sec. 25, W/2 NE/4, SE/4 NE/4 Sec. 26; Sec. 35-29N-13W.	1160.00	1160.00	SP-078926 5-1-48	12.50	U.S.A.	35.00000 P/P *2.00000 I/P	Pictured Cliffs Formation and above Pan American George J. Larnelle George J. Larnelle et al	Pan American George J. Larnelle George J. Larnelle et al	50.00 50.00
21-A 127155	S/2, NE/4 Sec. 26-29N-13W	480.00	480.00	SP-078926-A 5-1-48	12.50	U.S.A.	None	Pan American	Pan American	100.00
22	S/2 SW/4 Sec. 18; E/2 NW/4, NE/4 NE/4 Sec. 19-29N-12W	199.48	199.48	SP-078949 2-1-48	12.50	U.S.A.	None	L. E. Hodges	L. E. Hodges O. R. Featherstone Ernest A. Hanson	10.00 45.00 45.00

GALLEGO CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number of Acres In Unit Area	Serial or Contract No. & Lease Date	Basic Royalty		ORRI Or P/P Percentage of 3/8	Lessee Or Applicant Of Record	Working Interest	
					Owner	Percentage of 3/8			Owner	Percent Of Total W.I.
23	Sec. 34-29N-13W	0	640.00	SF-079065 10-1-49	U.S.A.	12.50	L. N. Hagood 5.00000 ORI	Azteco Oil and Gas Co.	Azteco Oil & Gas Co.	100.00
24 94014	NW/4 Sec. 20-28N-12W	160.00	160.00	SF-079244 5-1-48	U.S.A.	12.50	#35.00000 P/P #2.00000 P/P	Above the Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00
24-A 127317	NE/4 Sec. 19-28N-12W	160.00	160.00	SF-079244-A 5-1-48	U.S.A.	12.50	#35.00000 P/P #2.00000 P/P	Above the Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00
25 94188	SE/4 Sec. 32-28N-12W	160.00	160.00	SF-079346 5-1-49	U.S.A.	12.50	#33.00000 P/P Mary C. Hagood 5.00000 ORI #2.00000 P/P	Above the Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	75.00 25.00
25-A 171677	Sec. 4, Lots 1 and 2, S/2 NE/4 Sec. 5, 27N-12W	800.62	800.62	SF-078902 2-1-48	U.S.A.	12.50	#70.00000 P/P #4.00000 P/P	Above The Base Of the Pictured Cliffs Formation George J. Darnelle et al	George J. Darnelle et al	100.00
25-B 127156	N/2, SW/4 Sec. 32-28N-12W	480.00	480.00	SF-079346-A 5-1-49	U.S.A.	12.50	#33.00000 P/P Mary C. Hagood 5.00000 ORI #2.00000 P/P	Above the Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00
								Below the Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	75.00 25.00

GALLAGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	ORRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total P. I.
26 170525	NW/4 NE/4 Sec. 26; N/2 NE/4 Sec. 27-29N-12W	120.00	120.00	SF-079907 9-1-48	U.S.A.	12.50	Arthur T. Callahan Et Ux Ola E. 5.00000 ORI, G. M. Carroll Et Ux Zollie Rhea .08789 ORI, Dudley Cornell and Mary Lee Cornell .08789 ORI A. T. Hannett, Trustee 6.25000 P/P	Pan American Petro-Atlas, Inc.	Pan American Petro-Atlas, Inc.	37.50 62.50
27	N/2 SE/4 Sec. 27-29N-12W	80.00	80.00	SF-080224 3-1-51	U.S.A.	12.50	None	Ernest A. Hanson	Ernest A. Hanson	100.00
28	N/2 SE/4, SE/4 SE/4 Sec. 23- 29N-13W	120.00	120.00	SF-080239 9-1-49	U.S.A.	12.50	None	Southern Union Gas Co.	Southern Union Gas Co.	100.00
29	SE/4 Sec. 17-29N-12W	160.00	160.00	SF-080491 (Lease Application)	U.S.A.	12.50	None	John H. Trigg	John H. Trigg	100.00
30	SW/4 Sec. 17-29N-12W	160.00	160.00	SF-080600 (Lease Application)	U.S.A.	12.50	None	John H. Trigg	John H. Trigg	100.00
31 87730	E/2 SE/4, NE/4 NE/4 NW/4 Sec. 13-29N-13W	280.00	280.00		U.S.A.	12.50	*2.00000 P/P	Above the Base of the Pictured Cliffs Formation Pan American George J. Darneille Below the Base of the Pictured Cliffs al Formation Pan American George J. Darneille	Pan American George J. Darneille et al Pan American George J. Darneille	50.00 50.00 75.00 25.00
32	N/2 S/2 Sec. 22-29N-12W	160.00	160.00	SF-080647 3-1-48	U.S.A.	12.50	None	H. K. Riddle	H. K. Riddle	100.00
33	NW/4 Sec. 22-29N-12W	160.00	160.00	SF-080647-A 3-1-48	U.S.A.	12.50	None	H. K. Riddle	Tom Bolack	100.00
34 170492	E/2 NE/4, NE/4 SE/4 Sec. 19; N/2 S/2, SE/4 SE/4 Sec. 20-29N-12W	320.00	320.00	SF-080723	U.S.A.	12.50	Edward J. Johnson 5.00000 ORI	Above the Base of the Pictured Cliffs Formation Pan American Below the Base of the Pictured Cliffs Formation Pan American	Edward J. Johnson Pan American	100.00 100.00
34-B 170492	N/2 Sec. 20-29N-12W	320.00	320.00	SF-080723	U.S.A.	12.50	Edward J. Johnson 5.00000 ORI	Pan American	Pan American	100.00

GALLAGHER CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- tage of 8/8	ORRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total W. I.
34-A 170523	S/2 SW/4, Sec. 21; NE/4 NW/4, NE/4 NE/4 Sec. 28- 29N-12W	160.00	160.00	NH-03526 1-1-50	U.S.A.	12.50	Edward J. Johnson 5.00000 ORI C. N. Carroll Et Ux Zollie Rhea .08789 ORI Dudley Cornell and Mary Lee Cornell .08789 ORI, A. T. Hannett, Trustee 6.25000 P/P	Pan American Petro-Atlas, Inc.	Pan American Petro-Atlas, Inc.	37.50 62.50
35 94185	Sec. 19-28N-11W	635.84	635.84	SF-080844-A 10-1-51	U.S.A.	12.50	Ernest A. Hanson 2.25000 ORI Olen F. Feather- stone 2.25000 ORI Thelma L. Stephens Rhodes .50000 ORI	Pan American	Pan American	100.00
35-A 171875	S/2 Sec. 31-28N-11W	317.39	317.39	SF-080844 10-1-51	U.S.A.	12.50	*4.00000 P/P Ernest A. Hanson 2.25000 ORI Olen F. Feather- stone 2.25000 ORI Thelma L. Stephens Rhodes .50000 ORI #66.00000 P/P	Above The Base of the Pictured Cliffs Formation George J. Darnelle Below the Base of the Pictured Cliffs Formation George J. Darnelle Benson-Montin et al Pan American	George J. Darnelle George J. Darnelle George J. Darnelle et al Pan American George J. Darnelle et al	100.00 50.00 50.00
36	NE/4 SE/4, NE/4 SW/4 Sec. 29-29N-12W	80.00	80.00	SF-080962 7-1-50	U.S.A.	12.50 Sliding Scale From	None	Elma R. Jones	Elma R. Jones	100.00
48	Lot 3 Sec. 7, 28N-11W	27.55	27.55	NH-020497 12-1-55	U.S.A.	12.50	None	John J. Redfern, Jr.	John J. Redfern, Jr.	100.00
158 171877	S/2 Sec. 5-27N-12W	320.00	320.00	SF-078902 2-1-48	U.S.A.	12.50	*4.00000 P/P #70.00000 P/P	From The Surface to the Base of the Pictured Cliffs Formation George J. Darnelle Below The Base of the Pictured Cliffs Formation Benson-Montin et al George J. Darnelle et al	George J. Darnelle Pan American George J. Darnelle et al	100.00 50.00 50.00

GALLAGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	ObRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total I. I.
BEGINNING OF INDIAN LEASES										
37	Lots 1 & 2, S/2 SE/4 Sec. 9, N/2 Sec. 16- 28N-12W	456.24	456.24	I-149-Ind. -8474	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs	12.50	None	Wood Oil Company	Wood Oil Company	100.00
38	S/2 Sec. 16, NE/4, SE/4 Sec. 21-28N-12W	640.00	640.00	I-149-Ind. -8475	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs	12.50	None	Texaco, Inc.	Texaco, Inc.	100.00
39	S/2 Sec. 19, S/2, NE/4 Sec. 20-28N-12W	792.62	792.62	I-149-Ind. -8476	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs	12.50	None	Texaco, Inc.	Texaco, Inc.	100.00
40	W/2 Sec. 29-28N-12W	320.00	320.00	I-149-Ind. -8477	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs	12.50	None	Texaco, Inc.	Texaco, Inc.	100.00
41	N/2, SE/4 Sec. 31-28N-12W	472.00	472.00	I-149-Ind. -8478	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs	12.50	None	Texaco, Inc.	Texaco, Inc.	100.00
42	Sec. 30-28N-12W	624.60	624.60	I-149-Ind. -8479 6-28-51	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs	12.50	None	Aztec Oil and Gas Co.	Aztec Oil and Gas Co.	100.00
43 170271	NW/4 and SE/4 Sec. 25- 28N-13W	320.00	320.00	I-149-Ind. -8471 6-9-50	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs	12.50	None	Above The Base of the Pictured Cliffs Formation Southern Union Gas Co. Below The Base of the Pictured Cliffs Formation Pan American Southern Union Gas Co.	Southern Union Gas Co. Southern Union Gas Co.	100.00 50.00 50.00

GALLAGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- tage of 8/3	ORRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total P. I.
43 Continued: 170271	NE/4 Sec. 25-28N-13W	160.00	160.00	I-149-Ind. -8471	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs Bobbie Yazzie	10.71428 1.78572 Unleased	None	Above The Base of the Pictured Cliffs Formation Southern Union Gas Co. Southern Union Gas Co. Bobbie Yazzie (Fee Owner) Bobbie Yazzie - Unleased Mineral Int.		85.72 14.28
43 Continued: 170271	SW/4 Sec. 25-28N-13W	160.00	160.00	I-149-Ind. -8471	c/o Bureau of Indian Affairs Bobbie Yazzie	10.71428 1.78572 Unleased	None	Below the Base of the Pictured Cliffs Formation Pan American Southern Union Gas Co. Southern Union Gas Co. Bobbie Yazzie (Fee Owner) Bobbie Yazzie (Unleased Mineral Int.)		42.86 42.86 14.28
43 Continued: 170271	SW/4 Sec. 25-28N-13W	160.00	160.00	I-149-Ind. -8471	See Revision Dated 11-1-54- All Royalties c/o Bureau of Indian Affairs Bobbie Yazzie	12.33257 0.16743 Unleased	None	Above the Base of the Pictured Cliffs Formation Southern Union Gas Co. Southern Union Gas Co. Bobbie Yazzie		98.6606 1.3394
44 170272	Sec. 26-28N-13W	640.00	640.00	I-149-Ind. -8472 6-9-50	c/o Bureau of Indian Affairs Bobbie Yazzie	12.33257 0.16743 Unleased	None	Below the Base of the Pictured Cliffs Formation Pan American Southern Union Gas Co. Southern Union Gas Co. Bobbie Yazzie		49.3303 49.3303 1.3394
44 170272	Sec. 26-28N-13W	640.00	640.00	I-149-Ind. -8472 6-9-50	C/O Bureau of Indian Affairs	12.50	None	Above the Base of the Pictured Cliffs Formation Southern Union Gas Co. Southern Union Gas Co. Pan American Pet. Corp.		100.00
45 94172	SE/4 NE/4 Sec. 32, NE/4 NW/4, S/2 NW/4, SW/4 Sec. 33-29N-12W	320.00	320.00	I-149-Ind. -8486 6-28-51	c/o Bureau of Indian Affairs	12.50	*2.00000 P/P	Below the Base of the Pictured Cliffs Formation Pan American Southern Union Gas Co. Southern Union Gas Co.		50.00 50.00
45 94172	SE/4 NE/4 Sec. 32, NE/4 NW/4, S/2 NW/4, SW/4 Sec. 33-29N-12W	320.00	320.00	I-149-Ind. -8486 6-28-51	c/o Bureau of Indian Affairs	12.50	*2.00000 P/P	Above the Base of the Pictured Cliffs Formation Pan American George J. Darneille Below the Base of the Pictured Cliffs Formation Pan American George J. Darneille		50.00 50.00 75.00 25.00

GALLAGHER CANYON UNIT

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit A. i.	Serial Or Contract No. & Lease Date	Percent- tage of 8/8	ORRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total U. I.
162	Lots 1, 2, S/2 NE/4 Sec. 6- 27N-12W	159.88	159.88	Indian Pat. Allotment No. 059312 5-27-50	12.50	None	Texaco, Inc.	Texaco, Inc.	100.00
163	SE/4 Sec. 6-27N-12W	0	160.00	Indian Pat. Allotment No. 059313 5-27-50	12.50	None	Texaco, Inc.	Texaco, Inc.	100.00
TOTAL INDIAN LEASES									5065.34
									5225.34

GALLEGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

STATE OF NEW MEXICO

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	CRRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total U.I.
46	Lot 2 Sec. 7; NE/4 NW/4, SE/4 NW/4, NW/4 SE/4, NW/4 SW/4, SE/4 SW/4 Sec. 18-28N-11W; Lots 1, 2, 3, S/2 SE/4 Sec. 12; SE/4 NW/4, NW/4 SE/4, S/2 SE/4 Sec. 13-28N-12W; NE/4 SW/4 Sec. 16; NE/4 NW/4, NE/4 SW/4, SW/4 SE/4 Sec. 36-29N-12W	0	709.26	E-2447-1 2-10-49	State of New Mexico	12.50	None	Pacific Northwest Pipeline Corp.	From the Surface to the Base of the Verde Formation Pacific Northwest Pipeline Corp.	100.00
46-A 94159	SW/4 NE/4, NE/4 SW/4 Sec. 32-29N-12W; NW/4 NE/4 Sec. 36-29N-12W	120.00	120.00	E-2447-1 2-10-49	State of New Mexico	12.50	\$35.00000 P/P \$2.00000 P/P	Pan American George J. Darneille	Above the Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00
47	Lots 4&5 Sec. 7; NW/4 NE/4, Lots 1 and 2, Sec. 18-28N-11W; SE/4 SW/4 Sec. 16; NW/4 SW/4 Sec. 36-29N-12W	263.24	263.24	E-10870 12-10-53	State of New Mexico	12.50	None	Pan American George J. Darneille Texas & Pacific Coal and Oil Company	Above the Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	75.00 25.00
49 170345	SE/4 SW/4 Sec. 7, 28N-11W	40.00	40.00	03-1045 7-16-57	State of New Mexico	12.50	None	Pan American	Pan American	100.00
50 170345	SW/4 SE/4 Sec. 7-28N-11W	40.00	40.00	03-1045 7-16-57	State of New Mexico	12.50	None	Pan American	Pan American	100.00
51	SW/4 NE/4 Sec. 18-28N-11W	40.00	40.00	E-397-2 6-11-50	State of New Mexico	12.50	None	Azteco Oil & Gas Company	Azteco Oil & Gas Company	100.00
52 170345	NE/4 SW/4 Sec. 18-28N-11W	40.00	40.00	03-1045 7-16-57	State of New Mexico	12.50	None	Pan American	Pan American	100.00
53 170390	Lot 4 Sec. 18-28N-11W	38.95	38.95	00-1531 11-19-57	State of New Mexico	12.50	None	Pan American	Pan American	100.00
54 171832	Lot 4 Sec. 12-28N-12W	27.60	27.60	E-284-15 4-13-45	State of New Mexico	12.50	Edwin T. Sumter and Mary F. Sumter 5.00000 ORI	Pan American	Pan American	100.00
55 187813	SE/4 SW/4 Sec. 12-28N-12W	40.00	40.00	E-3151 12-14-54	State of New Mexico	12.50	John W. Hjertstedt 5.00000 ORI	Pan American John W. Hjertstedt	Pan American Petroleum Corp.	100.00
56	N/2 NE/4 Sec. 13-28N-12W	80.00	80.00	E-1065-1 1-7-51	State of New Mexico	12.50	None	From The Surface to the Base of the Mesa Verde Formation Pacific Northwest Pipeline Corp.	From The Surface to the Base of the Mesa Verde Formation Pacific Northwest Pipeline Corp.	100.00

GALLEGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	ORRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total W. I.
56 (Cont'd)										
57 170513	NE/4 NW/4 Sec. 13-28N-12W	40.00 ✓	40.00 ✓	E-11513-16 10-2-44	State of New Mexico	12.50	Paul T. Purcell 5.00000 ORI	Pan American	Pan American	100.00
58 170580	S/2 NE/4 Sec. 13-28N-12W	80.00 ✓	80.00 ✓	E-3156-2 12-15-49	State of New Mexico	12.50	Bertha A. Rahn and Frieda L. Rahn 3.00000 ORI Hugh J. Mitchell Et Ux Raimonda 2.00000 ORI	Pan American	Pan American	100.00
59 171807	NE/4 SE/4 Sec. 13-28N-12W	40.00	40.00 ✓	B-9145-36 5-15-41	State of New Mexico	12.50	Phillip C. Gates and Mary Hamlin Gates 3.50000 ORI	Pan American	Pan American	100.00
60	SW/4 SW/4 Sec. 16-29N-12W	40.00	40.00 ✓	E-498 8-10-51	State of New Mexico	12.50	None	Texas & Pacific Coal & Oil Company	Texas & Pacific Coal & Oil Company	100.00
61 171807	NW/4 SW/4 Sec. 16-29N-12W	40.00	40.00 ✓	B-9145-35 5-15-41	State of New Mexico	12.50	Thelma Capen 3.00000 ORI Hugh J. Mitchell Et Ux Raimonda 2.00000 ORI	Pan American	Pan American	100.00
62	NW/4 NW/4 Sec. 32-29N-12W	40.00	40.00 ✓	E-5462 8-10-51	State of New Mexico	12.50	None	Texas & Pacific Coal and Oil Company	Texas & Pacific Coal and Oil Company	100.00
63	SW/4 NW/4 Sec. 32-29N-12W	40.00	40.00 ✓	E-5462 8-10-51	State of New Mexico	12.50	None	Texas & Pacific Coal and Oil Company	Texas & Pacific Coal and Oil Company	100.00
64 87745	SE/4 NW/4 Sec. 32-29N-12W	40.00	40.00 ✓	B-10405-30 6-24-43	State of New Mexico	12.50	#35.00000 P/H #2.00000 P/H	From the Surface to the Base of the Pictured Cliffs Formation Pan American George J. Darneille Below the Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille Pan American George J. Darneille	50.00 50.00 75.00 25.00

GILLOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960.

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	GRM Or F/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total
PATENTED LEASES										
95 187809-A 187809-B	SE/4 NW/4, NE/4 SW/4, W/2 SE/4 Sec. 13-29N-13W	160.00	160.00		Dorothy J. Krause Geo. H. Krause Char. & Eunice McDonald	3.125 3.125 6.250		Charles H. McDonald Et Ux Eunice M. 1.50000 ORI George H. Krause Et Ux Kathryn B. and Dorothy J. Krause 1.50000 ORI Hugh J. Mitchell Et Ux Raimonda 2.00000 ORI	Pan American Pet. Corp.	100.00
96 87879	NW/4 NW/4 Sec. 13-29N-13W	40.00	40.00	8-2-48 Patented	Encs J & Dorothy B. Strawn	12.50	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00 75.00
97 87782	NW/4 SW/4 Sec. 13-29N-13W	40.00	40.00	11-12-48 Patented	Jessie Cox Churchill	12.50	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00 75.00 25.00
98 87823	E/1071 feet SW/4 NW/4 Sec. 13-29N-13W	32.00	32.00	12-16-48 Patented	Arthur & Ruth Coy	12.50	*3.12500 F/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00 75.00 25.00

GALLAGHER CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total A.L.
95 27789	W/2 SW/4 SW/4 Sec. 13-29N-13W	20.00	20.00	11-29-48 Patented	J. B. & Veda B. Brown	12.50	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle Pan American George J. Darnelle et al	50.00 50.00 75.00 25.00
100 27774-A	E/2 SW/4 SW/4, SE/4 SW/4 Sec. 13-29N-13W	60.00	60.00	11-1-48 Patented	Gladys Booram	6.25	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle Pan American George J. Darnelle et al	25.00 25.00 37.50 12.50
27774-B	E/2 SW/4 SW/4, SE/4 SW/4 Sec. 13-29N-13W			11-1-48 Patented	Gladys Booram	6.25	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle Pan American George J. Darnelle et al	25.00 25.00 37.50 12.50
101	Beginning at a pt. on N. line, Sec. 23, 40 rds. E from NW/C of NE/4 of said Sec.; Thence S. 746.8'; Thence W. 777' to place of beginning - All located in Sec. 23-29N-13W	0	12.00	Patented	John A. Lee	12.50	None	Locke-Taylor Drig. Co. Locke-Taylor Drig. Co.	Locke-Taylor Drig. Co. Locke-Taylor Drig. Co.	100.00
102 74463	E/2 NE/4, SW/4 NE/4 & 13.00 Acres in S/part of NW/4 NE/4 Sec. 23-29N-13W	133.00	133.00	Patented 2-20-47	See Page 32	12.50	*6.25000 P/P	Above The Base of the Pictured Cliffs Formation Pan American and Benson- McIntin Below The Base of the Pictured Cliffs Formation Pan American	Locke-Taylor Drilling Co. Pan American	100.00 100.00 100.00
103 171978	N/2 SW/4 Sec. 23-29N-13W	0	80.00	Patented 12-13-51	Carrie Allen Ramsey, Lula L. Allen, life Estate William S. Allen	2.03 4.16	6.25000 P/P	Above The Base of the Pictured Cliffs Formation Below The Base of the Pictured Cliffs Formation Pan American	William S. Allen Et Ux Lula J. & Eula L. Allen 2.50000 ORI 6.25000 P/P	100.00 100.00

GALLAGHER CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of E/8	ORRI Or P/P Percentage of E/8	Lessee Or Applicant Of Record	Percent Of Total I.I.
103-A 171978	NE/4 Sec. 23-29N-13W	0	160.00	Patented 12-13-51	Carrie Allen Ramsey Eula L. Allen Life Estate William S. Allen	6.25 2.08 4.16	William S. Allen Et Ux Kelba J. and Eula L. Allen 2.50000 ORI 6.25000 P/P Bernie E. Dustin Et Ux Ruth 5.00000 P/P	Above The Base of the Pictured Cliffs Formation Below The Base of the Pictured Cliffs Formation Pan American Pan American	100.00 100.00 100.00
104 171873	Begin at MVC of NE/4 Sec. 23; Thence S. 60 Rds; Thence E. 40 Rds; Thence N. 60 Rds; Thence W. 40 Rds. to beginning. All in Sec. 23-29N-13W,	15.00	15.00	Patented 4-21-51	Louie Dustin	12.50	*12.50000 P/P	Above The Base of the Pictured Cliffs Formation Locke-Taylor Drilling Co. Locke-Taylor Drilling Co. Below The Base of the Pictured Cliffs Formation Pan American	100.00 100.00 100.00
105 79789	W/12 Ac. NW/4 NW/4 Sec. 24-29N-13W	12.00	12.00	Patented 9-17-47	John B. & Wanda Lee Burrell Kerton W. & Demetra W. Gifford Lillian B. Dean	7.29 1.63 3.58	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	50.00 50.00 75.00 25.00
106 74469	E/28 Ac. NW/4 NW/4 (Except 2 Ac. On Eastern Edge) Sec. 24-29N-13W	26.00	26.00	Patented 3-13-47	Owen K. McCarty Ray A. & Helen O. Killian S. B. Lancaster	5.75 5.75 1.00	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00 75.00 25.00
106-A 109010	E/2 Ac. NW/4 NW/4 Sec. 24-29N-13W	2.00	2.00	Patented 12-3-52	Owen K. McCarty Ray A. & Helen O. Killian S. B. Lancaster	5.75 5.75 1.00	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00 75.00 25.00

GALLAGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	ORRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total U. I.
107 74482	NE/4 NW/4 Sec. 24-29N-13W	40.00	40.00	Patented 3-8-47	Joseph T & Kathleen Kellenaers	12.50	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	50.00 50.00
108 74481	S/2 NW/4, SW/4 NE/4, Except 3 Ac. in NW Corner, Sec. 24- 29N-13W	117.00	117.00	Patented 3-8-47	S. B. Lancaster	12.50	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	50.00 50.00 75.00 25.00
108-A 108960-A	3 Ac. in NW/4 Corner of SW/4 NW/4 Sec. 24-29N-13W	3.00	3.00	Patented 12-6052	Owen K. McCarty	6.25	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	25.00 25.00 37.50 et al 12.50
108960-B	3 Ac. in NW/4 Corner of SW/4 NW/4 Sec. 24-29N-13W	39.50	39.50	Patented 1-29-53	Ray A & Hazel O. Killian	6.25	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	25.00 25.00 37.50 12.50
109 146705	NW/4 NE/4 Sec. 24-29N-13W Except 1/2 Acre in SE/4	39.50	39.50	Patented 10-3-56	See Page 32	12.50	None	Pan American	Pan American	100.00

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Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Perce- tage of 8/8	GRM Or F/F Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total I. I.
110 87729	1/2 E/2 NE/4, E/2 E/2 NE/4 Except E. 5.00 acres of SE/4 NE/4 Sec. 24-29N-13W	75.00	75.00	Patented 9-8-48	Anthony J & John A. Mitchell	12.50	#35.00000 P/P #3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	50.00 50.00
111 171381	1/2 Acre S. of Public Road in SE/4 of NE/4 NE/4 Sec. 24-29N-13W	0.50	0.50	Patented 12-3-52	S. B. Lancaster	12.50	#70.00000 F/P #6.25000 F/P	Above The Base of the Pictured Cliffs Formation George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	100.00 50.00
112 79800	S/2 S/2 Sec. 24, N/2 N/2 Sec. 25, 29N-13W; NW/4 NE/4, SE/4 NW/4, S/2 NE/4, N/2 NE/4 Sec. 30-29N-12W; SW/4 SW/4 Sec. 19-29N-12W	598.93	598.93	Patented 5-15-47	H. L. Sterling Kortimer A. Kline William T. Walker Reese L. Milner D. Latham- Trustee West Dev. Co. of Del.	6.25 1.56 .59 1.87 1.29	#35.00000 P/P #3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	50.00 50.00
113 74467	SW/4 NE/4 Sec. 25-29N-13W; W/2 SW/4, SE/4 SW/4 Sec. 29- 29N-12W	160.00	160.00	Patented 2-24-47	Julius P. Schenck of Del.	12.50	#35.00000 P/P #3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	50.00 50.00
114 74445	SE/4 NE/4 Sec. 25-29N-13W; SW/4 NW/4, N/2 SW/4 Sec. 30- 29N-12W.	159.12	159.12	Patented 2-11-47	See Page 32	12.50	#35.00000 P/P #3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	50.00 50.00
								Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	Pan American George J. Darneille et al	75.00 25.00

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115 139538	Lot 2 (Being SW/4 NW/4), SE/4 NW/4, NE/4 SW/4, Sec. 18-29N-12W	119.37	119.37	Patented 1-9-56	Nancy P. Tenkin	12.50	None	Pan American	Pan American	100.00
116	W/2 SE/4 Sec. 18-29N-12W	80.00	80.00	Patented 1-9-56	See Page 32	12.50	None	Pan American	Pan American	100.00
117 87702	SE/4 SE/4 Sec. 19; W/2 SW/4 SW/4 Sec. 20-29N-12W Below 1000' only	60.00	60.00	Patented 8-17-48	BE & Almon E. Dustin Hugh L & Iva A. Sterling Calvin R & Betty Jo Coy Jack & Eugenia Smith Paul B. & Dorothy Horn Goldie A. Chapman	1.53 .17 1.88 2.31 .99 5.62	#35,00000 P/P #3,12500 P/P	From 1000' Below the Surface of the Ground to the Base of Pictured Cliffs Formation Pan American George J. Darnelle Below the Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle Pan American George J. Darnelle	50.00 50.00 75.00 25.00
118 74494-A 74494-B	E/60 acs. of E/2 SW/4 Sec. 19-29N-12W	60.00	60.00	Patented 5-8-47	Thomas F & Evelyn Kerby	6.25	#17,50000 P/P #1,36718 P/P	Pan American	Pan American	50.00
74494-C				Patented 8-1-51	Rebecca Cordes	3.90625		Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle Below the Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle Pan American George J. Darnelle	15.625 15.625 23.4375 7.8125
74494-D				Patented 9-9-52	Katherine Keller	0.39062		Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle et al Pan American George J. Darnelle	1.56250 1.56250 2.34375 0.78125
				Patented 9-9-52	Theresa M. Price	0.39062		Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle Pan American George J. Darnelle et al	1.56250 1.56250 2.34375 0.78125

GALLEGOS CANYON UNIT
REVISED EXHIBIT "R" EFFECTIVE APRIL 1, 1960

Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Patented	Owner	Percentage of 8/8	Percent- tage of 8/8	Or P/F Percentage of 8/8	Lessee Or Applicant Of Record	Percent Of Total L. I.
74494-E					Patented 9-9-52	Donna C. Brown	0.39062			Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	1.56250 1.56250 2.34375 0.78125
74494-F					Patented 9-9-52	Sylvia J. Szakacs	0.39062			Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	1.56250 1.56250 2.34375 0.78125
74494-G					Patented 2-1-54	Lloyd G. Cordes	0.39062			Pan American George J. Darneille et al	1.5625 1.5625 1.5625
74494-H					Patented 2-1-54	Robert C. Cordes	0.39062			Pan American George J. Darneille et al	1.5625 1.5625 1.5625
119 79788	W/20 Ac. E/2 SW/4 Sec. 19-29N-12W	20.00	20.00	Patented 9-17-47	Thomas F & Evelyn Kerby	12.50000	#35.00000 P/P #3.12500 P/P			Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00 75.00 al 25.00
120 74444	W/2 NW/4, N/23.46 Acres of NW/4 SW/4 Sec. 19-29N-12W; E/5.00 Acres of SE/4 NE/4 Sec. 24-29N-13W	107.31	107.31	Patented 2-8-47	H. H. & Evelyn V. Smith	12.50000	#35.00000 P/P #3.12500 P/P			Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00 75.00 et al 25.00

GALLAGHER CANYON UNIT
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Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Cr Contract No. & Lease Date	Owner	Percent- age of 8/8	CRMI Cr F/P Percentage of 8/8	Lessee Cr Applicant Of Record	Percent Of Total A. I.
121 79790	E/16 Ac. of NW/4 SW/4 Sec. 19-29N-12W	16.00	16.00	Patented 9-17-47	H. H. & Evelyn V Smith	12.50000	1/35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00
122 94184	W/2 SE/4, SW/4 NE/4 Sec. 19- 29N-12W	120.00	120.00	Patented 2-12-51	Hamie Whitenack	12.50000	#35.00000 P/P *3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00
123 74464-A	SE/4 SE/4, W/2 SE/4, SE/4 SW/4 Sec. 30-29N-12W	160.00	160.00	Patented 2-11-47	Rosa Miller Luke H. Pousson	6.250 3.13	#35.00000 P/P *2.34375 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	37.50 37.50
123 -Continued: 74464-A	SE/4 SE/4, W/2 SE/4, SE/4 SW/4 Sec. 30-29N-12W as to Rights Down to & Including The Pictured Cliffs Formation Only.							Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	75.00 25.00
123 -Continued: 74464-B	SE/4 SE/4, W/2 SE/4, SE/4 SW/4 Sec. 30-29N-12W As to Rights Below the Base of the Pictured Cliffs Formation Only.			Patented 2-19-53	Clementine Delpaz J. J. DeWeerd	1.56 1.56		Above The Base of the Pictured Cliffs Formation Only Pan American George J. Darneille et al	12.50 12.50
124 108909	N/2 NE/4, NE/4 NW/4 Sec. 32, NW/4 SW/4 SE/4, S/2 SE/4 Sec. 29, SW/4 SW/4 Sec. 28, NW/4 NW/4 Sec. 33-29N-12W	320.00	320.00	Patented 10-13-52	Alex & Petrita C. Jaquez	12.50000	#25.00000 P/P *2.22500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	50.00 50.00
								Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille et al	75.00 25.00

CHIEF OF CALIFORNIA UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Treat No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 5/8	CRUI Or F/P Percentage of 3/8	Lessee Or Applicant Of Record	Owner	Percent Of Total A. I.
125 87705	NE/4 Sec. 29, SW/4 SE/4 Sec. 20-29N-12W	200.00	200.00	Patented 8-17-48	F L & Eva Lee W C & Ora Huish	6.25 6.25	#35.00000 P/P #3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille et al	50.00 50.00
126 74443	NW/4 Sec. 29, SE/4 SW/4 Sec. 20-29N-12W	200.00	200.00	Patented 1-31-47	L V & Pearl A Goff George T. Kartchner	6.25 6.25	#35.00000 P/P #3.12500 P/P	Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille	75.00 25.00
127 87720	E/2 SW/4 SW/4 Sec. 20-29N- 12W	20.00	20.00	Patented 8-17-48	J. D. & Eugenia Rosenmore		#3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille et al	50.00 50.00
128 79794-C	E/2 SE/4 Sec. 28, NW/4 SW/4, W/2 SW/4 SW/4 Sec. 27-29N-12W	70.00	140.00	Patented 12-16-48	Jesse T & Vera C. Brimhall		#1.56250 P/P	Below the Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille et al	75.00 25.00
128 - Continued.	E/2 SE/4 Sec. 28, NW/4 SW/4, W/2 SW/4 SW/4 Sec. 27-29N-12W	0		Patented Unleased	K. H. Stark & Eula Stark	Unleased		Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille	N. H. Stark & Eula Stark	50.00
129 171874	S/2 NW/4, NW/4 NW/4, NE/4 SW/4 Sec. 28-29N-12W	160.00	160.00	Patented 3-18-52	See Page 32	12.50000	#6.25000 P/P	Below The Base of the Pictured Cliffs Formation George J. Darneille	George J. Darneille et al	100.00
								Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille et al	50.00 50.00

GILLEGOS CANYON UNIT
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130 74442	S/2 NE/4, NW/4 SE/4 Sec. 28- 29N-12W	120.00	120.00	Patented 2-27-47	See Page 32	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00
131	E/2 SW/4 SW/4 Sec. 27-29N- 12W	20.00	20.00	Patented Unleased	Robb Woods	Unleased	None	Robb Woods	Robb Woods	100.00
132 87821	SE/4 SW/4 Sec. 27-29N-12W	40.00	40.00	Patented 12-16-48	See Page 32	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	50.00 50.00
133	NE/4 SW/4 Sec. 27-29N-12W	40.00	40.00	Patented Unleased	See Page 32	Unleased	None	George H. Krause Emma Louise Krause Chas. J. Wright	George H. Krause Emma Louise Krause Chas. J. Wright	50.00 25.00 25.00
134 79794-A	W/2 SW/4 SE/4 Sec. 27-29N- 12W	20.00	20.00	Patented 9-17-47	Mrs. C. H. V. Carlisle	6.25000	*1.56250 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle et al	Pan American George J. Darnelle et al	25.00 25.00
134-Continued: W/2 SW/4 SE/4 Sec. 27-29N- 12W				Patented Unleased	M. H. Stark Et Ux Eula	Unleased		Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle	37.50 12.50
135	E/2 SW/4 SE/4 Sec. 27, NW/4 NE/4, E/2 NE/4 NE/4 Sec. 34- 29N-12W	0	80.00	Patented Unleased	M. H. Stark Et Ux Eula	Unleased	None	M. H. & Eula Stark	M. H. & Eula Stark	50.00 100.00

GALLEGOS CANYON UNIT
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136 97667	W/2 SE/4 Sec. 27, W/2 NE/4 NE/4 Sec. 34- 29N-12W	40.00	40.00	Patented 7-24-48	Camera Palmer	12.50000	None	Pan American	Pan American	100.00
137	E/2 SE/4 Sec. 27- 29N-12W	0	20.00	Patented Unleased	See Page 32	Unleased	None		G. W. & H. B. Sammons and C. C. & Ethel Wyn Culpepper	100.00
138 170526-A	S/2 NW/4, NW/4 NW/4 Sec. 27-29N-12W	120.00	120.00	Patented 4-15-58	See Page 32	6.25000	None	Pan American	Pan American	50.00
170526-B	S/2 NW/4, NW/4 NW/4 Sec. 27-29N-12W			Patented 4-15-58		6.25000	None	Pan American	Pan American	50.00
139 170552	NE/4 NW/4 Sec. 27, SE/4 SW/4 Sec. 22-29N-12W	80.00	80.00	Patented 7-17-58	Frank H. Marrow	17.50000	None	Pan American	Pan American	100.00
140 170527	SW/4 SW/4 Sec. 22-29N-12W	40.00	40.00	Patented 4-15-58	T. R. Knowles	12.50000	None	Pan American	Pan American	100.00
141 79793	S/2 SE/4 Sec. 22-29N-12W	80.00	80.00	Patented 9-24-47	N. Spatter	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Dameille et al	Pan American George J. Dameille et al	50.00 50.00
142 74465	NE/4 SW/4, SE/4 Sec. 34; SW/4 NW/4, W/2 SW/4 Sec. 35- 29N-12W	320.00	320.00	Patented 1-31-47	See Page 32	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Dameille et al	Pan American George J. Dameille et al	50.00 50.00
143 79961	S/2 N/2 Sec. 34-29N-12W	160.00	160.00	Patented 6-28-48	Charles R. Keller Jr. Et Ux June O.	12.50	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Dameille et al	Pan American George J. Dameille et al	50.00 50.00
								Below The Base of the Pictured Cliffs Formation Pan American George J. Dameille	Pan American George J. Dameille	75.00 25.00
								Below The Base of the Pictured Cliffs Formation Pan American George J. Dameille et al	Pan American George J. Dameille et al	75.00 25.00

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144 74484	N/2 NW/4 Sec. 34, N/2 NE/4 Sec. 33-29N-12W	160.00	160.00	Patented 3-12-47	See Page 32	12.50000	#35.00000 P/P #3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle et al	50.00 50.00
145 87770	W/2 NE/4, E/2 NW/4 Sec. 35- 29N-12W	160.00	160.00	Patented 8-18-48	See Page 32 & 33	12.50000	*3.12500P/P	Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle	75.00 25.00
146 74468	E/2 NE/4, E/2 SW/4, SE/4 Sec. 35-29N-12W	320.00	320.00	Patented 1-31-47	See Page 33	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle et al	50.00 50.00
147 74441-A	NE/4 SE/4 Sec. 26-29N-12W	40.00	40.00	Patented 1-30-47	See Page 33	6.25000	*3.12500 P/P	Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle et al	25.00 25.00
74441-B	NE/4 SE/4 Sec. 26-29N-12W			Patented 10-23-47	See Page 33	6.25000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle	37.50 12.50
148 74441-B	SE/4 SE/4 Sec. 26-29N-12W	40.00	40.00	Patented 10-23-47	See Page 33	6.25000	*1.56250 P/P Burrell H. Crawford et ux, Lyvona 2.00000 CRI	Above The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle	25.00 25.00
								Below The Base of the Pictured Cliffs Formation Pan American George J. Darnelle	Pan American George J. Darnelle	37.50 12.50

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Tract No. & Pan Am. Lease Number	Description	Number Of Acres Committed To Unit	Number Of Acres In Unit Area	Serial Or Contract No. & Lease Date	Owner	Percent- age of 8/8	CRRI Or P/P Percentage of 8/8	Lessee Or Applicant Of Record	Owner	Percent Of Total W.I.
148 - Continued	SE/4 SE/4 Sec. 26-29N-12W			Patented Unleased	See Page 33	Unleased			B. H. & Dyvena Crawford	50.00
149 74462	NE/4, E/2 NW/4, SW/4 NW/4, N/2 SW/4 Sec. 26-29N-12W	360.00	360.00	Patented 1-30-47	J. N. Doak and Lois E. Doak	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille Pan American George J. Darneille	50.00 50.00 75.00 25.00
150 74480-A	SW/4 SE/4, NE/4 NW/4 Sec. 25-29N-12W	80.00	80.00	Patented 3-12-47	See Page 33	7.81250	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille Pan American George J. Darneille	31.25 31.25 46.875 15.625
74480-B	SW/4 SE/4, NE/4 NW/4 Sec. 25-29N-12W			Patented 3-12-48	See Page 33	2.34375	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille Pan American George J. Darneille	9.375 9.375 14.0625 4.6875
150-Continued 74480-C				Patented 3-1-49	See Page 33	2.34375	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille Pan American George J. Darneille	9.375 9.375 14.0625 4.6875
151 87810	South 3/4 NW/4 SE/4 Sec. 25-29N-12W	30.00	30.00	Patented 12-4-48	Jack D. Waller and Lena R. Waller	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille Pan American George J. Darneille	50.00 50.00 75.00 25.00
152 74441-A	W/2 NW/4, N/2 SW/4 Sec. 25- 29N-12W	160.00	160.00	Patented 1-30-47	James E. Crawford Et Ur Hazel L.	12.50000	*3.12500 P/P	Above The Base of the Pictured Cliffs Formation Pan American George J. Darneille Below The Base of the Pictured Cliffs Formation Pan American George J. Darneille	Pan American George J. Darneille Pan American George J. Darneille	50.00 50.00 75.00 25.00

GALLAGOS CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

Tract No.	Royalty Owner	Percentage of 8/8	Tract No.	Royalty Owner	Percentage of 8/8	Tract No.	Royalty Owner	Percentage of 8/8
102	Helen Zimmerman (Et Vir R. J. Zimmerman) Howard N. Tycksen (Et Ux Zelma Tycksen)	6.25 6.25	114 Contd.	Paul Calloway Mary Jo Torgerson Gertrude Lee Chatterson Gary Dean Vandever	.23438 .23437 .125 .375	142	As To SE/4 NW/4 & W/2 SW/4 Sec. 35: John J. Redfern, Jr. Joseph S. Hartman (Et Ux Helen)	3.125 4.6875 4.6875
109	As To 15.31 Acres Being That Part of NW/4 NE/4 Sec. 24-28N-13W Lying South of Irrigation Ditch Running Thru Tract, South of State Road No. 17: Tom Bolack J. F. Zanolid (Et Ux Frances D. Zanolid) As To Balance of NW/4 NE/4 Sec. 24: J. F. Zanolid (Et Ux Frances D. Zanolid Robert L. Leighton and Madelyn Leighton)	6.25 6.25 6.25 6.25	116	Allen M. Tonkin (Et Ux Nancy F. Tonkin) Hattie M. Walker	6.25 6.25		Ruth H. Schreck (Et Vir E. A. Schreck) As To SE/4 & NE/4 SW/4 Sec. 34: Charles R. Keller, Jr. (Et Ux June O.) Joseph S. Hartman (Et Ux Helen) Ruth H. Schreck (Et Vir E. A. Schreck)	4.6875 4.6875 3.125 4.6875 4.6875
114	R. L. Miller Zella Calloway Belmore Miller Estel W. Miller Pauline Harrison Vida Blankenship Lockey M. Miller Jean M. Shumate Eual Miller Basil Miller Robert L. Miller, Jr. William W. Miller Tom B. Miller Mrs. Stella G. Lusk Pearl Blankenship Maude M. Morgan Esie E. Miller Leonard E. Miller Ray V. Miller Raymond Miller Walter Lewis Miller Wilbur Smith Miller Anna Dunning Wiley Calloway Carl Calloway Mary Margaret Calloway	6.875 .75 .3125 .02841 .02841 .02841 .02130 .06392 .02841 .02841 .02840 .08523 .08523 .08523 .08523 .08522 .3125 .15625 .15625 .625 .625 .625 .15625	144	C. C. Culpepper (Et Ux Ethel Wyn) Theodore P. Amsden Mrs. Virginia Amsden Whitmore Mrs. Gail Amsden Hall Larry Amsden, A Minor (Erick Johnson, Guardian) Charles Amsden, A Minor (Erick Johnson, Guardian) J. E. Crawford and Hazel L. Crawford (As To SE/4 NE/4 Sec. 28) James M. Crawford (Et Ux Frances) and Hulan E. Crawford (As to Balance) John J. Redfern, Jr. Roselind Redfern Jack Markham John J. Christmann J. H. Herd Jack D. Thornton George H. Krause Emma Louise Krause Chas. J. Wright G. W. Sammons and H. B. Sammons, C. C. Culpepper and Ethelwyn Culpepper T. R. Knowles Sylvia Sher (Et Vir Sydney)	6.25 1.5625 1.5625 1.5625 1.5625 .78125 .78125 12.50 12.50 12.50 1.0208333 3.0625 3.125 3.125 2.0416667 .125 6.25 3.125 3.125 12.50 6.25 6.25	145	Tony P. Medina Joe E. Medina Eudoro Medina Francis Medina Archibeque Pete J. Medina Adolfo Lobato Ruth Pearson (Et Vir George G.) Alice M. Ivey (Et Vir Melvin) Amy Arrington Esther Chelte (Et Vir B. J. Chelte) Mildred A. Wright C. L. Caspary, Jr. and Agnes Caspary Edgar P. Miller and Ruth S. Miller Frank H. Packwa Jack I. Clow Edward F. Stohlman and Evelyn N. Stohlman Henry A. Oberfeld John C. Forsythe Leo B. Ray Visen Swick and Ethel C. Swick James E. Kervin and Eleanora C. Kervin	2.0833333 2.0833333 2.0833333 2.0833333 2.0833333 2.0833333 2.5 .16666667 .16666667 .16666667 .390625 .15625 .15625 .078125 .078125 .390625 .15625 .078125 .078125 .390625 .15625

GALLAGHER CANYON UNIT
REVISED EXHIBIT "B" EFFECTIVE APRIL 1, 1960

<u>Tract No.</u>	<u>Royalty Owner</u>	<u>Percentage of 8/8</u>	<u>Tract No.</u>	<u>Royalty Owner</u>	<u>Percentage of 8/8</u>
145 Contd.	Jerry C. Ryan and Esther Biehl	.390625	146 Contd.	As To E/2 SE/4, SE/4 NE/4, S/2 NE/4 NE/4 Sec. 35:	
	Dominik Fuchs	.15625		F. I. Lee and Eva Lee	3.125
	H. D. McKown and Gertrude L. McKown	.078125		Joseph S. Hartman (Et Ux Helen)	2.34375
	Charles S. Shenoha and Clara R. Shenoha	.078125		Ruth Schreck (Et Vir Edwin A.)	2.34375
	George B. Radeackar and Margaret Radeackar	.15625		Ella Blaise	4.6875
	Robert Treichel	.3125		N/2 NE/4 NE/4 Sec. 35:	
	Elmer R. Keil	.234375		Charles R. Keller, Jr.	
	Harry G. Jackson and Mrs. Lily B. Jackson	.078125		(Et Ux June O.)	3.125
	Lily R. Pirtle and Norma C. Pirtle Willoughby	.1953125		Joseph S. Hartman (Et Ux Helen)	2.34375
	Lily R. Pirtle and Daniel C. Pirtle	.1953125		Ruth Schreck (Et Vir Edwin A.)	2.34375
	Antonia Sotlar	.15625		Ella Blaise	4.6875
	P. Candelieri and Lillian Candelieri	.078125	147	James E. Crawford (Et Ux Hazel L.)	6.25
	Thomas Cleveland	.078125		The Heirs or Devises of Maud B. Farrell	6.25
	Dr. W. S. Wilkison and Bonnie F. Wilkison	.15625		Burrell H. Crawford and Dyvena Crawford	6.25
	A. Candelieri	.078125	148	The Heirs or Devises of Maud B. Farrell	6.25
	Albert Streiff	.15625		Maria C. Peterson	7.8125
	J. A. Graham	.078125		Cecelia P. Ransom	2.34375
	Martha Jean Bogue			Cecil R. Peterson Et Ux Hazel Talbot	2.34375
	John Mein and Josephine D. Mein	.3125	150	Elsworth R. Caldwell and Nova K. Caldwell	12.50
	Charles W. Roberts, Jr.	.078125			
	J. R. West	.15625	156		
146	As To E/2 SW/4 Sec 35:				
	John J. Redfern, Jr.	3.125			
	Joseph S. Hartman (Et Ux Helen)	2.34375			
	Ruth Schreck (Et Vir Edwin A.)	2.34375			
	Ella Blaise	4.6875			
	As To W/2 SE/4 Sec. 35:				
	William P. Loughurst (Et Vir Pearl W.)	3.125			
	Joseph S. Hartman (Et Ux Helen)	2.34375			
	Ruth Schreck (Et Vir Edwin A.)	2.34375			
	Ella Blaise	4.6875			

P. O. Box 6721
Roswell, New Mexico

March 21, 1960

Pan American Petroleum Corporation
P. O. Box 487
Farmington, New Mexico

Attention: Mr. Ben E. Kee

Gentlemen:

This is to acknowledge receipt of the following documents relating to the Gallegos Canyon unit agreement, New Mexico, No. I-Sec.No.844:

1. Seven copies of a ratification and joinder to the unit agreement executed by L. B. Hodges and Willie G. Hodges who own the record title and working interest in Federal land unit tract 22. Approval and consent of Pan American Petroleum Corporation, unit operator, is affixed to each copy of the ratification and joinder.
2. Seven copies of a ratification and joinder to the unit operating agreement, executed by L. B. Hodges and Willie G. Hodges, also relating to Federal land unit tract 22.
3. Seven copies of a ratification and joinder to the unit agreement, executed by Pan American Petroleum Corporation which owns the record title and working interest in patented land unit tracts 154 and 157. Approval and consent of Pan American Petroleum Corporation, unit operator, is affixed to each copy of the ratification and joinder.
4. Seven copies of a ratification and joinder to the unit agreement, executed by Pan American Petroleum Corporation which owns the record title and working interest in State land unit tract 53. Lands in State land unit tract 53 were formerly covered by State of New Mexico lease B-9094-9. Approval and consent of Pan American Petroleum Corporation, unit operator is affixed to each copy of the ratification and joinder.
5. Seven copies of a ratification and joinder to the unit agreement, executed by Pan American Petroleum

Corporation which owns the record title and working interest in patented land unit tract 140. Approval and consent of Pan American Petroleum Corporation, unit operator, is affixed to each copy of the ratification and joinder.

6. Seven copies of a ratification and joinder to the unit agreement, executed by T. R. Knowles who owns an overriding royalty interest in Patented land unit tract 140. Approval and consent of Pan American Petroleum Corporation, unit operator and working interest owner of unit tract 140, is affixed to each copy of the ratification and joinder.

7. Seven copies of a ratification and joinder to the unit agreement, executed by Greathel Olsen and Bert Olsen who own an overriding royalty interest in patented land unit tract 138. Approval and consent of Pan American Petroleum Corporation, unit operator and working interest owner of unit tract 138 is affixed to each copy of the ratification and joinder.

8. Seven copies of a ratification and joinder to the unit agreement, executed by T. R. Knowles and Sidney and Sylvia Sher, who own overriding royalty interests in patented land unit tract 138. Approval and consent of Pan American Petroleum Corporation, unit operator and working interest owner of unit tract 138, is affixed to each copy of the ratification and joinder.

9. Seven copies of a ratification and joinder to the unit agreement, executed by Pan American Petroleum Corporation which owns the record title and working interest in patented land unit tract 138. Approval and consent of Pan American Petroleum Corporation, unit operator, is affixed to each copy of the ratification and joinder.

10. Four copies of a ratification and joinder to the unit operating agreement, executed by Pan American Petroleum Corporation which owns the record title and working interest in State land unit tract 53 and patented land unit tracts 109, 138, 140, 154, and 157. Approval and consent of Pan American Petroleum Corporation, unit operator, is affixed to each copy of the ratification and joinder.

By virtue of the ratifications and joinders listed as Nos. 1 and 2 above, Federal land unit tract 22 is considered effectively committed to the Gallegos Canyon unit agreement, effective November 1, 1958, the first day of the month following filing of the ratifications and joinders. By virtue of the ratifications and joinders listed as Nos. 3, 4, 5, 9, and 10 above, State land unit tract 53 and patented land unit tracts 109, 138, 140, 154, and 157 are considered effectively

committed to the Gallegos Canyon unit agreement, effective May 1, 1959, April 1, 1959, December 1, 1959, May 1, 1959, May 1, 1959, and May 1, 1959, respectively; the first day of the month following filing of each of the ratifications and joinders. By virtue of the ratification and joinder listed as No. 6 above, the overriding royalty interest owned by T. R. Knowles in patented land unit tract 140, is considered committed to the Gallegos Canyon unit agreement, effective September 1, 1959, the first day of the month following filing of the ratification and joinder. By virtue of the ratifications and joinders listed as No. 7 and 8 above, the overriding royalty interests owned by Greathel and Bert Olsen, T. R. Knowles, and Sidney and Sylvia Sher in patented land unit tract 138 are considered committed to the Gallegos Canyon unit agreement, effective October 1, 1959, the first day of the month following filing of the ratifications and joinders.

Copies of the ratifications and joinders are being distributed to appropriate Federal offices for inclusion in the official case records. It is assumed you will furnish other interested parties with appropriate evidence of this action. All copies of the ratifications and joinders surplus to our needs are returned herewith.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of joinders)
Farmington (w/cy of joinders)
BLM-Santa Fe (w/cy of joinders)
State Land Office, (Mrs. Rhea)(ltr only)
NMOCC

WHFeldmiller:ibm

PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 487, Farmington, New Mexico
February 18, 1960

File: E-89-416

Subject: Approval of Initial Participating Area
And First Enlargement for Dakota 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

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:

Application for Approval of the Initial Participating Area and the First Enlargement for the Dakota Formation, Gallegos Canyon Unit, dated September 29, 1959, has been executed by the U. S. Geological Survey, Commissioner and Commission on the following dates:

Director United States Geological Survey:	January 22, 1960
Commissioner of Public Lands State of New Mexico:	February 15, 1960
New Mexico Oil Conservation Commission:	October 26, 1959

The Initial and First Enlargement of the Dakota Participating Area becomes effective February 6, 1959 and April 1, 1959, respectively.

Very truly yours

PAN AMERICAN PETROLEUM CORPORATION

L. O. Speer, Jr.
L. O. Speer, Jr.
Area Superintendent

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

Elman R. Jones
764 Twentieth Avenue
San Francisco, California

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

Nathan Kessler
5900 States Drive
Oakland, California

Mary Roberts Berry
208 E. Washington Street
Washington, Iowa

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

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

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

E. H. Colby
45 Woodstock
Crystal Lake, Illinois

Pacific Northwest Pipeline Corp.
P. O. Box 1526
Salt Lake City 10, Utah
Attn: Mr. Donald L. Anderson

B. H. and Dyvena Crawford
Bloomfield, New Mexico

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

George J. Darneille
5521 Bordley
Houston, Texas

Petro-Atlas Corporation
First National Building
Tulsa 3, Oklahoma

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

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

Phillip Gates
802 N. LaBrea Avenue
Englewood, California

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

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

Robb Woods
501 W. Grand River Street
Clinton, Missouri

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

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

Edward J. Johnson
223 Greenbank Avenue
Piedmont 10, California

Southern Union Gas Company
Burt Building
Dallas, Texas
Attn: D. W. Whitlow

Summit Oil Company
Burt Building
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

CERTIFICATE OF APPROVAL - PARTICIPATING AREA

Gallegos Canyon unit agreement, San Juan County, New Mexico, I-Sec. No. 844, Pan American Petroleum Corporation, unit operator. Initial Dakota formation participating area and first revision thereof covered in application of September 29, 1959.

Date approved: JAN 22 1960

William S. Zahner
Director, U. S. Geological Survey

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

FORT WORTH, TEXAS

J. L. HOYT, JR.
DIVISION PRODUCTION SUPERINTENDENT

September 29, 1959

File: GWK-4567-416

Subject: Request for Approval of
Initial Participating Area
and First Enlargement for
Dakota Formation, Gallegos
Canyon Unit, San Juan County,
New Mexico

RECEIVED
OCT 30 1959

U. S. GEOLOGICAL SURVEY
ROSWELL, 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)

Gentlemen:

Pursuant to Section 10 of the Gallegos Canyon Unit Agreement approved November 1, 1951, Pan American Petroleum Corporation as Unit Operator has determined, subject to the approval of the Director, Commissioner, and Commission, that the Dakota Formation is capable of producing unitized substances in paying quantities and that an Initial Participating Area for the Dakota Formation should be established. The proposed Initial Participating Area contains 2560 acres and is described as all of Sections 23, 24, 25, and 26, T-28-N, R-12-W, San Juan County, New Mexico. Attached is a schedule reflecting the ownership and describing the acreage in the proposed Initial Participating Area for the Dakota Formation. The effective date for the Initial Participating Area is determined as February 6, 1959, the date on which the Gallegos Canyon Unit Well No. 83 was completed.

Also pursuant to Section 10 of the Gallegos Canyon Unit Agreement, Pan American Petroleum Corporation has determined, subject to the approval of the Director, Commissioner, and Commission, that the completion of Gallegos Canyon Unit Well No. 84 as a well capable of producing unitized substances in paying quantities creates the need for a First Enlargement of the proposed Initial Participating Area for the Dakota Formation. The proposed First Enlargement of the Dakota Participating Area contains 1280 acres being all of Sections 23 and 26, T-28-N, R-13-W, San Juan County, New Mexico which will result in an enlarged participating area containing 3840 acres. Attached is a schedule reflecting the

September 29, 1959

ownership and describing the acreage in the proposed First Enlarged Participating Area for the Dakota Formation. The effective date for the First Enlargement is determined as April 1, 1959. The Gallegos Canyon Unit No. 84 was completed March 20, 1959.

On the map attached as Exhibit A, the proposed Initial Participating Area and First Enlargement for the Dakota Formation have been noted. Attached in support of the proposals outlined above is a geological and engineering report.

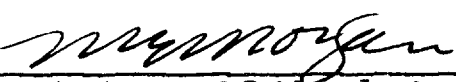
Your approval of the proposed Initial Participating Area and First Enlargement for the Dakota Formation in the Gallegos Canyon Unit is respectfully requested.

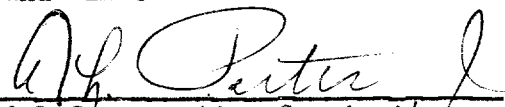
Very truly yours,



DRC:lj
Attachment

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

Approved  Date Feb 15, 1960
Commissioner of Public Lands
(Subject to like approval by U.S.G.S.
and Oil Conservation Commission)

Approved  Date Oct 26, 1959
Oil Conservation Commission
(Subject to like approval by U.S.G.S.
and Commissioner of Public Lands)

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

E. H. Colby
45 Woodstock
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

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

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

Pacific Northwest Pipeline Corp.
P. O. Box 1526
Salt Lake City 10, Utah
Attn: Mr. Donald L. Anderson

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

Petro-Atlas Corporation
First National Building
Tulsa 3, Oklahoma

John J. Redfern, Jr.
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

Southern Union Gas Company
Burt Building
Dallas, Texas
Attn: D. W. Whitlow

Summit Oil Company
Burt Building
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.
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

"GEOLOGICAL AND ENGINEERING REPORT"
DAKOTA FORMATION, GALLEGOS CANYON UNIT
SAN JUAN COUNTY, NEW MEXICO

The Pan American operated Gallegos Canyon Unit No. 83, located 990' from north and east lines of Section 26, T-28-N, R-12-W, San Juan County, New Mexico, was completed at a plug back depth of 6325' on February 6, 1959 flowing gas from the Dakota at a rate of 1250 MCF per day by Pitot tube measurement. The 15 day shut-in tubing pressure was 2055 psig resulting in a calculated open flow potential of 1476 MCF of gas per day. Dakota production is obtained from casing perforations at depths of 6200' - 6230' and 6280' - 6294'. This well is dually completed in the Dakota and Gallup with the two formations separated by a packer set at 6110' which is below the Gallup producing interval at approximately 5600'.

The Pan American operated Gallegos Canyon Unit No. 84, located approximately $6\frac{1}{2}$ miles west of Gallegos Canyon Unit No. 83 in the NW/4 NW/4 of Section 26, T-28-N, R-13-W, was completed at a plug back depth of 6393' on March 20, 1959. On a 3 hour test Gallegos Canyon Unit No. 84 flowed gas at the rate of 2971 MCF per day. At the end of a 13 day shut-in period, the shut-in tubing pressure was 1936 psig from which an open flow potential of 3152 MCF of gas per day was calculated. Dakota production is obtained from casing perforations at depths of 6306' - 6320', 6332' - 6356', and 6372' - 6384'. This well is dually completed in the Dakota and Gallup with the two formations separated by a packer set at 6220' which is below the Gallup producing interval at approximately 5700'.

The Dakota formation is a blanket type sandstone which covers a large part of the San Juan Basin Area. Accumulations of gas in the Dakota in this area do not appear to be associated directly with structure, but appear to be more a function of porosity and permeability development. Accordingly, the relative structural position is not considered to be so significant in determining productive area as is the continuity of porosity and permeability development.

Dakota gas development exists both east and west of Gallegos Canyon Unit No. 83. Redfern and Markham's Redfern No. 4 is located in the SE/4 Section 16, T-28-N, R-11-W, approximately 2 miles east of the eastern boundary of the Gallegos Canyon Unit and approximately 4 miles East Northeast of Gallegos Canyon Unit No. 83. This well was completed in September, 1958 with a calculated open flow potential of 5970 MCF of gas per day from the Dakota. The Pan American operated V. W. McManus No. 1 is located in the SW/4 of Section 22, T-28-N, R-12-W which is approximately 2 miles west northwest of Gallegos Canyon Unit No. 83. This noncommercial well was completed in 1952 after testing at a rate of 560 MCF of gas and 3 barrels of distillate per day from the Dakota.

Several Dakota gas completions exist west of Gallegos Canyon Unit No. 84. The closest of these is Aztec Oil and Gas Company's Robinson No. 2 located in the SE/4 of Section 22, T-28-N, R-13-W as

the northwest diagonal offset to Gallegos Canyon Unit No. 84. This well was completed in the Dakota in April, 1959 potentialing 5359 MCF of gas per day with a calculated absolute open flow of 7386 MCF of gas per day.

The above discussion of the Gallegos Canyon Unit Dakota completions and the information presented regarding other Dakota wells in the area illustrates that the Dakota is productive in the Gallegos Canyon Unit. In addition, these data show that all of the proposed Initial Dakota Participating Area consisting of all of Sections 23, 24, 25, and 26, T-28-N, R-12-W and the proposed First Enlargement consisting of all of Sections 23 and 26, T-28-N, R-13-W may reasonably be considered productive from the Dakota Formation.

OWNERSHIP SCHEDULE
INITIAL DAKOTA PARTICIPATING AREA
GALLAGOS CANYON UNIT
SAN JUAN COUNTY, NEW MEXICO
EFFECTIVE FEBRUARY 6, 1959

<u>Tract</u> <u>No.</u>	<u>Description of Land</u>	<u>Serial No. &</u> <u>Date of Lease</u>	<u>Basic Royalty</u> <u>Owner</u>	<u>% of 8/8</u>	<u>Owner of Record</u>	<u>Overrides</u> <u>and Production</u> <u>Payments-%</u>	<u>Working Interest</u> <u>Owner</u>	<u>% of Lea</u>
<u>FEDERAL LAND</u>								
17	W/2 NW/4 Sec 23-28N-12W	SF-078828 8-1-59	USA	12.50	Pan American Pet. Corp. George J. Darnelle	4.00	Pan American Pet. Corp. George J. Darnelle	75.00
19	E/2, SW/4, E/2 NW/4 Sec 23, all Sec 24 and all Sec 26-28N-12W	SF-078904 2-1-48	USA	12.50	Pan American Pet. Corp. George J. Darnelle	2.00	Pan American Pet. Corp. George J. Darnelle	75.00
19A	All Sec 25-28N-12W	SF-078904-A 2-1-48	USA	12.50	Pan American Pet. Corp.	---	Pan American Pet. Corp.	100.00

OWNERSHIP SCHEDULE
FIRST ENLARGED DAKOTA PARTICIPATING AREA
CALECOS CANYON UNIT
SAN JUAN COUNTY, NEW MEXICO
EFFECTIVE APRIL 1, 1959

Tract No.	Description of Land	Serial No. & Date of Lease	Basic Royalty Owner	% of 8/8	Lessee of Record	Overrides and Production Payments-%	Working Interest Owner	% of Lease	Acres	Percent Participation
<u>FEDERAL LAND</u>										
6	ALL Sec 23-28N-13W	SF-077966 2-1-48	USA	12.50	Aztec Oil & Gas Company	—	Aztec Oil & Gas Company	100.00	640.00	16.66667
17	W/2 NW/4, Sec 23-28N- 12W	SF-078828 8-1-49	USA	12.50	Pan American Pet. Corp. & George J. Darnelle	4.00	Pan American Pet. Corp. George J. Darnelle	75.00 25.00	80.00	2.08333
19	E/2, SW/4, E/2 NW/4 Sec 23, all Sec 24, and all Sec 26-28N-12W	SF-078904 2-1-48	USA	12.50	Pan American Pet. Corp. & George J. Darnelle	2.00	Pan American Pet. Corp. George J. Darnelle	75.00 25.00	1840.00	47.91666
19A	ALL Sec 25-28N-12W	SF-078904-A 2-1-48	USA	12.50	Pan American Pet. Corp.	—	Pan American Pet. Corp.	100.00	640.00	16.66667
<u>INDIAN LAND</u>										
44	ALL Sec 26-28N-13W	I-149-Ind- 8472	C/O Bureau of Indian Affairs	12.50	Southern Union Gas Co. Pan American Pet. Corp.	—	Southern Union Gas Co. Pan American Pet. Corp.	50.00 50.00	640.00	16.66667
		Type Of		Committed	Percent					
		Acreage		Ares	Participation					
		Federal		3200.00	83.33333					
		Indian		640.00	16.66667					
		Total		3840.00	100.00000					

In reply refer to:
Unit Division

February 16, 1960

Case # 247

C
O
P
Y

Pan American Petroleum Corporation
P. O. Box 437
Farmington, New Mexico

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

Re: Application for approval
Initial Participating Area
and First Enlargement, Dakota
Formation, Gallegos Canyon
Unit, San Juan County, New
Mexico

Gentlemen:

We are enclosing five copies of the heretofore designated application, which was approved by the Commissioner of Public Lands as of February 15, 1960.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/m
cc:

OCC- Santa Fe
USGS- Roswell

In reply refer to:
Unit Division

January 19, 1960

C
O
P
Y

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

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

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

Gentlemen:

We have received your 1960 Plan of Development for the Gallegos Canyon Unit. This Unit became effective in 1951 and as of the present date the state acreage remains undrilled even though some is participating in production.

We believe your 1960 Drilling Program should include drilling on some of the non drilled and non participating state acreage or the areas should be eliminated from this unit.

Gallegos Canyon's yearly programs have never given even tentative locations for wells, however we feel that surely some locations have been selected prior to submitting your 1960 Drilling Program.

Your Plan of Development for 1960 under History of Past Development, states two wells were included on your 1959 Plan of Development as Dakota tests, these wells were Nos 85 and 86, however, you failed to state the location of these wells and since this office had never received any well reports on these wells, we were obliged to call your Farmington office for location and well records.

Pan American Petroleum Corp.
Oil and Gas Building
Fort Worth, Texas

Page (2).
1-19-60

Will you please furnish us a more up to date map showing the location and type of wells. Our last map appears to be dated in 1956.

C Due to the nine years this unit has been in force and the fact that it does not contain a segregation clause, we believe a more detailed Plan of Development should be submitted for the 1960 calendar year.

O Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

P BY:
Ted Bilberry, Supervisor
Oil and Gas Division

P MEM/MMR/m
cc:

Mr. John Anderson
United States Geological Survey
Roswell, New Mexico

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

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

September 1, 1960

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

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

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

P Gentlemen:

P This is to advise that the New Mexico Oil Conservation Commission
has this date approved the 1960 Plan of Development for the Gallegos
Canyon Unit San Juan County, New Mexico, subject to like approval
by the United States Geological Survey and the Commissioner of Public
Lands of the State of New Mexico.

Y Two approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/ig

cc: Commissioner of Public Lands
Santa Fe, New Mexico
US Geological Survey
Roswell, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

FORT WORTH, TEXAS

J. L. HOYT, JR.
DIVISION PRODUCTION SUPERINTENDENT

December 28, 1959

File: GWK-5072-416

Subject: 1960 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

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, and designated I-Sec. No. 844, Pan American as Unit Operator, respectfully submits for your approval a Plan of Development for the calendar year 1960.

History of Past Development - There have been 84 wells drilled in the Gallegos Canyon Unit to date. Of these, 70 are Pictured Cliffs producers, 2 are Dakota-Gallup duals, 1 is a non-commercial Dakota well, 1 is a Fruitland completion, and 10 were dry holes. In addition, two wells were included on the 1959 Plan of Development as Dakota tests. These wells, Nos. 85 and 86, are now near completion and it is hoped that dual completions in the Dakota and Gallup formations will be obtained. Application has been made for a Dakota Participating Area; however, final approval has not yet been obtained. It appears that the Gallup will prove to be non-commercial in the existing completions, and production from that formation is being followed closely; however, no such determination has yet been requested.

Proposed Additional Wells - It is planned to drill at least two additional Dakota wells during 1960 at locations to be determined after the completion of wells No. 85 and 86. In addition, we are planning to re-work the V. W. McManus No. 1 (formerly Unit Well No. 8), a non-commercial Dakota well located in the SW/4 of Section 22, T-28-N, R-12-W.

We propose to drill no additional Pictured Cliffs wells during 1960 in view of the high risk presently involved in connection with further development of this zone.

December 28, 1959

Well Casing Program - 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.

Off-Set Obligations - Appropriate and adequate measures will be taken to prevent drainage of unitized substances from lands subject to the Gallegos Canyon Unit Agreement, or, pursuant to applicable regulations, fair and reasonable compensatory royalty will be paid as provided in Section 15 of 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, 1960. Before this plan expires, another plan for further development of the unit area will be submitted.

Modifications - 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, 1960.

Dated: December 28, 1959.

PAN AMERICAN PETROLEUM CORPORATION
Unit Operator

By: J. L. Hoyt

DRC:lj

File: GWK-5072-416

-3-

December 28, 1959

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

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

Approved A. L. Carter, Jr. Date 9-1-60
Oil Conservation Commission
State of New Mexico

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

Tom Bolack
1010 N. Dustin
Farmington, New Mexico

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

E. H. Colby
45 Woodstock
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
Oakland, California

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

Locke-Taylor Drilling Company
801 Second Avenue
Durango, Colorado

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

Pacific Northwest Pipeline Corp.
P. O. Box 1526
Salt Lake City 10, Utah
Attn: Mr. Donald L. Anderson

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

Petro-Atlas Corporation
First National Building
Tulsa 3, Oklahoma

John J. Redfern, Jr.
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

Southern Union Gas Company
Burt Building
Dallas, Texas

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

Summit Oil Company
Burt Building
Dallas, Texas

Nathan Kessler
5900 States Drive
Oakland, California

Texaco, Inc.
Box 3109
Midland, Texas

Texas Pacific Coal & 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

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

FORT WORTH, TEXAS

E. V. HEWITT

DIVISION PRODUCTION SUPERINTENDENT

January 15, 1960

File: GWK-32-416

Subject: Change of Address of
Unit Operator
Gallegos Canyon Unit,
San Juan County, New Mexico

SEE ADDRESSEE LIST ATTACHED

Gentlemen:

Pan American Petroleum Corporation as operator of the Gallegos Canyon Unit hereby requests that all future correspondence relating to the operation of this Unit be directed to:

Mr. L. O. Speer, Jr.
Pan American Petroleum Corporation
P. O. Box 487
Farmington, New Mexico

Your cooperation in this matter will be greatly appreciated.

Yours very truly,



DRC:md

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

Tom Bolack
1010 N. Dustin
Farmington, New Mexico

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

E. H. Colby
45 Woodstock
Crystal Lake, Illinois

B. H. and Dyvena Crawford
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New Mexico

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2003 Commonwealth Building
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801 Second Avenue
Durango, Colorado

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120 Arno NE
Albuquerque, New Mexico

Pacific Northwest Pipeline Corp.
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Salt Lake City 10, Utah
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1101 Wilco Building
Midland, Texas
Attn: Mr. V. M. Williams

Summit Oil Company
Burt Building
Dallas, Texas

Nathan Kessler
5900 States Drive
Oakland, California

cc: Oil and Gas Supervisor (6)
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

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

Oil Conservation Commission (3)
State of New Mexico
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