

**El Paso** NATURAL GAS  
COMPANY

10 27 1977  
P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-543 2600

October 27, 1977

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico 87501

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

Re: Huerfano Unit, I Sec. No. 731,  
San Juan County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FORTY-SEVENTH REVISION OF THE  
PARTICIPATING AREA FOR THE  
DAKOTA FORMATION,  
Effective August 1, 1977

195  
557  
87501

Gentlemen:

El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit Agreement, approved by the Director of the United States Geological Survey on June 6, 1950, by the Commissioner of Public Lands of the State of New Mexico on September 26, 1949, and by the Oil Conservation Commission of the State of New Mexico on September 20, 1949, pursuant to the provisions of Section 10 thereof, respectfully submits for your approval the following lands to constitute the Forty-Seventh Revision of the Participating Area for the Dakota Formation, to wit:

Forty-Seventh Revision - Effective August 1, 1977

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 25 North, Range 9 West, N.M.P.M.</u> Section 5: E/2	321.05

This proposed Forty-Seventh Expansion of the Participating Area for the Dakota Formation is predicated upon the knowledge and information first obtained upon the completion in paying quantities of the Huerfano Unit #281 Well.

The Huerfano Unit #281 Well, located 1590' from the South line and 1495' from the East line of Section 5, Township 25 North, Range 9 West, N.M.P.M., was spudded on April 29, 1977, and completed on July 22, 1977, at a total depth of 6874'. The Dakota Formation at the intervals of 6653', 6656', 6678', 6729', 6732', 6734', 6748', 6765', and 6768' was treated with a sand-water fracturing process on July 13, 1977. The well was shut-in on July 15, 1977, and after being shut-in for seven (7) days, the Dakota Formation was tested on July 22, 1977, using the Pitot tube method with an after frac guage of 646 MCF/D, with an SIPC of 1996 psia and an SIPT of 1364 psia. The spacing unit for this well is described as the E/2 of Section 5, Township 25 North, Range 9 West, N.M.P.M., containing 321.05 acres.

In support of this application the following Exhibits are made a part hereof.

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Forty-Seventh Expansion of the Dakota Participating Area.

EXHIBIT "B"

Geological Report concerning the Forty-Seventh Expansion of the Dakota Formation in the Huerfano Unit.

EXHIBIT "C"

Huerfano Unit Structure Map contoured on the top of the Dakota Formation.

EXHIBIT "D"

Schedule of Dakota oil and gas productin.

Attached to this application is Schedule XLIX showing the lands entitled to participation in the unitized substances produced from the Dakota Formation with the percentage of participation of each lease or tract indicated thereon.

Regional Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Three

If the hereinabove selection of lands to constitute the Forty-Seventh Revision of the Dakota Participating Area meets with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

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

Yours very truly,



James R. Permenter  
Manager, Land Contracts & Titles  
Land Department  
Energy Resource Development

JRP:DM:is

Attachments

Huerfano Unit, 4.3

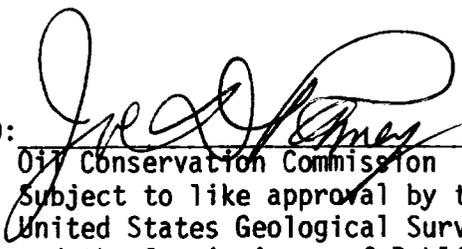
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

Regional Oil & Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

APPROVED: \_\_\_\_\_

  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: 11/29/77

The foregoing approvals are for the Forty-Seventh Revision of the Participating Area for the Dakota Formation, effective August 1, 1977, under the Huerfano Unit, I Sec. No. 731, San Juan County, New Mexico.

HUERFANO UNIT  
Working Interest Owners

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

Consolidated Oil & Gas, Inc.

Continental Oil Company

Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,  
Trustee U/W of A. T. Hannett, Deceased,  
and U/A dated July 15, 1969 of  
Louise Westfall Hannett

Mr. and Mrs. Forrest Gelbke

Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT  
Working Interest Owners - Page Two

Alfred Gross, Trustee

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

Clarence E. Hinkle and  
Edna I. Hall, Trustees

Clarence E. Hinkle and  
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and  
as Executrix of the Estate of Frank  
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

La Plata Gathering System, Inc.

Everett F. Layman & Arthur J. Lempert

O. J. Lilly

Matagorda Oil Company

K. E. McAfee

William H. McCartney

Barbara Irene McConnell

J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT  
Working Interest Owners - Page Three

N-M Oil & Gas Venture

Northwest Pipeline Corporation

Pearl O. Pipkin

Laina Mabel Saari

Gladys Sketch

J. C. Smith

Sunland Refining Corporation

Sunshine Royalty Company

Tenneco Oil Company

Texas Pacific Oil Company, Inc.

Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum  
Denver, Colorado

Union Texas Petroleum  
Houston, Texas

David William Walters

Dr. Sherman Wengerd

**El Paso** NATURAL GAS  
COMPANY



P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

April 12, 1977

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Huerfano Unit  
San Juan County, New Mexico  
1977 DRILLING PROGRAM

Gentlemen:

The 1977 Drilling Program for the referenced unit was approved by the regulatory bodies on the following dates:

United States Geological Survey	April 4, 1977
Commissioner of Public Lands	April 6, 1977
Oil Conservation Commission	March 30, 1977

Copies of this letter are being sent to the working interest owners of the referenced unit.

Very truly yours,

Derold Maney  
Landman  
Land Department  
Energy Resource Development

DM:sas  
Huerfano Unit 3.0



# United States Department of the Interior

GEOLOGICAL SURVEY  
Conservation Division  
Western Bank Building  
505 Marquette, NW, Room 815  
Albuquerque, New Mexico 87102

APR 04 1977

El Paso Natural Gas Company  
Attention: Mr. D. N. Canfield  
P. O. Box 1492  
El Paso, Texas 79978

Gentlemen:

Three approved copies of your 1977 plan of development for the Huerfano unit area, San Juan County, New Mexico, proposing the drilling of one Dakota well outside the existing participating area, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SIGNED) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

## Enclosures

cc:  
NMOCC, Santa Fe (ltr. only) ← This Copy for  
Com. Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

195

March 30, 1977

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

Attention: Mr. D. N. Canfield

Re: 1977 Drilling Program  
Huerfano Unit, San Juan  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1977 providing for the drilling of a Dakota well for the Huerfano 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.

One approved copy of the program is returned herewith.

Very truly yours,

JOE D. RAMEY  
Secretary-Director

JDR/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

U. S. Geological Survey  
Roswell, New Mexico

C  
O  
P  
Y

February 25, 1977

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico 87501

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

Re: Huerfano Unit, I Sec. No. 731  
San Juan County, New Mexico  
1977 DRILLING PROGRAM

Gentlemen:

By letter dated January 2, 1976, El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit filed a Drilling Program covering the subject Unit for the calendar year 1976. This Program provided for the drilling of no wells and none were drilled.

As of this date, the total number of wells in the Huerfano Unit is as follows:

Pictured Cliffs, Commercial	50
Pictured Cliffs, Non-commercial	2
Pictured Cliffs, Plugged and Abandoned	33
Gallup, Commercial	17
Gallup, Commercial, Plugged back from Dakota	1
Gallup, Non-commercial	6
Dakota, Commercial	115
Dakota, Non-commercial	6
Dakota, Plugged and Abandoned	7
Dakota, Temporarily Abandoned	2

Regional Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

Gallup/Dakota, Commercial	11
Gallup/Dakota, Commercial in Gallup only	1
Gallup/Dakota, Commercial in Dakota only	3
Greenhorn, Non-commercial, Plugged back from Dakota	1
Gallup/Dakota, (Gallup - Non-commercial) plugged back from Pennsylvania	1
	<u>1</u>
	256

Pursuant to Section 9 of the Huerfano Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following well during the calendar year 1977.

<u>Well No.</u>	<u>Spacing Unit</u>	<u>Formation</u>
281	E/2 Section 5, T-25-N, R-9-W	Dakota

All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 9 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Yours very truly,



D. N. Canfield  
Director of Land  
Energy Resource Development

DNC/DW/mb

Attachments

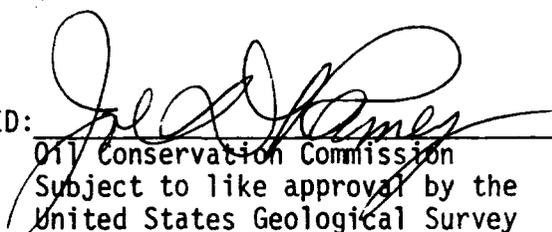
HU, 3.0

APPROVED: \_\_\_\_\_  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED:  \_\_\_\_\_  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: March 30, 1977

The foregoing approvals are for the 1977 Drilling Program for the Huerfano Unit, I Sec. No. 731, San Juan County, New Mexico.

HUERFANO UNIT  
Working Interest Owners

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

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First National Bank in Albuquerque,  
Trustee U/W of A. T. Hannett, Deceased,  
and U/A dated July 15, 1969 of  
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Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT  
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

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Edna I. Hall, Trustees

Clarence E. Hinkle and  
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and  
as Executrix of the Estate of Frank  
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

La Plata Gathering System, Inc.

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O. J. Lilly

Matagorda Oil Company

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HUERFANO UNIT  
Working Interest Owners - Page Three

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Tenneco Oil Company

Texas Pacific Oil Company, Inc.

Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum  
Denver, Colorado

Union Texas Petroleum  
Houston, Texas

David W. Walters, Executor for the  
Estate of Frances Walters, Deceased

Dr. Sherman Wengerd



United States Department of the Interior

GEOLOGICAL SURVEY  
Western Bank Bldg., Room 815  
505 Marquette, NM  
Albuquerque, New Mexico 87102

December 29, 1976

El Paso Natural Gas Company  
Attention: Mr. Don Wadsworth  
P. O. Box 1492  
El Paso, Texas 79978

Gentlemen:

Your 1976 Plan of Development and Operation for the Huerfano unit area, San Juan County, New Mexico, was received in this office on January 7, 1976. Such plan provided no additional development during the year. Our letter of May 28, 1976, requested justification for no additional development and several joint conversations and conferences followed during the balance of the year with no definitive conclusion.

Authority for continuation of operations within the unitized area is derived from an approved Plan of Development and Operations, pursuant to Section 10 of the unit agreement. Accordingly, this office hereby accepts your 1976 Plan for record purposes. As stated previously, the plan is considered less than adequate inasmuch as there appears to be one or more participating areas which are not fully developed within the unitized area and no tangible justification is provided for the absence of additional development drilling in those areas.

You are requested to submit a 1977 Plan of Development and Operation for the Huerfano unit within 60 days of the receipt of this letter. Such plan, in order to receive favorable consideration by this office, must contain a firm commitment for additional development drilling absent tangible documentation of full development of the unitized area.

Sincerely yours,

Orig. Signed - JAMES W. SUTHERLAND

JAMES W. SUTHERLAND  
Area Oil and Gas Supervisor

cc: Farmington (w/ ~~the~~ plan) *This Copy for*  
NMOCC, Santa Fe  
Com. Pub. Lands, Santa Fe

JAGILLHAM:lm:122976

October 21, 1976

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

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

RE: Huerfano Unit, I Sec. No. 731  
San Juan County, New Mexico, NOTICE  
OF COMPLETION OF NON-COMMERCIAL WELL  
Gallup Formation

Gentlemen:

El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit Agreement, approved by the Director of the United States Geological Survey on June 6, 1950, by the Commissioner of Public Lands of the State of New Mexico on September 26, 1949, and by the Oil Conservation Commission of the State of New Mexico on September 20, 1949, pursuant to the provisions of Section 10 thereof, has determined that the following-described well is not capable of producing unitized substances in paying quantities from the Gallup Formation:

The Huerfano Unit #265 well, located 800' from the North Line and 1150' from the West Line of Section 12, Township 26 North, Range 10 West, N.M.P.M., was spudded on July 7, 1975 and completed on January 27, 1976, in the Gallup Formation at a total depth of 7095'. The Gallup Formation at the intervals 5916', 5927', 5958', 6032', 6046', 6096', 6112', 6182', 6189', and 6220' was treated with a sand-water fracturing process on December 20, 1975. The well was shut-in on December 29, 1975, and after being shut-in for twenty-nine (29) days the well was tested on January 27, 1976, and following a three (3) hour blow-down period, the Gallup Formation gauged 71.49 MCF/D through a 3/4" choke and 84 MCF/D by the calculated absolute open-flow method, with an SIPC of 479 psia and an SIPT of 479 psia. The spacing unit for this

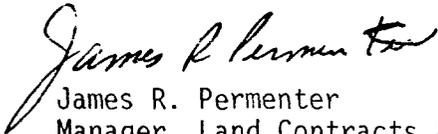
Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

well is described as the N/2 of Section 12, Township 26  
North, Range 10 West, containing 320.00 acres.

Inasmuch as this determination needs no approval, none is provided  
therefore.

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

Yours very truly,



James R. Permenter  
Manager, Land Contracts & Titles  
Land Department  
Energy Resource Development

JRP:DW:nm  
Enclosures  
HU 4.4, 4.4.1

cc: Mr. Antonio Martinez

HUERFANO UNIT  
Working Interest Owners

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

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Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,  
Trustee U/W of A. T. Hannett, Deceased,  
and U/A dated July 15, 1969 of  
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Mr. and Mrs. Forrest Gelbke

Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT  
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

Clarence E. Hinkle and  
Edna I. Hall, Trustees

Clarence E. Hinkle and  
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and  
as Executrix of the Estate of Frank  
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

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Everett F. Layman & Arthur J. Lempert

O. J. Lilly

Matagorda Oil Company

K. E. McAfee

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J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT  
Working Interest Owners - Page Three

N-M Oil & Gas Venture

Northwest Pipeline Corporation

Pearl O. Pipkin

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J. C. Smith

Sunland Refining Corporation

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Tenneco Oil Company

Texas Pacific Oil Company, Inc.

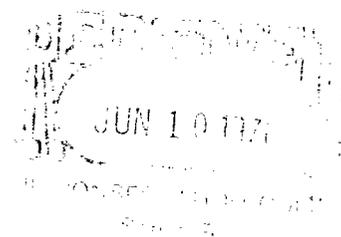
Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum  
Denver, Colorado

Union Texas Petroleum  
Houston, Texas

David W. Walters, Executor for the  
Estate of Frances Walters, Deceased

Dr. Sherman Wengerd



Glen W. Swire  
418 South Church  
Aztec, New Mexico 87410

June 8, 1976

Gulf Oil Corporation  
P. O. Drawer 2100  
Houston, Texas 77001  
Attn: Mr. C. F. Mumford  
Mr. H. L. Skeans

Re: Owner No. 0549187003  
Property No. 6690000000  
6690700000

Gentlemen:

Reference is made to your letter of July 9, 1975, regarding Huerfano Unit, Tracts 142 and 142-A, San Juan County, New Mexico, D/O 22750-00. Since Gulf Oil Company acquired an interest in this lease we have received checks showing production in February, 1975, for 6690700000 and production in June, 1975 for 6690000000 and none reported since then.

Please advise if production from these wells has ceased. If not, please advise as to why timely payments have not been received.

Yours truly,

GLEN W. SWIRE

cc: H. L. Kendrick  
El Paso Natural Gas Co.  
Box 1492  
El Paso, Texas 79978

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico 87503

March 18, 1976

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Huerfano Unit, 19th Revision  
Gallup Participating Area  
Effective December 1, 1974  
San Juan County, New Mexico

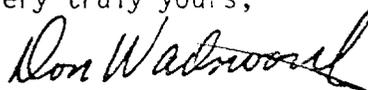
Gentlemen:

The referenced expansion of the Huerfano Unit, Gallup Participating Area, was approved by the Regulatory Agencies on the following dates:

United States Geological Survey	March 11, 1976
Commissioner of Public Lands	February 6, 1976
Oil Conservation Commission	February 12, 1976

Copies of this notice are being sent to the working interest owners of the Huerfano Unit.

Very truly yours,



Don Wadsworth  
Landman  
Land Department  
Energy Resource Development

DW:sas  
Huerfano, 5.0



United States Department of the Interior

GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

March 11, 1976 / 15

El Paso Natural Gas Company  
Attention: Mr. James R. Permenter  
P. O. Box 1492  
El Paso, Texas 79978

Gentlemen:

Your application of February 3, 1976, with supplemental letter of February 4, 1976, requested approval of the nineteenth revision of the Gallup participating area for the Huerfano unit agreement, San Juan County, New Mexico. I-Sec. No. 731 was approved on March 11, 1976, by the Acting Area Oil and Gas Supervisor, U.S. Geological Survey, effective as of December 1, 1974.

The nineteenth revision adds 300.20 acres described as lots 1, 2, 3, and 4  $W\frac{1}{2}$  of the  $E\frac{1}{2}$  ( $E\frac{1}{2}$ ) sec. 36, T. 27N., R. 10W., N.M.P.M., which enlarges the Gallup participating area to 10,418.63 acres.

The nineteenth revision is based on information obtained by the completion and production data of unit well No. 258 located in the  $SE\frac{1}{4}$   $SE\frac{1}{4}$  of sec. 36, T. 27N., R. 10W. Unit well No. 258 was completed in the Gallup interval 5,734 to 6,090 feet on November 29, 1974. Eleven months of operation has produced 23,936 MCF of gas and 906 barrels of oil.

Copies of the approved application are being distributed to the appropriate Federal offices and three approved copies are returned herewith. You are requested to furnish all parties with appropriate evidence of this approval.

Sincerely yours,

ORIG. SEC. CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

see next page for carbon copies

cc:

Famington (w/ cy applcn.)

BLM, Santa Fe (ltr. only)

NMOCC, Santa Fe (ltr. only) ←

Com. of Pub. Lands, Santa Fe (ltr. only)

RDLindau:dap



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

February 17, 1976

El Paso Natural Gas Company  
Attention: Mr. James R. Permenter  
P.O. Box 1492  
El Paso, Texas 79978

Gentlemen:

Your notice of September 12, 1975, advises that as operator of the Huertano unit, San Juan County, New Mexico, you have determined that unit well No. 199 in the SW $\frac{1}{4}$  sec. 17, T. 25N., R. 9W., N.M.P.M., lease Santa Fe 079231, is not capable of producing unitized substances in paying quantities from the Greenhorn formation.

Well No. 199 was tested on December 30, 1974, for a calculated absolute open flow potential of 181 MCF cubic feet of gas per day from the Greenhorn interval 6,368 to 6,414 feet.

This office concurs with your determination that said well is not capable of producing unitized substances in paying quantities under existing conditions. One surplus copy of your notice is returned herewith.

Sincerely yours,

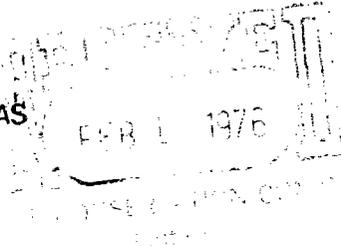
(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
Farmington (w/cy notice)  
Com. Pub. Lands, Santa Fe (1tr. only)  
NMOCC, Santa Fe (1tr. only) ← This Copy for  
BLM, Santa Fe (1tr. only)  
Accounts

RDLindau:dap

**El Paso** NATURAL GAS  
COMPANY



P. O. BOX 1432  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

February 17, 1976

Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

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

Re: Huerfano Unit, I Sec. No. 731  
San Juan County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 10 of the Huerfano Unit Agreement, I Sec. No. 731, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in commercial quantities has been completed upon acreage committed to the Unit. This well is as follows:

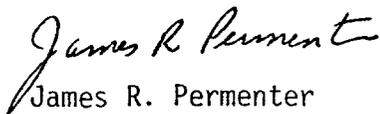
The Huerfano Unit #265 well, located 800' from the North line and 1150' from the West line of Section 12, T-26-N, R-10-W, was spudded on July 7, 1975 and completed on January 19, 1976 in the Dakota Formation at a total depth of 7095'. The Dakota Formation at the intervals 6810', 6824, 6868', 6876', 6882', and 6887', was treated with a sand-water fracturing process on December 19, 1975. The well was shut-in on December 29, 1975 and after being shut-in for gauge for twenty-two (22) days, the well was tested on January 19, 1976 and following a three-hour blow-down period the Dakota Formation gauged 1032 MCF/D through a 3/4" choke and 1128 MCF/D by the absolute open-flow method, with an SIPT of 575 psia. The spacing unit for this well is described as the W/2 of Section 12, T-26-N, R-10-W, containing 320.00 acres.

Regional Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

The above-described spacing unit was included in the Huerfano Unit First and Ninth Expanded Participating Areas of the Dakota Formation effective September 1, 1958 and December 1, 1960, respectively, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



James R. Permenter  
Manager, Land Contracts & Titles  
Land Department  
Energy Resource Development

JRP:DW:nm  
Huerfano Unit 4.3.1

cc: Mr. Antonio Martinez

HUERFANO UNIT  
Working Interest Owners

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

Consolidated Oil & Gas, Inc.

Continental Oil Company

Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,  
Trustee U/W of A. T. Hannett, Deceased,  
and U/A dated July 15, 1969 of  
Louise Westfall Hannett

Mr. and Mrs. Forrest Gelbke

Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT  
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

Clarence E. Hinkle and  
Edna I. Hall, Trustees

Clarence E. Hinkle and  
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and  
as Executrix of the Estate of Frank  
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

La Plata Gathering System, Inc.

Everett F. Layman & Arthur J. Lempert

O. J. Lilly

Matagorda Oil Company

K. E. McAfee

William H. McCartney

Barbara Irene McConnell

J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT  
Working Interest Owners - Page Three

N-M Oil & Gas Venture

Northwest Pipeline Corporation

Pearl O. Pipkin

Laina Mabel Saari

Gladys Sketch

J. C. Smith

Sunland Refining Corporation

Sunshine Royalty Company

Tenneco Oil Company

Texas Pacific Oil Company, Inc.

Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum  
Denver, Colorado

Union Texas Petroleum  
Houston, Texas

David W. Walters, Executor for the  
Estate of Frances Walters, Deceased

Dr. Sherman Wengerd

**El Paso** NATURAL GAS  
COMPANY

P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

February 4, 1976

Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

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

Re: Huerfano Unit Nineteenth  
Gallup Expansion, Effective  
December 1, 1974

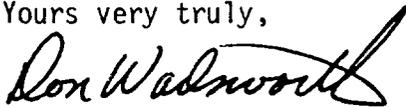
Gentlemen:

By letter dated February 3, 1976, we submitted for your approval and application for the referenced Nineteenth Expansion of the Huerfano Gallup Formation. In that letter the acreage being brought into the unit participating area was described as the E/2 of Section 36, T-27-N, R-10-W, San Juan County, New Mexico, containing 320.00 acres. Please correct the acreage figure shown on the application to read as follows:

Lots 1, 2, 3, and 4  
W/2 of the E/2 (E/2)  
containing 300.20 acres

The schedule attached to the application correctly shows the acreage and description.

Yours very truly,



Don Wadsworth  
Landman  
Land Department  
Energy Resource Development

DW:nm  
HU 4.4

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 12, 1976

*Jim*

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978

Attention: Mr. James R. Permenter

Re: Nineteenth Revision, Gallup  
Participating Area, Huerfano  
Unit, San Juan County,  
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation has this date approved the Nineteenth Revision of the Participating Area for the Gallup Formation for the Huerfano Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey, Roswell, New Mexico, and two approved copies are being returned to the Commissioner of Public Lands, Santa Fe, New Mexico.

Very truly yours,

JOE D. RAMEY  
Secretary-Director

JDR/JEK/og

cc: United States Geological Survey  
Box 1857  
Roswell, New Mexico  
Commissioner of Public Lands  
Santa Fe, New Mexico

State of New Mexico

TELEPHONE  
505-827-2748



PHIL R. LUCERO  
COMMISSIONER



Commissioner of Public Lands

February 6, 1976

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

RECEIVED

FEB 6 - 1976

OIL CONSERVATION COMMISSION

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Huerfano Unit  
San Juan County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
NINETEENTH REVISION OF THE PARTI-  
CIPATING AREA FOR THE GALLUP  
FORMATION, Effective December 1, 1974

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Nineteenth Revision of the Participating Area for the Gallup Formation, for the Huerfano Unit San Juan County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing eight (8) copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their consideration. Two (2) copies to be returned to the Commissioner of Public Lands and one (1) copy should be retained by the Oil Conservation Commission. After this application has been approved by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

FRL/RDG/s

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

**El Paso** NATURAL GAS  
COMPANY

RECEIVED  
FEB 5 8 57 AM '76

P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

February 3, 1976

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

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

Re: Huerfano Unit, I Sec. No. 731,  
San Juan County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
NINETEENTH REVISION OF THE PARTI-  
CIPATING AREA FOR THE GALLUP  
FORMATION, Effective December 1,  
1974

Gentlemen:

El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit Agreement, approved by the Director of the United States Geological Survey on June 6, 1950, by the Commissioner of Public Lands of the State of New Mexico on September 26, 1949, and by the Oil Conservation Commission of the State of New Mexico on September 20, 1949, pursuant to the provisions of Section 10 of the Huerfano Unit Agreement, El Paso Natural Gas Company respectfully submits for your approval the following selection of lands to constitute the Nineteenth Revision of the Participating Area for the Gallup Formation to wit:

Nineteenth Revision - Effective December 1, 1974

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 10 West, N.M.P.M.</u> Section 36: E/2	320.00

This proposed Nineteenth Expansion of the Participating Area for the Gallup Formation is predicated upon the knowledge and information first obtained upon the completion in paying quantities of the following Huerfano Unit well:

The Huerfano Unit #258 Well, located 990' from the South Line and 990' from the East Line of Section 36, Township 27 North, Range 10 West, N.M.P.M., was spudded on March 26, 1974, and completed on November 29, 1974 in the Gallup Formation at a total depth of 6150'. The Gallup Formation at the intervals 5734', 5822', 5926', 5988', 6010', 6048', 6086', and 6090' was treated with a sand-water fracturing process on July 16, 1974. The well was shut-in on July 18, 1974 and after being shut-in for one hundred sixty-seven (167) days the well was tested on November 29, 1974 and following a three (3) hour blow-down period, the Gallup Formation gauged 411 MCF/D through a 3/4" choke and 428 MCF/D by the calculated absolute open-flow method, with an SIPC of 764 psia and an SIPT of 257 psia. The spacing unit for this well is described as the E/2 of Section 36, Township 27 North, Range 10 West, containing 320.00 acres.

In support of this application, the following Exhibits are made a part hereof.

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Nineteenth Expansion of the Gallup Participating Area.

EXHIBIT "B"

Geological Report concerning the Nineteenth Expansion of the Gallup Formation in the Huerfano Unit.

EXHIBIT "C"

Huerfano Unit Structure Map contoured on the top of the Gallup Formation.

EXHIBIT "D"

Schedule of Gallup oil and gas production.

Attached to this application is Schedule XX showing the lands entitled to participation in the unitized substances produced from the Gallup Formation with the percentage of participation of each lease or tract indicated thereon.

Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Three

If the hereinabove selection of lands to constitute the Nineteenth Revision of the Gallup Participating Area meets with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

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

Yours very truly,



James R. Permenter  
Manager, Land Contracts & Titles  
Land Department  
Energy Resource Development

JRP:DW:nm  
Attachment  
Huerfano Unit, 4.4

cc: Mr. Antonio Martinez

APPROVED: \_\_\_\_\_  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED: Phil S. Jones  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

DATE: February 6, 1976

APPROVED: J. D. [Signature]  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: February 12, 1976

The Foregoing approvals are for the Nineteenth Revision of the Participating Area for the Gallup Formation, effective December 1, 1974, under the Huerfano Unit, I Sec. No. 731, San Juan County, New Mexico.

HUERFANO UNIT  
Working Interest Owners

Amoco Production Company (3)  
Denver, Colorado

Amoco Production Company  
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

Consolidated Oil & Gas, Inc.

Continental Oil Company

Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,  
Trustee U/W of A. T. Hannett, Deceased,  
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Mrs. Charline K. Greer

HUERFANO UNIT  
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

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Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

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Edna I. Hall, Trustees

Clarence E. Hinkle and  
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

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Elma R. Jones

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as Executrix of the Estate of Frank  
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Mrs. Frances Langmore Kerrigan

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J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT  
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Northwest Pipeline Corporation

Pearl O. Pipkin

Laina Mabel Saari

Gladys Sketch

J. C. Smith

Sunland Refining Corporation

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Tenneco Oil Company

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Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum  
Denver, Colorado

Union Texas Petroleum  
Houston, Texas

David W. Walters, Executor for the  
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Dr. Sherman Wengerd