

SEP 17 1975

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

September 12, 1975

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

Re: Huerfano Unit, I Sec. No. 731
San Juan County, New Mexico
NOTICE OF COMPLETION OF NON-
COMMERCIAL WELL in the Greenhorn
Formation

Dear Sir:

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 hereof, has determined that the following-described well is not capable of producing unitized substances in paying quantities from the Greenhorn Formation:

The Huerfano Unit #199 Well, located 1750' from the South line and 990' from the West line of Section 17, T-25-N, R-9-W, was spudded on September 2, 1969, and completed on October 2, 1969 in the Dakota Formation as a non-commercial Dakota well. On December 19, 1974 the Dakota Formation was squeezed off with 59 cu. ft. cement and recompleted in the Greenhorn Formation on December 30, 1974 at a depth of 6283'. The Greenhorn Formation at the intervals 6368', 6370', 6388', 6392', 6412', and 6414' was treated with a sand-water fracturing process on December 20, 1974. The well was shut-in on December 21, 1974 and after being shut-in for gauge for nine (9) days, the well was tested on December 30, 1974, and following a three (3) hour blow-down period the Greenhorn Formation gauged 181 MCF/D through a 3/4" choke, and 181 MCF/D by the calculated absolute open-flow method with an SIPT of 1306 psia and 29.88BBLS of 40 API gravity oil. The spacing unit for this well is described as the NW/4 SW/4 of Section 17, T-25-N, R-9-W, containing 40.00 acres.

Regional Oil & Gas Supervisor
September 11, 1975
Page Two

If this determination 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 Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico, and 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
Huerfano 4.5.1

cc: 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

Mr. Antonio Martinez
Executive Director
New Mexico Oil & Gas Accounting Commission
P. O. Box 2308
Santa Fe, New Mexico 87501

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

El Paso, Texas 79978

July 24, 1975

Regional Oil and 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, 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 #257 well, located 1840' from the North Line and 1840' from the West Line of Section 36, Township 27 North, Range 10 West, N.M.P.M., was spudded on April 7, 1974, and completed on September 18, 1974 in the Gallup Formation at a total depth of 6183'. The Gallup Formation at the intervals 5844', 5866', 5948', 6008', 6026', 6048', 6076', 6104', and 6106' was treated with a sand-water fracturing process on July 20, 1974. The well was shut-in on September 5, 1974, and after being shut-in for thirteen (13) days the well was tested on September 18, 1974, and following a three (3) hour blow-down period, the Gallup Formation gauged 274 MCF through a 3/4" choke and 303 MCF by the calculated absolute open-flow method, with an SIPC of 627 psia and an SIPT of 452 psia. The spacing unit for this well is described as the W/2 of Section 36, Township 27 North, Range 10 West, containing 320.00 acres.

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

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
Huerfano Unit 4.4, 4.4.1

cc: Mr. Antonio Martinez
Executive Director
New Mexico Oil & Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 87501

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

July 17, 1975

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

Attention: Mr. D. N. Canfield

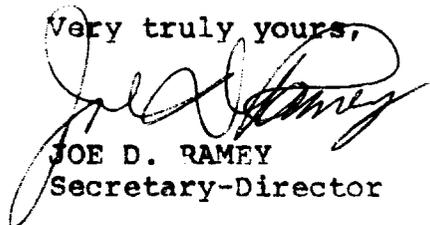
Re: 1975 Supplemental Drilling Program
Huerfano Unit, San Juan County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the supplement to the 1975 Drilling Program providing for the drilling of a Pre-Cambrian-Pennsylvania 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 supplemental program is returned herewith.

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

El Paso Natural Gas Company

El Paso, Texas 79975

June 19, 1975

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
1975 SUPPLEMENTAL DRILLING PROGRAM

Gentlemen:

By letter dated December 19, 1974, El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit, filed a Drilling Program covering the captioned unit for the calendar year 1975. This program provided for the drilling of twelve (12) Dakota wells.

Pursuant to Section 9 of the Huerfano Unit Agreement, El Paso Natural Gas Company, as Unit Operator, desires to supplement the 1975 Drilling Program to provide for the drilling of the following-described well during 1975:

<u>Well No.</u>	<u>Spacing Unit</u>	<u>Formation</u>
265	W/2 Sec. 12, T-26-N, R-10-W	Pre-Cambrian-Pennsylvania

This well, if commercial, will cause the initial Pennsylvania Participating Area.

In addition to the above well, El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

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

All of the working interest owners have been contacted and this Supplemental Drilling Program reflects the desires of a majority of the working interest owners.

If this Supplemental 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,

A handwritten signature in black ink, appearing to read "D. N. Canfield". The signature is written in a cursive style with a large, sweeping initial "D".

D. N. Canfield
Director of Land
Energy Resource Development

DNC.DW:km
Attachments
Huerfano Unit, 3.0

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:  _____ DATE: July 17, 1975
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey and
the Commissioner of Public Lands

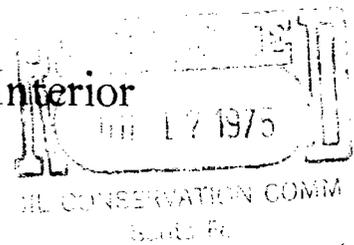
The foregoing approvals are for the 1975 Supplemental Drilling Program
for the Huerfano Unit, I Sec. No. 731, San Juan County, New Mexico.



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



June 30, 1975

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

Gentlemen:

One approved copy of your 1975 supplemental plan of development for the Huerfano unit area, San Juan County, New Mexico, is enclosed.

Such plan, proposing the drilling of one Pre-Cambrian-Pennsylvania well was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

- ✓ NMOCC, Santa Fe (ltr only)
- Com. Pub. Lands, Santa Fe (ltr only)
- Farmington (w/cy plan)

JAGillham:ds



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

April 30, 1975

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

Attention: James R. Permenter

Gentlemen:

Your application dated December 26, 1974, states that El Paso Natural Gas Company, as operator of the Huerfano unit area, has determined that unit well No. 259 located in the NW $\frac{1}{4}$ sec. 6, T. 26 N., R. 10 W., N.M.P.M., is capable of producing unitized substances in paying quantities from the Dakota formation.

The following information, for the above well, is needed to supplement the information contained in your application:

1. An estimate of the recoverable reserves from the Dakota formation.
2. The reserve data from which reservoir calculations were made; including gas gravity, pay thickness, porosity, water saturation, bottomhole pressures and temperatures, drainage area, abandonment pressure, and monthly gas, condensate, and water production.
3. The economies involved; including well costs, monthly operating expense, and estimated life of well.

Upon receipt of the above requested information, your application will be given prompt consideration.

Sincerely yours,

[ORIG. SGD.] CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Farmington
Commissioner of Public Lands, Santa Fe
NMOCC, Santa Fe ✓

DMaldonado/hr

El Paso Natural Gas Company

El Paso, Texas

March 21, 1975

Regional Oil & Gas Supervision
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: 1975 Drilling Programs

Gentlemen:

The 1975 Drilling Programs for the listed units were approved by the regulatory bodies on the dates indicated.

APPROVAL

<u>Unit</u>	<u>USGS</u>	<u>CPL</u>	<u>OCC</u>
San Juan 27-4	12-2-74	N/A	12-5-74
San Juan 28-4	12-2-74	N/A	12-5-74
San Juan 29-4	12-18-74	N/A	12-4-74
San Juan 29-7	1-6-75	12-3-74	12-5-74
San Juan 30-6	1-6-75	12-3-74	12-5-74
San Juan 32-5	1-6-75	11-1-74	12-5-74
Huerfanito	1-6-75	11-12-74	12-5-74
✓ Huerfano	1-15-75	12-27-74	1-8-75
Lindrith	12-18-74	11-18-74	12-5-74
Rincon	1-6-75	12-3-74	12-5-74

COPY

El Paso Natural Gas Company 11

El Paso, Texas 79978

February 24, 1975

Regional Oil and 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

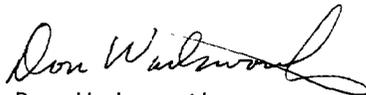
RE: Huerfano Unit
Revised Thirteenth, Revised Fourteenth,
Fifteenth and Sixteenth Revisions
Gallup Participating Area
Effective August 1, 1973, September 1,
1973, October 1, 1973 and January 1,
1974 respectively
San Juan County, New Mexico

Gentlemen:

By letter dated February 10, 1975 we notified you of the approval by the Regulatory Agencies of the referenced Gallup expansions, but our letter stated the approvals were for Dakota Expansions. Please correct your records accordingly.

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

Yours very truly,



Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:dm

Huerfano Unit, 5.0

El Paso Natural Gas Company

El Paso, Texas 79978

February 10, 1975

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 3148
Santa Fe, New Mexico 87501

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

RE: Huerfano Unit
Revised Thirteenth, Revised Fourteenth,
Fifteenth and Sixteenth Revisions
Dakota Participating Area
Effective August 1, 1973, September 1,
1973, October 1, 1973 and January 1,
1974 respectively
San Juan County, New Mexico

Gentlemen:

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

United States Geological Survey	February 7, 1975
Commissioner of Public Lands	January 7, 1975
Oil Conservation Commission	January 8, 1975

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

Yours very truly,



Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:dm

Huerfano Unit, 5.0



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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

February 7, 1975

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

Gentlemen:

Your application of December 26, 1974, requesting approval of the revised thirteenth, revised fourteenth, fifteenth and sixteenth revisions of the Gallup participating area for the Huerfano unit agreement, San Juan County, New Mexico, I-Sec. No. 731, was approved February 7, 1975, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of August 1, 1973, September 1, 1973, October 1, 1973, and January 1, 1974, respectively.

The revised thirteenth revision adds 961.82 acres described on page two of your application, which enlarges the Gallup participating area to 8,510.23 acres. Such revision is based on the completion of the following three listed wells as paying wells pursuant to the terms of the unit agreement.

<u>Well No.</u>	<u>Location</u>	<u>Gallup Interval</u>	<u>Completion Date</u>	<u>CAOF MCF</u>
233	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5 T. 26 N., R. 9 W.	5,710-6,010	7-13-73	429
241	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13 T. 26 N., R. 10 W.	5,628-6,012	7- 3-73	1,434
242	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12 T. 26 N., R. 10 W.	5,682-6,070	7- 3-73	245

The revised fourteenth revision adds 320.00 acres described as the W $\frac{1}{2}$ sec. 23, T. 26 N., R. 9 W., N.M.P.M., which enlarges the Gallup participating area to 8,830.23 acres and is based on the completion of unit well No. 240 located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of said sec. 23, as a paying well under the terms of the unit agreement. Such well was completed August 1, 1973, for a calculated open flow potential of 748 MCF of gas per day from the Gallup interval 5,586 to 5,872 feet.

The fifteenth revision adds 320.00 acres described as the W $\frac{1}{2}$ sec. 17, T. 26 N., R. 9 W., N.M.P.M., which enlarges the Gallup participating area to 9,150.23 acres. Such revision is based on the completion of unit well No. 237 in the NE $\frac{1}{4}$ of said sec. 17, as a paying well pursuant to the terms of the agreement. Unit well No. 237 was completed September 12, 1973, for a calculated open flow potential of 263 MCF of gas per day from the Gallup interval 5,688 to 5,978 feet.

The sixteenth revision adds 328.20 acres described as Lots 1, 2, 3, 4 and NE $\frac{1}{4}$ sec. 18, T. 26 N., R. 9 W., N.M.P.M., which enlarges the Gallup participating area to 9,478.43 acres and is based on the completion of unit well No. 239 in the NE $\frac{1}{4}$ of said sec. 18 as a paying well pursuant to the terms of the unit agreement. Such well was completed December 12, 1973, for a calculated open flow potential of 423 MCF of gas per day from the Gallup interval 5,626 to 5,978 feet.

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 the State of New Mexico and all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SCD) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Farmington (w/cy appln.)
BLM, Santa Fe (ltr. only)
MOCC, Santa Fe, New Mex. (ltr. only) ✓
Com. Pub. Lands, Santa Fe (ltr. only)

JAGillham:lh



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1837
Roswell, New Mexico 88201

January 15, 1975

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

Gentlemen:

The 1975 plan of development submitted for the Huerfano unit area, San Juan County, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of twelve additional Dakota wells, ten of which will be located on lands outside the existing Dakota participating area.

Three approved copies of the plan are enclosed.

Sincerely yours,

N. C. FREDERICK
Area Oil and Gas Supervisor

cc:

NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)
Farmington (w/cy plan)

JAGillham:ds



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

January 8, 1975

I. R. TRUJILLO
CHAIRMAN

LAND COMMISSIONER
PHIL R. LUCERO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

El Paso Natural Gas Company
Box 1492
El Paso, Texas 79978

Attention: Mr. James R. Permenter

Re: Amended Thirteenth, Amended Fourteenth,
and the Fifteenth and Sixteenth Revisions
to the Gallup Participating Area, Huerfano
Unit, San Juan County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the revisions of the previously approved Thirteenth and Fourteenth Revised participating area of the Gallup formation and the Fifteenth and Sixteenth Revised Participating Area, 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 copies are returned to the Commissioner of Public Lands.

Very truly yours,


A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico