

J. G L E N N T U R N E R

1700 Mercantile Bank Building  
Dallas, Texas

June 8, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
Fourth Expansion  
Participating Area Number A  
Pictured Cliffs Formation  
Effective November 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the Fourth Expansion of Participating Area Number A for the Pictured Cliffs Formation. It is the belief of the Unit Operator that the wells hereinafter specified are capable of producing unitized substances in paying quantities and based thereon, the Unit Operator is of the opinion that the following described unitized land is reasonably proved to be productive of unitized substances in paying quantities:

Township 27 North, Range 9 West, N.M.P.M.

Section 35: All  
Section 36: W/2

containing 960 acres, more or less.

The wells upon which such determination is based are as follows:

The Huerfanito Unit Well No. 29-35 located 990' from the South line and 990' from the West line of Section 35, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on August 17, 1955, and reached a total depth of 2,247' in the Pictured Cliffs Formation. On October 31, 1955 the Pictured Cliffs Formation between 2,192' and 2,247' was shot with solidified nitroglycerin. On November 3, 1955 the Pictured Cliffs Formation between 2,175' and 2,247' was treated with 17,700 gallons of diesel oil and 30,000 pounds of sand. After being shut-in for thirteen days, the well was tested on November 18, 1955 and after a three hour blowdown gauged 266 MCFGPD, with a SICP of 704 psig and SITP of 704 psig DWT.

The Huerfanito Unit Well No. 30-35 located 990' from the South line and 1,190' from the East line of Section 35, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on September 17, 1955, and reached a total depth of 2,151' in the Pictured Cliffs Formation. On October 22, 1955 the Pictured Cliffs Formation between 2,086' and 2,153' was shot with solidified nitroglycerin. On October 24, 1955 the Pictured Cliffs Formation between 2,075' and 2,161' was treated with 17,787 gallons of water and 30,000 pounds of sand. After being shut-in for seven days, the well was tested on November 5, 1955 and after a three hour blowdown gauged 776 MCFGPD, with a SICP of 584 psig and SITP of 584 psig DWT.

It is the considered opinion of the Unit Operator, based upon sound geological and engineering advice and due to the close correlation of shut-in pressures, that the above described lands, from both geological and engineering viewpoints, should be treated as an expansion of participating area "A", as the same has been heretofore approved. It is submitted that the completion of the following described wells subsequent to the effective date of such revision, but prior to the date of the application confirms the Unit Operator's opinion that all of such lands are productive in paying quantities.

The Huerfanito Unit Well No. 36-35 located 1,780' from the North line and 1,190' from the West line of Section 35, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on December 15, 1955, and reached a total depth of 2,295' in the Pictured Cliffs Formation. On January 26, 1956 the Pictured Cliffs Formation between 2,216' and 2,295' was treated with 17,750 gallons of diesel oil and 30,000 pounds

of sand. After being shut-in for eight days, the well was tested on February 4, 1956 and after a three hour blowdown gauged 346 MCFGPD, with a SICP of 669 psig and SITP of 669 psig DWT.

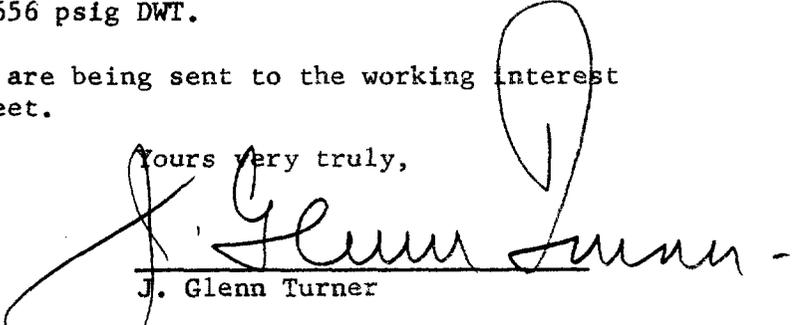
The Huerfanito Unit Well No. 50-36 located 1,485' from the North line and 990' from the West line of Section 36, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on April 11, 1956, and reached a total depth of 2,183' in the Pictured Cliffs Formation. On April 30, 1956 the Pictured Cliffs Formation between 2,142' and 2,183' was treated with solidified nitroglycerin. On May 1, 1956 the Pictured Cliffs Formation between 2,129' and 2,183' was treated with 17,800 gallons diesel oil and 30,000 pounds of sand. After being shut-in for nine days, the well was tested on May 12, 1956 and after a three hour blowdown gauged 383 MCFGPD, with a SICP of 535 psig and a SITP of 535 psig DWT.

The Huerfanito Unit Well No. 49-35 located 1,725' from the North line and 1,800' from the East line of Section 35, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on April 17, 1956, and reached a total depth of 2,218' in the Pictured Cliffs Formation. On May 5, 1956 the Pictured Cliffs Formation between 2,173' and 2,218' was treated with 17,800 gallons of diesel oil and 30,000 pounds of sand. After being shut-in for twelve days, the well was tested on May 19, 1956 and after a three hour blowdown gauged 5,585 MCFGPD, with a SICP of 648 psig and SITP of 648 psig DWT.

The Huerfanito Unit Well No. 51-36 located 850' from the South line and 1,530' from the West line of Section 36, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on April 9, 1956, and reached a total depth of 2,085' in the Pictured Cliffs Formation. On April 21, 1956 the Pictured Cliffs Formation between 2,039' and 2,085' was shot with solidified nitroglycerin. On April 23, 1956 the Pictured Cliffs Formation between 2,027' and 2,085' was treated with 17,900 gallons diesel oil and 30,000 pounds of sand. After being shut-in for eleven days, the well was tested on May 5, 1956 and after a three hour blowdown gauged 710 MCFGPD, with a SICP of 657 psig and SITP of 656 psig DWT.

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

Yours very truly,

  
J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States Geological Survey

Subject to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED:  \_\_\_\_\_ Date: **JUN 25 1958** \_\_\_\_\_  
Oil Conservation Commission

Subject to like approval by the U. S. G. S. and the Commissioner of Public Lands.

Benson-Montin-Greer Drilling Corporation  
2808 First National Building  
Oklahoma City, Oklahoma

Albert R. Greer  
315½ Main Street  
Farmington, New Mexico

O. J. Lilly  
211½ West Main Street  
Farmington, New Mexico

K. E. McAfee  
1316 Liberty Bank Building  
Oklahoma City, Oklahoma

Montin-Benson Corporation  
2808 First National Building  
Oklahoma City, Oklahoma

C. F. Stringer  
P. O. Box 542  
Farmington, New Mexico

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

Skelly Oil Company  
Post Office Box No. 1650  
Tulsa, Oklahoma

J. GLENN TURNER

28  
1700 Mercantile Bank Building  
Dallas, Texas

April 20, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
Sixth Expansion  
Participating Area Number B  
Pictured Cliffs Formation  
Effective November 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the Sixth Expansion of Participating Area Number B for the Pictured Cliffs Formation. It is the belief of the Unit Operator that both of the wells hereinafter specified are capable of producing unitized substances in paying quantities and, therefore, respectfully requests your approval of same.

The wells upon which such determination is based are as follows:

The Huerfanito Unit Well No. 27-34 located 1,190' from the South line and 1,190' from the West line of Section 34, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded

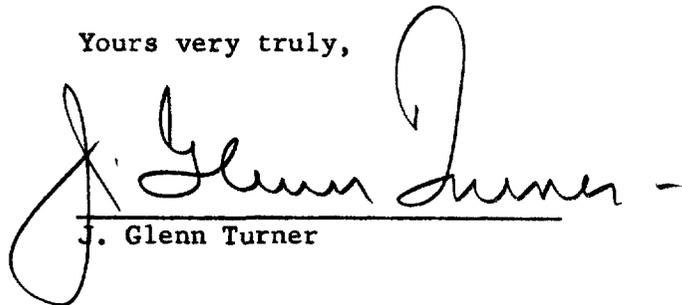
on August 26, 1955, and reached a total depth of 2,390' in the Pictured Cliffs Formation. On November 18, 1955 the Pictured Cliffs Formation between 2,322' and 2,390' was treated with 17,700 gallons diesel oil and 27,500 pounds of sand. After being shut-in for nine days, the well was tested on November 30, 1955, and after a three hour blowdown gauged 5,190 MCFGPD, with a SICP of 642 psig and a SITP of 642 psig DWT.

The Huerfanito Unit Well No. 28-34 located 990' from the South line and 990' from the East line of Section 34, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on August 20, 1955, and reached a total depth of 2,311' in the Pictured Cliffs Formation. On November 9, 1955 the Pictured Cliffs Formation between 2,249' and 2,311' was shot with solidified nitroglycerin. On November 10, 1955 the Pictured Cliffs Formation between 2,237' and 2,311' was treated with 17,700 gallons diesel oil and 30,000 pounds of sand. After being shut-in for twelve days, the well was tested on November 26, 1955, and after a three hour blowdown gauged 376 MCFGPD, with a SICP of 635 psig and a SITP of 635 psig DWT.

Attached hereto is a schedule showing the Sixth Expanded Participating Area Number B for the Pictured Cliffs Formation. This schedule describes the entire participating area, showing the percentage of unitized substances allocated to each unitized tract and the exact breakdown of production allocated to each tract according to the various ownerships in said tract.

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

Yours very truly,

  
J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States Geological  
Survey

Subject to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED: *A. L. Carter* Date: JUN 25 1956  
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and the Commissioner of Public  
Lands.

**Benson-Montin-Greer Drilling Corporation**  
1501 Republic Building  
Oklahoma City, Oklahoma

**Albert R. Greer**  
315½ Main Street  
Farmington, New Mexico

**O. J. Lilly**  
211½ West Main Street  
Farmington, New Mexico

**K. E. MC Afee**  
1316 Liberty Bank Building  
Oklahoma City, Oklahoma

**Montin-Benson Corporation**  
1501 Republic Building  
Oklahoma City, Oklahoma

**C. F. Stringer**  
P. O. Box 542  
Farmington, New Mexico

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

276  
J. GLENN TURNER

1700 Mercantile Bank Building  
Dallas, Texas

April 20, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
Fifth Expansion  
Participating Area Number B  
Pictured Cliffs Formation  
Effective October 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the Fifth Expansion of Participating Area Number B for the Pictured Cliffs Formation. It is the belief of the Unit Operator that each of the three wells hereinafter specified is capable of producing unitized substances in paying quantities and, therefore, respectfully requests your approval of same.

The wells upon which such determination is based are as follows:

The Huerfanito Unit Well No. 23-4 located 1,042' from the North line and 1,516' from the West line of Section 4, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded

on August 21, 1955, and reached a total depth of 2,280' in the Pictured Cliffs Formation. On September 15, 1955 the Pictured Cliffs Formation between 2,230' and 2,280' was shot with solidified nitroglycerin. On September 17, 1955 the Pictured Cliffs Formation between 2,215' and 2,280' was treated with 7,700 gallons of diesel oil and 12,000 pounds of sand. After being shut-in for sixteen days, the well was tested on October 6, 1955, and after a three hour blowdown gauged 400 MCFGPD, with a SICP of 635 psig and SITP of 635 psig DWT.

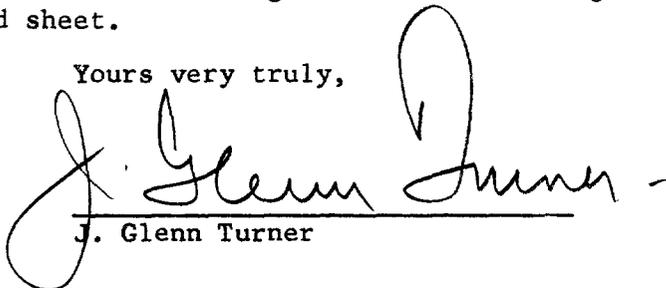
The Huerfanito Unit Well No. 24-4 located 1,850' from the South line and 1,650' from the West line of Section 4, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on August 14, 1955, and reached a total depth of 2,192' in the Pictured Cliffs Formation. On September 11, 1955 the Pictured Cliffs Formation between 2,131' and 2,192' was treated with 7,750 gallons diesel oil and 12,000 pounds of sand. After being shut-in for twenty-three days, the well was tested on October 6, 1955, and after a three hour blowdown gauged 6,085 MCFGPD, with a SICP of 653 psig and a SITP of 653 psig DWT.

The Huerfanito Unit Well No. 26-33 located 990' from the South line and 1,190' from the East line of Section 33, Township 27 North, Range 9 West, San Juan County, New Mexico was spudded on August 24, 1955, and reached a total depth of 2,376' in the Pictured Cliffs Formation. On September 22, 1955 the Pictured Cliffs Formation between 2,324' and 2,373' was shot with solidified nitroglycerin. On September 28, 1955 the Pictured Cliffs Formation between 2,312' and 2,373' was treated with 7,700 gallons diesel oil and 12,000 pounds of sand. After being shut-in for seven days, the well was tested on October 6, 1955, and after a three hour blowdown gauged 2,067 MCFGPD, with a SICP of 622 psig and a SITP of 621 psig DWT.

Attached hereto is a schedule showing the Fifth Expanded Participating Area Number B for the Pictured Cliffs Formation. This schedule describes the entire participating area, showing the percentage of unitized substances allocated to each unitized tract and the exact breakdown of production allocated to each tract according to the various ownerships in said tract.

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

Yours very truly,

  
J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States Geological  
Survey

Subject, to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED:  \_\_\_\_\_ Date: JUN 20 1958  
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and the Commissioner of Public  
Lands.

Benson-Montin-Greer Drilling Corporation  
1501 Republic Building  
Oklahoma City, Oklahoma

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J. G L E N N T U R N E R

1700 Mercantile Bank Building  
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April 20, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D.C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
Fourth Expansion  
Participating Area Number B  
Pictured Cliffs Formation  
Effective September 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the Fourth Expansion of Participating Area Number B for the Pictured Cliffs Formation. It is the belief of the Unit Operator that each of the two wells hereinafter specified is capable of producing unitized substances in paying quantities and, therefore, respectfully requests your approval of same.

The wells upon which such determination is based are as follows:

The Huerfanito Unit Well No. 12-1 located 990' from the North line and 990' from the West line of Section 1, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on July 26, 1955, and reached a total depth of 2,060' in the

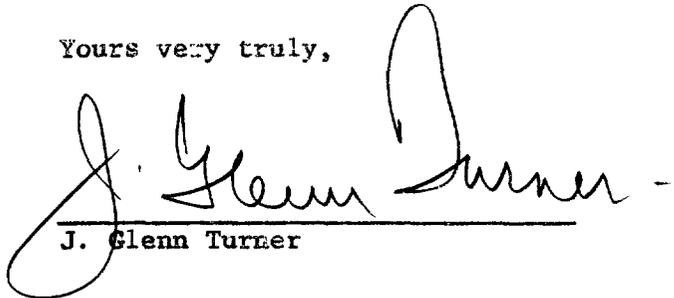
Pictured Cliffs Formation. On September 1, 1955 the Pictured Cliffs Formation between 1,993' and 2,060' was treated with 7,800 gallons of diesel oil and 12,000 pounds of sand. After being shut-in for eight days, the well was tested on September 10, 1955 and after a three hour blowdown gauged 961 MCFGPD, with a SICP of 666 psig and SITP of 665 psig DWT.

The Huerfanito Unit Well No. 22-4 located 1,650' from the North line and 990' from the East line Section 4, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on July 28, 1955, and reached a total depth of 2,248' in the Pictured Cliffs Formation. On September 5, 1955 the Pictured Cliffs Formation between 2,191' and 2,246' was shot with solidified nitroglycerin. On September 7, 1955 the Pictured Cliffs Formation between 2,182' and 2,248' was treated with 7,800 gallons of diesel oil and 12,000 pounds of sand. After being shut-in for seven days, the well was tested on September 17, 1955, and after a three hour blowdown gauged 456 MCFGPD, with a SICP of 648 psig and a SITP of 648 psig DWT.

Attached hereto is a schedule showing the Fourth Expanded Participating Area Number B for the Pictured Cliffs Formation. This schedule describes the entire participating area, showing the percentage of unitized substances allocated to each unitized tract and the exact breakdown of production allocated to each tract according to the various ownerships in said tract.

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

Yours very truly,

  
\_\_\_\_\_  
J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States Geological  
Survey

Subject, to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED:  Date: JUN 25 1956  
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and the Commissioner of Public  
Lands.

Benson-Montin-Greer Drilling Corporation  
1501 Republic Building  
Oklahoma City, Oklahoma

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El Paso Natural Gas Company  
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El Paso, Texas

J. G L E N N T U R N E R

1700 Mercantile Bank Building  
Dallas, Texas

April 20, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
Third Expansion  
Participating Area Number A  
Pictured Cliffs Formation  
Effective June 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the third expansion of Participating Area Number A for the Pictured Cliffs Formation. It is the belief of the Unit Operator that the well hereinafter specified is capable of producing unitized substances in paying quantities and, therefore, respectfully requests your approval of same.

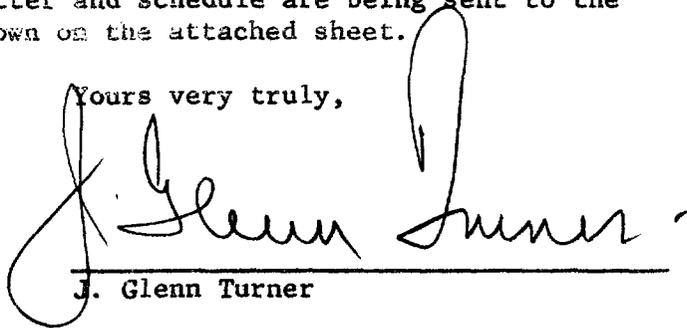
The well upon which such determination is based is as follows:

The Huerfanito Unit Well No. 10-36 located 824' from the North line and 990' from the East line of Section 36, Township 27 North, Range 9 West, San Juan County, New Mexico, was spudded on May 16, 1955, and reached a total depth of 2,085' in the Pictured Cliffs Formation. The Pictured Cliffs Formation between 2,030' and 2,086' was shot with solidified nitroglycerin on June 6, 1955 and the Pictured Cliffs Formation between 2,020' and 2,086' was treated on June 9, 1955 with 8,000 gallons diesel oil and 11,400 pounds of sand. After being shut-in for gauge for eleven days, the well was tested on June 21, 1955, and after a three hour blowdown gauged an IP of 1,318 MCFGPD, with a SICP of 642 psig and a SITP of 642 psig DWT.

Attached hereto is a schedule showing the Third Expanded Participating Area Number A for the Pictured Cliffs Formation. This schedule describes the entire participating area, showing the percentage of unitized substances allocated to each unitized tract and the exact breakdown of production allocated to each tract according to the various ownerships in said tract.

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

Yours very truly,



J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States  
Geological Survey

Subject to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED:  Date: JUN 25 1956  
Oil Conservation Commission

Subject to like approval by the U. S. G. S. and the Commissioner of  
Public Lands.

El Paso Natural Gas Company  
Post Office Box 1492  
El Paso, Texas

Skelly Oil Company  
Skelly Building  
Tulsa 2, Oklahoma

J. G L E N N T U R N E R

1700 Mercantile Bank Building  
Dallas, Texas

April 20, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D.C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
Third Expansion  
Participating Area Number B  
Pictured Cliffs Formation  
Effective August 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the Third Expansion of Participating Area Number B for the Pictured Cliffs Formation. It is the belief of the Unit Operator that the well hereinafter specified is capable of producing unitized substances in paying quantities and, therefore, respectfully requests your approval of same.

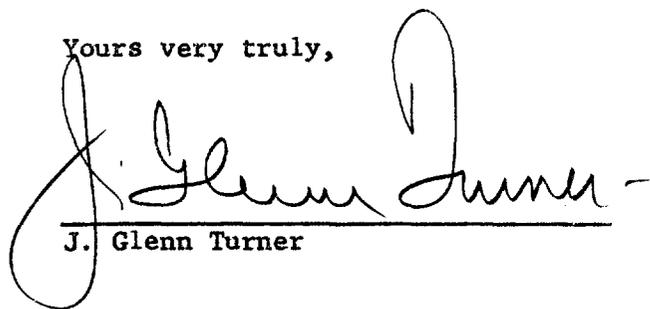
The well upon which such determination is based is as follows:

The Huerfanito Unit Well No. 19-3 located 1,450' from the North line and 990' from the East line of Section 3, Township 26 North, Range 9 West, San Juan County, New Mexico was spudded on June 11, 1955, and reached a total depth of 2,194' in the Pictured Cliffs Formation. On July 21, 1955 the Pictured Cliffs Formation between 2,113' and 2,194' was treated with 7,800 gallons of diesel oil and 9,500 pounds of sand. After being shut-in for twelve days, the well was tested on August 3, 1955, and after a three hour blowdown gauged 970 MCFGPD, with a SICP of 654 psig and SITP of 654 psig DWT.

Attached hereto is a schedule showing the Third Expanded Participating Area Number B for the Pictured Cliffs Formation. This schedule describes the entire participating area, showing the percentage of unitized substances allocated to each unitized tract and the exact breakdown of production allocated to each tract according to the various ownerships in said tract.

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

Yours very truly,



J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States Geological  
Survey

Subject: to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED: *A. L. Carter* Date: April 25 1956  
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and the Commissioner of Public  
Lands.

**Benson-Montin-Greer Drilling Corporation**  
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**El Paso Natural Gas Company**  
P. O. Box 1492  
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3 70  
J. GLENN TURNER

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April 20, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
Second Expansion  
Participating Area Number B  
Pictured Cliffs Formation  
Effective July 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the Second Expansion of Participating Area Number B for the Pictured Cliffs Formation. It is the belief of the Unit Operator that each of the seven wells hereinafter specified is capable of producing unitized substances in paying quantities and, therefore, respectfully requests your approval of same.

The wells upon which such determination is based are as follows:

The Huerfanito Unit Well No. 15-2 located 990' from the North line and 990' from the East line of Section 2, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded

on June 24, 1955, and reached a total depth of 2,133' in the Pictured Cliffs Formation. On July 14, 1955 the Pictured Cliffs Formation between 2,043' and 2,133' was treated with 7,800 gallons of diesel oil and 11,000 pounds of sand. After being shut-in for seven days, the well was tested on July 23, 1955, and after a three hour blowdown gauged 910 MCFGPD, with a SICP of 656 psig and a SITP of 656 psig DWT.

The Huerfanito Unit Well No. 16-2 located 990' from the North line and 990' from the West line of Section 2, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on June 6, 1955, and reached a total depth of 2,220' in the Pictured Cliffs Formation. The Pictured Cliffs Formation between 2,139' and 2,220' was treated with 7,800 gallons diesel oil and 10,000 pounds of sand on July 17, 1955. After being shut-in for seven days, the well was tested on July 26, 1955, and after a three hour blowdown gauged an IP of 2,130 MCFGPD, with a SICP of 632 psig and SITP of 632 psig DWT.

The Huerfanito Unit Well No. 17-2 located 990' from the South line and 1,650' from the West line of Section 2, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on May 28, 1955, and reached a total depth of 2,043' in the Pictured Cliffs Formation. The Pictured Cliffs Formation between 1,958' and 2,043' was treated with 8,000 gallons of diesel oil and 11,400 pounds of sand on June 21, 1955. After being shut-in for 24 days, the well was tested on July 15, 1955, and after a three hour blowdown gauged an IP of 1,621 MCFGPD, with a SICP of 672 psig and SITP of 672 psig DWT.

The Huerfanito Unit Well No. 18-2 located 990' from the South line and 1,650' from the East line of Section 2, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on May 26, 1955, and reached a total depth of 2,023' in the Pictured Cliffs Formation. The Pictured Cliffs Formation between 1,952' and 2,023' was treated with 10,000 gallons of diesel oil and 15,000 pounds of sand on June 18, 1955. After being shut-in for twenty-seven days, the well was tested on July 15, 1955, and after a three hour blowdown gauged an IP of 2,416 MCFGPD, with a SICP of 648 psig and SITP of 648 psig DWT.

The Huerfanito Unit Well No. 20-3 located 1,698' from the North line and 1,146' from the West line of Section 3, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on June 10, 1955, and reached a total depth of 2,225' in the Pictured Cliffs Formation. The Pictured Cliffs Formation between 2,150' and 2,225' was treated on June 28, 1955 with 7,800 gallons diesel oil and 10,000 pounds of sand. After being shut-in for seventeen days, the well was tested on July 15, 1955, and after a three hour blowdown gauged an IP of 1,948 MCFGPD, with a SICP of 659 psig and a SITP of 659 psig DWT.

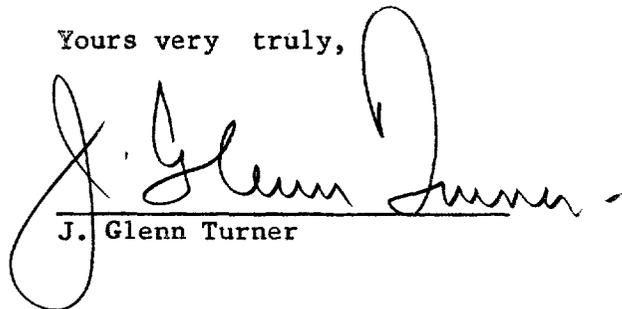
The Huerfanito Unit Well No. 21-3 located 990' from the South line and 1,609' from the East line of Section 3, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on May 29, 1955, and reached a total depth of 2,081' in the Pictured Cliffs Formation. On June 24, 1955 the Pictured Cliffs Formation between 2,032' and 2,088' was shot with solidified nitroglycerin. On June 26, 1955 the Pictured Cliffs Formation between 2,023' and 2,088' was treated with 7,900 gallons diesel oil and 12,000 pounds of sand. After being shut-in for nineteen days, the well was tested on July 15, 1955, and after a three hour blowdown gauged 1,626 MCFGPD, with a SICP of 642 psig and a SITP of 642 psig DWT.

The Huerfanito Unit Well No. 25-4 located 890' from the South line and 990' from the East line of Section 4, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on June 10, 1955, and reached a total depth of 2,133' in the Pictured Cliffs Formation. On July 12, 1955 the Pictured Cliffs Formation between 2,083' and 2,136' was treated with 7,800 gallons of diesel oil and 11,000 pounds of sand. After being shut-in for seven days, the well was tested on July 20, 1955 and after a three hour blowdown gauged 5,369 MCFGPD, with a SICP of 641 psig and SITP of 641 psig DWT.

Attached hereto is a schedule showing the Second Expanded Participating Area Number B for the Pictured Cliffs Formation. This schedule describes the entire participating area, showing the percentage of unitized substances allocated to each unitized tract and the exact breakdown of production allocated to each tract according to the various ownerships in said tract.

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

Yours very truly,

  
J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States Geological Survey

Subject to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED:  Date: JUN 25 1956  
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and the Commissioner of Public Lands.

Benson-Montin-Greer Drilling Corporation  
1501 Republic Building  
Oklahoma City, Oklahoma

Albert R. Greer  
315½ Main Street  
Farmington, New Mexico

O. J. Lilly  
211½ West Main Street  
Farmington, New Mexico

K. E. MC Afee  
1316 Liberty Bank Building  
Oklahoma City, Oklahoma

Montin-Benson Corporation  
1501 Republic Building  
Oklahoma City, Oklahoma

C. F. Stringer  
P. O. Box 542  
Farmington, New Mexico

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

2006  
J. GLENN TURNER

1700 Mercantile Bank Building  
Dallas, Texas

April 20, 1956

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

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

Re: Huerfanito Unit Area  
I-Sec. No. 943  
San Juan County, New Mexico  
First Expansion  
Participating Area Number B  
Pictured Cliffs Formation  
Effective June 1, 1955

Gentlemen:

Pursuant to Section 11 of the Huerfanito Unit Agreement, approved June 2, 1952 by the Director of the United States Geological Survey, J. Glenn Turner, as Unit Operator of such Unit herewith submits, for approval, the First Expansion of Participating Area Number B for the Pictured Cliffs Formation. It is the belief of the Unit Operator that the well hereinafter specified is capable of producing unitized substances in paying quantities and, therefore, respectfully requests your approval of same.

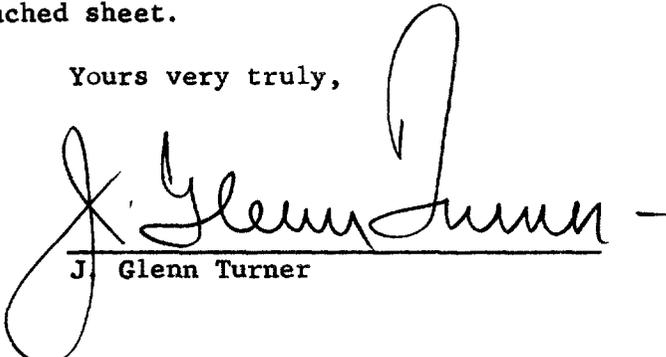
The well upon which such determination is based is as follows:

The Huerfanito Unit well No. 13-1 located 990' from the South line and 1,650' from the West line of Section 1, Township 26 North, Range 9 West, San Juan County, New Mexico, was spudded on May 24, 1955, and reached a total depth of 1,978' in the Pictured Cliffs Formation. The Pictured Cliffs Formation between 1,911' and 1,978' was shot with solidified nitroglycerin on June 12, 1955 and the Pictured Cliffs Formation between 1,910' and 1,978' was treated on June 14, 1955 with 8,000 gallons diesel oil and 11,000 pounds of sand. After being shut-in for gauge for six days, the well was tested on June 21, 1955, and after a three hour blowdown gauged an IP of 2,237 MCF/GPD, with a SICP of 623 psig and a SITP of 623 psig DWT.

Attached hereto is a schedule showing the First Expanded Participating Area Number B for the Pictured Cliffs Formation. This schedule describes the entire participating area, showing the percentage of unitized substances allocated to each unitized tract and the exact breakdown of production allocated to each tract according to the various ownerships in said tract.

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

Yours very truly,

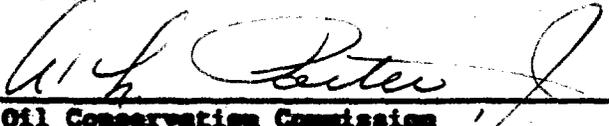
  
J. Glenn Turner

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Director, United States  
Geological Survey

Subject to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Commissioner of Public Lands

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

APPROVED:  Date: JUN 25 1956  
Oil Conservation Commission

Subject to like approval by the U. S. G. S. and the Commissioner of  
Public Lands.

Benson-Montin-Greer Drilling Corporation  
1501 Republic Building  
Oklahoma City, Oklahoma

Albert R. Greer  
315½ Main Street  
Farmington, New Mexico

O. J. Lilly  
211½ West Main Street  
Farmington, New Mexico

K. E. MC Afee  
1316 Liberty Bank Building  
Oklahoma City, Oklahoma

Montin-Benson Corporation  
1501 Republic Building  
Oklahoma City, Oklahoma

C. F. Stringer  
P. O. Box 542  
Farmington, New Mexico

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

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

March 23, 1956

*file*

Mr. J. Glenn Turner  
17th Floor  
Mercantile Bank Building  
Dallas 1, Texas

Re: (Huerfanito Unit Area )  
San Juan County, New Mexico  
1956 Drilling Program

Gentlemen:

This is to advise that the Drilling Program for calendar year 1956 for the subject unit area, dated March 12, 1956, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is returned herewith.

Very truly yours,

W. B. Macey  
Secretary-Director

WBM:jh

cc: U. S. Geological Survey, Roswell  
Commissioner of Public Lands, Santa Fe

C  
O  
P  
Y

**OIL CONSERVATION COMMISSION**  
P. O. BOX 871  
**SANTA FE, NEW MEXICO**

**March 23, 1956**

**Mr. J. Glenn Turner**  
17th Floor  
Mercantile Bank Building  
Dallas 1, Texas

**Re: Huerfanito Unit Area**  
San Juan County, New Mexico  
1956 Drilling Program

**Gentlemen:**

This is to advise that the Drilling Program for calendar year 1956 for the subject unit area, dated March 12, 1956, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is returned herewith.

Very truly yours,

**W. B. Macey**  
Secretary-Director

WBM:jh

cc: U. S. Geological Survey, Roswell  
Commissioner of Public Lands, Santa Fe

C  
O  
P  
Y

MAIN OFFICE OCC

1956 MAR 15 PM 1:25

March 14, 1956

In reply refer to:  
Unit Division

Mr. J. Glenn Turner  
17th Floor Mercantile Bank Building  
Dallas 1, Texas

Re: Huerfanito Unit Area  
I.-Sec. No. 943  
San Juan County, N. Mex.  
Drilling Program for  
Calendar Year 1956

Dear Mr. Turner:

We are enclosing two copies of the Drilling Program for Calendar Year 1956 for the Huerfanito Unit Area, which was approved by the Commissioner of Public Lands on March 14, 1956.

Very truly yours,

E. S. WALKER  
Commissioner of Public Lands

MMR/m  
encl: 2

cc: OCC-Santa Fe  
USGS-Roswell

J. GLENN TURNER

OIL AND GAS-INVESTMENTS  
17<sup>TH</sup> FLOOR MERCANTILE BANK BUILDING  
DALLAS 1, TEXAS

March 12, 1956

Mr. John A. Anderson, Regional Supervisor  
United States Geological Survey  
Department of the Interior  
Post Office Building  
Roswell, New Mexico

Mr. E. S. Walker  
Commissioner of Public Lands  
State of New Mexico  
Santa Fe, New Mexico

Mr. William Macey, Secretary  
Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Re: Huerfanito Unit Area  
I.-Sec. No. 943  
San Juan County, New Mexico  
Drilling Program for  
Calendar Year 1956

Gentlemen:

Under date of September 21, 1955, J. Glenn Turner, as Operator of the captioned Unit Agreement, submitted his Supplemental Plan of Development for such Unit for the calendar year 1955. Such Plan of Development was approved by the Supervisor of the U. S. Geological Survey on September 28, 1955, by the Commissioner of Public Lands of the State of New Mexico on October 7, 1955, and by the Oil Conservation Commission of the State of New Mexico on October 27, 1955.

Pursuant to such Plan of Development, the Unit Operator has caused to be drilled and completed, as producing Pictured Cliffs Formation gas wells, ten of the wells provided for in such Supplemental Plan of Development. The remaining six wells to be drilled under such Plan of Development are in various stages of completion, and it is contemplated that all of such wells will be finally completed within the next sixty (60) days.

Pursuant to the terms of the Huerfanito Unit Agreement J. Glenn Turner, as Unit Operator, hereby submits, for your consideration and approval, the Drilling Program for the calendar year 1956 within the captioned Unit, the same to be as follows:

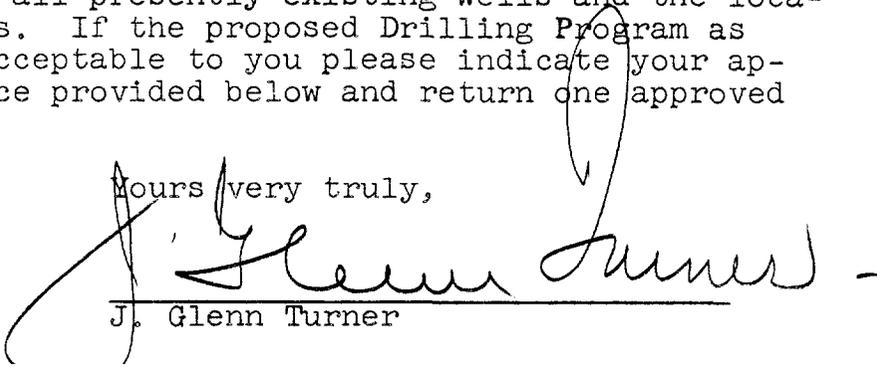
Huerfanito Unit Number 47-27, NE/4 Section 27 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 48-26, SW/4 Section 26 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 49-35, NE/4 Section 35 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 50-36, NW/4 Section 36 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 51-36, SW/4 Section 36 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 52-36, SE/4 Section 36 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 53-22, NE/4 Section 22 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 54-22, SE/4 Section 22 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 55-23, SW/4 Section 23 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 56-23, NE/4 Section 23 ✓  
 T-27-N, R-9-W  
 Huerfanito Unit Number 57-23, SE/4 Section 23 ✓  
 T-27-N, R-9-W

It is proposed that each of such wells shall be drilled with rotary tools to a depth of approximately 2,100 feet, and 5-1/2 inch casing set in the top of the Pictured Cliffs Formation, following which the hole shall be deepened with cable tools. Upon reaching the base of the Pictured Cliffs Formation, the Operator shall then conduct sand-oil fracing operations, using a minimum of 30,000 pounds of sand and 20,000 gallons of Diesel oil as the proposed formation treatment. In the event the result of such proposed sand-oil fracing operations is not entirely satisfactory, the Operator then proposes to shoot the Pictured Cliffs Formation with solidified nitroglycerine, following which the above referred to sand-oil treatment will be repeated.

In the event the drilling operations contemplated hereby encounter marginal production, then it is proposed that a re-appraisal of the remaining undrilled locations will be made to the end that needless economic waste will be prevented, however, if all of such operations are successful, it is proposed that the few remaining unproductive 160 acre tracts within the Unit will be tested, subject, however, to your like approval.

In order that you may be sufficiently advised as to the present development of the subject Unit, as well as the operations contemplated hereby, we are attaching hereto a map of the Huerfanito Unit Area showing thereon all presently existing wells and the location of the proposed wells. If the proposed Drilling Program as outlined hereinabove is acceptable to you please indicate your approval thereof in the space provided below and return one approved copy to the undersigned.

Mine yours very truly,

  
 J. Glenn Turner

Mr. John A. Anderson, et al.

-3-

March 12, 1956

APPROVED: \_\_\_\_\_  
Supervisor, United States  
Geological Survey

Date: \_\_\_\_\_

Subject to like approval by the appropriate State Officials.

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands

Date: \_\_\_\_\_

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

APPROVED: W B Macey  
Oil Conservation Commission

Date: 3-23-56

Subject to like approval by the U.S.G.S. and the  
Commissioner of Public Lands.