

IN REPLY REFER TO:



RECEIVED IN THE OFFICE OF THE  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Box 6721  
Roswell, New Mexico

February 7, 1955

*file  
case 286  
L. E. Canfield*

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

Dear Sir:

The plan of development dated January 14, 1955, for the Huerfanito unit area, New Mexico, I-Sec. No. 943, has been approved on this date, subject to like approval by the appropriate State officials.

In addition to the proposed wells listed in the plan of development, adequate offset wells must be drilled to protect the unit area from drainage as provided in the unit agreement.

One approved copy of said plan is returned herewith.

Very truly yours,

(Orig. Sgd) R. E. CANFIELD

R. E. CANFIELD  
Acting Regional Oil and Gas Supervisor

Copy to: Cons. Div., Wash (w/1 copy of plan)  
NMOCC, Santa Fe (ltr only)

*OK*

January 24th, 1955

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

Re: Huerfanito Unit Agreement  
San Juan County, New Mexico  
Drilling Program for Calendar  
Year 1955

Dear Sir:

This is to advise that the Plan of Development for the Huerfanito Unit Agreement for the Calendar year 1955 has this date been approved subject to like approval by the Oil Conservation Commission and the United States Geological Survey.

The approved copies are returned herewith.

Very truly yours,



E. S. WALKER  
COMMISSIONER OF PUBLIC LANDS

cc - U. S. Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

MAIN OFFICE CCC

NOV 17 1954

November 17, 1954

*File  
C-116*

C  
O  
P  
Y

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

Re: Huerfanite Unit Agreement  
San Juan County, New Mexico

Dear Sir:

Please be advised that the Plan of Development dated October 26, 1954, for the Pictured Cliffs Formation, Huerfanite Unit Agreement, for the remainder of the calendar year 1954 was approved by this office on November 10, 1954, subject to like approval being obtained from the United States Geological Survey and Oil Conservation Commission.

One approved copy of said plan was returned to your office on November 10, 1954.

Very truly yours,

E. S. Weyker  
Commissioner of Public Lands

cc: United States Geological Survey  
Roswell, New Mexico (3)  
Oil Conservation Commission ✓  
Santa Fe, New Mexico (1)

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

November 16, 1954

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

Re: Huerfanito Unit Agreement  
San Juan County, New Mexico  
I-Sec. No. 943

Dear Sir:

This is to advise that the Plan of Development dated October 26, 1954, for the Pictured Cliffs Formation, Huerfanito Unit Agreement, for the remainder of the calendar year 1954 is this date approved by the New Mexico Oil Conservation Commission, subject to like approval by the Director of the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the proposed Plan of Development is herewith returned.

Very truly yours,

W. B. Macey  
Secretary - Director

WBM;jh

cc: U.S.G.S. - Roswell  
Commissioner Public Lands - Santa Fe



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Box 6721  
Roswell, New Mexico

October 28, 1954

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

Dear Sir:

The plan of development dated October 26, 1954, for the Pictured Cliffs formation, Huerfano unit area, New Mexico, I-Sec. No. 943, for the remainder of the calendar year 1954, has been approved on the date subject to like approval by the appropriate State officials.

One approved copy of said plan is returned herewith.

Very truly yours,

(Original)

R. E. CANFIELD  
Acting Regional Oil and Gas Supervisor

Copy to: Cons.Div., Wash., D.C. (w/1 copy of plan)  
Cons. Public Lands, Santa Fe (ltr. only)  
N.H.O.C.C., Santa Fe (ltr. only) ✓

MAIN OFFICE OCC

1954 OCT 26 AM 8:17

October 26, 1954

*Office  
10/26/54*

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 Agreement  
I.-Sec. No. 943  
San Juan County, New Mexico  
Drilling Program for Balance of  
Calendar Year, 1954

Gentlemen:

Pursuant to Section 10 of the captioned Unit Agreement, J. Glenn Turner, as Sub-Operator for the development and production of natural gas and associated liquid hydrocarbons from all formations down through the Pictured Cliffs Formation within the captioned Unit Area, herewith submits his proposed drilling program for the balance of the calendar year, 1954.

By Designation, dated October 13, 1954, Magnolia Petroleum Company, as the Unit Operator under the captioned Unit Agreement, has designated the undersigned, J. Glenn Turner, as Sub-Operator for the development and production of natural gas and associated liquid hydrocarbons from all formations down

*John*

through the base of the Pictured Cliffs Formation, such Designation having been accepted by the Director of the U. S. Geological Survey on October 26, 1954.

Based upon prior development of the Huerfanito Unit Area and upon recent developments of the Pictured Cliffs Formation in areas offsetting the subject Unit Area, J. Glenn Turner hereby submits, for your consideration and approval, a drilling program for the balance of the calendar year, 1954, which would provide for the drilling of nine Pictured Cliffs Formation wells within the Unit Area, the location and designation of such wells being as follows:

1. Crandell-Federal No. 1-10, NW/4 Sec. 10, T-26-N, R-9-W
2. Crandell-Federal No. 2-10, NE/4 Sec. 10, T-26-N, R-9-W
3. Ballard-Federal No. 1-11, NW/4 Sec. 11, T-26-N, R-9-W
4. Ballard-Federal No. 2-11, NE/4 Sec. 11, T-26-N, R-9-W
5. Ballard-Federal No. 1-12, NW/4 Sec. 12, T-26-N, R-9-W
6. Ballard-Federal No. 2-12, SW/4 Sec. 12, T-26-N, R-9-W
7. Ballard-Federal No. 3-12, NE/4 Sec. 12, T-26-N, R-9-W
8. Ballard-Federal No. 4-12, SE/4 Sec. 12, T-26-N, R-9-W
9. Crandell-Federal No. 1-3, SW/4 Sec. 3, T-26-N, R-9-W

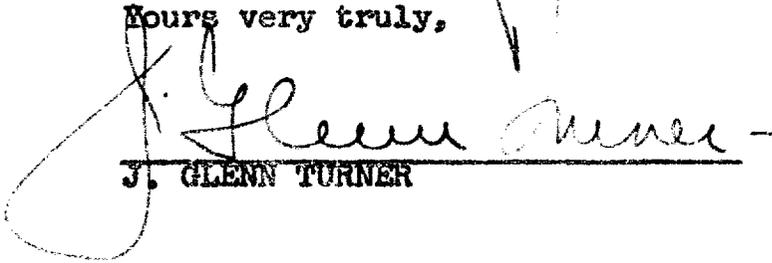
It is apparent, from recent developments in this area, that the southern portion of the Unit Area may prove to be more productive of natural gas than has been the case in the development of the northeasterly portion of the Unit Area. It is proposed that each of such wells shall be drilled with rotary tools to a depth of approximately 2,000 feet and set 5-1/2 inch casing on 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 4,500 pounds of sand and 8,000 gallons of Diesel oil as the proposed formation treatment.

In the event the drilling operations contemplated hereby encounter marginal production, it is proposed that auxiliary locations will be selected, subject, however, to your like approval.

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, J. Glenn Turner.

Yours very truly,

  
J. GLENN TURNER

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_  
Supervisor, 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 Oil  
Conservation Commission.

APPROVED: W. B. Macey Date: 11/15/54  
Oil Conservation Commission

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

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. T. F. Thompson  
Skelly Oil Company  
Skelly Building  
Tulsa 2, Oklahoma

Mr. H. W. Matthews  
The Standard Oil Company of Texas  
Box 1249  
Houston, Texas

Mr. Howard McDade  
Southern Union Gas Company  
Burt Building  
Dallas, Texas

Mr. F. D. Jernigan  
4548 Belclaire  
Dallas, Texas

Mr. Roland L. Hamblin  
El Paso Natural Gas Company  
Box 1492  
El Paso, Texas

June 1, 1954

C  
O  
P  
Y

Magnolia Petroleum Company  
Natural Gas Department  
Dallas 1, Texas

Re: Huerfano Unit  
San Juan County,  
New Mexico

Gentlemen:

We are in receipt of your application for Designation of an Initial, First and Second Enlargement, of the Participating Area for the Huerfano Cliff Zone, Huerfano Unit Agreement, San Juan County, New Mexico.

Your application is approved on this date provided like approval is obtained from the United States Geological Survey and Oil Conservation Commission.

Very truly yours,

E. S. WALKER  
Commissioner of Public Lands

cc: United States Geological Survey  
Roswell, New Mexico (3)  
Oil Conservation Commission ✓  
Santa Fe, New Mexico (1)

Dallas, Texas  
May 13, 1954

MAIN OFFICE OCC  
1954 MAY 17 AM 10:05

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

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

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

RE: Huerfanito Unit  
San Juan County,  
New Mexico

Gentlemen:

I am attaching a revised application for Designation of an Initial, First and Second Enlargement, of the Participating Area for the Pictured Cliff Zone, Huerfanito Unit, San Juan County, New Mexico.

This revision has been occasioned by refusal of the Oil and Gas Supervisor of the United States Geological Survey to grant approval of the application dated February 8, 1954. The difference in the two applications is that the revised application includes the NE/4 of Section 23 in the Second Enlargement.

We request your prompt approval of the attached application so that same may be placed in effect.

Very truly yours,

MAGNOLIA PETROLEUM COMPANY

*H. H. Beeson*  
H. H. Beeson

HHB:do  
Attach,

cc: Huerfanito Unit Operators

U. S. CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

May 20, 1954

C  
O  
P  
Y

Mr. H. H. Beeson  
Box 900  
Dallas, Texas

Dear Mr. Beeson:

Re: Huerfanito Unit, San Juan County, N. M.

The revised application, dated May 13, 1954, for designation of an initial, First and Second Enlargement, of the Participating Area for the Pictured Cliff Zone, Huerfanito Unit, San Juan County, New Mexico, is approved on this date subject to like approval by the Commissioner of Public Lands of the State of New Mexico and the U. S. Geological Survey.

Very truly yours,

R. R. Spurrier  
Secretary and Director

RRS:vc

APPLICATION FOR DESIGNATION OF INITIAL  
 PARTICIPATING AREA AND FIRST AND SECOND  
 ENLARGEMENTS FOR THE PICTURED CLIFF ZONE  
 HUERFANITO UNIT, SAN JUAN COUNTY, NEW MEXICO

I Section No. 943

May 12, 1954

OIL AND GAS SUPERVISOR  
 UNITED STATES GEOLOGICAL SURVEY  
 ROSWELL, NEW MEXICO

COMMISSIONER OF PUBLIC LANDS  
 STATE OF NEW MEXICO  
 SANTA FE, NEW MEXICO

OIL CONSERVATION COMMISSION \*  
 STATE OF NEW MEXICO  
 SANTA FE, NEW MEXICO

In compliance with Section 11 of the Unit Agreement for the Development and Operation of the Huerfanito Unit Area, San Juan County, New Mexico, we submit herewith for your consideration a request for approval of the Initial Pictured Cliffs Participating Area and First and Second Enlargements thereof.

The land involved and the well data on which the request is based is as follows:

Initial Participating Area	Proven Productive by	Description	Effective Date
	Skelly Oil Company Gentle A No. 1 Located 1090' FNL & 1090' FWL Section 24-27N-9W Commenced 1-21-53 Completed 3- 3-53 For 640,000 cubic ft. of gas per day Total Depth 2141'	NW $\frac{1}{4}$ Sec. 24-27N-9W	3-3-53
First Enlargement	J. Glenn Turner Gentle No. 1 Located 990' FNL & 1650' FEL Section 26-27N-9W Commenced 9-11-53 Completed 10-14-53 For 345,000 cubic ft. of gas per day Total Depth 2188'	NE $\frac{1}{4}$ Sec. 26-27N-9W	10-1-53

Second Enlargement	Magnolia Petroleum Co. Clara Curley No. 1 Located 790' FNL & 790' FWL Section 25-27N-9W Commenced 11-27-53 Completed 12-13-53 For 578,000 cubic feet of gas per day Total Depth 2100'	E $\frac{1}{2}$ Sec. 23 SW $\frac{1}{4}$ Sec. 24 W $\frac{1}{2}$ Sec. 25-27N-9W	12-1-53
-----------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------	---------

The percentage of unitized substances applicable to the participating area should be allocated as shown on the attached plat marked Exhibit "A" and schedules marked Exhibit B, B-1, and B-2.

It is requested that the Initial Pictured Cliffs Participating Area and the First and Second Enlargements thereof be approved to be effective as of the dates indicated above.

Yours very truly,

MAGNOLIA PETROLEUM COMPANY  
Unit Operator

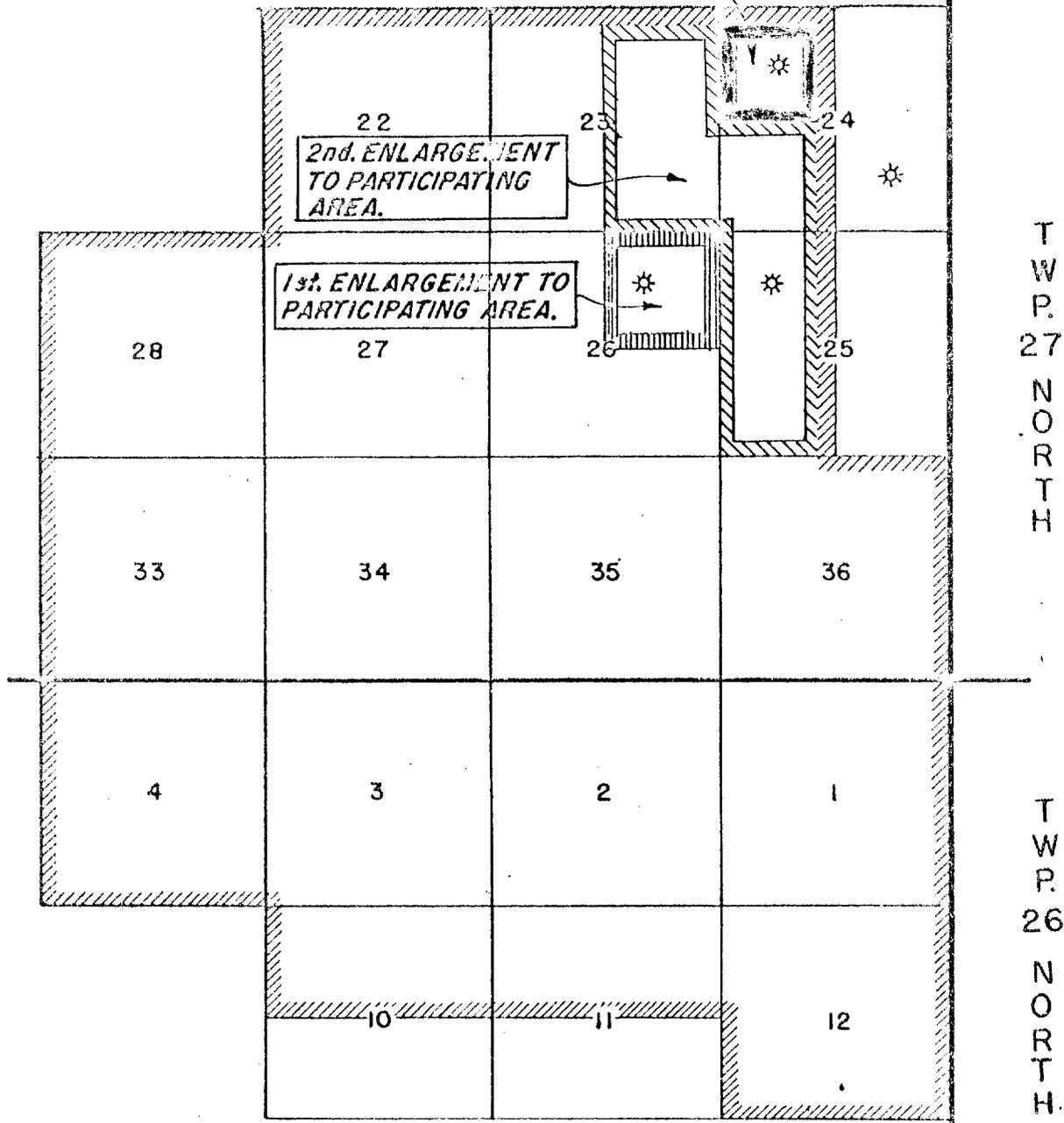
By W. H. B. Beatty

HHE:eb

Attach

RANGE 9 WEST

INITIAL PARTICIPATING AREA



LEGEND

-  PRESENT UNIT BOUNDARY
-  EXISTING WELL

*EXHIBIT "A"*

		MAGNOLIA PETROLEUM COMPANY NATURAL GAS DEPARTMENT	
		HUERFANITO UNIT SAN JUAN CO., NEW MEXICO	
REVISION DATE	BY	DRAWN: J. C. V.	DATE: 5-10-53
		DESIGN:	SCALE: 1" = 4000'
		DWG. NO. 106	

EXHIBIT "B"

<u>Tract No.</u>	<u>Serial No.</u>	<u>Lease Description</u>	<u>Number Acres</u>	<u>Ownership and Percentages</u>	<u>Lease Participation</u>
4	SF 078356	NW/4 24-27N-9W	160.00	U.S.A. Skelly Oil Co. 12 $\frac{1}{2}$ Glenn R. Gentle 84 $\frac{1}{2}$ 3	100%

EXHIBIT "B-1"

<u>Tract No.</u>	<u>Serial No.</u>	<u>Lease Description</u>	<u>Number Acres</u>	<u>Ownership and Percentages</u>	<u>Lease Participation</u>
4	SF 078356	NW/4 24-27N-9W	160.00	U.S.A Skelly Oil Company 12½ Glenn R. Gentle 84½ 3	50%
5	SF 078356-A	NE/4 26-27N-9W	160.00	U.S.A Three States 12½ Natural Gas Co. 85½ Glenn R. Gentle 2	50%

EXHIBIT "B-2"

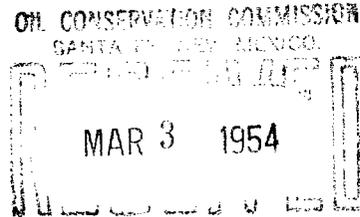
<u>Tract No.</u>	<u>Serial No.</u>	<u>Lease Description</u>	<u>Number Acres</u>	<u>Ownership and Percentages</u>	<u>Lease Participation</u>
4	SF 078356	NW/4 24-27N-9W SE/4 23-27N-9W NE/4 23-27N-9W	480.00	U.S.A. Skelly Oil Company Glenn R. Gentle 12½ 84½ 3	42.85716
5	SF 078356-A	NE/4 26-27N-9W	160.00	U.S.A. Three States Natural Gas Co. Glenn R. Gentle 12½ 85½ 2	14.28571
18	1-149-IND -8467	SW/4 24-27N-9W	160.00	Kay-ne-pah Allot. 062702 F. D. Jernigan 12½ 87½	14.28571
20	1-149-IND -8473	NW/4 25-27N-9W	160.00	Lin-ne-bah Clara Curley, now Clara Curley Antonio Allot. 062701 Magnolia Petroleum Company 12½ 87½	14.28571
20	1-149-IND -8473	SW/4 25-27N-9W	160.00	Martin Hanotah, or George Curley Allot. 062700 Magnolia Petroleum Company 12½ 87½	14.28571
					<u>100.00000</u>

Dallas, Texas  
March 1, 1954

OIL AND GAS SUPERVISOR (7)  
UNITED STATES GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

COMMISSIONER OF PUBLIC LANDS (2)  
STATE OF NEW MEXICO  
SANTA FE, NEW MEXICO

OIL CONSERVATION COMMISSION (2)  
STATE OF NEW MEXICO  
SANTA FE, NEW MEXICO



Re: HUERFANITO UNIT  
San Juan County, New Mexico

Gentlemen:

I am attaching herewith an Application for Designation of the Initial Participating Area, First Enlargement and Second Enlargement, in the Huerfanito Unit.

If these applications are in order, I will appreciate your prompt approval thereof.

We have delayed in sending you a Revised Plan of Development, since it is our understanding that at least one of the Turner wells, located either in the Northwest or Southeast Quarter of Section 26 is being considered for hydrafrac operations. The outcome of this test will effect our future plans. Upon conclusion of this test we will file a new Plan of Development with you for approval.

Very truly yours,

MAGNOLIA PETROLEUM COMPANY

A handwritten signature in cursive script that reads "H. H. Beeson".

H. H. Beeson

HHB:eb  
Attach

Copy - All Huerfanito Unit Operators

APPLICATION FOR DESIGNATION OF INITIAL  
PARTICIPATING AREA AND FIRST AND SECOND  
ENLARGEMENTS FOR THE PICTURED CLIFF ZONE  
HUERFANITO UNIT, SAN JUAN COUNTY, NEW MEXICO

I Section No. 943

February 8, 1954

OIL AND GAS SUPERVISOR  
UNITED STATES GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

COMMISSIONER OF PUBLIC LANDS  
STATE OF NEW MEXICO  
SANTA FE, NEW MEXICO

OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO  
SANTA FE, NEW MEXICO

In compliance with Section 11 of the Unit Agreement for the Development and Operation of the Huerfanito Unit Area, San Juan County, New Mexico, we submit herewith for your consideration a request for approval of the Initial Pictured Cliffs Participating Area and First and Second Enlargements thereof.

The land involved and the well data on which the request is based is as follows:

Initial Participating Area	Proven Productive by	Description	Effective Date
	Skelly Oil Company Gentle A No. 1 Located 1090' FNL & 1090' FWL Section 24-27N-9W Commenced 1-21-53 Completed 3-3-53 For 640,000 cubic ft. of gas per day Total Depth 2141'	NW $\frac{1}{4}$ Sec. 24-27N-9W	3-3-53
First Enlargement	J. Glenn Turner Gentle No. 1 Located 990' FNL & 1650' FEL Section 26-27N-9W Commenced 9-11-53 Completed 10-14-53 For 345,000 cubic ft. of gas per day Total Depth 2188'	NE $\frac{1}{4}$ Sec. 26-27N-9W	10-1-53

Second  
Enlargement

Magnolia Petroleum Co.  
Clara Curley No. 1  
Located 790' FNL &  
790' FWL  
Section 25-27N-9W  
Commenced 11-27-53  
Completed 12-13-53  
For 578,000 cubic ft.  
of gas per day  
Total Depth 2100'

SE $\frac{1}{4}$  Sec. 23  
SW $\frac{1}{4}$  Sec. 24  
W $\frac{1}{2}$  Sec. 25-27N-9W

12-1-53

The percentage of unitized substances applicable to the participating area should be allocated as shown on the attached plat marked Exhibit A and schedules marked Exhibit B, B-1 and B-2.

It is requested that the Initial Pictured Cliffs Participating Area and the First and Second Enlargements thereof be approved to be effective as of the dates indicated above.

Yours very truly,

MAGNOLIA PETROLEUM COMPANY  
Unit Operator

By H. W. Beeson

Approved this 5th day of March, 1954

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

BY:

R. R. Jourrier  
Secretary

EXHIBIT "B"

<u>Tract No.</u>	<u>Serial No.</u>	<u>Lease Description</u>	<u>Number Acres</u>	<u>Ownership and Percentages</u>	<u>Lease Participation</u>
4	SF 078356	NW $\frac{1}{4}$ 24-27N-9W	160.00	U.S.A. 12 $\frac{1}{2}$ Skelly Oil Co. 84 $\frac{1}{2}$ Glenn R. Gentile 3	100%

EXHIBIT "B-1"

<u>Tract No.</u>	<u>Serial No.</u>	<u>Lease Description</u>	<u>Number Acres</u>	<u>Ownership and Percentages</u>	<u>Lease Participation</u>
4	SF 078356	NW $\frac{1}{4}$ 24--27N-9W	160.00	U.S.A. 12 $\frac{1}{2}$ Skelly Oil Co. 84 $\frac{1}{2}$ Glenn R. Gentile 3	50%
5	SF 078356-A	NE $\frac{1}{4}$ 26--27N-9W	160.00	U.S.A. 12 $\frac{1}{2}$ Three States Natural Gas Co. 85 $\frac{1}{2}$ Glenn R. Gentile 2	50%

EXHIBIT "B-2"

<u>Tract No.</u>	<u>Serial No.</u>	<u>Lease Description</u>	<u>Number Acres</u>	<u>Ownership and Percentages</u>	<u>Lease Participation</u>
4	SF 078356	NW $\frac{1}{4}$ 24-27N-9W SE $\frac{1}{4}$ 23-27N-9W	320.00	U.S.A. 12 $\frac{1}{2}$ Skelly Oil Co. 84 $\frac{1}{2}$ Glenn R. Gentle 3	33.33333
5	SF 078356-A	NE $\frac{1}{4}$ 26-27N-9W	160.00	U.S.A. 12 $\frac{1}{2}$ Three States Natural Gas Co. 85 $\frac{1}{2}$ Glenn R. Gentle 2	16.66666
18	1-149-IND -8467	SW $\frac{1}{4}$ 24-27N-9W	160.00	Kay-ne-pah Allot. 062702 12 $\frac{1}{2}$ F. D. Jernigan 87 $\frac{1}{2}$	16.66667
20	1-149-IND -8473	NW $\frac{1}{4}$ 25-27N-9W	160.00	Man-ne-bah Clara Curley, now Clara Curley Antonio Allot. 062701 12 $\frac{1}{2}$ Magnolia Petroleum Co. 87 $\frac{1}{2}$	16.66667
20	1-149-IND -8473	SW $\frac{1}{4}$ 25-27N-9W	160.00	Martin Hanotah, or George Curley Allot. 062700 12 $\frac{1}{2}$ Magnolia Petroleum Co. 87 $\frac{1}{2}$	16.66667