

El Paso Natural Gas Company

El Paso, Texas

October 9, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

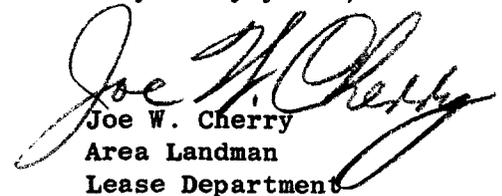
Re: Lindrith Unit Area, I Sec. No. 713
Rio Arriba County, New Mexico
DRILLING PROGRAM FOR 1956

Gentlemen:

We wish to advise that the 1956 Drilling Program for the captioned unit was approved by the Federal and State regulatory bodies as follows:

1. Regional Oil and Gas Supervisor, United States Geological Survey; Approved August 9, 1956.
2. Commissioner of Public Lands of the State of New Mexico; Approved July 20, 1956.
3. Oil Conservation Commission of the State of New Mexico; Approved October 1, 1956.

Very truly yours,


Joe W. Cherry
Area Landman
Lease Department

JWC:pb

cc: Delhi-Taylor Oil Corporation

Magnolia Petroleum Company

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case # 159
f

159

October 1, 1956

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**El Paso Natural Gas Company
El Paso, Texas**

Attention: Mr. R. L. Hamblin

**Re: (Lindrith Unit Area)
Rio Arriba County, New Mexico
1956 Drilling Program**

Gentlemen:

This is to advise that the 1956 Drilling Program for the subject unit area 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 program is returned herewith.

Very truly yours,

**A. L. Porter, Jr.
Secretary-Director**

ALP:DSN:jh

*BCC USGS Ror
Comm Pub Lands SF*



RECEIVED OFFICE OGC
AUG 9 1956 PM 1:13

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 6721
Roswell, New Mexico

August 9, 1956

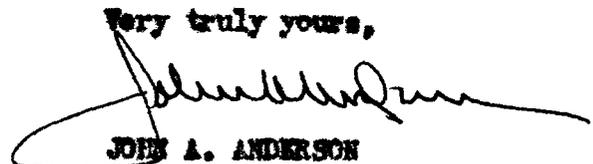
El Paso Natural Gas Company
Box 1492
El Paso, Texas

Gentlemen:

The plan of development dated July 18, 1956, for the Lindrith unit area, New Mexico, I-Sec. No. 713, has been approved on this date, subject to like approval by the appropriate State officials.

Two approved copies of said plan are returned herewith.

Very truly yours,



JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Genl. Div., Wash (w/1 copy of plan)
Farmington (w/1 copy of plan)
OGC, Santa Fe (1r only)

MAIL OFFICE OCC
RECEIVED JUL 20 AM 8:20

July 20, 1956

In reply refer to:
Unit Division

El Paso Natural Gas Co.
El Paso, Texas

Re: Lindroth Unit Agreement -
Rio Arriba County, N. Mex.,
Drilling Program for 1956

Attention: Mr. R. L. Hamblin, Manager
Lease Department

Gentlemen:

We are enclosing one copy of the Drilling Program for 1956 for the Lindroth Unit Agreement, which was approved by the Commissioner of Public Lands July 17, 1956.

This approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

E. S. WALKER
Commissioner of Public Lands

MMR/m
enc: 1

cc: USGS-Roswell
OCC-Santa Fe

El Paso Natural Gas Company

SEP 19 1956

El Paso, Texas

September 19, 1956

Oil Conservation Commission
of the State of New Mexico
Post Office Box 371
Santa Fe, New Mexico

Re: Lindrith Unit Area
I Sec. No. 713
Rio Arriba County, New Mexico
Drilling Program for 1956

Gentlemen:

Under date of July 13, 1956, El Paso Natural Gas Company as Unit Operator for the captioned unit submitted for your approval a Drilling Program for the calendar year 1956. At this writing, the proposed Drilling Program has been approved by the Commissioner of Public Lands of the State of New Mexico and by the Director of the United States Geological Survey. Our files, however, do not reveal that the Drilling Program has been approved by the Oil Conservation Commission of the State of New Mexico.

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

Very truly yours,


Joe W. Cherry
Area Landman
Lease Department

JWC:pb

El Paso Natural Gas Company

El Paso, Texas

August 14, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: Lindrith Unit Area, I Sec. No. 713
Rio Arriba County, New Mexico
DRILLING PROGRAM FOR 1956

Gentlemen:

Under date of July 18, 1956, we submitted for your approval a Drilling Program for the calendar year 1956 for the captioned unit. In our letter we described two wells which had been reworked and completed in 1955 upon lands committed to the unit. One of these wells was the Hammond-Federal #1 which was described as being located in the SE/4 of Section 22, Township 25 North, Range 2 West. We wish to advise that the description was in error and should have read the SE/4 of Section 22, Township 24 North, Range 3 West.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By James C. Vandiver
James C. Vandiver
Area Landman
Lease Department

RLH:JWC:eb

cc: Magnolia Petroleum Company
Delhi-Taylor Oil Corporation

MAIN OFFICE *El Paso Natural Gas Company*

REG. TEL. LD. AM 8:07

El Paso, Texas

July 18, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: Lindrith Unit Area, I Sec. No. 713
Rio Arriba County, New Mexico
DRILLING PROGRAM FOR 1956

Gentlemen:

During the calendar year 1955, El Paso Natural Gas Company, with the approval of the Unit Operator, Magnolia Petroleum Company, drilled four (4) wells to the Pictured Cliffs Formation in the captioned unit. The following wells were completed upon lands committed to this Unit:

<u>Well Name</u>	<u>Drilling Tract</u>	<u>Initial Potential MCFGPD</u>
Lindrith Unit #1	SE $\frac{1}{4}$ Sec. 20, T-24-N, R- 2 -W	3132
Lindrith Unit #2	SW $\frac{1}{4}$ Sec. 13, T-24-N, R-3-W	2416
Lindrith Unit #3	NW $\frac{1}{4}$ Sec. 16, T-24-N, R-3-W	13601
Lindrith Unit #4	NW $\frac{1}{4}$ Sec. 3, T-24-N, R-3-W	217

During the calendar year 1955, El Paso Natural Gas Company, with the permission of the Unit Operator, Magnolia Petroleum Company, completed the re-working of two (2) wells in the captioned unit. The wells re-worked and completed upon lands committed to this unit are as follows:

<u>Well Name</u>	<u>Drilling Tract</u>	<u>Initial Potential MCFGPD</u>
Marron-Federal #1	NE $\frac{1}{4}$ Sec. 7, T-24-N, R-2-W	134
Hammond-Federal #1	SE $\frac{1}{4}$ Sec. 22, T- 25 -N, R-2-W	224

Seven (7) wells have been drilled to the Pictured Cliffs Formation upon lands committed to the Unit. This includes the Ingwerson-Federal #3 well located in the SE/4 of Section 21, Township 24 North, Range 2 West, which had been previously drilled by the Unit Operator and had an IP of 60 MCFGPD. None of these wells are producing into El Paso's gathering system.

Under date of May 5, 1956, the Commissioner of Public Lands of the State of New Mexico approved the Designation of Successor Unit Operator for the Lindrith Unit Area, and subsequent thereto on June 28, 1956, the Acting Director of the United States Geological Survey approved the Designation of Successor Unit Operator for the Lindrith Unit Area, naming El Paso Natural Gas Company as the Unit Operator.

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a drilling program for the calendar year 1956 consisting of four (4) wells to be drilled to the Pictured Cliffs Formation, such drilling program to constitute all of our drilling obligations for such year. These proposed drilling sites are listed below as follows:

<u>Well Name</u>	<u>Drilling Tract</u>	<u>Formation</u>
Lindrith Unit #5	SE $\frac{1}{4}$ Sec. 19, T-24-N, R-2-W	Pictured Cliffs
Lindrith Unit #6	NE $\frac{1}{4}$ Sec. 14, T-24-N, R-3-W	Pictured Cliffs
Lindrith Unit #7	SW $\frac{1}{4}$ Sec. 21, T-24-N, R-2-W	Pictured Cliffs
Lindrith Unit #8	NW $\frac{1}{4}$ Sec. 15, T-24-N, R-3-W	Pictured Cliffs

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Pictured Cliffs wells to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing of 9-5/8" will be set to approximately 100' from the surface and then a production string of 5-1/2" casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for perforating and completing in the Pictured Cliffs Formation. The entire Pictured Cliffs Formation will be selectively perforated and subjected to a sand-water fracturing process. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their requests for additional drilling.

If this Drilling Program is acceptable, please signify your approval of this Drilling Program 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.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin, Manager
Lease Department

RLH:JWC:pb

cc: Magnolia Petroleum Company

Delhi-Taylor Oil Corporation

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 Oil Conservation Commission.

APPROVED: *A. J. Carter* _____
Oil Conservation Commission

Date: 10-1-56

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

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

#159

June 20, 1955

file

C
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Magnolia Petroleum Company
Roswell, New Mexico

Attention: Mr. S. P. Hannifin

Re: Lindrith Unit Area
Rio Arriba County, N.M.
Plan of Development

Gentlemen:

This is to advise that your request for extension of time in which to commence drilling four Pictured Cliffs wells in the above-captioned unit area has been approved this date.

Subject to like approval by the U. S. Geological Survey and by the Commissioner of Public Lands of the State of New Mexico, you are hereby authorized to delay drilling the first of the four wells until August 1, 1955, with the understanding that all four of the wells proposed in your March 11, 1955 Supplemental Plan of Development are to be completed by December 31, 1955.

One approved copy of your request for extension of time is herewith returned.

Very truly yours,



W. B. MACEY, Secretary-Director

WBM/ir

cc: U. S. G. S. Roswell, New Mexico
Commissioner of Public Lands - Santa Fe, New Mexico

Enclosure (1)

MAGNOLIA PETROLEUM COMPANY

A SOCONY-VACUUM COMPANY

Roswell, New Mexico
May 20, 1955

file

The 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

*approved
June 20*

Re: Lindrith Unit
RIO ARRIBA COUNTY, N. M.

Gentlemen:

Please refer to our Plan of Development for the Lindrith Unit which was filed with your office under date of January 1, 1955 in which Plan of Development we proposed to drill two Pictured Cliff wells; the first to be commenced on or before April 1, 1955 and the second well within 30 days after the completion of the first well and that, after these wells were drilled, we would file an additional Plan of Development for the balance of the year 1955.

Then under date of March 11 we asked you for a 30 day extension of the time in which to start the first well and we stated we would agree to drill or cause to be drilled four Pictured Cliff wells before the end of the year 1955.

The El Paso Natural Gas Company have taken over the obligation of drilling the above described four wells and have requested us to ask your approval of the extension of time in which to start the first well to August 1, 1955 and state that they will drill the four wells agreed upon before the end of the year 1955.

OK

We respectfully ask your approval of the extension of time in which to start the first well under the Plan of Development of the Lindrith Unit filed January 1, 1955 to August 1, 1955.

Very truly yours,

MAGNOLIA PETROLEUM COMPANY

By


S. P. Hannifin

SPH:ga

cc: Mr. P. E. Haralson
Mr. G. W. Stell
Magnolia Petroleum Company
Dallas, Texas

cc: Mr. J. Glenn Turner
1711 Mercantile Bank Building
Dallas, Texas

cc: El Paso Natural Gas Company
El Paso Natural Gas Company Building
El Paso, Texas

Approved..... 6/2019 55


.....
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

THIS APPROVAL GRANTED SUBJECT TO LIKE APPROVAL
BEING GRANTED BY THE UNITED STATES GEOLOGICAL
SURVEY AND BY THE COMMISSIONER OF PUBLIC LANDS
OF THE STATE OF NEW MEXICO.

May 26, 1955

Magnolia Petroleum Company
P.O. Box 662
Roswell, New Mexico

Re: Lindrith Unit
Rio Arriba County, N. Mex.

file

Gentlemen:

The supplemental plan of development dated May 20, 1955 for the Lindrith Unit Area, has been approved on this date, subject to approval by the New Mexico Oil Conservation Commission, as the United States Geographical Survey approved said plan on May 24, 1955.

The supplemental plan amends a prior plan only as to extension of time in which to start the first of the four wells to be drilled on August 1, 1955.

Very truly yours,

[Handwritten signature]

E. S. WALKER
Commissioner of Public Lands

cc: USGS
OCC

MR:m

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721
Roswell, New Mexico

May 24, 1955

Magnolia Petroleum Company
P. O. Box 642
Roswell, New Mexico

file

Gentlemen:

The supplemental plan of development dated May 20, 1955, for the Lindrith unit area, New Mexico, I-Sec. No. 713 has been approved on this date, subject to like approval by the appropriate State officials.

The supplemental plan amends a prior plan only as to the commencement date of the first of the four wells to be drilled during the calendar year.

Three approved copies of said plan are returned herewith.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Enclosure

Copy to: Cons. Div. - Washington (w/1 copy of plan)
Farmington (w/1 copy of plan)
BROCC, Santa Fe (ltr. only) ✓

John

March 23, 1955

Mr. S. P. Hannifin
Magnolia Petroleum Company
Roswell, New Mexico

157

Lindrith Unit Agreement
Rio Arriba County, New Mexico

Plan of Development 1955

Dear Sir:

Your letter of March 11, 1955 requesting an extension of time to May 1, 1955 in which to start the first well for the Plan of Development for the Lindrith Area is hereby approved, subject to like approval by the Oil Conservation Commission and the United States Geological Survey.

Very truly yours,



E. S. WALKER
COMMISSIONER OF PUBLIC LANDS

cc Oil Conservation Commission ✓
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

RTT/t

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NEW OFFICE COC

P. O. Box 6721
Roswell, New Mexico

March 22, 1955

Magnolia Petroleum Co.
P. O. Box 662
Roswell, New Mexico

Gentlemen:

Your letter dated March 11, 1955, relating to the Lignith unit area, New Mexico, amends the plan of development heretofore approved for the calendar year 1955.

The plan of development as amended is acceptable and has been approved on this date subject to like approval by the appropriate State officials.

One copy of the letter with our approval indicated thereon is returned herewith.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

March 22, 1955

C
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Y

Magnolia Petroleum Company
Roswell, New Mexico

Attention: Mr. S. P. Hanniffin

file case 15-9
Re: 1955 Plan of Development
Lindrith Unit Area
Rio Arriba County, New Mexico

Gentlemen:

Reference is made to your letter of March 11, 1955. This is to advise that the New Mexico Oil Conservation Commission has this date approved the requested extension of time in which to commence the first well to be drilled under the 1955 Plan of Development for the subject area.

Said extension is being granted in order that the operator may avoid additional expense and hardship owing to the possibility of inclement weather in the Lindrith Unit Area around the first of April.

Under the terms of the time extension it is understood that the first well will be commenced on or before May 1, 1955, and that unit operator will drill or cause to be drilled four Pictured Cliffs wells in the Lindrith Unit Area during 1955.

One approved copy of the application for extension is herewith returned.

Very truly yours,

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

WBM;jh

cc: USGS--Roswell
Commissioner of Public Lands, Santa Fe

MAGNOLIA PETROLEUM COMPANY

A SOCONY-VACUUM COMPANY

51 Roswell, New Mexico
March 11, 1955

The 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: Lindrith Unit
RIO ARRIBA COUNTY, N. M.

Gentlemen:

Please refer to our Plan of Development for the Lindrith Unit which was filed with your office under date of January 1, 1955.

In this Plan of Development for the Pictured Cliff Zone we proposed to drill two Pictured Cliff wells; the first to be commenced on or before April 1, 1955 and the second within 30 days after the completion of the first and that within 30 days after the completion of the second well we would file a Plan of Development for the balance of the year 1955.

We now find ourselves in the position of not being able to start the first well by the first of April without causing a great deal of additional expense and hardship owing to the possibility of inclement weather around the first of April.

We ask for a 30 day extension of time in which to start the first well making it on or before May 1, and we will agree to drill or cause to be drilled four Pictured Cliff wells before the end of the year 1955.

We respectfully ask your approval of this 30 day extension in time.

Approved..... *Mar 22*1955

Very truly yours,

MAGNOLIA PETROLEUM COMPANY

copy/s/ WPM
.....
Secretary-Director

By *S. P. Hannifin*
S. P. Hannifin

NEW MEXICO OIL CONSERVATION COMMISSION

SPH:ga THIS APPROVAL GRANTED SUBJECT TO LIKE APPROVAL
BEING GRANTED BY THE UNITED STATES GEOLOGICAL
SURVEY AND BY THE COMMISSIONER OF PUBLIC LANDS
OF THE STATE OF NEW MEXICO.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721
Roswell, New Mexico

February 3, 1955

file
Page 157

Magnolia Petroleum Co.
Box 662
Roswell, New Mexico

Gentlemen:

The plan of development dated January 1, 1955, for the Lindrith unit area, New Mexico, I-sec. No. 713, for the calendar year 1955 has been approved on this date, subject to like approval by the appropriate State officials.

One approved copy of said plan of development is returned herewith.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

AK

January 24th, 1955

*file
case 159*

Magnolia Petroleum Company
Roswell, New Mexico

Attention Mr. S. P. Hanniffin

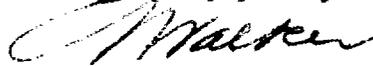
Re: Lindrith Unit
Rio Arriba County, New Mexico
1955 Plan of Development

Gentlemen:

This is to advise that the Plan of Development for the Lindrith Unit for the calendar year 1955, dated January 1, 1955 has this day been approved subject to like approval by the United States Geological Survey, Oil and Gas Supervisor and by the Oil Conservation Commission.

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

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

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OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 14, 1955

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**Magnolia Petroleum Company
Roswell, New Mexico**

Attention: Mr. S. P. Hannifin

**Re: Lindrith Unit
Rio Arriba County, New Mexico
1955 Plan of Development**

Gentlemen:

This is to advise that the Plan of Development for the Lindrith Unit for the calendar year 1955, dated January 1, 1955, has this date been approved by the New Mexico Oil Conservation Commission subject to the following conditions:

- 1. That the two proposed Pictured Cliffs wells be drilled on locations approved by appropriate Federal and State officials, pursuant to Paragraph 9 of the Unit Agreement.**
- 2. That this Plan of Development for the calendar year 1955, receive like approval by the Oil and Gas Supervisor, United States Geological Survey, and by the Commissioner of Public Lands of the State of New Mexico.**

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

Very truly yours,

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

WBM
WBM:jh

cc: U. S. Geological Survey, Roswell

Commissioner of Public Lands, Santa Fe

MAIN OFFICE COPY

MAIN OFFICE COPY

Roswell, New Mexico
January 3, 1955

68-3125

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

OK
2 PC Wells
in '55
file
case 159

Dear Sir:

We are enclosing Plan of Development for the Period
Commencing January 1, 1955 on our Lindrith Unit in Rio Arriba
County, New Mexico, as follows:

Four copies - Oil and Gas Supervisor
United States Geological Survey

Two copies each - Commissioner of Public Lands
and the Oil Conservation
Commission, State of New Mexico

We respectfully submit this Plan of Development for your
approval.

Very truly yours,

MAGNOLIA PETROLEUM COMPANY

Original Signed By
S. P. HANNIFIN

By S. P. Hannifin

SPH:ga
Encls.

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

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

claw

PLAN OF DEVELOPMENT FOR THE PERIOD COMMENCING
January 1, 1955
LINDRITH UNIT
RIO ARRIBA COUNTY, NEW MEXICO

The 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

*Approved
Jan 14, 1955*

Magnolia Petroleum Company as Operator in compliance with Section 9 of the "Unit Agreement and Operation of the Lindrith Unit Area, Rio Arriba County, New Mexico", dated December 9, 1948, approved by the Acting Director, United States Geological Survey, April 3, 1950, I Sec. No. 713, hereby submits our plan of development for said Unit as follows:

I - Past Development History - Dakota Zone

Four wells have been drilled, viz:

✓ 1. Ingwersen-Federal No. 1 (formerly Delhi Oil Corp. No. 1 Ingwersen) in the Center of the $SE\frac{1}{4}SE\frac{1}{4}$ Section 20 24N-2W, commenced June 7, 1949, initially completed December 31, 1949, pumped 112 barrels 41.5 Gravity (A.P.I.) oil per day. Began deviated hole operating September 19, 1950, completed April 24, 1951, pumped 68.97 barrels of 43.3 Gravity (A.P.I.) oil and 13.32 barrels of fresh water in 24 hours from the Dakota Zone. Now producing approximately 11 barrels of oil and 45 barrels of water per day.

✓ 2. Delhi-Nolting-Federal No. 1 (formerly Delhi Oil Corp. No. 1 Nolting-Federal) in the Center of the $SE\frac{1}{4}NE\frac{1}{4}$ Section 29-24N-2W, commenced May 14, 1950, completed September 22, 1950 as a dry hole from the depth of 7661 feet in the Morrison Zone. Re-work operations attempted from March 30, 1954 to April 6, 1954. Unable to get tools back into 7" casing. Well re-plugged and abandoned April 6, 1954.

✓ 3. Ingwersen-Federal No. 2 (formerly Ingwersen-Federal "B" No. 1) in the Center of the $SW\frac{1}{4}$ of $SW\frac{1}{4}$ Section 21-24N-2W, commenced January 6, 1952, completed May 20, 1952, total depth 7365 feet, dry and abandoned.

✓ 4. Ingwersen-Federal No. 4 in the Center of the $SW\frac{1}{4}$ $SE\frac{1}{4}$ Section 20-24N-2W, commenced December 7, 1953, completed March 15, 1954, total depth 8464 feet, dry and abandoned.

II - Past Development History Pictured Cliff Zone

Four wells have been drilled, viz:

1. Hammond-Federal No. 1 in the Center of the SE $\frac{1}{4}$ Section 22-24N-3W, commenced January 1, 1952, completed March 3, 1952, total depth 3290 feet, initial potential 44 MCF gas, now shut-in for lack of market.

2. Marron-Federal No. 1 in the Center of the NE $\frac{1}{4}$ of Section 7-24N-2W, commenced January 4, 1952, completed May 27, 1952, total depth 3475 feet, initial potential 26 MCF gas, shut-in for lack of market.

3. Ingwersen-Federal No. 3 (formerly Ingwersen-Federal "B" No. 2) in the Center of SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 21-24N-2W, commenced September 25, 1952, completed November 17, 1952, total depth 3190 feet, initial potential 60 MCF gas, now shut-in, studying for abandonment.

4. Owen-Federal No. 1 in the Center of NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 9-24N-2W, commenced May 12, 1953, completed July 6, 1953, total depth 3450 feet, dry and abandoned.

III - Plan of Development for the Dakota Zone

No development planned at this time due to past disappointing results. Geological study will be continued.

IV - Plan of Development for the Pictured Cliff Zone

We plan to drill two Pictured Cliff wells; the first to be commenced on or before April 1, 1955; the second to be commenced within 30 days after completion of the first. Within 30 days after completion of the second well, we plan to file a Plan of Development for the balance of the year 1955. The reason we propose to wait until April 1st to commence the first well is due to the prevailing inclement weather conditions in that part of the state.

V - Spacing of Wells

160-Acre spacing.

VI - Well Casing Program

10-3/4" casing at approximately 250 feet.
7" casing at approximately 3200 feet.

VII - Offset Obligations

The Unit operator, on behalf of itself and other owners of working interests will take appropriate and adequate measures to prevent drainage from lands subject to the Lindrith Unit Agreement by wells on lands not subject to said agreement, or pursuant to applicable regulations, pay a fair and reasonable compensatory royalty as determined by the Federal Oil and Gas Supervisor as to Federal lands, or the Commissioner of Public Lands as to State lands.

VIII - Further Development

The plan of development as outlined herein shall constitute the future drilling obligations of said Unit Agreement from January 1, 1955 until 30 days after completion of the aforementioned two Pictured Cliff wells. It is further agreed that within 30 days after completion of the second of these two wells, another Plan of Development shall be submitted for approval for future development of the Unit.

IX - Effective Date

This plan of development shall be effective January 1, 1955.

X - Modifications

This plan of development may be modified, with necessary approval to meet changing conditions.

MAGNOLIA PETROLEUM COMPANY
UNIT OPERATOR

By E. L. Downing

APPROVED 1/14 1955
W. W. M.
SECRETARY-DIRECTOR
New Mexico Oil Conservation Commission

Approved subject to certain conditions as outlined in attached letter of transmittal.

- Conditions of approval:
1. That the two P.C. wells be drilled on approved locations
 2. That like approval for the Plan of Dev. be obtained from U.S.G.S + the Comm. of Public Lands



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

1954 SEP 24 10 11 AM
MAIL ROOM
Box 6721
Roswell, New Mexico

September 24, 1954

Magnolia Petroleum Company
Box 662
Roswell, New Mexico

Gentlemen:

The plan of development dated September 22, 1954, for the remainder of the calendar year 1954 for the Lindrith unit area, New Mexico, I-Sec. No. 713, has been approved on this date subject to like approval by the Commissioner of Public Lands, State of New Mexico and the New Mexico Oil Conservation Commission.

One approved copy of said plan is returned herewith.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Cons.Div., Wash., D.C. (w/1 copy of Plan)
N.M.O.C.C., Santa Fe

159

W. B. Macey

MAGNOLIA PETROLEUM COMPANY

A SOCONY-VACUUM COMPANY

Roswell, New Mexico

September 22, 1954

RECEIVED PH 1:22

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

Attention: Mr. W. B. Macey

Re: Lindrith Unit
RIO ARRIBA COUNTY, New Mexico

Gentlemen:

We are enclosing two copies of a Plan of Development for the period ending December 31, 1954, on our Lindrith Unit in Rio Arriba County, New Mexico.

Very truly yours,

MAGNOLIA PETROLEUM COMPANY

BY


S. P. Hannifin

SPH/aw
Encls. 2

PLAN OF DEVELOPMENT FOR THE PERIOD ENDING
DECEMBER 31, 1954
LINDRITH UNIT
RIO ARRIBA COUNTY, NEW MEXICO

The 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

Magnolia Petroleum Company as Operator in compliance with Section 9 of the "Unit Agreement and Operation of the Lindrith Unit Area, Rio Arriba County, New Mexico", dated December 9, 1948, approved by the Acting Director, United States Geological Survey, April 3, 1950, I Sec. No. 713, hereby submits our plan of development for said Unit as follows:

I - Description of Participating Area

SE $\frac{1}{4}$ Section 20
W $\frac{1}{2}$ of SW $\frac{1}{4}$ Section 21
NW $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 28
N $\frac{1}{2}$ of NE $\frac{1}{4}$ Section 29, all in
Township 24 North, Range 2 West, N.M.P.M.

II - Past Development History - Dakota Zone

Four wells have been drilled, viz:

✓ 1. Ingwersen-Federal No. 1 (formerly Delhi Oil Corp. No. 1 Ingwersen) in the Center of the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 20 24N-2W, commenced June 7, 1949, initially completed December 31, 1949, pumped 112 barrels 41.5 Gravity (A.P.I.) oil per day. Began deviated hole operating September 19, 1950, completed April 24, 1951, pumped 68.97 barrels of 43.3 Gravity (A.P.I.) oil and 13.32 barrels of fresh water in 24 hours from the Dakota Zone. Now producing approximately 11 barrels of oil and 11 barrels of water per day.

✓ 2. Delhi-Nolting-Federal No. 1 (formerly Delhi Oil Corp. No. 1 Nolting-Federal) in the Center of the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 29-24N-2W, commenced May 14, 1950, completed September 22, 1950 as a dry hole from the depth of 7661 feet in the Morrison Zone. Re-work operations attempted from March 30, 1954 to April 6, 1954. Unable to get tools back into 7" casing. Well re-plugged and abandoned April 6, 1954.

3. Ingwersen-Federal No. 2 (formerly Ingwersen-Federal "B" No. 1) in the Center of the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ Section 21-24N-2W, commenced January 6, 1952, completed May 20, 1952, total depth 7865 feet, dry and abandoned.

✓ 4. Ingwersen-Federal No. 4 in the Center of the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 20-24N-2W, commenced December 7, 1953, completed March 15, 1954, total depth 8464 feet, dry and abandoned.

III - Past Development History Pictured Cliff Zone

Four wells have been drilled, viz:

✓ 1. Hammond-Federal No. 1 in the Center of the SE $\frac{1}{4}$ Section 22-24N-3W, commenced January 1, 1952, completed March 3, 1952, total depth 3290 feet, initial potential 44 MCF gas, now shut-in for lack of market.

✓ 2. Marron-Federal No. 1 in the Center of the NE $\frac{1}{4}$ of Section 7-24N-2W, commenced January 4, 1952, completed May 27, 1952, total depth 3475 feet, initial potential 26 MCF gas, shut-in for lack of market.

✓ 3. Ingwersen-Federal No. 3 (formerly Ingwersen-Federal "B" No. 2) in the Center of SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 21-24N-2W, commenced September 25, 1952, completed November 17, 1952, total depth 3190 feet, initial potential 60 MCF gas, now shut-in, studying for abandonment.

✓ 4. Owen-Federal No. 1 in the Center of NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 9-24N-2W, commenced May 12, 1953, completed July 6, 1953, total depth 3450 feet, dry and abandoned.

IV - Plan of Development for the Dakota Zone

No development planned prior to January 1, 1955 due to past disappointing results. Geological study will be continued.

V - Plan of Development for the Pictured Cliffs Zone

No development planned prior to January 1, 1955 due to past disappointing results and lack of outlet for gas.

VI - Spacing of Wells

None planned during this period.

VII - Well Casing Program

No wells planned during this period.

VIII - Offset Obligations

The Unit operator, on behalf of itself and other owners of working interests will take appropriate and adequate measures to prevent drainage from lands subject to the Lindrith Unit Agreement by wells on lands not subject to said agreement, or pursuant to applicable regulations, pay a fair and reasonable compensatory royalty as determined by the Federal Oil and Gas Supervisor as to Federal lands, or the Commissioner of Public Lands as to State lands.

IX - Further Development

The plan of development as outlined herein shall constitute the future drilling obligations of said Unit Agreement for the period ending December 31, 1954.

It is further agreed that prior to the expiration of this plan of development another plan of development shall be submitted for approval for further development of the Unit.

X - Effective Date

This plan of development shall be effective September 20, 1954.

XI - Modifications

This plan of development may be modified, with necessary approval to meet changing conditions.

MAGNOLIA PETROLEUM COMPANY
UNIT OPERATOR

By M. R. C. Bradley

159

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

August 2, 1954

C

O

P

Y

Magnolia Petroleum Company
Producing Division
P. O. Box 900
Dallas, Texas

Subject: Lindrith Unit, Rio
Arriba County, New Mexico.

Gentlemen:

A review of our file on the above captioned unit shows that the New Mexico Oil Conservation Commission has received no communication from your company regarding operations in the Lindrith Unit Area since December 10, 1951. A check of the file of the New Mexico State Land Office shows a similar situation to exist.

Under the terms of the Lindrith Unit Agreement, the director of the United States Geological Survey, the New Mexico State Land Office and the New Mexico Oil Conservation Commission are to be kept fully advised of various activities concerning the unit. I refer particularly to section eight and nine of the unit agreement.

Please see that this agency is supplied with such documents and letters as may be necessary to bring our Lindrith Unit file up to date.

Very truly yours,

W. B. Macey
Secretary - Director

WBM:jh

cc: State Land Office
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

January 2, 1952

C
O
P
Y

Mr. A. P. Avant
Lindrith, New Mexico

Dear Mr. A vant:

Enclosed please find copy of a letter from Magnolia
Petroleum Company, which is self-explanatory.

I had hoped to attend the meeting which Mr. Ruerkhaus
had invited me to at Lindrith last month. However, unforeseen
events prevented me from attending at the last minute.

If you feel there is any way in which we may be of
assistance to you, please let us know.

Very truly yours,

RRS:W

Secretary and Director

STATE OF NEW MEXICO
OFFICE OF STATE GEOLOGIST
SANTA FE, NEW MEXICO

December 17, 1951

C

Mr. A. E. Chester
Vice President and Manager
Magnolia Petroleum Company
Dallas, Texas

O

Re: Plan of Development - Lindrith Unit Agreement
RIO ARRIBA COUNTY, New Mexico

P

Dear Sir:

Y

After duly weighing the matters relating to the development of the Lindrith Unit Agreement and taking cognizance of your letter of December 10, 1951 to Mr. Foster Morrell of the United States Geological Survey, the Oil Conservation Commission does not believe it will be feasible to grant the extension of time that you request.

Very truly yours,

bpw

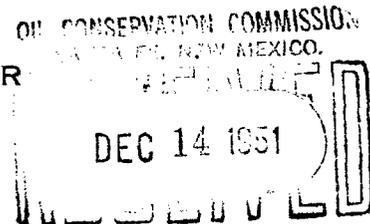
Secretary and Director



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 997
Roswell, New Mexico

IN REPLY REFER TO:



December 12, 1951

Case 159

Mr. A. E. Chester
Vice President and Manager
Magnolia Petroleum Company
Dallas 1, Texas

Subject: Plan of Development - Lindrith Unit
Agreement, Rio Arriba County,
New Mexico.

Dear Mr. Chester:

Reference is made to your letter of December 10 requesting a delay until the spring of 1952 as weather and road conditions permit for commencement of three wells on the Lindrith Unit area as provided in the Plan of Development for the year 1951, approved November 8.

We recognize that unusually heavy snowfalls during the past week in the area of the Lindrith unit may cause some delay in normal well operations at this time. However, weather conditions in New Mexico are subject to such variance that you may find that drilling can be commenced and continued without unusual delay or expense at a later date.

A unit operator has the responsibility for operations in the entire unit area and must recognize and perform its duties to the best interests of all parties and not the preference of the operating company alone. Furthermore, unjustified delays in development usually are reflected in the hesitancy of others to cooperate in joining other subsequent units proposed by that unit operator.

The possibility of some temporary delay in drilling due to adverse weather conditions was considered by this office when your Plan of Development for the year 1951 was submitted providing for the commencement of two Pictured Cliff zone wells and one Dakota-Morrison zone well prior to December 31, 1951, but your representatives indicated it could and would be done, so no official question was raised. If other operators can continue operations in the same general area there would appear to be no reason to exempt Magnolia alone.

With these thoughts in mind, no action will be taken until December 31, 1951 on your application of December 10 for extension of time to commence the drilling of wells provided in the above mentioned

At that time, consideration will be given to your application based on weather and road conditions then existing. In any event, it appears to this office that every effort should be made to commence as many of the scheduled wells as possible in order to show evidence of good faith.

Very truly yours,

COPY (Original Signed) Foster Morrell

FOSTER MORRELL
Oil and Gas Supervisor
Southwestern Region

cc: Commissioner of Public Lands
Santa Fe, New Mexico

Oil Conservation Commission ✓
Santa Fe, New Mexico

Magnolia Petroleum Company
Roswell, New Mexico

MAGNOLIA PETROLEUM COMPANY

A SOCONY-VACUUM COMPANY

PRODUCING DIVISION

DALLAS 1, TEXAS

A. E. CHESTER
VICE PRESIDENT AND MANAGER
M. V. C. BRADLEY
ASSISTANT MANAGER
E. L. DOWNING
GENERAL SUPERINTENDENT
S. C. McFARLANE
ASSISTANT TO THE MANAGER

December 10, 1951

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

DEC 12 1951

Mr. Foster Morrell
Regional Oil and Gas Supervisor
U. S. Department of the Interior
Geological Survey
P.O. Box 997
Roswell, New Mexico

Re: Plan of Development - Lindrith Unit Agreement
RIO ARRIBA COUNTY, New Mexico Case 159

Dear Mr. Morrell:

By letter of November 8, 1951 you approved a plan of development of the above noted Unit for the year 1951.

The aforementioned plan of development of this Unit provided that prior to December 31, 1951 we commence the drilling of a well to test the Dakota Zone in the Center of the SW/4 SW/4 of Section 21-24N-2W. Location for this well has been made and it is known as our Ingversen-Federal "B" No. 1. The plan further provided that prior to December 31, 1951 we shall commence the drilling of two wells to test the Pictured Cliff Zone; said wells to be located (1) NE/4 Section 7-24N-2W, and (2) SE/4 Section 22-24N-3W. Locations for these wells have been made and they are known as our Marron-Federal No. 1 and Hammond-Federal No. 1, respectively.

All preliminary arrangements have been made for the commencing of these three wells as scheduled. At this time, however, severe winter weather prevails in the area and several inches of snow covers the ground. If we proceed with the drilling of these wells now it will be necessary to pull drilling equipment into the location with caterpillar tractors, and it will also be necessary that we maintain caterpillars at the rigs during the entire time the wells are being drilled for towing in supplies and repair items. Since the roads will be impassable, it will also be necessary that we establish a camp and provide board and lodging for the crews at the locations. In addition to inconveniences which would be imposed on the drilling crews, we estimate the drilling of these wells at this time would cost from \$75,000 to \$100,000 more than if they were drilled under normal conditions.

In view of the above, we respectfully request that you approve our delaying the commencing of the three aforementioned wells until such time in the

Mr. Foster Merrill

- 2 -

December 10, 1951

Spring of 1952 as weather and road conditions will permit us to carry on drilling operations normally.

Very truly yours,

Original signed by

A. E. CHESTER

SCM:red

cc: Commissioner of Public Lands
Santa Fe, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

MAGNOLIA PETROLEUM COMPANY

A SOCONY-VACUUM COMPANY

Roswell, New Mexico

November 19, 1951

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

Attention: Mr. R. R. Spurrier

RE: Lindrith Unit Area
Rio Arriba County, New Mexico

Gentlemen:

Thank you for your recent telephone call giving approval to our Plan of Development on the above area, which we mailed to your office on November 8.

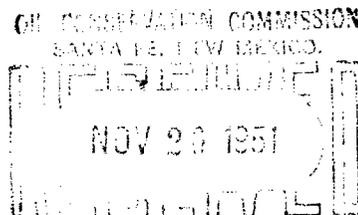
I assume that written approval will reach us in due course.

Yours very truly,

MAGNOLIA PETROLEUM COMPANY

By Brantley Jackson
Brantley Jackson

BJ:vh



STATE OF NEW MEXICO
OFFICE OF STATE GEOLOGIST
SANTA FE, NEW MEXICO

November 19, 1951

C
O
P
Y

Mr. Brantley Jackson
Magnolia Petroleum Company
Roswell, New Mexico

RE: Lindrith Unit Area,
RIO ARriba COUNTY, New Mexico,
Case 159, Order No. 794

Dear Sir:

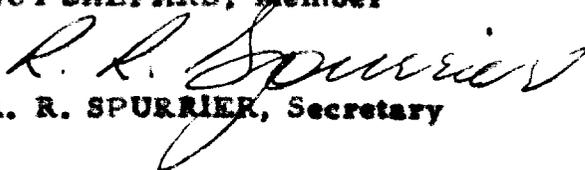
This will acknowledge receipt of your letter of November 8 with which you enclose plan of development for the Lindrith Unit Area and application for designation of initial participating area.

According to our telephone conversation, the plan and the application have been approved by the Commission effective November 15, 1951.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

GUY SHEPARD, Member


R. R. SPURRIER, Secretary



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 997
Roswell, New Mexico

November 8, 1951

Mr. M. V. C. Bradley, Assistant Manager
Producing Division
Magnolia Petroleum Company
Dallas 1, Texas

Subject: Plan of Development--
Lindrith Unit Agreement
Rio Arriba County, New Mexico

Dear Sir:

Reference is made to the plan of development for the calendar year 1951 filed in the Roswell office November 8, by you as unit operator, pursuant to Section 9 of the Lindrith unit agreement, I-Sec. No. 713, approved April 3, 1950.

The plan of development sets forth that a participating area has been proposed by you, action on which is now pending in the Department, and that you propose to commence the drilling of one well to test the Dakota zone and two wells to test the Pictured Cliffs zone on the unit area, said drilling to be commenced prior to December 31, 1951. The plan of development also sets forth a proposal for spacing of wells and a well casing and cementing program, together with the other appropriate provisions concerning offset obligations and further development. It is further provided that the plan of development shall be effective November 1, 1951.

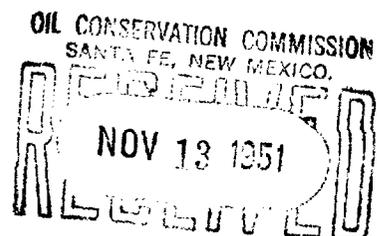
The above mentioned plan of development for the calendar year 1951 is hereby approved as an acceptable plan of development and operation for the unitized land, subject to like approval by the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission of the State of New Mexico.

Foster Morrell

FOSTER MORRELL
Regional Oil & Gas Supervisor

cc: Commissioner of Public Lands
Santa Fe, New Mexico

✓ Oil Conservation Commission
Santa Fe, New Mexico



MAGNOLIA PETROLEUM COMPANY

A SOCONY-VACUUM COMPANY

Roswell, New Mexico

November 8, 1951

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

RE: Lindrith Unit Area,
RIO ARriba COUNTY, New Mexico,
Case 159, Order 794.

Gentlemen:

As per the terms of Agreement covering the above referred to area we are attaching in duplicate the following papers:

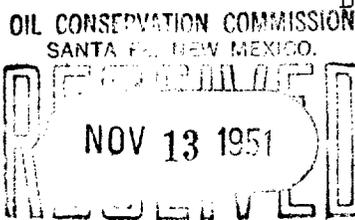
1. Plan of Development for the Calendar Year - 1951
2. Application for Designation of Initial Participating Area

If the attached meets with your approval we will thank you to return an accepted copy to us.

Yours very truly,

MAGNOLIA PETROLEUM COMPANY

BY Brentley Debra



BJ:aw

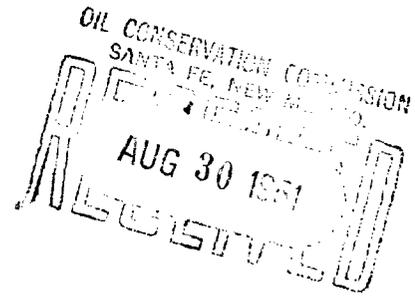
LAW OFFICES

HERVEY, DOW & HINKLE
ROSWELL, NEW MEXICO

J. M. HERVEY
HIRAM M. DOW
CLARENCE E. HINKLE
W. E. BONDURANT, JR.
GEORGE H. HUNKER, JR.

ROSS MADOLE
WILLIAM C. SCHAUER

August 28, 1951



Case 159

R. R. Spurrier, Executive Secretary
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Dear Dick:

We enclose herewith an approved copy of the Designation of Successor Unit Operator in connection with the Lindrith Unit Agreement, and under the terms of which the Magnolia Petroleum Company is designated as the successor unit operator to the Delhi Oil Corporation. You will note that this instrument has been approved both by the Commissioner of Public Lands and by the acting director of the U.S.C.S.

Yours very truly,

HERVEY, DOW & HINKLE

By *Clarence E. Hinkle*
T.M.B.

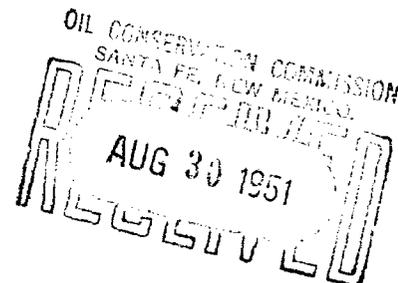
CLH:vb

Enc.

cc: Magnolia Petroleum Co.
Roswell, New Mexico

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Washington 25, D.C.



Aug. 24 1951

Magnolia Petroleum Company

Roswell, New Mexico

Gentlemen:

On August 21, 1951, Acting Director of the United States Geological Survey, Julian D. Sears, approved the instrument dated May 29, 1951, whereby you became the successor unit operator under the Lindrith Unit Agreement, Rio Arriba County, New Mexico, I-Sec. No. 713, approved April 3, 1950.

Enclosed are five approved copies of the instrument for your record. It is assumed that you will furnish the State of New Mexico or any other interested principal with whatever evidence of this approval is deemed appropriate.

The consent of surety, dated July 27, 1951, signed by the United States Fidelity and Guaranty Company, accepted by Magnolia, for continued obligation under the \$10,000 Collective Corporate Surety Bond filed in connection with operations under this unit agreement and a certified copy of General Power of Attorney No. 63703 of August 4, 1949, for the surety's attorney-in-fact are being transmitted to the Bureau of Land Management, Santa Fe, New Mexico, with its copy of this letter.

Very truly yours,

/s/ H. J. Duncan
H. J. Duncan
For the Director

Enclosures 5

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WASHINGTON, D.C.

RECEIVED
STATE LAND OFFICE

DIVISION OF CONSERVATION
JUN 29 9 23 AM '51

AUG 13 1951
SANTA FE, N. M.

Designation of Successor Unit Operator
Lindrith Unit Area
County of Rio Arriba
State of New Mexico
I-Sec. No. 713

RECEIVED
JUL 24 1951
SANTA FE, N. M.

This indenture dated as of the 29 day of

May, 1951, by and between Magnolia Petroleum Company, a corporation with offices at Dallas, Texas, hereinafter designated as "First Party", and the Delhi Oil Corporation, a Delaware corporation with offices at Dallas, Texas, and the Magnolia Petroleum Company (the Magnolia Petroleum Company joining as both first and second parties on account of owning with the Delhi Oil Corporation all unitized working interests), hereinafter designated as "Second Parties",

CONSERVATION DIVISION
AUG 13 1951
GEOLOGICAL SURVEY

W I T N E S S E T H :

WHEREAS, under the provisions of the act of February 25, 1920, 41 Stat. 437, 30 U. S. C. secs. 181, et. seq., as amended by the act of August 8, 1946, 60 Stat. 950, the Secretary did on the third day of April, 1950, approve a unit agreement for the development and operation of the Lindrith Unit Area, and

WHEREAS, under the provisions of Chapter 88 of the New Mexico Session Laws of 1933, said Unit Agreement was also approved by the Commissioner of Public Lands of the State of New Mexico, and

WHEREAS, thereafter on May 26, 1950, the Delhi Oil Corporation was designated as the successor Unit Operator to the Magnolia Petroleum Company which was originally designated as the Unit Operator in said Unit Agreement, and

WHEREAS, the said Delhi Oil Corporation is desirous of resigning as such Operator, and the parties

hereto, being the owners of all of the unitized working interests, are desirous of designating the Party of the First Part as the successor Unit Operator, and

WHEREAS, the First Party has been and hereby is designated by Second Parties as Unit Operator, and said First Party desires to assume all of the rights, duties and obligations of Unit Operator under the said Unit Agreement,

NOW THEREFORE, in consideration of the premises hereinbefore set forth, and the promises hereinafter stated, the First Party hereby covenants and agrees to fulfill the duties and obligations of Unit Operator under and pursuant to all of the terms of the Lindrith Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Commissioner of Public Lands of the State of New Mexico, and by the Director of the Geological Survey, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

ATTEST:

[Signature]
Secretary

MAGNOLIA PETROLEUM COMPANY

By A. E. Chester A. E. Chester
Vice-President First Party

ATTEST:

[Signature]
Secretary

DELHI OIL CORPORATION

By Frank A. Schulz wfc
Vice-President

ATTEST:

[Signature]
Secretary

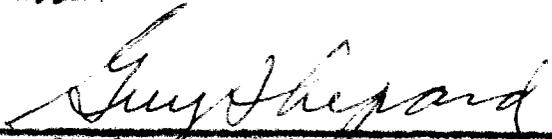
MAGNOLIA PETROLEUM COMPANY

By A. E. Chester A. E. Chester
Vice-President Second Parties

Rmm
J.F.C.

APPROVE
By
Date
Let
File
Post

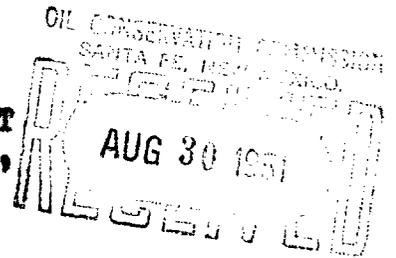
I hereby approve the foregoing indenture designating the MAGNOLIA PETROLEUM COMPANY as Unit Operator under the Unit Agreement for the development and operation of the Lindrith Unit Area this, the 10th day of July, 1951.


Commissioner of Public Lands of the
State of New Mexico

dated May 29, 1951
I hereby approve the foregoing indenture/designating the MAGNOLIA PETROLEUM COMPANY as Unit Operator under the Unit Agreement for the development and operation of the Lindrith Unit Area this, the 21st day of August, 1951.


Acting Director of United States Geological
Survey

RESIGNATION OF UNIT OPERATOR
UNDER UNIT AGREEMENT FOR THE DEVELOPMENT
AND OPERATION OF THE LINDRITH UNIT AREA,
COUNTY OF RIO ARRIBA,
STATE OF NEW MEXICO
I--Sec. No. 713



To:

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

Director
United States Geological Survey
Washington, D. C.

The undersigned, the Delhi Oil Corporation,
a Delaware Corporation with offices at Dallas, Texas,
being the duly designated, qualified and acting Unit
Operator for the development and operation of the Lindrith
Unit Area, Rio Arriba County, New Mexico, does hereby
resign as such Operator, and requests that the Magnolia
Petroleum Company be approved as the successor Unit Oper-
ator.

Dated this the 12 day of June, 1951.

DELHI OIL CORPORATION

ATTEST:

A. Petrie
Secretary

BY *Frank A. Schultz* *wp*
Vice-President

PLAN OF DEVELOPMENT FOR THE
CALENDAR YEAR - 1951
LINDRITH UNIT
RIO ARRIBA COUNTY, NEW MEXICO

The 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

Magnolia Petroleum Company as Operator in compliance with Section 9 of the "Unit Agreement and Operation of the Lindrith Unit Area, Rio Arriba County, New Mexico", dated December 9, 1948, approved by the Acting Director, United States Geological Survey, April 3, 1950, I Sec. No. 713, hereby submits our plan of development for said Unit as follows:

I - Description of Participating Area

Application for Designation, filed November, 1951 to comprise 360.00 acres, more or less, described as follows:

SE $\frac{1}{4}$ Section 20
W $\frac{1}{2}$ of SW $\frac{1}{4}$ Section 21
NW $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 28
N $\frac{1}{2}$ of NE $\frac{1}{4}$ Section 29, all in
Township 24 North, Range 2 West, N.M.P.M.

action on which is pending.

II - Past Development History - Dakota Zone

Two wells have been drilled, viz:

1. Delhi Oil Corp. No. 1 Ingwerson in the Center of the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 20-24N-2W, commenced June 7, 1949, initially completed December 31, 1949, pumped 112 barrels 41.5 Gravity(A.P.I.) oil per day. Began deviated hole operating September 19, 1950, completed April 24, 1951, pumped 68.97 barrels of 43.3 Gravity (A.P.I) oil and 13.32 barrels of fresh water in 24 hours from the Dakota Zone.

2. Delhi Oil Corp. No. 1 Nolting-Federal in the Center of the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 29-24N-2W commenced May 14, 1950, completed September 22, 1950 as a dry hole from the depth of 7661' feet in the Morrison Zone.

III - Past Development History Pictured Cliff Zone

None drilled.

IV - Plan of Development for the Dakota Zone

Commence operations for the drilling of a well, prior to December 31, 1951 to be located in the Center of the SW¹/₄SW¹/₄ Section 21-24N-2W.

V - Plan of Development for the Pictured Cliffs Zone

Commence operations for the drilling of two (2) wells, prior to December 31, 1951 to be located as follows:

1. NE¹/₄ Section 7-24N-2W
2. SE¹/₄ Section 22-24N-3W

VI - Spacing of Wells

It is planned to develop the Pictured Cliffs Zone for gas production by drilling 160 acres units, wells to be located not less than 990 feet from the outside boundary lines thereof.

It is planned to develop the Dakota Zone for oil production, wells to be located in the Center of a legal 40 acre subdivision.

VII - Well Casing Program

The following pipe program is proposed:

A. Pictured Cliff Wells - Set surface pipe approximately 200-250 feet depending upon the location and cement to the surface. Set Production String on top of Producing Zone and cement with not less than 200 sks.

B. Dakota Wells - Set surface pipe approximately 200-250 feet depending upon the location and cement to surface. Set pipe for production string on top or through the producing zone and cement back to surface using staged cementing method according to good field practice.

VIII - Offset Obligations

The Unit operator, on behalf of itself and other owners of working interests will take appropriate and adequate measures to prevent drainage from lands subject to the Lindrith Unit Agreement by wells on lands not subject to said agreement, or pursuant to applicable regulations, pay a fair and reasonable compensatory royalty as determined by the Federal Oil and Gas Supervisor as to Federal lands, or the Commissioner of Public Lands as to State lands.

IX - Further Development

The plan of development as outlined herein shall constitute the future drilling obligations of said Unit Agreement for the period ending December, 1951.

It is further agreed that prior to the expiration of this plan of development another plan of development shall be submitted for approval for further development of the Unit.

X - Effective Date

This plan of development shall be effective November 1, 1951.

XI - Modifications

This plan of development may be modified, with necessary approval to meet changing conditions.

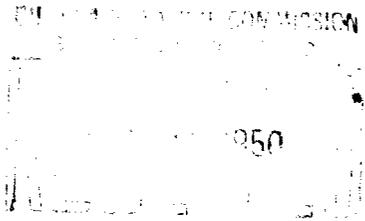
MAGNOLIA PETROLEUM COMPANY
UNIT OPERATOR

By

MVC Bud Deaf

Romm
WV
WV
J.C.

STATE LAND OFFICE
SANTA FE, NEW MEXICO



May 12, 1950

Case 159

Magnolia Petroleum Company
Producing Division
Post Office Box 900
Dallas 1, Texas

Attention of Mr. H. W. Clark

Gentlemen:

This office acknowledges receipt of Magnolia Petroleum Company's resignation as unit operator of LINDRITH UNIT AREA, Rio Arriba County, New Mexico, together with designation of unit operator which is the Delhi Oil Corporation.

Finding no objection to this change in unit operator, I have today signed original and two copies of the Delhi designation, and have forward the same to Foster Merrell of the U. S. Geological Survey, Roswell, New Mexico, with the request that upon his approval, one copy of the designation be returned to this office for our files.

Very truly yours,

GUY SHEPARD
Commissioner of Public Lands

cc. Foster Merrell
U.S. G. S., Roswell, N.M.

Steve Hannifin
Roswell, New Mexico

Delhi Oil Corporation
1315 Pacific Avenue
Dallas 1, Texas

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Y

LAW OFFICES
HERVEY, DOW & HINKLE
ROSWELL, NEW MEXICO

J. M. HERVEY
HIRAM M. DOW
CLARENCE E. HINKLE
W. E. BONDURANT, JR.
GEORGE H. HUNKER, JR.

April 11, 1950

WILLIAM C. SCHAUER

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Attention: Mr. R. R. Spurrier

Re: Lindrith Unit Agreement

Gentlemen:

We hand you herewith an executed copy of the unit agreement for the development and operation of the Lindrith Area, Rio Arriba County, New Mexico.

You will note that this agreement was approved by the Acting Director of the U. S. Geological Survey on April 3, 1950.

Yours very truly,

HERVEY, DOW & HINKLE

By 

CEH:rh
Enc.

cc: Mr. S. P. Hannifin
Magnolia Petroleum Company
Roswell, New Mexico

APPLICATION FOR DESIGNATION OF
INITIAL PARTICIPATING AREA
LINDRITH UNIT
RIO ARRIBA COUNTY, NEW MEXICO

I Sec. No. 713

The 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 Sections 10 and 16 of Unit Agreement for the development and operation of the Lindrith Unit Area, Rio Arriba County, New Mexico, we submit herewith for your consideration request for Initial Participating Area.

Magnolia Petroleum Company and Delhi Oil Corporation No. 1 Ingwersen located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 20-24N-2W is productive of unitized substances in paying quantities.

The area proved to be productive of unitized substances comprises 360 acres, more or less, described as follows:

SE $\frac{1}{4}$ Section 20, W $\frac{1}{2}$ SW $\frac{1}{4}$ Section 21, NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 28 and N $\frac{1}{2}$ NE $\frac{1}{4}$ Section 29, all in Township 24 North, Range 2 West, N.M.P.M.

as evidenced by geologic plat attached hereto.

The percentage of unitized substances applicable to the participating area shall be allocated as follows:

SF 078909	Timothy B. Ingwersen	66.67%
SF 078910	Daniel P. Nolting	33.33%

MAGNOLIA PETROLEUM COMPANY
UNIT OPERATOR

By

MRC Bradley

*Rmm
11/16
WLB
J.P.C.*