

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case # 1314

January 23, 1961

**The Pure Oil Company
Box 239
Houston 1, Texas**

Attention: Mr. H. W. Bradshaw

**Re: South Vacuum Unit
Lea County, New Mexico**

Gentlemen:

Reference is made to your letter of November 23, 1960 requesting approval of deferment of the drilling of one well as proposed in your Plan of Development for the period July 25, 1960 to July 25, 1961.

You are hereby notified that the Oil Conservation Commission approves the requested deferment only for the period stated and it is expected you will file a Plan of Development for the period July 25, 1961 to July 25, 1962 as usual.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEk/ig

cc: Commissioner of Public Lands
Santa Fe, New Mexico

C

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Y

In reply refer to:
Unit Division

December 29, 1960

C
The Pure Oil Company
Box 239
Houston 1, Texas

O
Attention: Mr. H. W. Bradshaw

Re: South Vacuum Unit
Lea County, New Mexico

Gentlemen:

P
The Commissioner of Public Lands herewith, approves your request of November 23, 1960 for the deferment of development as proposed by your Plan of Development for the period 7-25-60 thru 7-25-61 for the South Vacuum Unit.

Y
This is approved as a deferment of further development for the stated period only, and the Commissioner will expect to receive a Plan of Development prior to July 25, 1961.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Marian M. Rhea, Supervisor
Unit Division

MEM/mm/s

cc: Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO

SOUTHERN PRODUCING DIVISION

BOX 239

HOUSTON 1, TEXAS

November 23, 1960

Hon. Murray E. Morgan
Commissioner of Public Lands
P. O. Box 791
Santa Fe, New Mexico

Attention: Unit Division

✓ Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Re: South Vacuum Unit
Lea County, New Mexico

Gentlemen:

We have heretofore filed in your offices and each of you have approved our plan of development of the captioned unit for the period July 25, 1960, to July 25, 1961. This plan as submitted contemplated the drilling of one well during the plan period to be commenced prior to January 1, 1961.

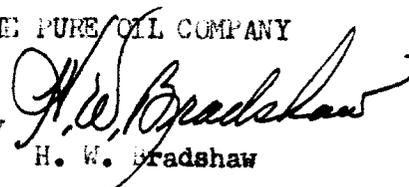
Inasmuch as it now appears doubtful that the drilling of another well on the unit during the plan period can be economically justified, we hereby request your approval for deferment of further development during said period.

We shall appreciate an early reply from each of you.

Yours very truly,

THE PURE OIL COMPANY

By


H. W. Bradshaw

HJB/jb

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

October 24, 1960

C
The Pure Oil Company
P. O. Box 2107
Fort Worth 1, Texas

O
Attention: Mr. H. W. Bradshaw

Re: Plan of Development
South Vacuum Unit Lea
County, New Mexico.

P
Gentlemen:

Y
This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development covering the period July 25, 1960 to July 25, 1961 for the South Vacuum Unit Lea County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands
Santa Fe, New Mexico

US Geological Survey
Roswell, New Mexico

In reply refer to:
Unit Division

October 19, 1960

C
O
P
Y

The Pure Oil Company
P. O. Box 2107
Fort Worth 1, Texas

Re: Plan of Development
South Vacuum Unit
Lea County, New Mexico

Attention: Mr. H. W. Bradshaw

Gentlemen:

We are handing to the Oil Conservation Commission six copies of Plan of Development of the South Vacuum Unit, Lea County, New Mexico, for the period July 25, 1960 to July 25, 1961.

The Commissioner of Public Lands has approved this aforementioned plan as of this date.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/umr/s

cc:

Oil Conservation Commission /
Santa Fe, New Mexico

PLAN OF DEVELOPMENT AND OPERATION
OF THE
SOUTH VACUUM UNIT, LEA COUNTY, NEW MEXICO,
JULY 25, 1960, TO JULY 25, 1961.

THIS PLAN OF FURTHER DEVELOPMENT OF THE SOUTH VACUUM UNIT, executed and submitted this 22nd day of July, 1960,

W I T N E S S E T H

WHEREAS, Union Oil Company of California, Shell Oil Company, Sinclair Oil & Gas Company, and The Pure Oil Company entered into a Unit Agreement dated September 6, 1957, recorded in Lea County, New Mexico, on November 20, 1957, in Book 126 at Page 387, which provides for the development and operation of the South Vacuum Unit Area, Lea County, New Mexico, and which Unit Agreement embraces the following described lands:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

Township 18 South, Range 35 East

Section 27: SE $\frac{1}{4}$
Section 26: S $\frac{1}{2}$
Section 34: NE $\frac{1}{4}$
Section 35: All
Section 36: SE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$

containing 1,680 acres, more or less, and

WHEREAS, the aforementioned Unit Agreement was supplemented by supplemental agreement dated February 25, 1958, approved by the Commissioner of Public Lands of the State of New Mexico April 30, 1958, and further supplemented by supplemental agreement dated May 9, 1958, approved by the Commissioner of Public Lands of the State of New Mexico June 30, 1958, and

WHEREAS, eights wells have been drilled on lands within said South Vacuum Unit, seven of which have been successfully completed as producers of unitized substances from the Devonian Formation, with one of said wells, The Pure Oil Company No. 2-35, being also a producer of unitized substances from the McKee Formation.

NOW COMES The Pure Oil Company, Operator of the South Vacuum Unit under the aforementioned Unit Agreement as supplemented, and submits to the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission of the State of New Mexico the following plan for further development and operation of the South Vacuum Unit for the period July 25, 1960, to July 25, 1961.

The development plan for such unit contemplates the commencement of drilling during the period covered by this plan on the following well on lands within said unit:

A ninth well to be commenced prior to January 1, 1961, and to be projected to a depth of approximately 11,800 feet, or sufficient to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well is unwarranted or impracticable.

IN WITNESS WHEREOF, this plan is executed the day and year first hereinabove written, and respectfully submitted for approval.

THE PURE OIL COMPANY

By

J. L. Moore

Manager, Texas Producing Division
UNIT OPERATOR - SOUTH VACUUM UNIT,
LEA COUNTY, NEW MEXICO

APPROVED	
TRADE	<i>W. B. Babine</i>
FORM	
DESCRIPTION	<i>B</i>

APPROVED THIS _____ DAY OF _____, 1960.

COMMISSIONER OF PUBLIC LANDS,
STATE OF NEW MEXICO

By *[Signature]*

APPROVED THIS _____ DAY OF _____, 1960.

OIL CONSERVATION COMMISSION OF
THE STATE OF NEW MEXICO.

By _____

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO

SOUTHERN PRODUCING DIVISION

BOX 239

HOUSTON 1, TEXAS

October 14, 1960

Re: South Vacuum Unit,
Lea County, New Mexico

Hon. Murray E. Morgan
Commissioner of Public Lands
State Land Office
Santa Fe, New Mexico

Attention: Unit Division

Gentlemen:

Enclosed herewith is copy of our letter of July 22, 1960, with which we forwarded to your office eight copies of plan of development of the captioned unit for the period of July 25, 1960, to July 25, 1961.

We shall appreciate your advising what action has been taken on said plan of development and if the same has been approved, please return four copies to this office. In this connection, please note that our address has been changed to P. O. Box 239, Houston 1, Texas.

Very truly yours,

THE PURE OIL COMPANY

By


H. W. Bradshaw

HMB/jb
Encls.

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

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO

SOUTHERN PRODUCING DIVISION

BOX 239

HOUSTON 1, TEXAS

July 22, 1960

Case 1214

Re: South Vacuum Unit,
Lea County, New Mexico

Hon. Murray E. Morgan,
Commissioner of Public Lands
State Land Office
Santa Fe, New Mexico

Attention: Unit Division

Gentlemen:

Enclosed herewith are eight copies of plan of development of the South Vacuum Unit, Lea County, New Mexico, for the period July 25, 1960, to July 25, 1961.

If this plan of development, as outlined, meets with your approval, we will appreciate your indicating your approval on all copies and forwarding the same to the Oil Conservation Commission for its approval and then returning four copies to this office.

Yours very truly,

THE PURE OIL COMPANY

By S/ H. W. Bradshaw

H. W. Bradshaw

HWB/jb
Encls.

/cc - Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

TEXAS PRODUCING DIVISION

P. O. BOX 2107

FORT WORTH 1, TEXAS

April 25, 1960

Case 11314

State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

ATTENTION: MR. R. L. STAMETS

Dear Mr. Stamets:

As requested in your letter of August 10, 1959, concerning wells completed in the South Vacuum Unit, Lea County, New Mexico, we furnish the following information on the drilling of the last well, Reeves "A" Well No. 4-26.

FSL

FWL

This well was located 1654 feet North of the South Line and 1654' East of the West Line of Section 26, R-18-S, R-35-E, Lea County, New Mexico. The well was apudded at 7:30 PM, February 10, 1960 and drilled to 11,730 feet. Eleven and three-fourths inch (11-3/4") casing was set at 451 feet and cemented with 475 sacks Portland Neat Cement. Eight and five-eighths inch (8-5/8") casing was set at 3802 feet and cemented with 1288 sacks Trinity Litewate and 200 sacks Portland Neat Cement. Cement was returned to surface on these two strings of casing. After reaching total depth of 11,730 feet, drill stem test was made of the Devonian from 11,650 feet to 11,730 feet and recovered 95 barrels of oil and 120 feet of heavily oil and gas cut mud.

Five and one-half inch (5-1/2") casing was set at 11,730 feet and cemented with 85 sacks Trinity Inferno Cement and 85 sacks Pozmix with 4% gel added. Plug was pumped to 11,693 feet. Float collar and cement was drilled from 11,693 feet to 11,728 feet, PBTD. Five and one-half inch (5-1/2") casing was perforated with 2 jet shots per foot from 11,658 feet to 11,696 feet and 420 gallons of BD acid pumped in perforations. Well was then treated with 1500 gallons Dowell XM-38 acid and swabbed in. After flow-int to clean up, potential test was made and flowed 10 hours, 16/64" cnoke, 224 barrels oil, no water, gravity of oil 49 degrees at 60 degrees, gas-oil ratio 81/CF/B, tubing pressure 325#. Rate for 24 hours based on 10 hour test is 537.6 barrels oil. Test was completed April 19, 1960.

Yours very truly,

THE PURE OIL COMPANY

W. F. Schafer

W. F. Schafer
Division Superintendent

WFS/mhg

ALL QUOTATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

August 10, 1959

File
1219

C
O
P
Y

The Pure Oil Company
P. O. Box 2107
Fort Worth 1, Texas

ATTENTION: Mr. H. W. Bradshaw

Re: Well reports, South Vacuum
Unit, Lea County, New Mexico.

Gentlemen:

From your reply in your letter of July 31, 1959, it is apparent that you misunderstood our request for complete records on all wells drilled to date in the subject unit. We do of course have all the necessary Commission forms on these wells in our files, however, the Commission desires that you furnish us with a letter outlining all wells drilled, completion dates, total depths, producing formations, initial potentials and cumulative production. This report is for our unit files and is separate from our well files.

Very truly yours,

R. L. STAMETS
Geologist

RLS/pj

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

TEXAS PRODUCING DIVISION

P. O. BOX 2107
FORT WORTH 1, TEXAS

March 11, 1960

State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

ATTENTION: MR. R. L. STAMETS

Dear Mr. Stamets:

As requested in your letter of August 10, 1959, concerning wells completed in the South Vacuum Unit, Lea County, New Mexico, we furnish the following information on the drilling of the last well, Reeves "A" Well No. 3-26, a dry hole.

This well was located 660 feet North of the South line and 1980 feet West of the East line, Section 26, Township 18-S, Range 35-E, Lea County, New Mexico. The well was spudded at 4:00 PM October 15, 1959 and drilled to 12,004 feet. Eleven and three-fourths inch (11-3/4") casing was set at 453 feet and cemented with 475 sacks cement; eight and five-eighths inch (8-5/8") casing was set at 3801' and cemented with 1269 sacks Trinity Litewate and 200 sacks Portland neat cement. Cement was returned to surface on these two strings of pipe. Drill stem test was made of the Wolfcamp formation from 9885 feet to 10,010 feet. After reaching total depth, drill stem test was made of the Devonian formation from 11,851 feet to 12,004 feet and recovered 230 feet water cut drilling mud and 729 feet of salt water. Cement plugs were placed in open hole from 12,004 feet to 11,842 feet with 45 sacks cement and from 10,350 feet to 10,200 feet with 45 sacks cement. Five and one-half inch (5-1/2") casing was set at 10,170 feet and cemented with 40 sacks Inferno neat cement and 75 sacks Portland cement mixed with 70 gallons of IA-2, and top of the cement plug inside of casing was at 10,144 feet, the PBTD to attempt completion in the Wolfcamp formation. Casing was perforated from 10,086 feet to 10,112 feet with 4 jet shots per foot. This was treated with 3000 gallons acid and tested.

The well was next perforated through 5-1/2 inch casing with 4 shots per foot from 10,004 feet to 10,018 feet and 10,040 feet to 10,059 feet. This was treated with 1000 gallons Mud acid and with 72 barrels lease oil and tested.

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March 11, 1960

The casing was then perforated with 4 jet shots per foot from 9898 feet to 9908 feet; treated with 12 barrels lease oil and swab tested. We ran Kobe Triplex pump and pumped the well thirty days but did not recover all the load oil that had been used. The pump was removed and the well swabbed with no recovery. There is a total of 551-1/2 barrels of load oil used in the hole that was not recovered. This is a dry hole and it is our intention to plug and abandon it.

We are now drilling Reeves "A" Well No. 4-26 in this unit and upon the completion we will furnish you with a letter covering the work performed.

Yours very truly,

THE PURE OIL COMPANY



W. F. Schafer
Division Superintendent

WFS/mhg

cc: Mr. H. G. Teague
Mr. W. E. Townsend

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

TEXAS PRODUCING DIVISION

P. O. BOX 2107

FORT WORTH 1, TEXAS

October 23, 1959

State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

ATTENTION: MR. R. L. STAMETS

Dear Mr. Stamets:

As requested in your letter of August 10, 1959, concerning wells completed in the South Vacuum Unit, Lea County, New Mexico, we furnish the following information on the completion of the last well, South Vacuum Unit Well No. 1-27.

The well is located 1980' from the South line and 660' from the East line, Section 27, Township 18-S, Range 35-E, Lea County, New Mexico. The well was spudded on August 2, 1959 and was drilled to 11,755 feet. Eleven and three-fourths inch (11-3/4") OD Casing was set at 454' and cemented with 525 sacks cement; eight and five-eighths inch (8-5/8") OD Casing was set at 3805' and cemented with 1150 sacks cement with one part Stratacrete to two parts cement and we had cement returns to the surface, and five and one-half inch (5-1/2") OD Casing set at 11,754' and cemented with 550 sacks 50% Trinity Inferno cement and 50% Pozmix. Top of cement plug inside five and one-half inch (5-1/2") OD Casing was at 11,717' and this was drilled out to 11,736', which is the PBTD. Five and one-half inch (5-1/2") OD Casing was perforated with 4 jet shots per foot from 11,652' to 11,659', 11,663' to 11,673', 11,679' to 11,682', 11,687' to 11,689', 11,692' to 11,700' and 11,705' to 11,713', in the Devonian and formation was treated with 500 gallons Dowell break-down acid. Potential Test, October 13, 1959, flowed 13 hours, 16/64" choke, 224 barrels oil, gas-oil ratio 96 CF/B, tubing pressure 250#. Rate for 24 hours based on the 13 hour test was 413.5 barrels oil.

The next well being drilled in this unit is Reeves Well No. 3-26, which was spudded October 15, 1959, and you will be furnished with a letter upon the completion of the well similar to the data furnished above on South Vacuum Unit Well No. 1-27.

Yours very truly,

THE PURE OIL COMPANY



W. F. Schafer
Division Superintendent

WFS/mhg

cc: Mr. H. G. Teague
Mr. W. E. Townsend

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

TEXAS PRODUCING DIVISION

1959 AUG 17 P. O. BOX 2107

FORT WORTH 1, TEXAS

August 17, 1959

State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. R. L. Stamets

Gentlemen:

Please refer to your letter of August 10, 1959, addressed to Mr. H. W. Bradshaw, concerning information on wells in the South Vacuum Unit, Lea County, New Mexico.

The letter was passed to the writer to furnish the well information requested.

South Vacuum Unit #1-35, located 1980' from the North line and 1980' from the East line of Section 35, T-18-S, R-35-E, Lea County, New Mexico, was spudded September 8, 1957, and drilled to a depth of 11,848'. 11-3/4" OD casing was set at 342' and cemented with 350 sacks of cement; 8-5/8" OD casing was set at 3755' and cemented with 500 sacks of cement; 5-1/2" OD casing was set at 11,836' and cemented with 340 sacks of cement. The top of cement inside the 5-1/2" OD casing is at 11,811', which is the PBT. 5-1/2" OD casing was perforated with 5 jet shots per foot from 11,643' to 11,680' and treated with 500 gallons of mud acid. Well was completed January 26, 1958, in the Devonian and potentialized with a 5-hour test, 1/2" choke, 361 barrels oil, gravity 48.6 degrees API, gas-oil ratio of 87 CF/B. Rate for 24 hours based on the 5-hour test was 1733 barrels. This well was drilled by Union Oil Company of California, and upon completion, Pure became the operator of the Unit, and the other wells in the Unit were drilled by Pure. Accumulated production for this well through July 1959 is 107,577 barrels of oil.

South Vacuum Unit #2-35, located 1980' from the South line and 660' from the East line, Section 35, T-18-S, R-35-E, Lea County, New Mexico, was spudded March 21, 1958 and drilled to a depth of 13,919'. 13-3/8" OD casing was set at 351' and cemented with 400 sacks cement; 9-5/8" OD casing was set at 3808' and cemented with 1220 sacks cement; 7" OD casing was set at 11,953' and cemented with 870 sacks of cement; 2028' of 5" liner was set at 13,881' and cemented with 330 sacks of cement. Top of cement inside 5" liner is at 13,828', which is the PBT. This well was dually completed in the Devonian as an oil well and in the McKee as a gas well. The McKee was completed through perforations in the 5" liner 2 shots per foot as follows: 13,620'-25', 13,630'-44', 13,648'-65', 13,672'-76', 13,694'-714', 13,727'-32', 13,738'-48', 13,752'-56', 13,769'-77', 13,801'-11', and 13,814'-23' and the perforations were treated with 500 gallons of mud acid, 1000 gallons Devonian oil with 20 gallons Dowell Mud Ban mixed, and 2580 gallons Devonian oil with 2% Dowell Mud Ban acid mixed and 2400 gallons Dowell XW-24M-38 acid. Well was potentialized November 28, 1958, and on 24-hour test the

ALL QUOTATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL

State of New Mexico

Page 2.
8/17/59

calculated absolute open flow potential test was 502 MCF/D, rate of condensate was 45 barrels per million cubic feet of gas, gravity of condensate 56.3 degrees API. The Devonian was completed through perforations in 7" OD casing 11,680' - 11,730' and treated with 500 gallons of mud acid, and on potential test October 1, 1958, flowed 8 hours, 16/64" choke, 252 barrels of oil, gravity 49.5 degrees API, gas-oil ratio 69 CF/B. The rate for 24 hours based on the 8-hour test is 756 barrels of oil. The McKee is flowing through 2" tubing set at 13,622' and the Devonian is flowing through 2" tubing set at 11,730'. Accumulated production through July 1959 is 72,347 MCF gas and 958 barrels condensate.

South Vacuum Unit #3-35, located 660' from the North line and 1980' from the West line, Section 35, T-18-S, R-35-E, Lea County, New Mexico, was spudded November 10, 1958, and drilled to 11,725'. 13-3/8" OD casing was set at 437' and cemented with 450 sacks cement; 9-5/8" OD casing was set at 3800' and cemented with 1300 sacks of cement; 5-1/2" OD casing was set at 11,724' and cemented with 416 sacks of cement. Top of cement inside 5-1/2" OD casing is at 11,685', which is the PBTD. 5-1/2" OD casing was perforated with 4 shots per foot from 11,592' to 11,616' in the Devonian and completed natural with potential being made January 27, 1959, and flowed 12 hours, 16/64" choke, 261 barrels oil, gravity 49.0 degrees API, gas-oil ratio 83 CF/B. Rate for 24 hours, based on the 12-hour test was 522 barrels of oil. Accumulated production through July 1959 is 35,551 barrels oil.

South Vacuum Unit #1-26, located 660' from the South line and 660' from the West line, Section 26, T-18-S, R-35-E, Lea County, New Mexico, was spudded February 6, 1959, and drilled to 11,756'. 13-3/8" OD casing was set at 449' and cemented with 450 sacks cement; 9-5/8" OD casing was set at 3801' and cemented with 1350 sacks cement; 5-1/2" OD casing was set at 11,755' and cemented with 344 sacks of cement and 344 sacks Pozmix. Top of the cement inside the 5-1/2" OD casing is 11,728', which is the PBTD. 5-1/2" OD casing was perforated 4 shots per foot from 11,611' to 11,639' and was completed natural with potential being made April 11, 1959, and flowed 6 hours, 10/64" choke, 235 barrels oil, gravity 49.6 degrees API, gas-oil ratio 91 CF/B. Rate for 24 hours based on 6-hour test was 940 barrels of oil. Accumulated production through July 1959 is 23,086 barrels oil.

Reeves #2-26, located 1980' from the West line and 660' from the South line, Section 26, T-18-S, R-35-E, Lea County, New Mexico, was spudded May 22, 1959, and drilled to 11,750'. 11-3/4" OD casing was set at 465' and cemented with 525 sacks cement; 8-5/8" OD casing was set at 3804' and cemented with 1200 sacks of cement; 5-1/2" OD casing was set at 11,750' and cemented with 288 sacks cement and 287 sacks Pozmix. Top of the cement inside the 5-1/2" OD casing is 11,682', which is the PBTD. 5-1/2" OD casing was perforated with 4 shots per foot from 11,503' to 11,528' in the Devonian and completed natural with potential being made July 31, 1959, flowing 7-1/4 hours, 16/64" choke, 270 barrels oil, gravity 48.8 degrees API, gas-oil ratio 105 CF/B. Rate for 24 hours based on 7-1/4-hour test was 894 barrels of oil. Accumulated production through July 1959 is 606 barrels of oil.

State of New Mexico

Page 3.

8/17/59

South Vacuum Unit #1-27, located 1980' from the South line and 660' from the East line, Section 27, T-18-S, R-35-E, Lea County, New Mexico, was spudded on August 2, 1959, and is currently drilling at 4110', with 11-3/4" OD casing having been set at 454' and cemented with 525 sacks cement and 8-5/8" OD casing set at 3805' cemented with 1150 sacks of cement.

In order for us to furnish any information you require for your unit files, it will be appreciated if you will advise if you want us to write you a letter on each well as it is completed, giving brief information as shown above. If so, we will then set this up to be handled currently upon the completion of each well.

Yours very truly,

W. F. Schafer

W. F. Schafer

Division Superintendent

WFS:e

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

*File case
1314*

July 29, 1959

C
O
P
Y

The Pure Oil Company
Texas Producing Division
P. O. Box 2107
Fort Worth, Texas

ATTENTION: Mr. H. W. Bradshaw

Re: Plan of Development for
the period July 25, 1959
to July 25, 1960, South
Vacuum Unit, Lea County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the period July 25, 1959 to July 25, 1960 for the South Vacuum Unit, Lea County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are returned herewith.

Please furnish the Commission with complete reports on all wells completed in this Unit to date at your earliest convenience.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/RLS/pj

cc: United States Geological Survey - Roswell, New Mexico
State Land Office - Santa Fe, New Mexico

In reply refer to:
Unit Division

July 22, 1959

C
O
P
Y

The Pure Oil Company
Texas Producing Division
P. O. Box 2187
Fort Worth 1, Texas

ATTENTION: Mr. H. W. Bradshaw

Re: Plan of Development
South Vacuum Unit Area
Lea County, New Mexico

Gentlemen:

We are forwarding to the Oil Conservation Commission six copies of Plan of Development and Operation for the South Vacuum Unit, Lea County, New Mexico for the period July 25, 1959, to July 25, 1960 and which is dated July 6, 1959.

This Plan of Development was approved by the Commissioner of Public Lands July 21, 1959.

You will note we have made a correction on page two of this Agreement changing it from the SW/4 of the SE/4 of Section 26, to the SE/4 of the SW/4 of Section 26.

We have not received well reports on this well no. 2-26, which is located on Fee land. It was our understanding this tract had not been committed to the Unit Agreement.

May we please have up to date reports on the 2-26 well and clarification on the ratification of this fee tract.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MSR/n
cc:

OCC- Santa Fe

PLAN OF DEVELOPMENT AND OPERATION
OF THE
SOUTH VACUUM UNIT, LEA COUNTY, NEW MEXICO,
JULY 25, 1959, TO JULY 25, 1960.

THIS PLAN OF FURTHER DEVELOPMENT OF THE SOUTH VACUUM UNIT, executed and submitted this 6th day of July, 1959,

W I T N E S S E T H

WHEREAS, Union Oil Company of California, Shell Oil Company, Sinclair Oil & Gas Company, and The Pure Oil Company entered into a Unit Agreement dated September 6, 1957, recorded in Lea County, New Mexico, on November 20, 1957, in Book 126 at Page 387, which provides for the development and operation of the South Vacuum Unit Area, Lea County, New Mexico, and which Unit Agreement embraces the following described lands:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

Township 18 South, Range 35 East

Section 27: SE $\frac{1}{4}$
Section 26: S $\frac{1}{2}$
Section 34: NE $\frac{1}{4}$
Section 35: All
Section 36: SE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$

containing 1,680 acres, more or less, and

WHEREAS, the aforementioned Unit Agreement was supplemented by supplemental agreement dated February 25, 1958, approved by the Commissioner of Public Lands of the State of New Mexico April 30, 1958, and further supplemented by supplemental agreement dated May 9, 1958, approved by the Commissioner of Public Lands of the State of New Mexico June 30, 1958, and

WHEREAS, four wells have been drilled on lands within the said South Vacuum Unit, all of which have been successfully completed as producers of unitized substances from the Devonian Formation, with one of said wells, The Pure Oil Company No. 2-35, being also a producer of unitized substances from the McKee Formation.

NOW COMES The Pure Oil Company, Operator of the South Vacuum Unit under the aforementioned Unit Agreement as supplemented, and submits to the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission of the State of New Mexico the following plan for further development and operation of the South Vacuum Unit for the period July 25, 1959, to July 25, 1960.

W *SW 1/4*
The Pure Oil Company, as Unit Operator, is currently drilling a well located in the ~~SW 1/4~~ ^{SE 1/4} of the ~~SE 1/4~~ ^{SW 1/4} of Section 26, Township 13 South, Range 35 East, Lea County, New Mexico, known as The Pure Oil Company No. 2-26, South Vacuum Unit, with this well to be projected to a depth of approximately 11,800 feet, or to a sufficient depth to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well shall be unwarranted or impracticable.

Following the completion of The Pure Oil Company No. 2-26, South Vacuum Unit, the development plan for such unit involves the drilling of the following wells within the South Vacuum Unit:

- 1) A sixth well to be commenced in September or October, 1959, and to be projected to a depth of approximately 11,800 feet, or sufficient to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well is unwarranted or impracticable.
- 2) A seventh well to be commenced in January or February, 1960, and to be projected to a depth of approximately 11,800 feet, or sufficient to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well is unwarranted or impracticable.
- 3) An eighth well to be commenced in May or June, 1960, and to be projected to a depth of approximately 11,800 feet, or sufficient to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well is unwarranted or impracticable.

IN WITNESS WHEREOF, this plan is executed the day and year first hereinabove written, and respectfully submitted for approval.

THE PURE OIL COMPANY

By

L. J. [Signature]

Manager, Texas Producing Division

UNIT OPERATOR - SOUTH VACUUM UNIT,
LEA COUNTY, NEW MEXICO.

APPROVED	
TRADE	<i>W. B. [Signature]</i>
FORM	
DESCRIPTION	<i>B</i>

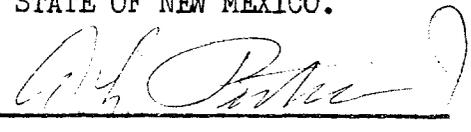
APPROVED THIS 21st DAY OF
July, 1959.

COMMISSIONER OF PUBLIC LANDS,
STATE OF NEW MEXICO


By _____

APPROVED THIS 20th DAY OF
July, 1959.

OIL CONSERVATION COMMISSION OF
THE STATE OF NEW MEXICO.

By  _____

THE PURE OIL COMPANY

MAIN OFFICE OCC

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO

1959 JUL 8 8 AM
TEXAS PRODUCING DIVISION
P. O. BOX 2107
FORT WORTH 1, TEXAS

July 6, 1959

Re: South Vacuum Unit,
Lea County, New Mexico.

Hon. Murray E. Morgan,
Commissioner of Public Lands
State Land Office
Santa Fe, New Mexico

Attention: Unit Division

Gentlemen:

Enclosed herewith are eight copies of plan of development of the South Vacuum Unit, Lea County, New Mexico, for the period July 25, 1959, to July 25, 1960.

If this plan of development, as outlined, meets with your approval, we will appreciate your indicating your approval on all copies and forwarding the same to the Oil Conservation Commission for its approval and then returning four copies to this office.

Yours very truly,

THE PURE OIL COMPANY

By

H. W. Bradshaw
H. W. Bradshaw

HWB/jjb
Encls.

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

*File
1314*

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

TEXAS PRODUCING DIVISION

P. O. BOX 2107

FORT WORTH 1, TEXAS

September 26, 1958

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Dear Mr. Porter:

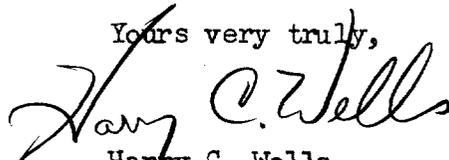
Order No. R-1048 provides that The Pure Oil Company as operator of the South Vacuum Unit shall file periodic Statement of Progress reports to the Commission summarizing operations of the unit. This is being written in conformance with this provision.

South Vacuum Unit #2-35, the second unit well to be drilled, was spudded 3-21-58. This well was drilled to the granite at a total depth of 13,919'. We are now in the process of completing this well as a dual completion in the Devonian and McKee formations. The Devonian completion, 11,680' to 11,730', produces oil, and the McKee completion, 13,620' to 13,823', produces gas. Application for dual completion is now being prepared covering this well.

A Plan of Development and Operation of the South Vacuum Unit for the period July 25, 1958, to July 25, 1959, was approved by the Commissioner of Public Lands and the Oil Conservation Commission on August 4, 1958, and August 5, 1958, respectively.

Please advise if we can furnish any additional information.

Yours very truly,



Harry C. Wells
Ass't. Div. Prod. Engr.

HCW:c

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

TEXAS PRODUCING DIVISION

P. O. BOX 2107

FORT WORTH 1, TEXAS

March 7, 1958

State of New Mexico
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

The Conservation Commission as a result of the hearing of Case No. 1314 held on September 9, 1957, issued order No. R-1048 entitled South Vacuum Unit Agreement Order. This order provides that the unit operator periodically shall file with the Commission a South Vacuum Unit statement of progress. This is being written in conformance with this provision.

The South Vacuum Unit Agreement designated the Union Oil Company of California as unit operator. As unit operator Union Oil Company of California drilled South Vacuum Unit Well No. 1-35. This well was drilled to the Devonian and completed as a producer in this interval through perforations from 11,643' to 11,680'. The well initially produced 361 barrels of oil during a five hour period on a 1/2" choke. Form C-104 (request for oil allowable) was filed with the Conservation Commission on January 27, 1958. The Pure Oil Company was designated operator of the unit by Form C-103 approved by the Conservation Commission, February 3, 1958. The Pure Oil Company on February 20, 1958, filed application with the Conservation Commission to drill the South Vacuum Unit No. 2-35. This application was approved by the Conservation Commission on February 24, 1958. This well is projected to the Ellenburger at an approximate depth of 13,230'. The Pure Oil Company is now soliciting bids from contractors for drilling this well and should be in position to award contract within the next few days.

If there is any further information needed by the Conservation Commission relative to the exploration and development of the South Vacuum Unit, please advise.

Very truly yours,



J. T. Duree
Chief Div. Prod. Engr.

JTD:c

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

*File
Case
1314*

August 5, 1958

Pure Oil Company
P. O. Box 2107
Fort Worth 1, Texas

Attention: C. B. Sabin

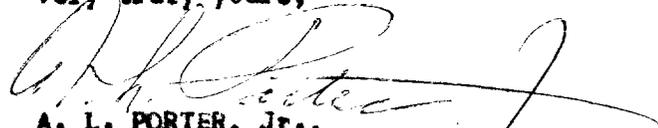
Re: Plan of Development &
Operation from July 25,
1958, to July 25, 1959
for the South Vacuum Unit
Lea County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development and Operation covering the period from July 25, 1958 to July 25, 1959 for the South Vacuum Unit Lea County, New Mexico, subject to like approval by the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the plan are returned herewith.

Very truly yours,


A. L. PORTER, Jr.,
Secretary - Director

cc: Commissioner of Public Lands

C
O
P
Y

*File case
1314*

MAIN OFFICE OCC

In reply refer to:
Unit Division

1958 AUG 5 AM 8:28

August 4, 1958

C
O
P
Y

The Pure Oil Company
P. O. Box 2107
Fort Worth 1, Texas

Re: South Vacuum Unit,
Lea County, New Mexico

Attention: Mr. C. B. Sabin

Gentlemen:

We are handing six copies of "Plan of Development and Operation of the South Vacuum Unit, Lea County, New Mexico, to Mr. C. B. Sabin, for the period July 25, 1958, to July 25, 1959.

This approval being made this 4th. day of August, 1958.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/s
cc: OCC-Santa Fe, New Mexico

THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO

TEXAS PRODUCING DIVISION

P. O. BOX 2107
FORT WORTH 1, TEXAS
August 4, 1958

MAIN OFFICE OCC
1958 AUG 5 PM 1:29

*File
Case 1314*

RE: South Vacuum Unit,
Lea County, New Mexico

Hon. Murray E. Morgan,
Commissioner of Public Lands,
State Land Office,
Santa Fe, New Mexico

Dear Sir:

Attached hereto are eight copies of "Plan of Development and Operation of the South Vacuum Unit, Lea County, New Mexico, for the period July 25, 1958, to July 25, 1959."

If the above plan of development meets with your approval, we would appreciate your indicating thereon such approval, forwarding the instruments to the Oil Conservation Commission for their approval and then returning four completed copies to the undersigned.

Yours very truly,



C. B. Sabin

CBS:EDH
Encl.

cc: Oil Conservation Commission
State of New Mexico,
Santa Fe, New Mexico.

June 30, 1958

File
1314

C
O
P
Y

The Pure Oil Company
Texas Producing Division
P. O. Box 2107
Fort Worth 1, Texas

Re: South Vacuum Unit
Lea County, New Mexico

Attention: Mr. H. W. Bradshaw

Gentlemen:

The Commissioner of Public Lands has today approved a supplemental agreement dated May 9, 1958, to the South Vacuum Unit. This supplement further amends Section 8, of Unit Agreement.

We are enclosing four approved copies of this supplement.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

BY:

Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/s

Enc.

cc: OCC-Santa Fe

UNION OIL BUILDERS

619 WEST TEXAS

December 2, 1957

Mr. Murray E. Morgan
Commissioner of Public Lands
State Land Office
Santa Fe, New Mexico

Attention: Mr. Ted Hilberry, Supervisor
Oil and Gas Department

Re: SOUTH VACUUM UNIT
LEA COUNTY, NEW MEXICO
THIRTY DAY PROGRESS REPORT

Gentlemen:

All the information concerning the drilling and testing during the month of November of the South Vacuum Unit well located 1900 feet from the North and East lines of Section 35, Township 18 South, Range 35 East, are set forth in Form C-103, a copy of which is included with this letter. The captioned unit embraces parts of State Leases Nos. E-1635, E-6573, E-1533, E-1479 and E-1480 as well as two(2) fee leases owned by Union Oil Company of California.

Yours very truly,

UNION OIL COMPANY OF CALIFORNIA

Sam A. Snyder
Sam A. Snyder
Landman

SAS:mar

cc: SINCLAIR OIL & GAS COMPANY
Attention: Mr. H. L. Osborne

SHELL OIL COMPANY
Attention: Mr. Raymond Monkross

THE PURE OIL COMPANY
Attention: Mr. C. B. Sabin

OIL & GAS CONSERVATION COMMISSION

UNION OIL BUILDING

619 WEST TEXAS

November 6, 1957

Mr. Murray E. Morgan
Commissioner of Public Lands
State Land Office
Santa Fe, New Mexico

Attention: Mr. Ted Bilberry, Supervisor
Oil & Gas Department

Re: South Vacuum Unit
Los County, New Mexico
Thirty Day Progress Report

Dear Sir:

All information concerning the drilling and testing during the month of October of the South Vacuum Unit well located 1980 feet from the North and East lines of Section 35, T-18-S, R-35-E, were reported to your office, and a copy of Form C-103 included, on the 4th day of November, 1957. The captioned unit embraces parts of State Leases Nos. E-1635, E-6573, E-1533, E-1479 and E-1480, as well as two fee leases owned by Union Oil Company of California.

Yours very truly,

UNION OIL COMPANY OF CALIFORNIA

Sam A. Snyder
Sam A. Snyder
Landman

SAS:mr

cc: SINCCLAIR OIL & GAS COMPANY
Attention: Mr. E. L. Osborne
SHELL OIL COMPANY
Attention: Mr. Raymond Monkross
THE PURE OIL COMPANY
Attention: Mr. C. B. Sebin
OIL & GAS CONSERVATION COMMISSION ✓

Union Oil Company of California

IN REPLY GIVE NO.

Union Oil Building - 619 West Texas
MAIN OFFICE OCC

1957 OCT 7 AM 8:14 October 4, 1957

Mr. Murray E. Morgan
Commissioner of Public Lands
State Land Office
Santa Fe, New Mexico

Attention: Mr. Ted Bilberry, Supervisor
Oil & Gas Department

Re: South Vacuum Unit
Lea County, New Mexico
Thirty Day Progress Report

Dear Sir:

Operations for drilling a test well at a location approximately 1980 feet from the North and East lines of Section 35, T-18-S, R-35-E, were commenced on the 8th day of September 1957 by Aldridge & Stroud Drilling Contractors of Odessa, Texas, under direction of Union Oil Company of California, Operator under the captioned Unit Agreement. Subsequent to that date, operations for drilling were turned over to Brantley Drilling Company, who have diligently prosecuted the drilling of said well to date.

As of the last day of September, a total depth of 6,650 feet had been reached. No formations had been cored or tested to date; however, surface and intermediate casing strings had been set and tested and reported to the Oil Conservation Commission on Form C-103.

The captioned Unit Agreement embraces parts of State Leases Nos. E-1635, E-6573, E-1533, E-1479 and E-1480, as well as two fee leases owned by Union Oil Company of California. Your office is being furnished with copies of Form C-103 which have been filed concerning this well.

Yours very truly,

UNION OIL COMPANY OF CALIFORNIA

Sam A. Snyder
Sam A. Snyder
Landman

SAS/mj

- cc: Sinclair Oil & Gas Company
Attention: Mr. R. L. Osborne
- cc: Shell Oil Company
Attention: Mr. Raymond Monress
- cc: Pure Oil Company
Attention: Mr. C. B. Sabin
- cc: Oil & Gas Conservation Commission

OFFICE OCC

RECEIVED 7:58

September 9, 1957

In reply refer to:
Unit Division

Union Oil Company of California
Union Oil Building
619 West Texas
Midland, Texas

Attention: Mr. Edgar S. Keefe, Manager of Lands
West Texas Division

Re: South Vacuum Unit Agreement -
Lea County, New Mexico

Gentlemen:

We are handing to your attorney, Mr. George H. Hunker, Jr., one fully executed copy of the South Vacuum Unit Agreement, which was approved by the Commissioner of Public Lands to become immediately effective as of September 9, 1957, subject to like approval by the New Mexico Oil Conservation Commission. Three additional copies of our official Certificate of Approval, which may be attached to the extra copies you will need, have also been handed to Mr. Hunker.

Official Receipt in the amount of \$30, covering your filing fee, will be forwarded to you when this is issued, as also will application for refund of the \$100 deposited in compliance with Rules and Regulations governing the processing of Unit Agreements.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor
Oil and Gas Department

MEM:MMR/m
Enc.

cc: OCC-Santa Fe
Mr. George H. Hunker, Jr.-Roswell

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

September 10, 1957

Mr. George Hunker
Hervey, Dow & Hinkle
Box 547
Roswell, New Mexico

Dear Sir:

On behalf of your client, Union Oil Company of California, we enclose a copy of Order R-1048 issued September 9, 1957, by the Oil Conservation Commission in Case 1314, which was heard on September 9th at Santa Fe.

Very truly yours,

A. L. Porter, Jr.
Secretary - Director

bp
Encl.

C

O

P

Y

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

September 10, 1957

Mr. George A. Graham
Gans Building
Santa Fe, New Mexico

Dear Sir:

On behalf of your client, the Reeves Brothers, we enclose a copy of Order R-1048 issued September 9, 1957, by the Oil Conservation Commission in Case 1314, which was heard on September 9th at Santa Fe.

Very truly yours,

A. L. Porter, Jr.
Secretary - Director

bp
Encl.

C
O
P
Y

619 West Texas

September 5, 1957

COMMISSIONER OF PUBLIC LANDS
State Land Office
Santa Fe, New Mexico

Re: SOUTH VACUUM UNIT
LEA COUNTY, NEW MEXICO

Gentlemen:

The attached map shows the geologic interpretation of the South Vacuum Unit Prospect by 100-foot contours on top of the Devonian. This map was reviewed by geological department representatives of the Pure Oil Company, Shell Oil Company, Sinclair Oil & Gas Company, and Union Oil Company of California. The representatives of these four companies were in agreement that the map represented their best estimate of the true structure.

The Siluro-Devonian dolomite (formation contoured on map) is the principal objective of the proposed test well and can be expected at 12,300 feet. Other possible pay zones are as follows:

<u>FORMATION</u>	<u>EXPECTED DEPTH</u>
Bone Spring limestone	6,500'
Wolfcamp dolomite & limestone	8,200'
Strawn limestone	11,000'
Morrow sand	11,200'

The location for the proposed well is 1980' FN & EL, T-18-S,
R-35-E.

Yours truly,

Robert L. Clarke

Robert L. Clarke
Chief Geologist, West Texas Division
UNION OIL COMPANY OF CALIFORNIA

RLC:mar
cc: New Mexico Oil Conservation Commission
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 9-9-57

CASE 1314

Hearing Date 9-9-57 10 AM
SF DSN

My recommendations for an order in the above numbered cases are as follows:

Enter an order approving
the Unit Agreement as applied
for by Union Oil Co.
of California and as
amended at the hearing.

Urgency in expediting this
order noted by counsel for
applicant as lease is
about to expire unless
order written pronto.

James A. Tuttle
~~Staff Member~~
Examiner

Reeves Bros Royalty
w/2 SE/4 Sec 26
E/2 SW/4

Represented by George Graham

Union Oil Company of Calif
Represented by George Hunter

MAIN OFFICE GOC

SEP 5 PM 4:26

September 5, 1957

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

Re: Application for Approval of
South Vacuum Unit Agreement
Lea County, New Mexico

Gentlemen:

Enclosed herewith is an application for approval of the South Vacuum Unit Agreement, Lea County, New Mexico, said unit to embrace certain designated tracts situated in T-18-S, R-35-E, Lea County, New Mexico. Part of said lands are embraced in the following State leases:

E-1635; E-1479; E-6573; E-1533 and E-1480.

We are also attaching a geological map of the area contoured on the Devonian formation by Mr. David A. Dunn, Reswell, New Mexico, District Geologist for Union Oil Company of California, as well as a geological report prepared by Mr. R. L. Clarke, Division Geologist for Union Oil Company of California. Said map and report will be supported by oral testimony at the time of the hearing.

Drilling operations are to be commenced immediately at a location in the SW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 35, T-18-S, R-35-E, N.M.F.M., being part of the lands embraced in New Mexico State Lease bearing Serial Number E-1533. Said drilling operations are to be commenced by the drilling contracting firm of Aldridge & Stroud, whose address is 210 Phillips Building, Odessa, Texas. The well is to be drilled to test the Devonian formation at approximately 12,500 feet.

The rentals for the eleventh year on State Lease No. E-1533 will be paid immediately by The Pure Oil Company, the lessee, and rentals will likewise be timely paid on State Lease No. E-1480, as well as other leases in the unit area by the respective lessees thereof.

We are also enclosing our check in the amount of \$100.00, as required by Rule 45 of the Rules and Regulations of the State Land Office, for the Commissioner to meet the actual and necessary expenses of any investigation or inspection he may deem necessary to be conducted by a representative

of the State Land Office in connection with the approving of this application. We are also enclosing our check in the amount of \$30.00 as a filing fee, required by Rule 43.

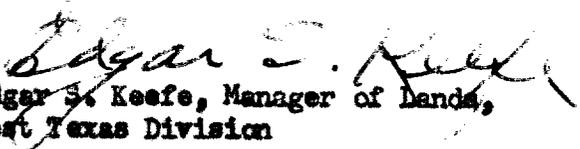
It may be further noted that Union Oil Company of California, as the Operator of the South Vacuum Unit, has a State-wide Lease Bond which will cover its operations upon the unit area.

We will, prior to the time of the hearing on this application, file an amended application more specifically designating the unit area.

We respectfully request that you give your prompt attention to this application.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA


Edgar S. Keefe, Manager of Lands,
West Texas Division

SAS/es

Enclosures (5)

UNION OIL COMPANY OF CALIFORNIA
MAIN OFFICE OCC

UNION OIL BUILDING, 619 WEST TEXAS

MIDLAND, TEXAS

1957 SEP 5 PM 4:25

EDGAR S. KEEFE
MANAGER OF LANDS, WEST TEXAS DIV.

September 5, 1957

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: South Vacuum Unit
Lea County, New Mexico

Gentlemen:

Enclosed is an application for approval of the captioned unit consisting of acreage located in T-18-S, R-35-E, with attached geological map and report supporting said application. Application for approval by the Commissioner of Public Lands has been forwarded to the State Land Office this day.

We contemplate immediately commencing operations at a location in the SW/4 NE/4 of Section 35, T-18-S, R-35-E, N.M.P.M. Union Oil Company of California will be the Operator of the unit area and it will be noted that Union Oil Company of California has a State-wide Lease Bond which will cover its operations in the unit area.

Your prompt attention will be appreciated.

Very truly yours,

UNION OIL COMPANY OF CALIFORNIA


Edgar S. Keefe, Manager of Lands,
West Texas Division

SAS/es
enclosures

PLAN OF DEVELOPMENT AND OPERATION
OF THE
SOUTH VACUUM UNIT, LEA COUNTY, NEW MEXICO,
FOR THE PERIOD
JULY 25, 1958, TO JULY 25, 1959.

THIS PLAN OF FURTHER DEVELOPMENT OF THE SOUTH VACUUM UNIT, executed and submitted this 25th day of July, 1958,

W I T N E S S E T H

WHEREAS, Union Oil Company of California, Shell Oil Company, Sinclair Oil & Gas Company, and The Pure Oil Company entered into a Unit Agreement dated September 6, 1957, recorded in Lea County, New Mexico, on November 20, 1957, in Book 126 at Page 387, which provides for the development and operation of the South Vacuum Unit Area, Lea County, New Mexico, and which Unit Agreement embraces the following described lands:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO

Township 18 South, Range 35 East

Section 27: $SE\frac{1}{4}$
Section 26: $S\frac{1}{2}$
Section 34: $NE\frac{1}{4}$
Section 35: All
Section 36: $SE\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}$, $NW\frac{1}{4}$

containing 1,680 acres, more or less, and

WHEREAS, the Union Oil Company of California, as Operator, drilled the test well provided for in Section 8 of the aforementioned Unit Agreement, known as the Union Oil Company of California No. 1-35, South Vacuum Unit, to a total depth of 11,848 feet, with said test well having been successfully completed as a producer of unitized substances from the Devonian formation on January 26, 1958, with an initial potential of 1,733 barrels of oil per day, and

WHEREAS, the Union Oil Company of California resigned as Unit Operator as of January 26, 1958, and effective the same date The Pure Oil Company was designated and appointed as successor Unit Operator under the terms and provisions of the aforementioned Unit Agreement, which succession as Unit Operator was approved by the Commissioner of Public Lands and by the Oil Conservation Commission of the State of New Mexico effective January 26, 1958;

WHEREAS, the aforementioned Unit Agreement was supplemented by supplemental agreement dated February 25, 1958, approved by the Commissioner of Public Lands of the State of New Mexico April 30, 1958, and further supplemented by supplemental agreement dated May 9, 1958, approved by the Commissioner of Public Lands of the State of New Mexico June 30, 1958.

NOW COMES The Pure Oil Company, Operator of the South Vacuum Unit under the aforementioned Unit Agreement as supplemented, and submits to the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission of the State of New Mexico the following plan for further development and operation of the South Vacuum Unit for the period July 25, 1958, to July 25, 1959.

The Pure Oil Company, as Unit Operator, is currently drilling a well located in the NE/4 of the SE/4 of Section 35, Township 18 South, Range 35 East, Lea County, New Mexico, known as The Pure Oil Company No. 2-35, South Vacuum Unit, with this well to be projected to a depth of approximately 13,250 feet, or to a sufficient depth to encounter fluid in the Ellenburger formation, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well shall be unwarranted or impracticable.

Following the completion of The Pure Oil Company No. 2-35, South Vacuum Unit, the development plan for such unit involves the drilling of the following wells within the South Vacuum Unit:

- 1) A third well to be commenced in September or October, 1958, and to be projected to a depth of approximately 11,800 feet, or sufficient to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well is unwarranted or impracticable.
- 2) A fourth well to be commenced in January or February, 1959, and to be projected to a depth of approximately 11,800 feet, or sufficient to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well is unwarranted or impracticable.
- 3) A fifth well to be commenced in May or June, 1959, and to be projected to a depth of approximately 11,800 feet, or sufficient to test the formation currently producing in The Pure Oil Company No. 1-35, or until in the opinion of the Unit Operator it shall be determined that the further drilling of said well is unwarranted or impracticable.

IN WITNESS WHEREOF, this plan is executed as of the day and year first hereinabove written, and respectfully submitted for approval.

THE PURE OIL COMPANY

By *L. Z. Mearns*
Manager, Texas Producing Division

UNIT OPERATOR - SOUTH VACUUM UNIT,
LEA COUNTY, NEW MEXICO

APPROVED	
TRABE	<i>L. Z. Mearns</i>
FORM	
DESCRIPTION	<i>B</i>

APPROVED THIS 4 DAY OF
AUGUST, 1958.

COMMISSIONER OF PUBLIC LANDS,
STATE OF NEW MEXICO

BY *W. M. Morgan*

APPROVED THIS 5 DAY OF
AUGUST, 1958.

OIL CONSERVATION COMMISSION OF THE
STATE OF NEW MEXICO.

BY *A. L. Patten*