



TONEY ANAYA
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

March 18, 1986

50 YEARS



1935 - 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Amoco Production Company
P. O. Box 3092
Houston, Texas 77253

Attention: J. R. Barnett

Re: 1986 Plan of Development
Greenwood Pre-Grayburg Unit
Eddy County, New Mexico

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

ROY E. JOHNSON,
Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque
OCD District Office - Artesia



Amoco Production Company

Houston Region
501 West Lake Park Boulevard
Post Office Box 3092
Houston, Texas 77253
Southwest Texas—
Eastern New Mexico Division

J. R. Barnett
Division Production
Manager

March 7, 1986

File: JLW(0)-416-1621

Re: 1986 Plan of Development
Greenwood Pre-Grayburg Unit
Eddy County, New Mexico

#961

Area Oil and Gas Supervisor
United States Department of the Interior
Geological Survey
P. O. Drawer 1857
Roswell, NM 88201

Commissioner of Public Lands
State of New Mexico
P. O. Drawer 1148
Santa Fe, NM 87501

Director of Oil and Gas Division
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 87501

Gentlemen:

Amoco Production Company, as Operator of the Greenwood Pre-Grayburg Unit, respectfully requests that a 1986 Plan of Development be approved calling for no development drilling for the year.

Additional development of the Greenwood Pre-Grayburg Unit is being evaluated. All locations with potential will be prudently developed.

We respectfully ask your approval of the foregoing plan.

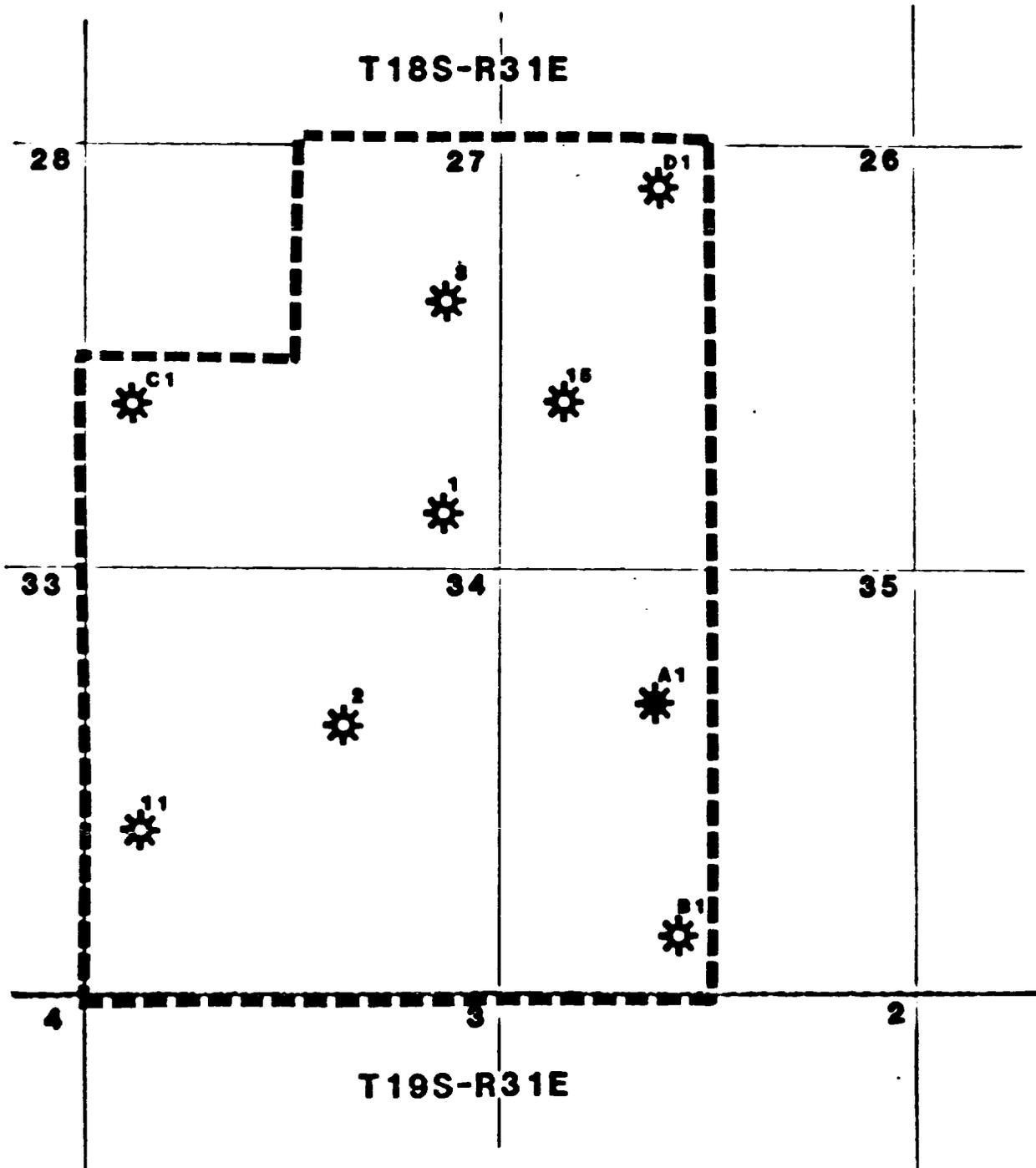
Yours very truly,

BLW/bb

Attachment

GREENWOOD PRE-GRAYBURG UNIT

Eddy Co., New Mexico



Greenwood Pre-Grayburg Unit

Shugart Field

Eddy County, New Mexico

<u>Date</u>	<u>Gas (MCF)</u>	<u>Cond. (BBL)</u>
1/85	73,134	972
2/85	74,855	986
3/85	94,726	1,233
4/85	102,116	1,317
5/85	60,880	1,544
6/85	66,840	1,094
7/85	51,163	513
8/85	77,136	1,105
9/85	77,080	975
10/85	81,190	919
11/85	27,802	373
12/85	51,822	408
TOTAL	838,744	11,439



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

March 31, 1983

TONEY ANAYA
GOVERNOR

Amoco Production Company
501 Westlake Park Blvd.
P.O. Box 3092
Houston, Texas 77253

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Attention: D. M. Basinger

Re: Greenwood Pre-Grayburg
Unit 1983 Plan of Develop-
ment, Eddy County, NM

Dear Mr. Basinger:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the United States Minerals Management Service.

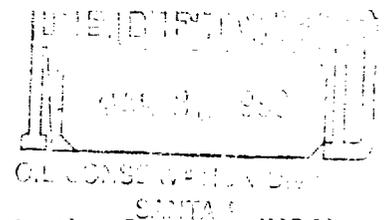
Sincerely,

A handwritten signature in black ink, appearing to read "Roy E. Johnson", with a long horizontal flourish extending to the right.

ROY E. JOHNSON
Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe
Minerals Management Service - Albuquerque
OCD District Office - Artesia



Amoco Production Company (USA)

Houston Region—West
501 WestLake Park Boulevard
Post Office Box 3092
Houston, Texas 77253

West Texas—Eastern
New Mexico Division

- D. M. Basinger
Division Operations
Superintendent

March 24, 1983

File: RWG(6)-416-2206

Re: 1983 Plan of Development
Greenwood Pre-Grayburg Unit
Eddy County, New Mexico

Area Oil and Gas Supervisor
United States Department of the Interior
Geological Survey
P. O. Drawer 1857
Roswell, NM 88201

Commissioner of Public Lands
State of New Mexico
P. O. Drawer 1148
Santa Fe, NM 87501

Director of Oil and Gas Division
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 87501

Gentlemen:

Amoco Production Company, as Operator of the Greenwood Pre-Grayburg Unit, respectfully requests that a 1983 Plan of Development be approved calling for no development drilling for the year.

Additional development of the Greenwood Pre-Grayburg Unit is being evaluated. All locations with potential will be prudently developed.

We respectfully ask your approval of the foregoing plan.

Yours very truly,

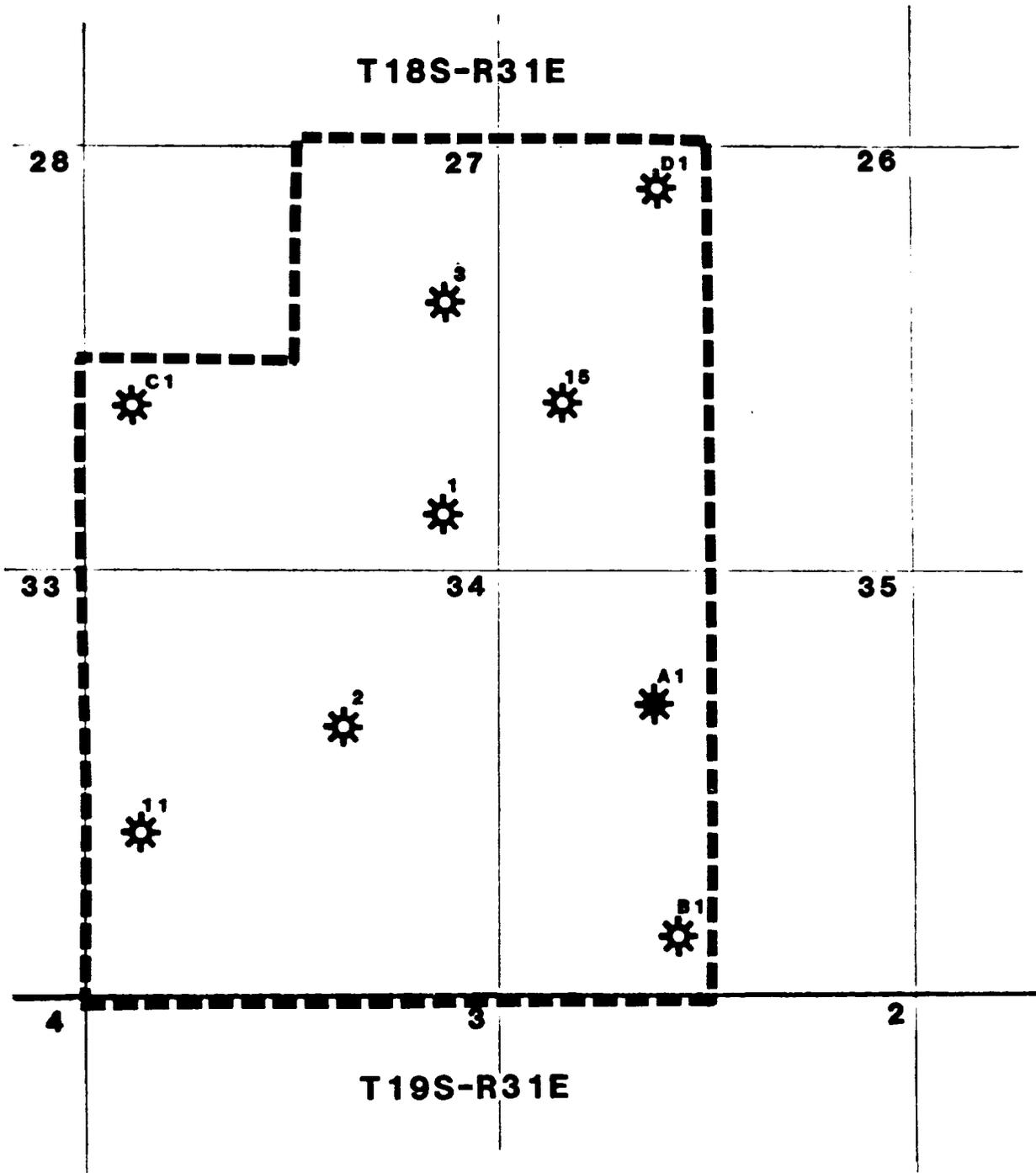
D. M. Basinger

JS/1p
621/G

Attachment

GREENWOOD PRE-GRAYBURG UNIT

Eddy Co., New Mexico



GREENWOOD PRE-GRAYBURG UNIT

SHUGART FIELDS

<u>Well No.</u>	<u>Location</u>	<u>Producing Interval</u>	<u>1982 Production</u> <u>(10-1-82)</u>	
			<u>MCF</u>	<u>BO</u>
1	27P-18-31	Siluro-Devonian	11897	5996
2	34G-18-31	Morrow	30228	331
3	27H-18-31	Morrow	20356	652
11	34L-18-31	Morrow	16675	492
15	26L-18-31	Morrow	3517	579
A-1	35F-18-31	Bone Spring	0	0
B-1	35N-18-31	Morrow	0	0
C-1	27L-18-31	Morrow	61208	1723
D-1	26C-18-31	Atoka	13472	1856

JE/mes
888/V



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

961
January 12, 1967

Pan American Petroleum Corporation
P. O. Box 1410
Fort Worth, Texas 76101

57 JAN 16 1967

Attention: Mr. Neil S. Whitmore

Gentlemen:

Your letter of January 4 advises that Pan American Petroleum Corporation, as unit operator of the Greenwood Pre-Grayburg unit agreement, Eddy County, New Mexico, has determined unit well No. 3 in the SE ~~1/4~~ sec. 27, T. 18 S., R. 31 E., Federal lease Las Cruces 029392b, incapable of producing unitized substances in paying quantities from the Morrow formation. You advise that pressure-production information indicates the well will recover approximately 600,000 MCF of gas, which is insufficient to repay the cost of drilling and allow a reasonable return on investment.

We concur with your determination that unit well No. 3 is incapable of producing unitized substances in paying quantities from the Pennsylvanian reservoir. We are returning herewith all copies of your application dated September 28, 1966, for approval of the first revision of the Pennsylvanian participating area, as requested by your letter.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:
Washington (w/cy. of ltr. of January 4)
NMOCC - Santa Fe (ltr. only) ✓
Artesia (w/cy. of ltr. of January 4)
Accounts

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING P. O. BOX 1410

FORT WORTH, TEXAS--76101

January 4, 1967

File: SJO-500-416

Subject: Withdrawal of Application for
First Enlargement of Penn
Participating Area
Greenwood Pre-Grayburg Unit
Eddy County, New Mexico

Mr. Carl Tpaywisk
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Dear Sir:

Reference is made to our letter of September 28, 1966,
File: SJO-519-416, Subject: Application for First Enlargement of
Penn Participating Area, Greenwood Pre-Grayburg Unit, Eddy County,
New Mexico, and your recent telephone conversation with Mr. D. L.
Ray of our office.

At the time our application was submitted, it appeared the
Greenwood Well No. 3 would produce commercial quantities of unitized
substances. Ultimate reserves for the above well were originally
estimated to be on the order of 2500 MCF. However, additional evalu-
ation of the well since submittal of the application indicates its
economic producing capabilities have declined to a marginal status.
A recent bottom hole pressure showed that the reservoir pressure had
declined from an estimated original pressure of 3660 psi to 1170 psi
after producing 553 MCF of gas. Ultimate reserves are now indicated
to be only 600 MCF. Since the value of these reserves are insuffi-
cient to payout the estimated drilling cost of a single completed Penn
gas well in this area of \$159,350, plus cost to connect the well to
a gathering system, the well can be considered to be non-commercial.
Consequently, Pan American respectfully withdraws its application
for enlargement of the Greenwood Pre-Grayburg Unit.

In addition, we request your formal approval for non-
commercial producer classification of the Greenwood Well No. 3.
Please indicate this approval by signing in the space provided

Mr. Carl Traywick

-2-

File: SJO-500-416

below and return one copy of this letter to our office.

Yours very truly,
Original
Neil S. Whitmore

Neil S. Whitmore
District Production Superintendent

GEM:ja

APPROVED BY: _____ DATE: _____
United States Geological Survey

cc: New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

November 7, 1966

Pan American Petroleum Corporation
P. O. Box 1410
Fort Worth, Texas 76101

Attention: Mr. Neil S. Whitmore

Re: **First Enlargement Participating
Area, Penn Formation, Greenwood
Pre-Grayburg Unit, Eddy County,
New Mexico**

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the first enlargement to the initial participating area, Pennsylvanian formation, for the Greenwood Pre-Grayburg Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey,

Two approved copies of the application are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell

15 Oct 23 1966

October 11, 1966

Pan American Petroleum Corporation
P. O. Box 1410
Fort Worth, Texas

Re: Greenwood Pre-Grayburg Unit
Eddy County, New Mexico

ATTENTION: Mr. Neil S. Whitmore

Gentlemen:

We have received your application dated September 28, 1966, for the First Enlargement of the Pennsylvanian Participating Area for the Greenwood Pre-Grayburg Unit Area.

The Greenwood Pre-Grayburg Unit Area was contracted as of January 7, 1963 and as of that date all State of New Mexico land was eliminated from the Unit, therefore, it is no longer necessary for the Unit Operator to request the Commissioner's approval.

We are returning two copies of this application unapproved.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:

Ted Bilberry, Director
Oil and Gas Department

GBH/MMR/s
encl. 2

Pan American Petroleum Corporation
October 11, 1966
- Page 2.-

cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Oil Conservation Commission
P. O. 0088
Santa Fe, New Mexico

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING P. O. BOX 1410

FORT WORTH, TEXAS—76101

September 28, 1966

File: SJO-519-416

Subject: Application for First Enlargement
of Penn Participating Area
Greenwood Pre-Grayburg Unit
Eddy County, New Mexico

Director (7)
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Commissioner of Public Lands (3)
for the State of New Mexico
P. O. Box 791
Santa Fe, New Mexico

Oil Conservation Commission (3)
for the State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 of the Greenwood Pre-Grayburg Unit Agreement, approved April 23, 1956, Pan American Petroleum Corporation, as unit operator on behalf of itself and the working interest owners, has determined, subject to the approval of the Director, Commissioner, and Commission, that Greenwood Unit Well No. 3, completed in the Pennsylvanian formation is capable of producing unitized substances in paying quantities and that a first enlargement to the initial participating area for the Pennsylvanian formation should be established accordingly. The proposed first enlargement of the Penn participating area contains 320 acres and is described as follows:

NE/4 Section 27 and the NW/4 Section 26, T-18-S, R-31-E,
Eddy County, New Mexico.

The Greenwood Unit Well No. 3, located 1984' FNL and 660' FEL of Section 27, T-18-S, R-31-E, Lea County, New Mexico, was drilled to a total depth of 12,858' and was initially completed in the Devonian formation. Subsequently, this well was recompleted in the Wolfcamp and in the Bone Springs formations. Recompletion operations to complete this well in the Pennsylvanian formation commenced in January 1966. The well was plugged back to 12,050', and the Penn formation was perforated 11,370-72', 11,378-88', 11,467-71', and 11,484-97'. An attempt was made to acidize the completion but the acid communicated to the annulus. The well was then swabbed and it kicked off flowing at a stabilized rate of 4.0 MMCFPD with flowing tubing pressure of 1250# through a 24/64" choke.

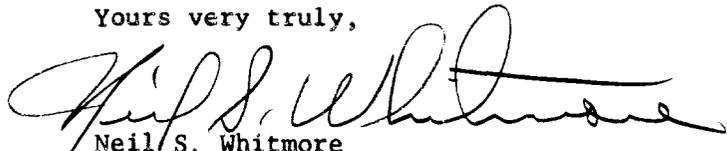
The effective date for the first enlargement to the Penn participating area is determined as February 1, 1966 in accordance with Section 11 of the Greenwood Pre-Grayburg Unit Agreement.

Attached hereto are the following exhibits to aid in your evaluation of this application:

1. Exhibit A, a map of the unit area, which delineates the initial Penn participating area and the proposed first enlargement area.
2. Exhibit B, a schedule, which shows the tracts to be included in the revised Penn participating area and the percentage of unitized substances to be allocated to these tracts.
3. A pertinent data sheet which provides information on the Penn formation, completion data, and production statistics from Greenwood Unit Well No. 3.
4. A structural map, contoured on top of the Atoka marker, with those deep wells in the area that have penetrated the Pennsylvanian formation color coded to show their zone of completion.
5. A cross section which shows the microlog development Pennsylvanian pay intervals as correlated between the three wells within the unit, with completion information listed for each well on the cross section.

If the above proposed first enlargement to the Penn participating area meets with your approval, please indicate hereon. Approval of this first enlargement to the Penn participating area, as proposed, has been received from the affected working interest owners in the unit area.

Yours very truly,


Neil S. Whitmore
District Production Superintendent

RWA:jn
cc: Continental Oil Co.
P. O. Box 460
Hobbs, New Mexico

Cities Service Oil Co.
Bartlesville, Oklahoma

Director, United States Geological Survey

DATE: _____

Commissioner of Public Lands for the State of
New Mexico

DATE: _____

William Lister

Oil Conservation Commission for the State of
New Mexico

DATE: *Nov 7, 1926*