

Case No.

1489

Application, Transcript,
Small Exhibits, Etc.

CASE 1489, SOUTHEAST NEW MEXICO
NOMENCLATURE

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF THE STATE OF NEW
MEXICO FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 1489
Order No. R-1238

THE APPLICATION OF THE OIL
CONSERVATION COMMISSION UPON
ITS OWN MOTION FOR AN ORDER
EXTENDING CERTAIN POOLS IN LEA,
EDDY, AND CHAVES COUNTIES, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on August 13, 1958, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," due notice having been given as required by law.

NOW, on this 14th day of August, 1958, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

(1) That there is need for certain extensions to the Artesia Pool, the Cave Pool, the Empire-Abo Pool, and the Shugart Pool, all in Eddy County, New Mexico, and to the Anderson Ranch-Wolfcamp Pool, the Bagley-Upper Pennsylvanian Gas Pool, the Blinbry Oil Pool, the Bronco Wolfcamp Pool, the Jalmat Pool, the Roberts Pool, the Tatum-Wolfcamp Pool, the Tubb Gas Pool, and the South Vacuum Devonian Pool, all in Lea County, New Mexico, and to the Caprock-Queen Pool in Chaves and Lea Counties, New Mexico.

IT IS THEREFORE ORDERED:

(a) That the Anderson Ranch-Wolfcamp Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM
Section 2: Lots 1, 2, 7, 8, 9, 10, 15, & 16

CASE NO. 1489
Order No. R-1238

(b) That the Artesia Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM
Section 34: NE/4

(c) That the Bagley-Upper Pennsylvanian Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM
Section 4: NW/4

(d) That the Blinbry Oil Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 36: SE/4

(e) That the Bronco-Wolfcamp Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 12 SOUTH, RANGE 38 EAST, NMPM
Section 35: SW/4

(f) That the Caprock-Queen Pool in Lea and Chaves Counties, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 14 SOUTH, RANGE 31 EAST, NMPM
Section 8: SW/4 SW/4
Section 23: SW/4
Section 26: NW/4

(g) That the Cave Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
Section 4: SE/4

(h) That the Empire-Abo Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

-3-

Case No. 1489

Order No. R-1238

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM

Section 10: NE/4

Section 11: NE/4

(i) That the Jalmat Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM

Section 20: S/2

(j) That the Roberts Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM

Section 7: SW/4 & W/2 SE/4

(k) That the Shugart Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM

Section 36: W/2 NW/4

(l) That the Tatum-Wolfcamp Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 13 SOUTH, RANGE 36 EAST, NMPM

Section 7: NE/4

(m) That the Tubb Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

Section 14: NE/4

(n) That the South Vacuum-Devonian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 27: W/2

Section 34: N/2

Section 35: NW/4

-4-

Case No. 1489
Order No. E-1238

IT IS FURTHER ORDERED:

That the effective date of this order and of all the extensions included herein shall be September 1, 1958.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

E. L. Mechem

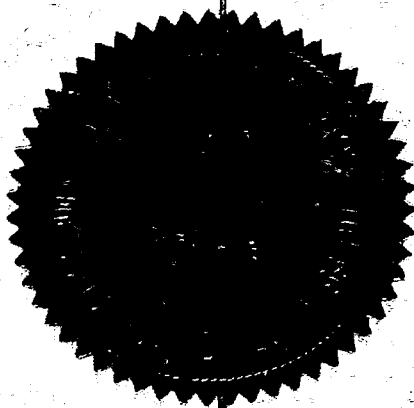
EDWIN L. MECHEM, Chairman

Murray E. Morgan

MURRAY E. MORGAN, Member

A. L. Porter, Jr.

A. L. PORTER, Jr., Member & Secretary



ir/

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

August 19, 1958

C
O
P
Y

Mr. Jack Campbell
Campbell & Russell
P.O. Box 721
Roswell, New Mexico

Dear Mr. Campbell:

On behalf of your client, Texas Pacific Coal & Oil Company,
we enclose a copy of Order R-1238 issued August 14, 1958, by the Oil
Conservation Commission in Case 1489, which was heard on August
13th.

Very truly yours,

A. L. Porter, Jr.
Secretary - Director

bp
Encl.

DOCKET: REGULAR HEARING AUGUST 13, 1958

Oil Conservation Commission 9 a.m. Mabry Hall, State Capitol, Santa Fe, NM

- ALLOWABLE:
- (1) Consideration of the oil allowable for September, 1958
 - (2) Consideration of the allowable production of gas for September, 1958, from six prorated pools in Lea County, New Mexico; also consideration of the allowable production of gas from seven prorated pools in San Juan and Rio Arriba Counties, New Mexico, for September, 1958.

NEW CASES

CASE 1491: Application of Pan American Petroleum Corporation for permission to commingle oil production from two separate leases. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the oil production from two separate leases in the Empire-Abo Pool. One lease comprises the N/2 and SW/4 of Section 11, and the other lease comprises the E/2 of Section 10, all in Township 18 South, Range 27 East, Eddy County, New Mexico. Applicant proposes to separately meter the production from each individual well prior to being run into common storage.

CASE 1492: Application of Amerada Petroleum Corporation for permission to institute a pilot water flood project. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Saunders Pool in an area covering the NE/4 SW/4 and the N/2 of Section 10 and the S/2 S/2 of Section 3, Township 15 South, Range 33 East, Lea County, New Mexico. Applicant proposes to inject water into the Pennsylvanian formation of the Saunders Pool through its State "SG" Well No. 1, located in the NE/4 SW/4 of said Section 10.

CASE 1493: Application of Magnolia Petroleum Company for permission to institute a pilot water flood project and for administrative procedures for the subsequent expansion of said water flood project and for the assignment of a special allowable to said project. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project on its State Bridges Lease in the Vacuum Pool, which comprises all or portions of Sections 3, 10, 11, 12, 13, 14, 15, 22, 23, 24, 25, 26, and 27, Township 17 South, Range 34 East, Lea County, New Mexico. Applicant proposes to inject water into the Grayburg-San Andres formation of the Vacuum Pool through six wells located in said Section 14. Applicant further proposes that administrative procedure be established for (1) expanding said pilot water flood project within the limits of said State Bridges Lease without notice and hearing and (2) assigning a project or lease allowable to the extent necessary for the proper operation of said project.

CASE 1489: Southeastern New Mexico nomenclature case calling for an order for the extension of existing pools in Lea, Eddy and Chaves Counties, New Mexico.

- (a) Extend the Anderson Ranch-Wolfcamp Pool to include:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM
Section 2: Lots 1, 2, 7, 8, 9, 10, 15,
& 16

- (b) Extend the Artesia Pool to include:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM
Section 34: NE/4

- (c) Extend the Bagley-Upper Pennsylvanian Gas Pool to include:

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM
Section 4: NW/4

- (d) Extend the Blinebry Oil Pool to include:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 36: SE/4

- (e) Extend the Bronco-Wolfcamp Pool to include:

TOWNSHIP 12 SOUTH, RANGE 38 EAST, NMPM
Section 35: SW/4

- (f) Extend the Caprock-Queen Pool to include:

TOWNSHIP 14 SOUTH, RANGE 31 EAST, NMPM
Section 8: SW/4 SW/4
Section 23: SW/4
Section 26: NW/4

- (g) Extend the Cave Pool to include:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
Section 4: SE/4

- (h) Extend the Empire Abo Pool to include:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM
Section 10: NE/4
Section 11: NE/4

- (i) Extend the Jalmat Pool to include:

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM
Section 20: S/2

- (j) Extend the Roberts Pool to include:
TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM
Section 7: SW/4 & W/2 SE/4
- (k) Extend the Shugart Pool to include:
TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM
Section 36: W/2 NW/4
- (l) Extend the Tatum-Wolfcamp Pool to include:
TOWNSHIP 13 SOUTH, RANGE 36 EAST, NMPM
Section 7: NE/4
- (m) Extend the Tubb Gas Pool to include:
TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 14: NE/4
- (n) Extend the South Vacuum-Devonian Pool to include:
TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 27: W/2
Section 34: N/2
Section 35: NW/4

CASE 1490:

Northwestern New Mexico nomenclature case calling for an order for the creation of a new pool and the extension of existing pools in Rio Arriba and San Juan Counties, New Mexico.

- (a) Create a new oil pool for Gallup production, designated as the Gallegos-Gallup Oil Pool and described as:

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM
Section 6: SW/4
Section 7: All
Section 8: S/2 & NW/4
Section 9: SW/4
Section 16: W/2
All of Sections 17 and 18
Section 19: N/2
Section 20: N/2
Section 21: N/2

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM
Section 1: S/2
Section 2: S/2
Section 3: S/2 & NW/4
All of Sections 4 and 5
Section 6: NE/4
Section 8: N/2 & SE/4
All of Sections 9, 10, 11, 12 & 13
Section 14: E/2
Section 24: N/2

TOWNSHIP 27 NORTH, RANGE 12 WEST, NMPM

Section 30: SW/4
Section 31: All
Section 32: S/2
Section 33: SW/4

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM

Section 25: S/2
Section 35: NE/4
Section 36: N/2 & SE/4

- (b) Extend the Aztec-Pictured Cliffs Pool to include:

TOWNSHIP 30 NORTH, RANGE 12 WEST, NMPM

Section 2: SE/4

- (c) Extend the South Blanco-Pictured Cliffs Pool to include:

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM

Section 17: SE/4

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

All of Sections 4, 5, & 6

Section 7: N/2 & SE/4

All of Sections 8 & 9

Section 23: SE/4

Section 24: SW/4

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM

Section 1: All

Section 2: N/2

Section 12: N/2

TOWNSHIP 27 NORTH, RANGE 5 WEST, NMPM

All of Sections 31 & 32

TOWNSHIP 27 NORTH, RANGE 6 WEST, NMPM

Section 2: S/2

Section 11: E/2

Section 12: W/2

Section 13: NW/4

Section 16: All

Section 17: S/2

All of Sections 35 & 36

TOWNSHIP 27 NORTH, RANGE 7 WEST, NMPM

Section 4: All

Section 5: NE/4

- (d) Extend the Tapacito-Pictured Cliffs Pool to include:

TOWNSHIP 25 NORTH, RANGE 3 WEST, NMPM

Section 9: SE/4

Section 16: NE/4

- (e) Extend the Blanco Mesaverde Pool to include:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM
Section 8: W/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM
Section 11: All

TOWNSHIP 27 NORTH, RANGE 8 WEST, NMPM
Section 32: S/2
Section 33: W/2

- (f) Extend the Bisti-Lower Gallup Oil Pool to include:

TOWNSHIP 24 NORTH, RANGE 10 WEST, NMPM
Section 3: SW/4
Section 10: NW/4

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM
Section 29: N/2 NW/4 & NW/4 NE/4

- (g) Extend the Escrito-Gallup Oil Pool to include:

TOWNSHIP 24 NORTH, RANGE 7 WEST, NMPM
Section 15: SW/4 SW/4
Section 22: NW/4

- (h) Extend the Horseshoe-Gallup Oil Pool to include:

TOWNSHIP 30 NORTH, RANGE 16 WEST, NMPM
Section 4: NE/4 SW/4

- (i) Extend the South Blanco-Tocito Oil Pool to include:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM
Section 11: W/2 SW/4

OK

*W. H. [unclear]
Artesia
Be well*

In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order for the ~~creation of a new pool and the~~ extension of existing pools in Lea, Eddy and Chaves Counties, New Mexico, and giving notice to all persons and parties interested in the subject matter thereof to appear and show cause why such a creation and extensions should not be made.

~~4. Create a new pool in Eddy County, New Mexico, classified as an oil pool for Grayburg production, designated as the North Shugart Grayburg Pool, and described as:~~

~~Twp. 18 South, Range 31 East
SE/4 of Section 20~~

NO

and such other, etc.

a (1) Extend the Anderson Ranch Wolfcamp Pool boundary in Lea County, New Mexico to include therein:

Twp. 16 South, Range 32 East
Lots 1, 2, 7, 8, 9, 10, 15 E/6 of
Section 2

and such other, etc.

b (1) Extend the Artesia Pool boundary in Eddy County, New Mexico to include therein:

Twp. 17 South, Range 28 East
NE/4 of Section 34

and such other, etc.

c (1) Extend the Bagley Upper Pennsylvanian Gas Pool boundary in Lea County New Mexico to include therein:

Twp. 12 South, Range 33 East
NW/4 of Section 4

and such other, etc.

d (1) Extend the Blinebry Oil Pool boundary in Lea County, New Mexico to include therein:

Twp. 22 South, Range 37 East
SE/4 of Section 36

and such other, etc.

e (1) Extend the Bronco Wolfcamp Pool boundary in Lea County, New Mexico to include therein:

Twp. 12 South, Range 38 East
SW/4 of Section 35

and such other, etc.

f (g) Extend the Caprock Queen Pool boundary in Chaves County, New Mexico to include therein:

Twp. 14 South, Range 31 East
SW/4 SW/4 of Section 8
SW/4 of Section 23
NW/4 of Section 26

and such other, etc.

g (h) Extend the Cave Pool boundary in Eddy County, New Mexico to include therein:

Twp. 17 South, Range 29 East
SE/4 of Section 4

and such other, etc.

h (i) Extend the Empire Abo Pool boundary in Eddy County, New Mexico to include therein:

Twp. 18 South, Range 27 East
NE/4 of Section 10
NE/4 of Section 11

and such other, etc.

i (j) Extend the Jalmat Pool boundary in Lea County, New Mexico to include therein:

Twp. 23 South, Range 36 East
S/2 of Section 20

and such other, etc.

j (k) Extend the Roberts Pool boundary in Lea County, New Mexico to include therein:

Twp. 17 South, Range 33 East
SW/4 & W/2 SE/4 of Section 7

and such other, Etc.

k (l) Extend the Shugart Pool boundary in Eddy County, New Mexico to include therein:

Twp. 18 South, Range 31 East
W/2 NW/4 of Section 36

L (a) Extend the Tatum Wolfcamp Pool boundary in Lea County, New Mexico to include therein:

Twp. 13 South, Range 36 East
NE/4 of Section 7

and such other, etc.

M (a) Extend the Tubb Gas Pool boundary in Lea County, New Mexico to include therein:

Twp. 21 South, Range 37 East
NE/4 of Section 14

and such other, etc.

N (a) Extend the South Vacuum Devonian Pool boundary in Lea County, New Mexico to include therein:

Twp. 18 South, Range 35 East
W/2 of Section 27
N/2 of Section 34
NW/4 of Section 35

Providing further

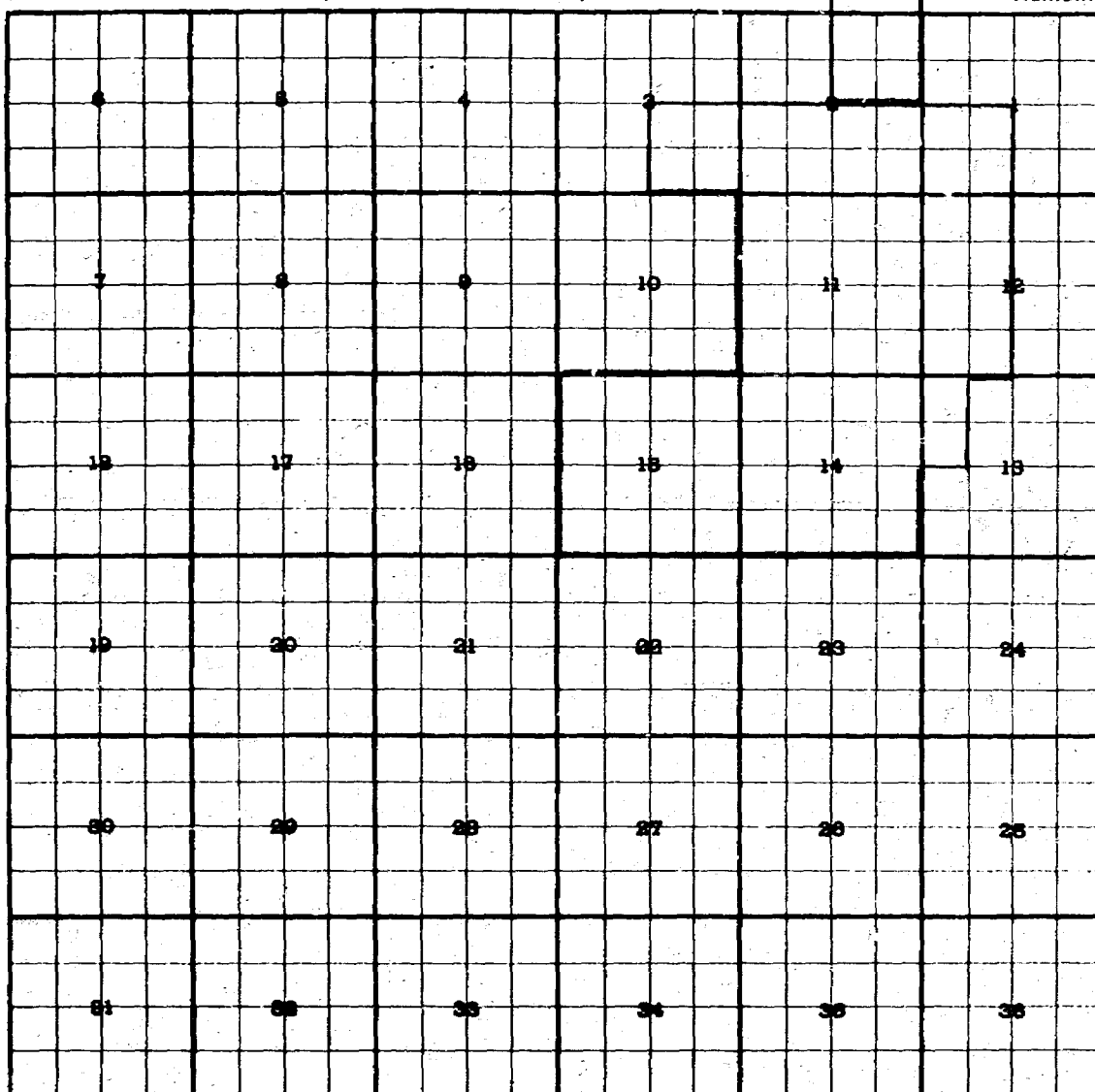
Case 1489: (A) Extension of an existing pool

County LEA

Pool ANDERSON RANCH-WOLFCAMP

9-10 Wolfcamp

TOWNSHIP 16 South, RANGE 32 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: Two completed wells capable of producing

Gulf Oil Corp.-Lea State "CL" A #1 in Unit G, Sec. 2-16-32

Comp. in Wolfcamp 7/28/58. Top Perf. 9628

Gulf Oil Corp.-Lea State "R" A #1 in Unit A, Sec. 2-16-32

Comp in Wolfcamp 5/13/58. Top Perf. 9828

Pool boundary colored in Red:

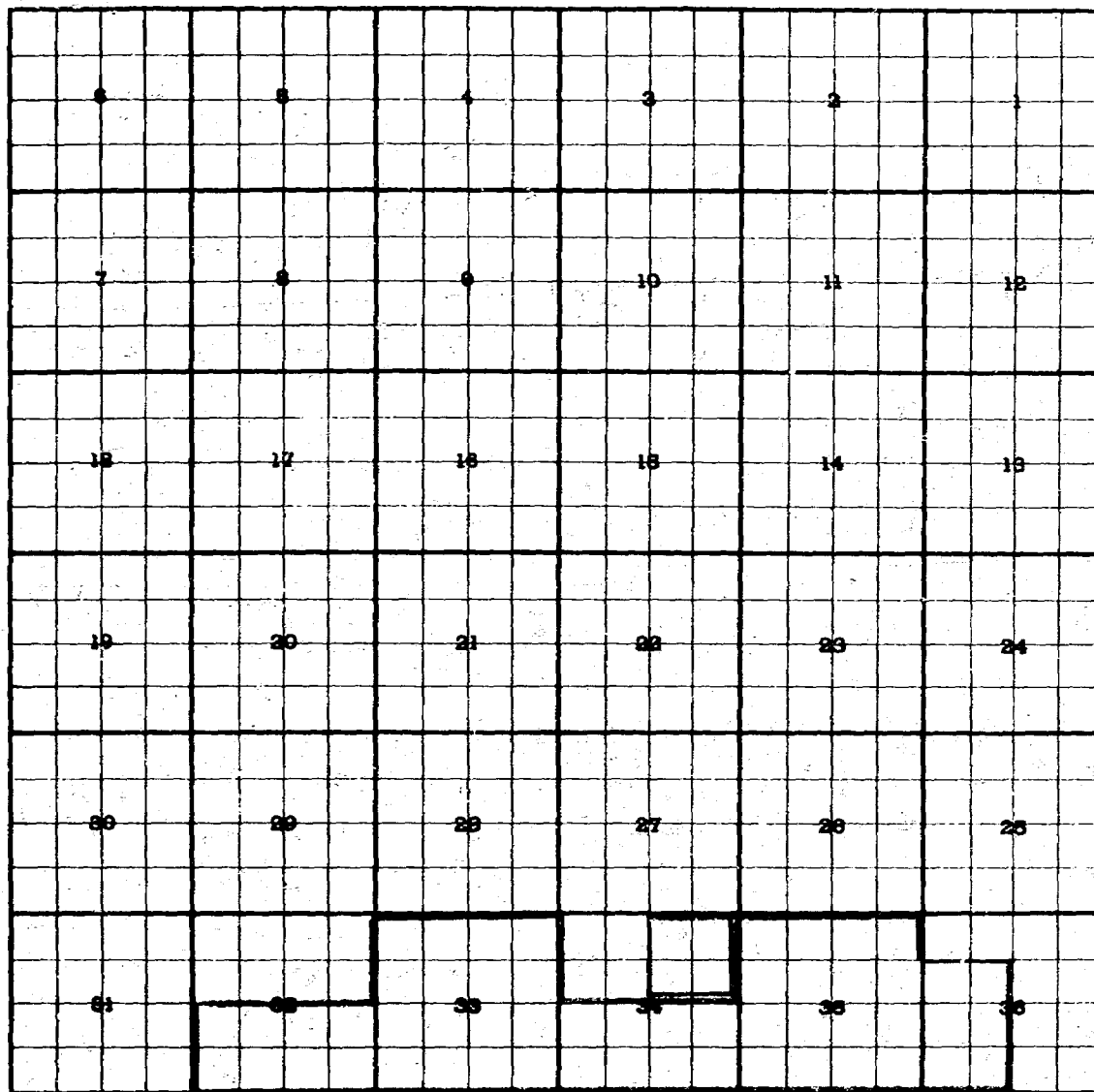
Proposed Extension Colored in Green: Lots 1, 2, 7, 8, 9, 10, 15, & 16
of Section 2

Case 1489: (B) Extension of an existing pool

County EDDY Pool ARTESIA

O-5 Grayburg & San Andres

TOWNSHIP 17 South, RANGE 28 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One completed well capable of producing

Kersey & Company-Pan American #1 in Unit G, of Section 34-17-28

Comp. in the Grayburg 5/21/58. Top Perf. 1620.

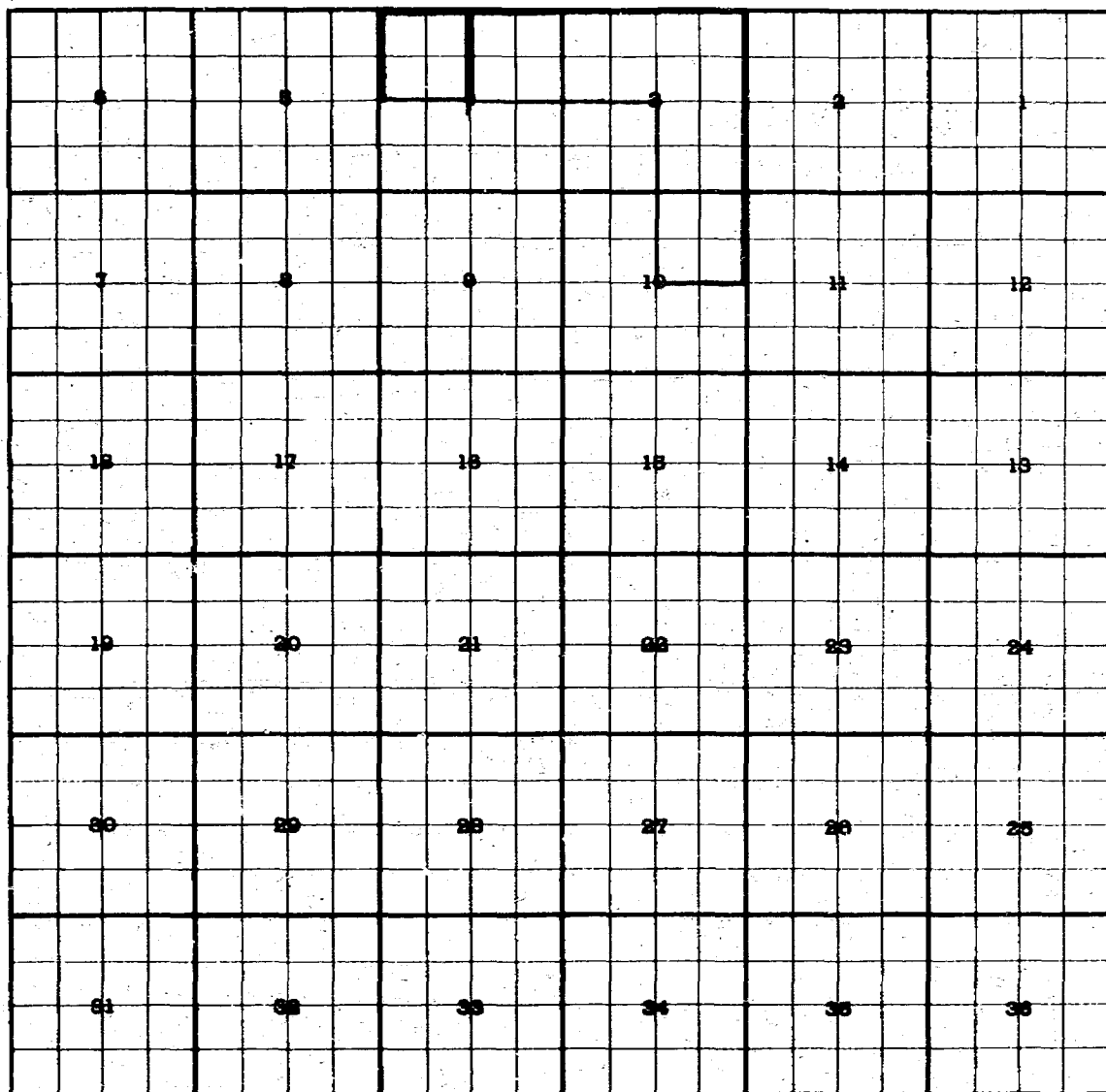
Pool boundary colored in Red:

Proposed Extension Colored in Green: NE/4 of Section 34

Case 1489 (C) Extension of an existing pool

County LEA Pool BAGLEY UPPER PENNSYLVANIAN GAS

TOWNSHIP 12 South, RANGE 33 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: To extend the pool for the inclusion of the acreage dedicated to a completed gas well.

Texas Pacific Coal & Oil Co.-State "C" A/c-2 #1 in Unit A of Section 4-12-33. The NW/4 of section 4 is outside the pool boundary and this portion is dedicated to the well.

Pool boundary Colored in Red:

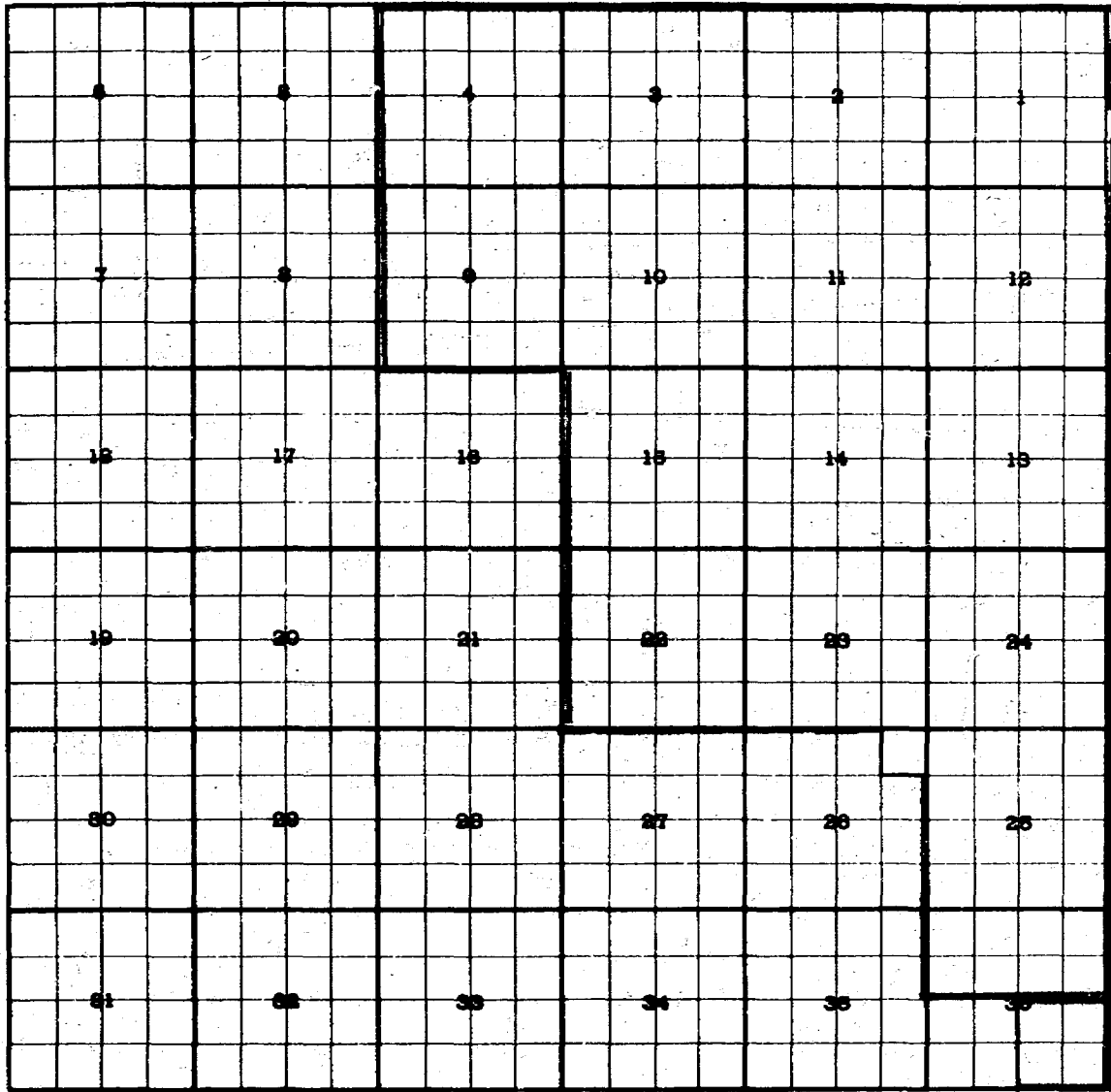
Proposed Extension Colored in Green: NW/4 of Section 4

Case 1499: (D) Extension of an existing pool

County LEA Pool BLINEBRY OIL

5-6 Blinebry

TOWNSHIP 22 South, RANGE 37 East, NEW MEXICO PRINCIPAL MERIDIAN



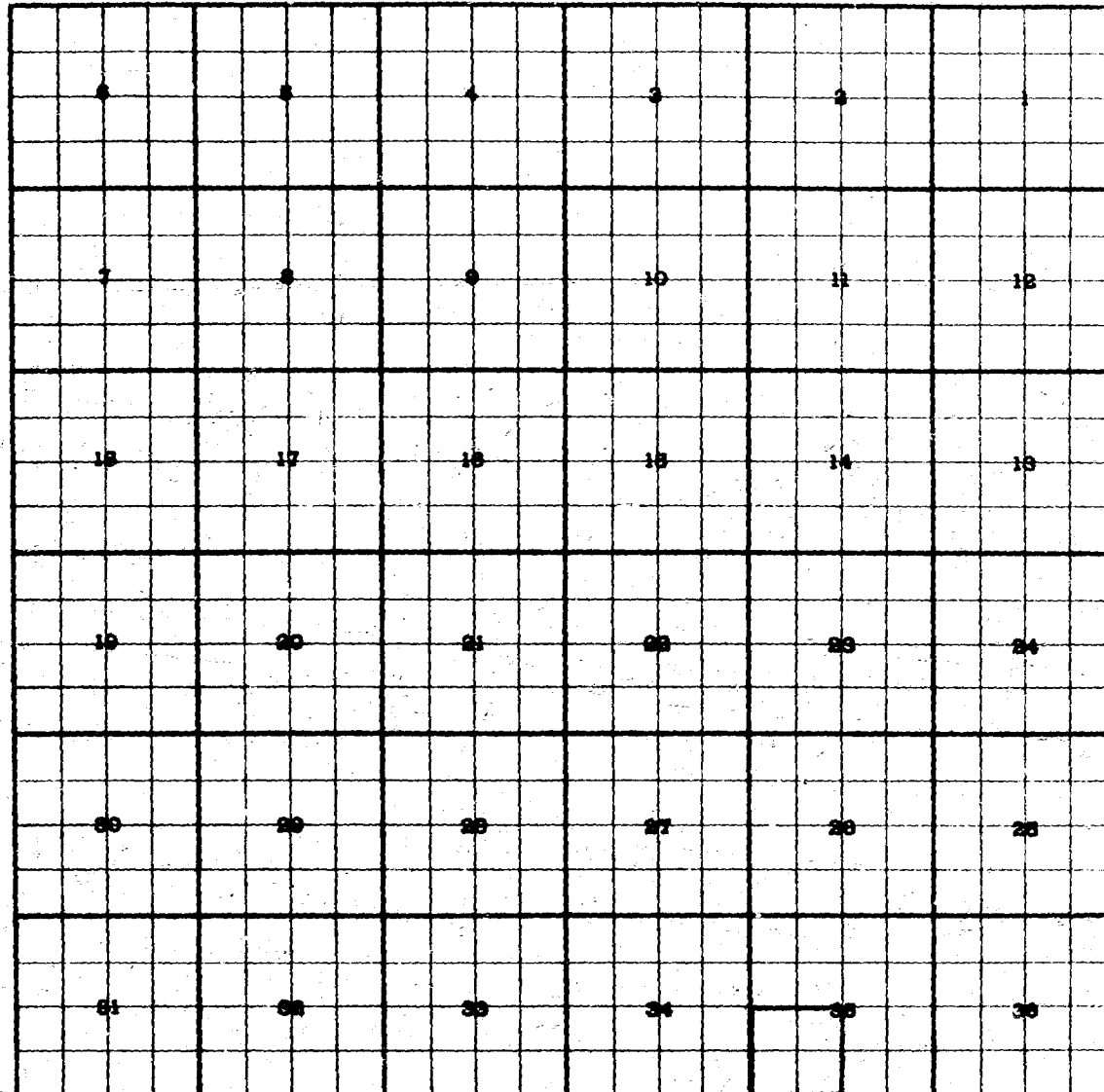
Purpose: One completed well capable of producing
Aztec Oil & Gas Co., State BD-36 #1 in Unit J of Section 36-22-37
Comp. in Blinebry 6/1/58. Top Perf. 5470.
Pool boundary colored in Red:
Proposed Extension colored in Green: SE/4 of Section 36

Case 1489: (E) Extension of an existing pool

County LEA Pool BRONCO WOLFCAMP

9-10 Wolfcamp

TOWNSHIP 12 South, RANGE 38 East, NEW MEXICO PRINCIPAL MERIDIAN



13-38

Purpose: One completed well capable of producing

The Texas Company-H. H. Harris #1 in Unit N, of Section 35-12-38

Comp. in Wolfcamp 6/17/58. Top Perf. 9040

Pool Boundary colored in Red:

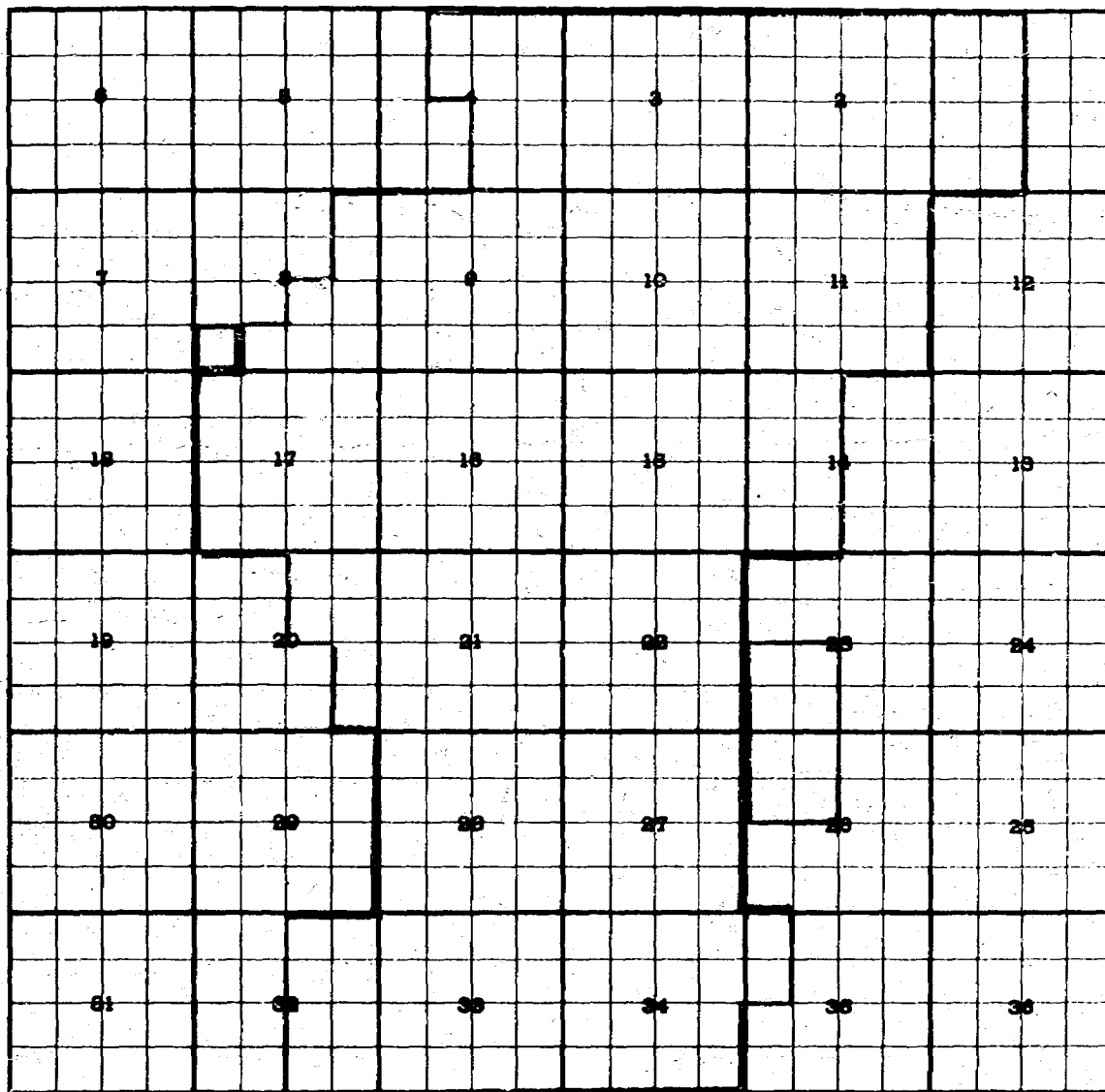
Proposed extension colored in Green: SW/4 of Section 35

Case 1489: (F) Extension of an existing pool

County CHAVES Pool CAPROCK QUEEN

0-5 Queen

TOWNSHIP - 14 South, RANGE 31 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: Two completed wells capable of producing and five drilling wells in this area.

Shelton Warren Oil Producers--Hardin Simmons University #1 in Unit M,
of Section 23-14-31, Comp in Queen 6/1/58. Top Perf. 3101.

Shelton Warren Oil Producers - Hardin Simmons University #2 in Unit L,
of Section 23-14-31, Comp in Queen 7/10/58. Top Perf. 3098.

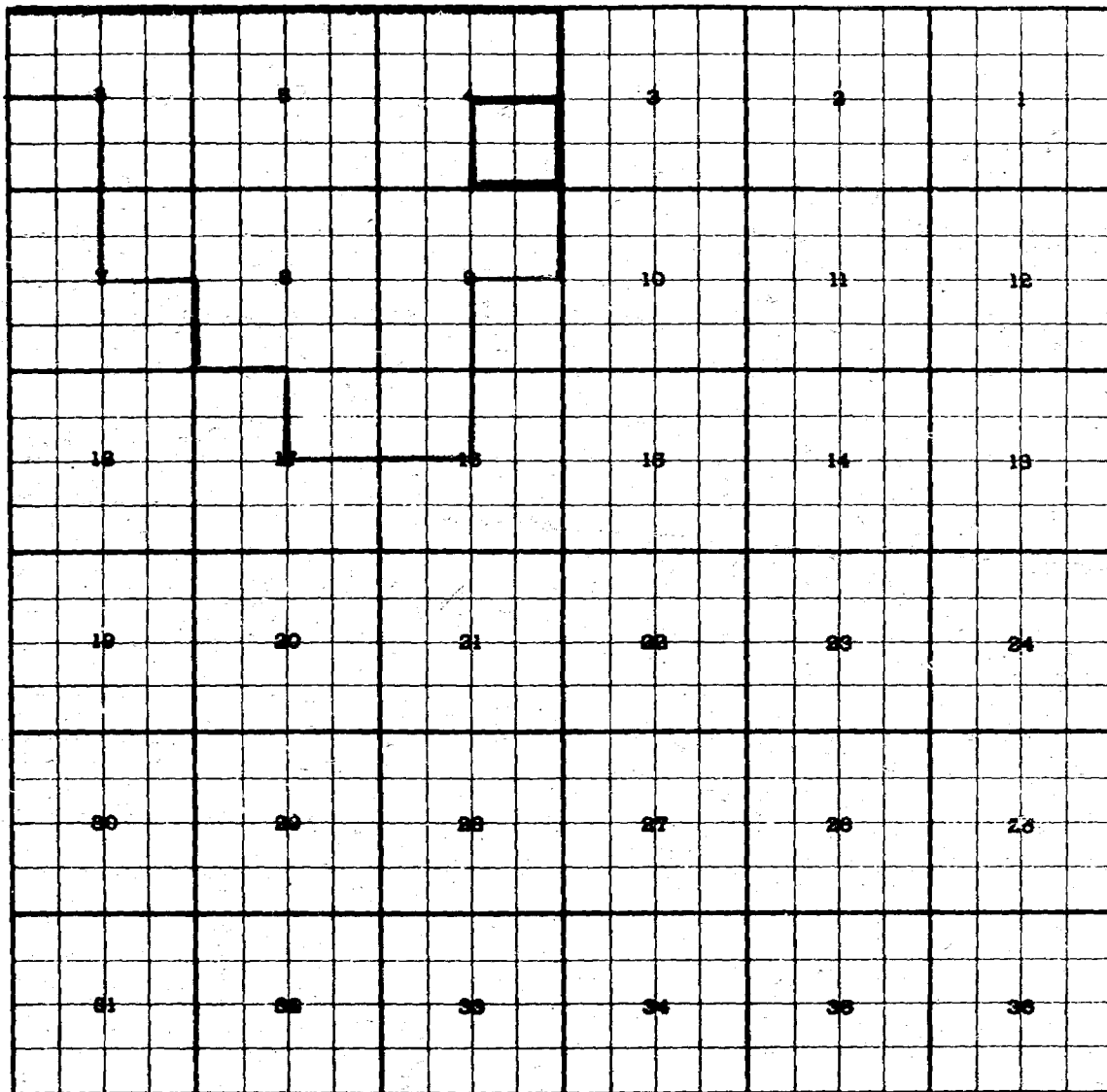
Pool boundary Colored in Red:

Proposed extension Colored in Green: SW/4 SW/4 of Section 8
SW/4 of Section 23
NW/4 of Section 26

Case 1489: (G) Extension of an existing pool

County EDDY Pool CAVE

0-5 Grayburg

TOWNSHIP 17 South, RANGE 29 East, NEW MEXICO PRINCIPAL MERIDIAN

Purpose: Two completed wells capable of producing

John M. Kelly-Gulf Elk #4 in Unit O of Section 4-17-29
Comp. in Grayburg 7/22/58. Top Perf. 2392.

John M. Kelly, Gulf Elk #3 in Unit J of Section 4-17-29
Comp. in Grayburg 6/21/58. Top Perf. 2379.

Pool boundary colored in Red:

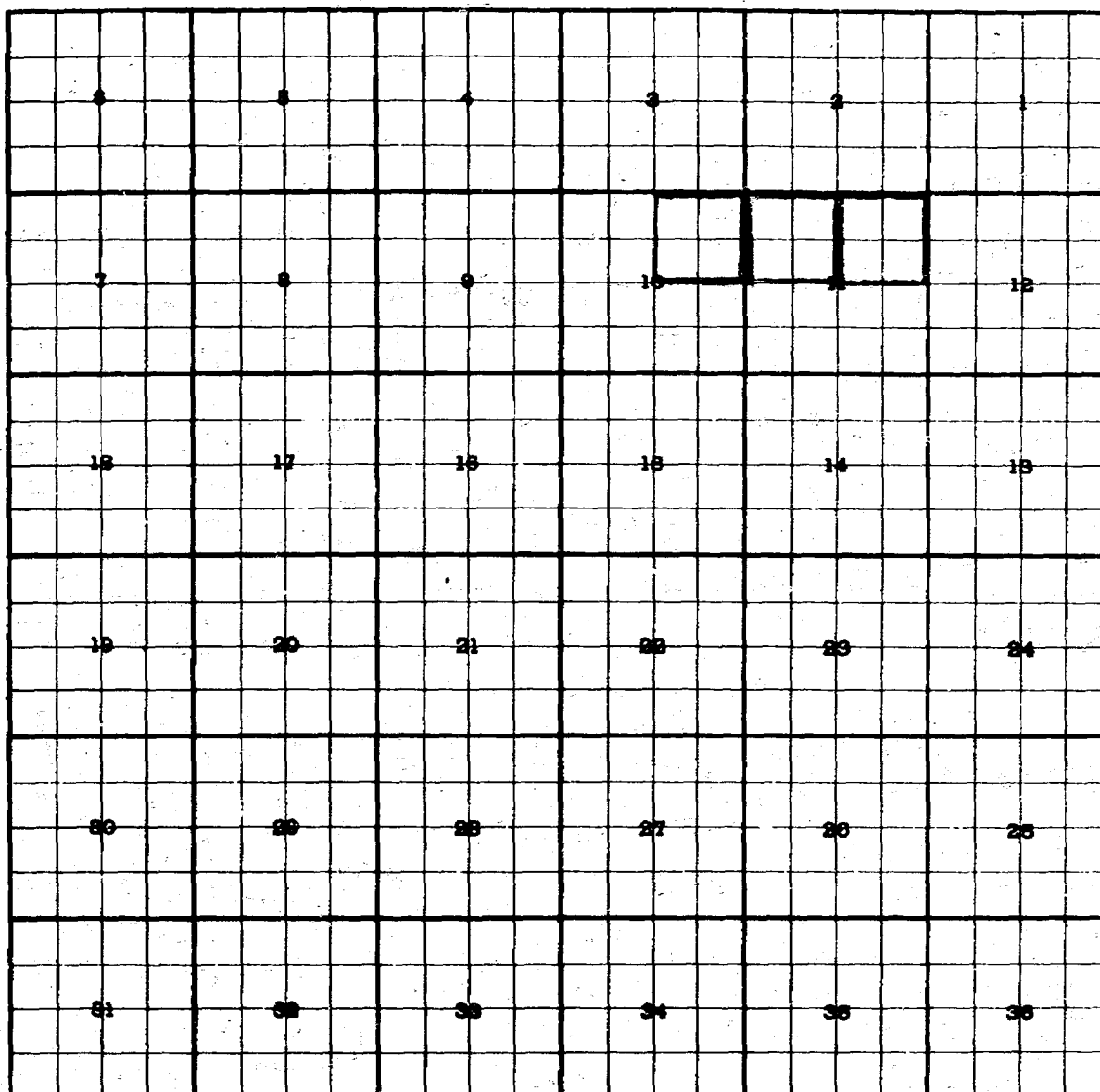
Proposed extension Colored in Green: SE/4 of Section 4

Case 1489: (H) Extension of an existing pool

County EDDY Pool EMPIRE ABO

6-7 Abo

TOWNSHIP 18 South, RANGE 21 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One completed well capable of producing and one drilling well in area.

Pan American Pet. Corp.-M S A Malco Ref. C #1 in Unit B, of Sec. 11-18-27

Comp. in Abo 6/8/58. Top Perf. 6138

Pool boundary colored in Red:

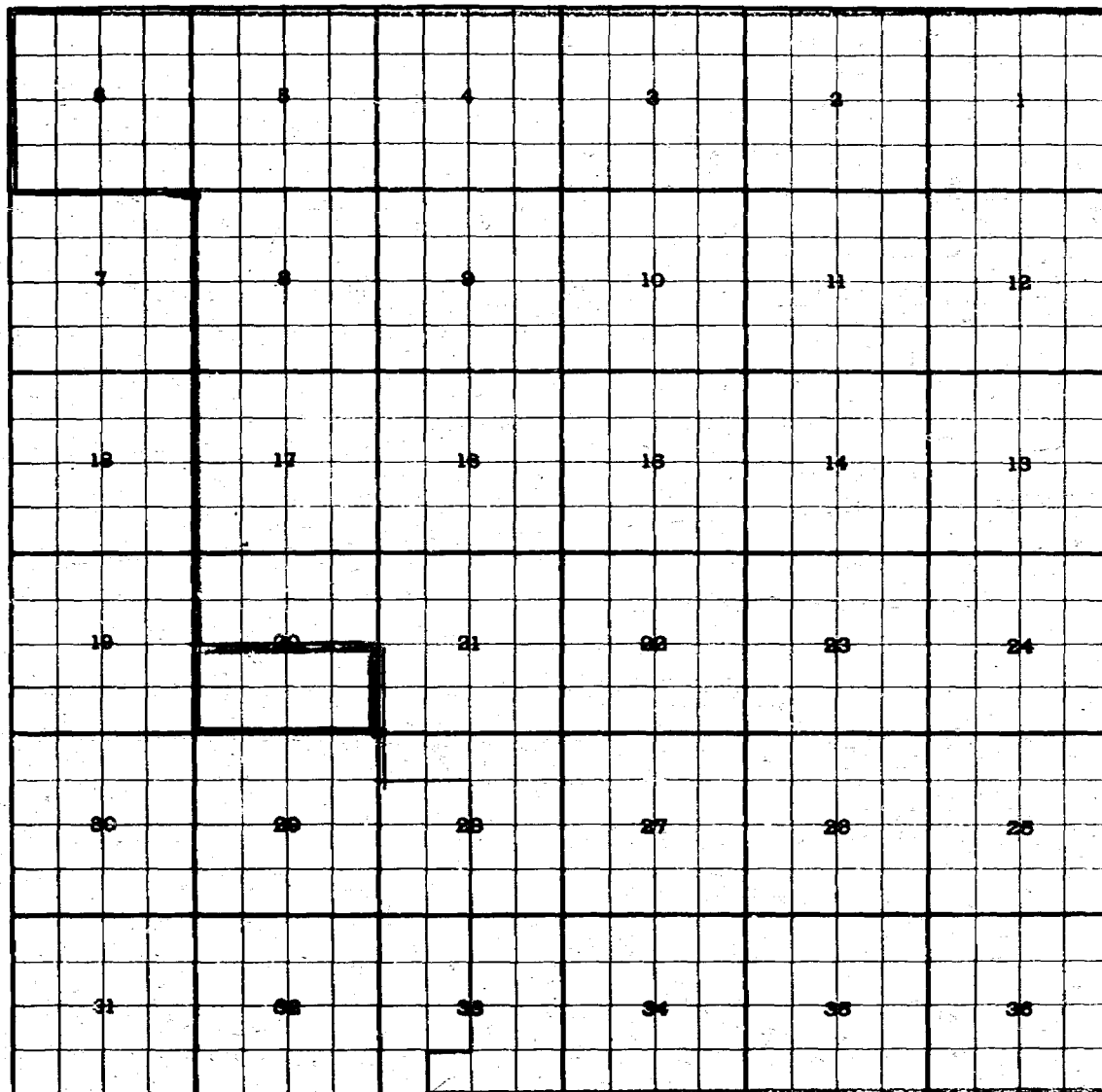
Proposed Extension colored in Green: NE/4 of Section 10
NE/4 of Section 11

Case 1489: (I) Extension of an existing pool

County LEA Pool JALMAT

0-5 Yates & Seven Rivers

TOWNSHIP 23 South, RANGE 36 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One completed well capable of producing

Sinclair Oil & Gas Co. - Federal 714 #4 in Unit K of Section 20-23-36
Comp. in Yates 6/1/58. Top Perf. 3665.

Pool boundary colored in Red:

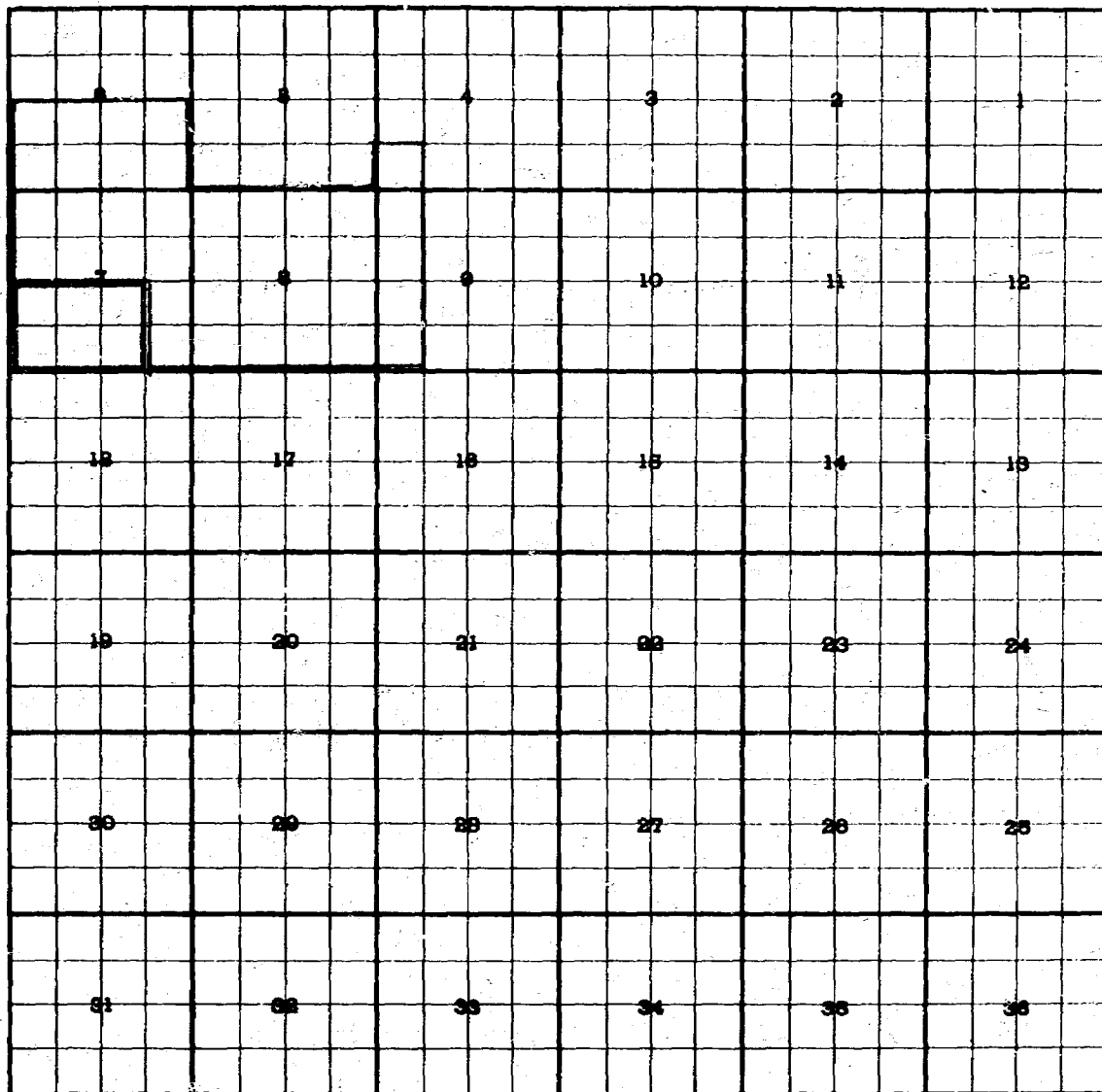
Proposed Extension Colored in Green: S/2 of Section 20

Case 1489: (J) Extension of an existing pool

County LEA Pool ROBERTS

Grayburg 0-5

TOWNSHIP 17 South, RANGE 33 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One completed well capable of producing

Len G. McCormick & Associates-Phillips State #3 in Unit 0

of Section 7-17-33. Comp in Grayburg 7/9/58. Top Perf. 4196

Pool boundary colored in Red:

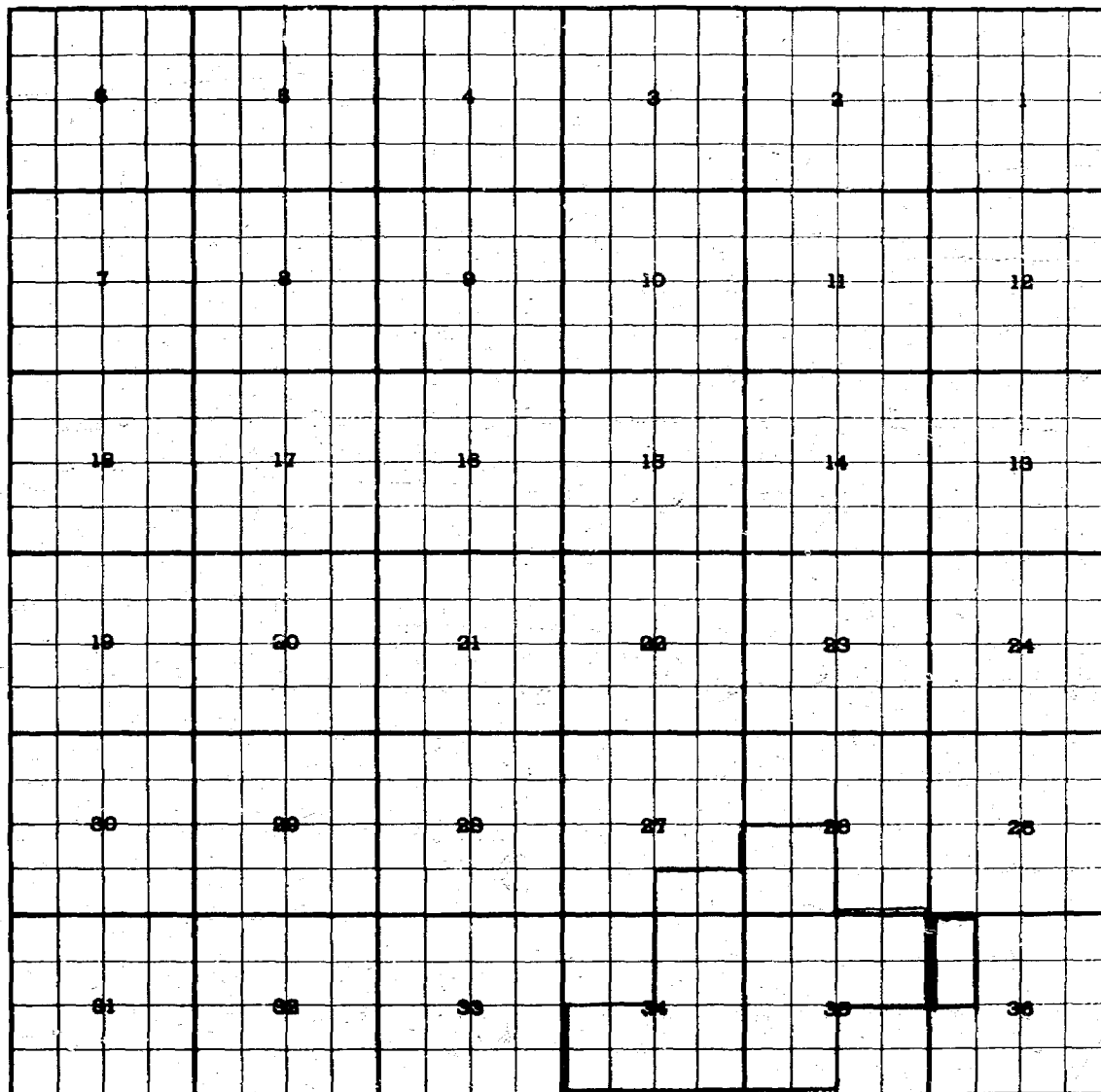
Proposed Extension Colored in Green: SW/4 & W/2 SE/4 of Section 7

Case 1489: (K) Extension of an existing pool

County EDDY Pool SHUGART

0-5 Yates & Grayburg

TOWNSHIP 18 South, RANGE 31 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One completed well capable of producing

Tom Boyd-State 36 #1 in Unit D of Section 36-18-31

Comp. in Grayburg 6/20/58. Top Perf. 3840

Pool boundary colored in Red:

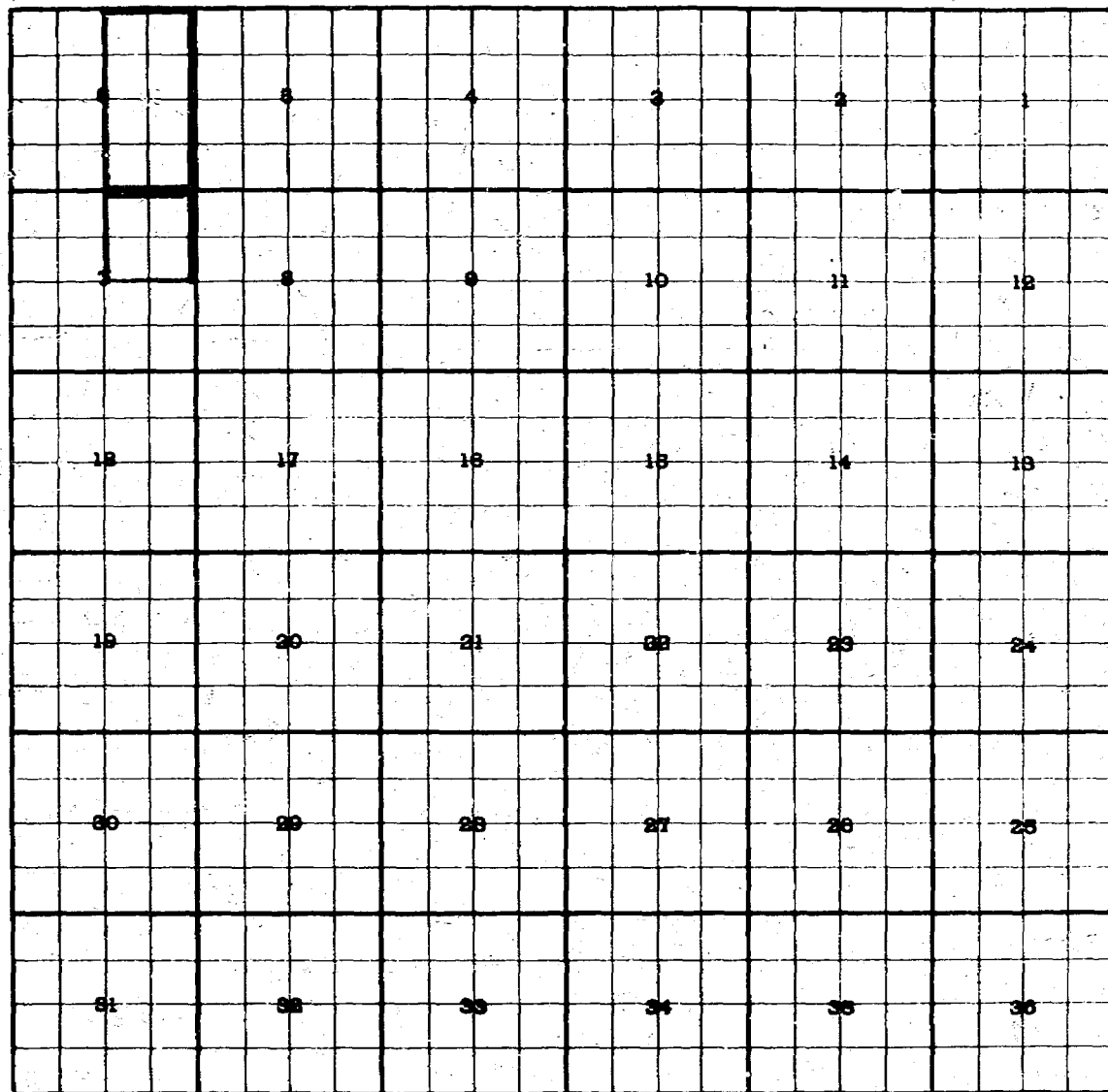
Proposed Extension colored in Green: W/2 NW/4 of Section 36

Case 1489: (L) Extension of an existing pool

County LEA Pool TATUM-WOLF CAMP

10-11 Wolfcamp

TOWNSHIP 13 South, RANGE 36 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One completed well capable of producing

Union Oil Co. of Calif.-W. H. Anderson #1-7 in Unit H of Sec. 7-13-36

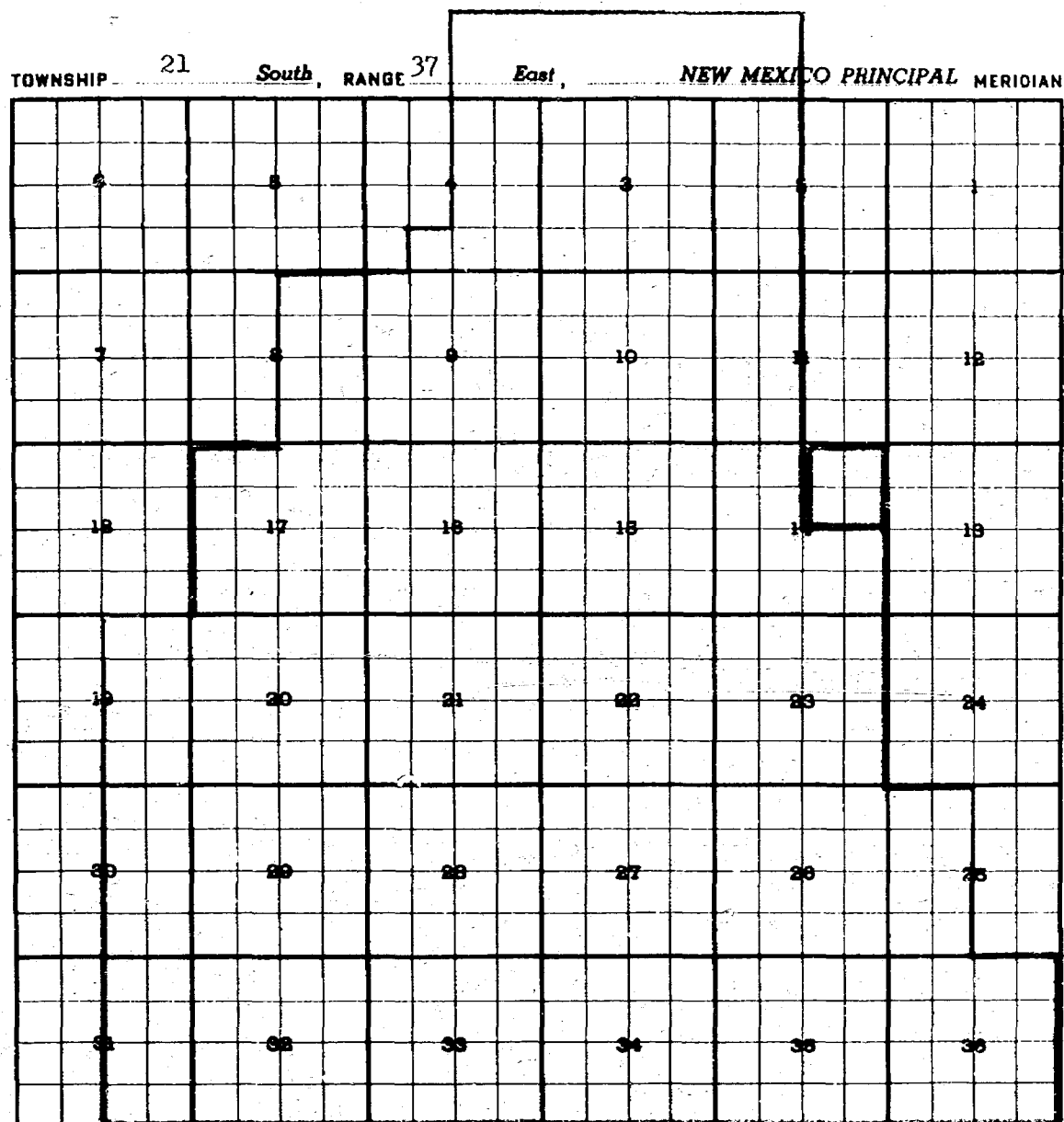
Comp in Wolfcamp 6/17/58. Top Perf. 10,316

Pool boundary colored in Red:

Proposed Extension Colored in Green: NE/4 of Section 7

Case 1489: (M) Extension of an existing pool

County LEA Pool TUBB GAS



Purpose: To extend the pool to include the acreage dedicated to a gas well.

Pool boundary colored in Red:

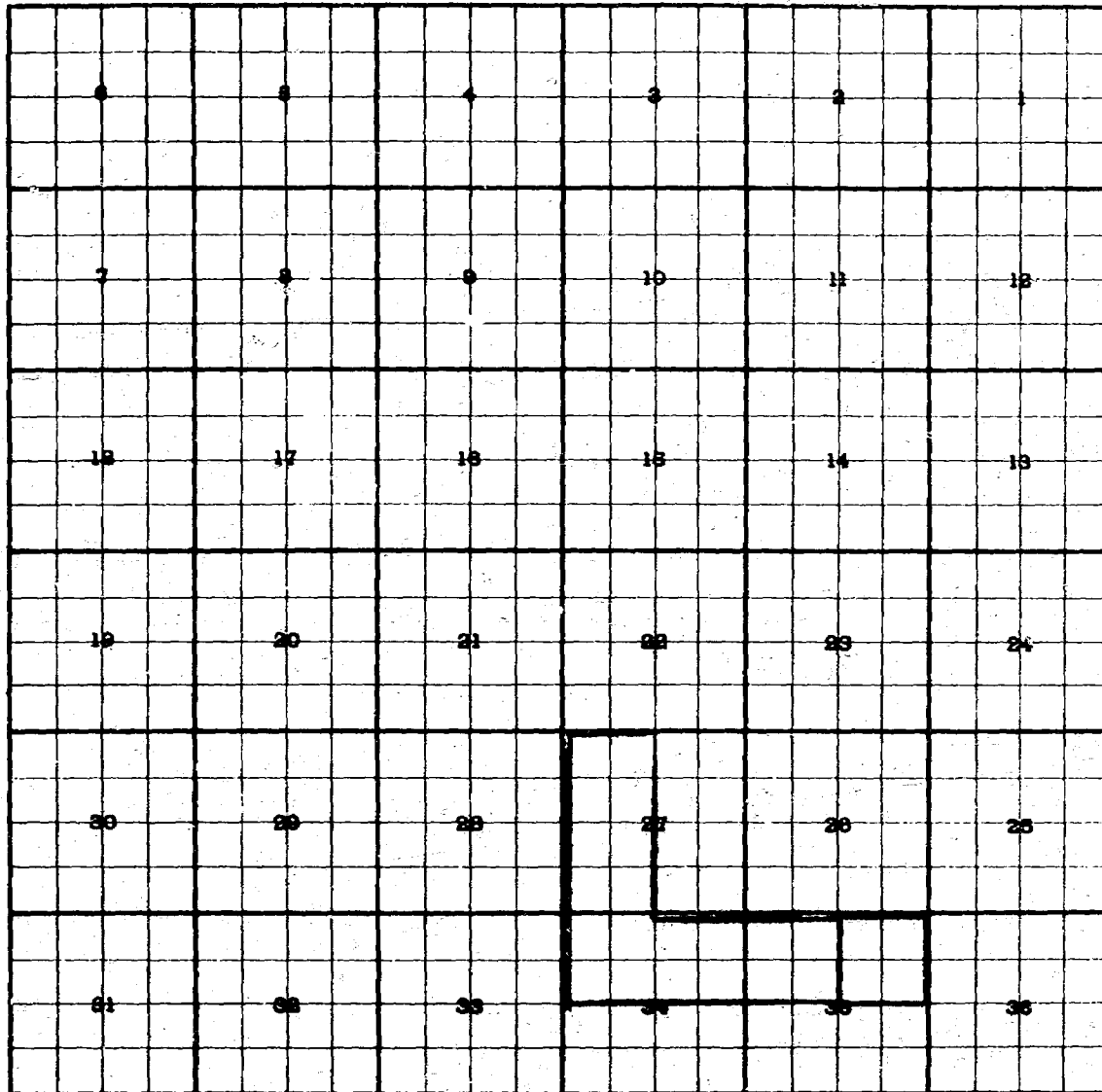
Proposed Extension colored in green: NE/4 of Section 14

Case 1489: (N) Extension of an existing pool

County LEA Pool SOUTH VACUUM DEVONIAN

11-12 Devonian

TOWNSHIP 18 South, RANGE 35 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One completed well capable of producing and one drilling well.

Sinclair Oil & Gas Co.-State Lea 405 #1 in Unit C of Sec. 27-18-35

Comp. in Devonian 6/5/58. Top Perf. 11,769

Pool boundary colored in Red:

Proposed Extension colored in Green: W/2 of Section 27

N/2 of Section 34

NW/4 of Section 35

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

IN THE MATTER OF:

CASE NO. 1489

TRANSCRIPT OF HEARING

AUGUST 13, 1958

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE NEW MEXICO
Phone CHapel 3-6691

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
AUGUST 13, 1953

IN THE MATTER OF:

CASE 1489 Southeastern New Mexico nomenclature case:
calling for an order for the extension of:
existing pools in Lea, Eddy and Chavez
Counties, New Mexico.

(a) Extend the Anderson Ranch-Wolfcamp
Pool to include:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM:
Section 2: Lots 1, 2, 7, 8, 9, 10,
15, & 16

(b) Extend the Artesia Pool to include:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM:
Section 34: NE/4

(c) Extend the Bagley-Upper Pennsylvanian:
Gas Pool to include:

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM:
Section 4: NW/4

(d) Extend the Blinbry Oil Pool to in-
clude:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM:
Section 36: SE/4

(e) Extend the Bronco-Wolfcamp Pool to
include:

TOWNSHIP 12 SOUTH, RANGE 38 EAST, NMPM:
Section 35: SW/4

(f) Extend the Caprock-Queen Pool to in-
clude:

TOWNSHIP 14 SOUTH, RANGE 31 EAST, NMPM:

Section 6: SE/4 SE/4
 Section 23: SE/4
 Section 26: NW/4

(g) Extend the Cave Pool to include:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM:
 Section 4: SE/4

(h) Extend the Empire Abo Pool to include:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM:
 Section 10: NE/4
 Section 11: NE/4

(i) Extend the Jalmat Pool to include:

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM:
 Section 20: S/2

(j) Extend the Roberts Pool to include:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM:
 Section 7: SW/4 & W/2 SE/4

(k) Extend the Shugart Pool to include:

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM:
 Section 36: W/2 NW/4

(l) Extend the Tatum-Wolfcamp Pool to include:

TOWNSHIP 13 SOUTH, RANGE 36 EAST, NMPM:
 Section 7: NE/4

(m) Extend the Tubb Gas Pool to include:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM:
 Section 14: NE/4

(n) Extend the South Vacuum-Devonian Pool to include:

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM:
 Section 27: W/2
 Section 34: N/2
 Section 35: NW/4

BEFORE:

Mr. Edwin L. Mechem
Mr. Murray Morgan
Mr. A. L. Porter

TRANSCRIPT OF PROCEEDINGS

MR. PORTER: We will take up next Case 1489.

MR. PAYNE: Southeastern New Mexico nomenclature case calling for an order for the extension of existing pools in Lee, Eddy and Chaves Counties, New Mexico.

MR. COOLEY: If it please the Commission, Mr. Campbell, representing Texas Pacific Coal & Oil Company, has requested that he be permitted to present testimony on Paragraph (c) of Case 1489 regarding the extension of the Bagley-Upper Pennsylvanian Gas Pool. We have no objection to that proposal.

MR. CAMPBELL: If the Commission please, I am Jack M. Campbell of Campbell & Russell, Roswell, New Mexico, appearing on behalf of Texas Pacific Coal & Oil Company. I might explain the reason we have requested to put on this testimony. We have a 320-acre unit in that Pool, and we discovered that while we had obtained administrative approval in the proper manner for a 320-acre unit, that, unfortunately, 160-acre wasn't in the defined limits of the Pool. In this hearing we will put on some testimony with regard to whether or not that 160 acres may reasonably be presumed to be productive of gas and, therefore, should be within the defined limits of this Pool. We have one witness.

(Witness sworn)

J. D. BAGWELL,

called as a witness, having been first duly sworn on oath, testified as follows:

DIRECT EXAMINATION

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
Phone CHapel 3-6691

BY MR. CAMPBELL:

Q Will you state your name, please?

A J. D. Bagwell.

Q By whom are you employed?

A T. P. Coal & Oil Company.

Q In what capacity?

A Geologist in Midland, Texas.

Q Have you previously testified before this Commission in your professional capacity?

A Yes, sir, I have.

MR. CAMPBELL: Are the witness' qualifications acceptable?

MR. MORGAN: They are acceptable.

Q (By Mr. Campbell) Mr. Bagwell, in connection with your duties, have you had occasion to make a study of the Bagley-Upper Pennsylvanian Gas Pool in Lea County, New Mexico?

A Yes, I have.

Q Have you made a study of that with regard to the proposed extension of the limits of the Pool to include the NW/4 of Section 4, Township 12 South, Range 33 East?

A Yes, I have.

Q Mr. Bagwell, I hand you what has been identified as Applicant's Exhibit No. 1, as Texas Pacific Coal & Oil Company's Exhibit No. 1 in this case, and ask you to state what that is.

A Exhibit 1 is an Isopachs map of the net porosity in the Upper Pennsylvanian Gas Pool.

Q With reference to the western and southwestern portions of that map, will you state what that reflects, in your opinion, with regard to the NW/4 of Section 4?

A This map indicates to me that it is reasonable to assume that the NW/4 of Section 4 is productive of gas in the Bagley-Upper Pennsylvanian Gas Pool.

Q Why do you reach that conclusion?

A T. P.'s State "C" Account 2 Well No. 1 in the NE/4 there has the thickest net pay by microlog of any well in that Pool, that being eighteen feet. There are no wells west of it, or southwest of it, which show a decrease in porosity. I do not believe that the western or the southwestern or the northwestern limits of production have been clearly defined as yet.

Q You have nothing to indicate to you that there is any immediate pinching out of the productive zone there that appears in Texas Pacific's wells in the NE/4 of Section 4, is that correct?

A None whatsoever.

Q Do you have anything further with regard to the Isopachs map?

A It might be interesting to note that Amerada's State "BTW" No. 2 up in 6 and 33 in the NE/4, which is in the process of being completed, showed sixteen feet of microlog porosity in the Upper Pennsylvanian Gas Pool. So it appears that from time to time further extension of the Pool may be necessary, pending further development.

7
Q Now, I hand you what has been identified as Texas Pacific Coal & Oil Company's Exhibit No. 2 and ask you to state what that is, please.

A Exhibit No. 2 is a structure contour map contoured on a marker near the top of the Upper Pennsylvanian Gas Pool.

Q Is it true, Mr. Bagwell, that actually a contour map of this particular producing formation is of somewhat limited value?

A It is. Structure is not the primary factor in the occurrence of oil in this Upper Pennsylvanian Gas Pool. However, this map does show that there are no radical structural changes occurring in the vicinity of this NW/4 of Section 4 which might tend to adversely affect productivity there.

Q Then based upon the -- recognizing the limitations of the Exhibit, but based on what it reflects, you find nothing in there to indicate to you that it is unreasonable to assume that the NW/4 of Section 4 is productive of gas from the eighty-six hundred foot zone, is that correct?

A That's correct.

Q Now, refer to what has been identified as Texas Pacific Coal & Oil Company's Exhibit No. 3 and state to the Commission what that is, Mr. Bagwell.

A Exhibit 3 is a cross section covering the Upper Pennsylvanian Gas Pool. It runs in an east-west direction. On the east end, the Amerada No. 5 C-a-u-d-l-e to the H. S. Moss State No. 1, over in Section 32, which is outside the limits of the Pool, by the way.

Q From where did you obtain the microlog data you used for the purposes of this Exhibit, Mr. Bagwell?

A On Amerada's wells. I took that information from cross sections which they had prepared and entered in evidence at prior hearings here. I did check them.

Q Essentially, did your check of those agree basically with the conclusions of Amerada when those were presented in testimony before this Commission?

A Essentially, they do, yes.

Q Now, referring to that Exhibit No. 3 in that regard, would you state to the Commission what it portrays and what conclusions you draw from it?

A The dark marks on the center column of the logs indicate microlog pay except where marked otherwise. As can be seen in the Texas Pacific State "C" Account 2 Well No. 1, approximately eighteen feet of net porosity is indicated which was taken from the microlog. . . I don't show the microlog on this portion, but that is where it came from. It is interesting to note on the west end of the cross section that the drill stem test taken covering this interval in the Moss Well recovered a slight show of gas. Therefore, I am assuming that there was at least a remnant of the porosity developed in that well, as we have in the major portion of the Pool. I see no reason, from this cross section, to believe that the NW/4 of Section 4 would not be productive of gas.

Q Using that Exhibit 3 there as a reference, approximately

where, in relation to those two wells on the left portion of the exhibit as you face it, where would the NW/4 of the Section fall in relation to -- between those two points?

A The westernmost line of the NW/4 of Section 4 would fall approximately half way between the Moss Well and Texas Pacific "C" 1.

Q Now, Mr. Bagwell, based upon your study and upon the information contained in the exhibits, is it your opinion that the NW/4 of Section 4 may reasonably be presumed to be productive of gas from the Upper Pennsylvanian Gas zone?

A I certainly think so.

Q Have you found anything in your study to lead you to any contrary conclusions in that regard?

A No, nothing whatsoever.

Q All of the evidence you found indicates that it is productive in that zone, is that correct?

A It is reasonable to assume so, yes.

MR. CAMPBELL: That's all the questions I have at this time.

MR. PORTER: Anybody have a question of Mr. Bagwell? Mr. Utz.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Bagwell, referring to your Exhibit No. 3, I believe it was your testimony that you assumed the NW/4 to be productive

on the basis of gas shows on the Moss State No. 1 in the southwest of 32?

A That's not the primary basis, Mr. Utz, no, sir, I don't think so. I just merely find no reason to believe that the porosity ceases to be developed going toward that NE/4. I base that on the fact--on your State "C" Account Well No. 2, which has the thickest net porosity of any well in the pool. I mentioned that Moss Well simply because it appears to be that there is a remnant still of some of the poorer zones that we do find within the limits of the field.

Q That was not a productive well, was it?

A No, sir, it was not.

Q Somewhere between the Moss Well and your State "C" Account No. 2 in the NE/4 of Section 4, then, the porosity or permeability or whatever -- the pinchout, or whatever it is, of course, --

A Yes, somewhere between those two.

Q -- and that was your only control --

A My only control to the west, yes, sir, other than projecting my data from my Isopachs map and from cross sections.

Q Has Texas Pacific considered drilling in the SW/4 of Section 4?

A They have considered it. I don't know what the Commission is going to do to something like that, Mr. Utz, I don't know.

Q Do you feel that that quarter is productive?

A I feel it stands a good chance. I feel that the whole southeastern edge does -- the limited production of the southwestern edge of the pool has not been defined, and there is no dry hole to the east in any of the strings of wells that you see producing on the map there.

Q What was the Amerada Well in the NW/4 of Section 33 that you referred to?

A That's the "BTM" State No. 2.

Q Was that well productive of gas in the Upper Penn?

A To my knowledge, it was not tested in the Upper Penn. They are in the process of completing that well in the lower zone. However, the microlog of the well did show sixteen feet porosity.

Q In the Upper Penn?

A Yes.

Q How are they going to complete it?

A To my knowledge, they are not. The last I heard, they were attempting completion in the lower zone.

Q I believe it was your Exhibit No. 1, your Isopachs map. Do those zones indicate productiveness?

A I know of no porosity in the Upper Pennsylvanian Gas Pool that is not productive of gas.

Q You don't have any control to show what the porosity is over in the NW/4, do you?

A The NW of Section 4?

Q Yes, sir.

A No, sir, I have no control out there, other than the fact that I have no wells indicating that I have no porosity out there. And since going westward from Section 3 and through our wells in Section 4, the percentage of porosity is increasing. It leads me to believe that the NW/4 of Section 4 would have possibly as much, maybe even more, porosity than we encountered in our State "C" Well No. 1.

Q Your Exhibit No. 1, the top of the Pennsylvanian Gas zone, is that map in itself -- those contours do not indicate the productive zones?

A No, sir, they don't.

Q The top of the Pennsylvanian?

A That's right.

Q And to the southwest, what control did you have to contour that?

A Well, as you can see on the map, control is nil to the southwest, it's merely a projection from the Moss Well over in Section 32 back down to the Amerada Wells in Section 10.

Q There is considerable speculation?

A Yes, sir, there is always in a contour map.

MR. UTZ: I believe that's all I have.

MR. PORTER: Anyone else have a question of Mr. Bagwell?
If not, the witness may be excused.

(Witness excused.)

MR. CAMPBELL: I would like the record to show that I

offer Exhibits 1, 2, and 3 in evidence.

MR. PORTER: Without objection, they will be received.

ERIC ENGBRECHT

called as a witness, having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY: MR. PAYNE:

Q Will the witness please state his name and position?

A Eric Engbrecht, oil and gas inspector in District No. 1 for the Oil Conservation Commission.

Q Mr. Engbrecht, in your official capacity with the Oil Conservation Commission of New Mexico, have you had an opportunity to make a study concerning the desirability of the extension of certain existing pools in Lea, Eddy and Chaves Counties, New Mexico.

A Under my direction, yes; supervision, yes.

Q What are your recommendations concerning extension of the Anderson Ranch-Wolfcamp Pool?

A Paragraph (a), to extend it as advertised because of two completed wells capable of producing.

Q What are your recommendations concerning the extension of the Artesia Pool?

A In Paragraph (b), to extend it as advertised because of one completed well capable of producing.

Q What are your recommendations concerning extension of the Blinebry Oil Pool?

A In Paragraph (d), to extend it as advertised because of one completed well capable of producing.

11
Q What are your recommendations concerning extension of the Bronco-Wolfcamp Pool?

A Extend Paragraph (e) as advertised because of one completed well capable of producing.

Q What are your recommendations concerning extension of the Caprock-Queen Pool?

A Paragraph (f), extend it as advertised because of two completed wells capable of producing, and five drilling wells in this area.

Q What are your recommendations concerning extension of the Cave Pool?

A Paragraph (g), extend as advertised because of two completed wells capable of producing.

Q What are your recommendations concerning extension of the Empire Abo Pool?

A Paragraph (h), extend it as advertised because of one completed well capable of producing, and one drilling well in this area.

Q What are your recommendations concerning extension of the Jalmat Pool?

A Paragraph (i), extend as advertised because of one completed well capable of producing.

Q What are your recommendations concerning extension of the Roberts Pool?

A Paragraph (j), extend it as advertised because of one completed well capable of producing.

Q What are your recommendations concerning extension of the Shugart Pool?

A Paragraph (k), extend it as advertised because of one completed well capable of producing.

Q What are your recommendations concerning extension of the Tatum-Wolfcamp Pool?

A Paragraph (l), extend it as advertised because of one completed well capable of producing.

Q What are your recommendations concerning extension of the Tubb Gas Pool?

A Paragraph (m), extend it as advertised to include acreage dedicated to a gas well.

Q What are your recommendations concerning extension of the South Vacuum-Devonian Pool?

A Paragraph (n), extend it as advertised because of one completed well capable of producing, and one drilling well.

Q Mr. Engbrecht, have you prepared Exhibits substantiating your recommendations?

A Yes, sir, I have.

Q How have you identified them?

A Exhibits from "A" to "B" and from "D" through "N" inclusive.

MR. PAYNE: Mr. Examiner, I move that Exhibits "A" through "B" and "D" through "N" in Case 1489 be received in evidence.

MR. PORTER: Without objection, they will be received.

Any questions of Mr. Engbrecht?

The witness may be excused.

(Witness excused)

MR. PORTER: Does anyone else have anything to present in this case, any statement? Case 1489, the Commission will take the case under advisement, and proceed to Case 1490.

NOTARIAL STATE

STATE OF NEW MEXICO)

: ss

COUNTY OF BERNALILLO)

I, J. A. TRUJILLO, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in Stenotype and reduced to typewritten transcript by me and/or under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal, this, the 25th day of August, 1958, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Joseph A. Trujillo
Notary Public

My Commission Expires:

October 5, 1960.