

CASE 1391: SOUTHEASTERN NEW MEXICO
NOMENCLATURE

27
Hendrix
Ar. Enia

Case No.

1391

Application, Transcript,
Small Exhibits, Etc.

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. 1391
Order No. R-1143

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 13, 1958, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 25th day of March, 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 due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That there is need for the creation of a new pool in Eddy County, New Mexico, for the production of gas from the Pennsylvanian formation, said pool to bear the designation Crawford-Pennsylvanian Gas Pool. Said Crawford-Pennsylvanian Gas Pool was discovered by Union Oil Company of California Crawford Well No. 1-26, located in the NW/4 SE/4 Section 26, Township 24 South, Range 26 East, NMPM. It was completed December 28, 1957. The top of the perforations is at 11,060 feet.

(3) That there is need for the creation of a new pool in Eddy County, New Mexico, for the production of gas from the Pennsylvanian formation, said pool to bear the designation Harkey-Pennsylvanian Gas Pool. Said Harkey-Pennsylvanian Gas Pool was discovered by Tennessee Gas Transmission Company J. M. Kelly "A" Well No. 1, located in the SW/4 NW/4 Section 34, Township 24 South, Range 27 East, NMPM. It was completed December 26, 1957. The top of the perforations is at 10,824 feet.

(4) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Fusselman formation, said pool to bear the designation Justis-Fusselman Pool. Said Justis-Fusselman Pool was discovered by Western Natural Gas Company Wimberly Well No. 3, located in the NW/4 NW/4 Section 24, Township 25 South, Range 37 East, NMPM. It was completed January 2, 1958. The top of the perforations is at 7,004 feet.

(5) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Glorieta formation, said pool to bear the designation South Paddock Pool. Said South Paddock Pool was discovered by Gulf Oil Corporation T. R. Andrews Well No. 3, located in the NW/4 SE/4 Section 32, Township 22 South, Range 38 East, NMPM. It was completed December 16, 1957. The top of the perforations is at 5164 feet.

(6) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the San Andres formation, said pool to bear the designation South Sawyer-San Andres Pool. Said South Sawyer-San Andres Pool was discovered by Rowan Oil Company Federal Well No. 1, located in the SE/4 SW/4 Section 33, Township 9 South, Range 38 East, NMPM. It was completed January 12, 1958. The top of the perforations is at 4950 feet.

(7) That there is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Devonian formation, said pool to bear the designation South Vacuum-Devonian Pool. Said South Vacuum-Devonian Pool was discovered by Union Oil Company of California South Vacuum Unit Well No. 1-35, located in the SW/4 NE/4 Section 35, Township 18 South, Range 35 East, NMPM. It was completed January 18, 1958. The top of the perforations is at 11,643 feet.

(8) That there is need for certain extensions to the Atoka Pool and to the Turkey Track Pool, both in Eddy County, New Mexico, and to the Anderson Ranch-Devonian Pool, the Eumont Gas Pool, the Jalmat Gas Pool, the Justis-Ellenburger Pool, the Pearl-Queen Pool, the Penrose-Skelly Pool, and to the Townsend-Wolfcamp Pool, all in Lea County, New Mexico, and to the Maljamar Pool in Lea and Eddy Counties, New Mexico. Further, that there is need for the deletion of certain acreage from the South Eunice Pool and the Arrowhead Pool, both in Lea County, New Mexico, inasmuch as that acreage has proven unproductive, and further, that there is need for deletion of certain acreage from the Atoka-Grayburg Pool, which, with other acreage, is to be added to the Red Lake Pool, both in Eddy County, New Mexico, inasmuch as this will place two wells in their correct pool.

IT IS THEREFORE ORDERED:

(a) That a new pool in Eddy County, New Mexico, classified as a gas pool for Pennsylvanian production, be and the same is hereby created and designated as the Crawford-Pennsylvanian Gas Pool, consisting of the following described area:

TOWNSHIP 24 SOUTH, RANGE 26 EAST, NMPM
Section 26: SE/4

(b) That a new pool in Eddy County, New Mexico, classified as a gas pool for Pennsylvanian production, be and the same is hereby created and designated as the Harkey-Pennsylvanian Gas Pool, consisting of the following described area:

TOWNSHIP 24 SOUTH, RANGE 27 EAST, NMPM
Section 34: NW/4

(c) That a new pool in Lea County, New Mexico, classified as an oil pool for Fusselman production, be and the same is hereby created and designated as the Justis-Fusselman Pool, consisting of the following described area:

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM
Section 24: NW/4

(d) That a new pool in Lea County, New Mexico, classified as an oil pool for Paddock production, be and the same is hereby created and designated as the South Paddock Pool, consisting of the following described area:

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM
Section 32: SE/4

(e) That a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production, be and the same is hereby created and designated as the South Sawyer-San Andres Pool, consisting of the following described area:

TOWNSHIP 9 SOUTH, RANGE 38 EAST, NMPM
Section 33: Lots 3 & 4, and W/2 SW/4

(f) That a new pool in Lea County, New Mexico, classified as an oil pool for Devonian production, be and the same is hereby created and designated as the South Vacuum-Devonian Pool, consisting of the following described area:

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 35: NE/4

(g) That the Atoka-Grayburg Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby contracted by deletion of the following described area:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM
Section 7: SW/4

(h) That the Red Lake 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 26 EAST, NMPM
Section 1: E/2 SE/4

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM
Section 7: SW/4

(i) That the South Eunice Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby contracted by deletion of the following described area:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM
Section 31: NE/4

(j) That the Anderson Ranch-Devonian 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 and 2

(k) That the Atoka 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 26 EAST, NMPM
Section 12: SE/4 NW/4, SW/4 NE/4 & SE/4

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

TOWNSHIP 20 SOUTH, RANGE 36 EAST, NMPM
Section 32: SE/4

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 8: NW/4

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 20: SW/4

(m) That the Jalmat 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 35 EAST, NMPM
Section 14: W/2

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM
Section 20: NW/4 & W/2 NE/4

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

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM
Section 24: SE/4

(o) That the Maljamar Pool in Lea and Eddy Counties, 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 28: E/2

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

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM

Section 21: SE/4 SE/4

Section 22: S/2 SW/4

(q) That the Penrose-Skelly 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 31: SW/4

(r) That the Townsend-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 36 EAST, NMPM

Section 5: Lots 9, 10, 11, 14, 15, & 16

(s) That the Turkey Track 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 29 EAST, NMPM

Section 33: E/2 NE/4

(t) That the Arrowhead Pool in Lea County, New Mexico, as heretofore classified, defined, and described, be and the same is hereby contracted by the following described area:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM

Section 36: NE/4 NE/4

IT IS FURTHER ORDERED:

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

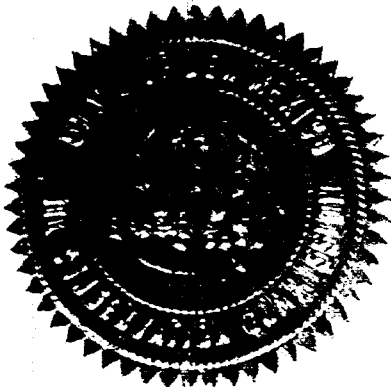
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

E. L. Mechem
EDWIN L. MECHEM, Chairman

M. E. Morgan
MURRAY E. MORGAN, Member

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



1371
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In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order for the creation, deletion, and extension of existing pools in Lea and Eddy Counties, New Mexico, and giving notice to all persons and parties interested in the subject matter thereof to appear and show cause why such creations, deletions, and extensions should not be made:

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Pennsylvanian production, designated as the Crawford-Pennsylvanian Gas Pool, and described as:

Twp. 24 South, Range 26 East
SE/4 of Section 26

~~and such other, etc.~~

(b) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Pennsylvanian production, designated as the Harkey-Pennsylvanian Gas Pool, and described as:

Twp. 24 South, Range 27 East
NW/4 of Section 34

~~and such other, etc.~~

(c) Create a new pool in Lea County, New Mexico, classified as an oil pool for Fusselman production, designated as the Justis-Fusselman Pool, and described as:

Twp. 25 South, Range 37 East
NW/4 of Section 24

~~and such other, etc.~~

(d) Create a new pool in Lea County, New Mexico, classified as an oil pool for Glorieta production, designated as the South Paddock Pool, and described as:

Twp. 22 South, Range 38 East
SE/4 of Section 32

~~and such other, etc.~~

(e) Create a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production, designated as the South Sawyer-San Andres Pool, and described as:

Twp. 9 South, Range 28 East
Lots 3 & 4 & W/2 SW/4 of Section 33

~~and such other, etc.~~

(f) Create a new pool in Lea County, New Mexico, classified as an oil pool for Devonian production, designated as the South Vacuum-Devonian Pool, and described as:

Twp. 18 South, Range 35 East
NE/4 of Section 35

~~and such other, etc.~~

(g) Delete portions of the Atoka-Grayburg pool in Eddy County, New Mexico, described as:

Twp. 18 South, Range 27 East
SW/4 of Section 7

~~and such other, etc.~~

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

Twp. 18 South, Range 26 East
NE/4 SE/4 of Section 1

Twp. 18 South, Range 27 East
SW/4 of Section 7

~~and such other, etc.~~

(i) Delete portions of the South Eunice Pool boundary in Lea County, New Mexico, described as:

Twp. 21 South, Range 36 East
NE/4 of Section 31

~~and such other, etc.~~

(j) Extend the Anderson Ranch-Devonian Pool boundary in Lea County, New Mexico, to include therein:

Twp. 16 South, Range 32 East
Lots 1 & 2 of Section 2

~~and such other, etc.~~

(k) Extend the Aloha Pool boundary in Lddy County, New Mexico, to include therein:

Sec 12: Twp. 18 South, Range 26 East
W/2 SE/4 of Section 12
SE/4 NE/4, & SE/4 NE/4 of Section 12

~~and such other, etc.~~

(l) Extend the Burmont Gas Pool boundary in Lea County, New Mexico, to include therein:

Twp. 20 South, Range 36 East
SE/4 of Section 32

Twp. 21 South, Range 37 East
NW/4 of Section 8

Twp. 22 South, Range 37 East
SW/4 of Section 20

~~and such other, etc.~~

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

Twp. 22 South, Range 35 East
SW/4 of Section 14

Twp. 23 South, Range 36 East
NW/4 & W/2 NE/4 of Section 20

~~and such other, etc.~~

(n) Extend the Justis-Ellenburger Pool boundary in Lea County, New Mexico, to include therein:

Twp. 25 South, Range 37 East
SE/4 of Section 24

~~and such other, etc.~~

(o) Extend the Maljamar Pool boundary in Lea County, New Mexico, to include therein:

Twp. 17 South, Range 32 East
E/2 of Section 28

~~and such other, etc.~~

(p) Extend the Pearl-Queen Pool boundary in Lea County, New Mexico, to include therein:

Twp. 19 South, Range 35 East
SE/4 SE/4 of Section 21
S/2 SW/4 of Section 22

~~and such other, etc.~~

(q) Extend the Penrose-Skelly Pool boundary in Lea County, New Mexico, to include therein:

Twp. 21 South, Range 37 East
SW/4 of Section 31

~~and such other, etc.~~

(r) Extend the Townsend-Welfcamp Pool boundary in Lea County, New Mexico, to include therein:

Twp. 16 South, Range 36 East
Sec 6: Lots 9, 10, 11, 14, 15, & 16 ~~of Section 6~~

~~and such other, etc.~~

(s) Extend the Turkey Track Pool boundary in Eddy County, New Mexico, to include therein:

Twp. 18 South, Range 29 East
E/2 NE/4 of Section 33

~~and such other, etc.~~

(t) Delete a portion of the Arrowhead Pool in
Lea County, New Mexico, described as:

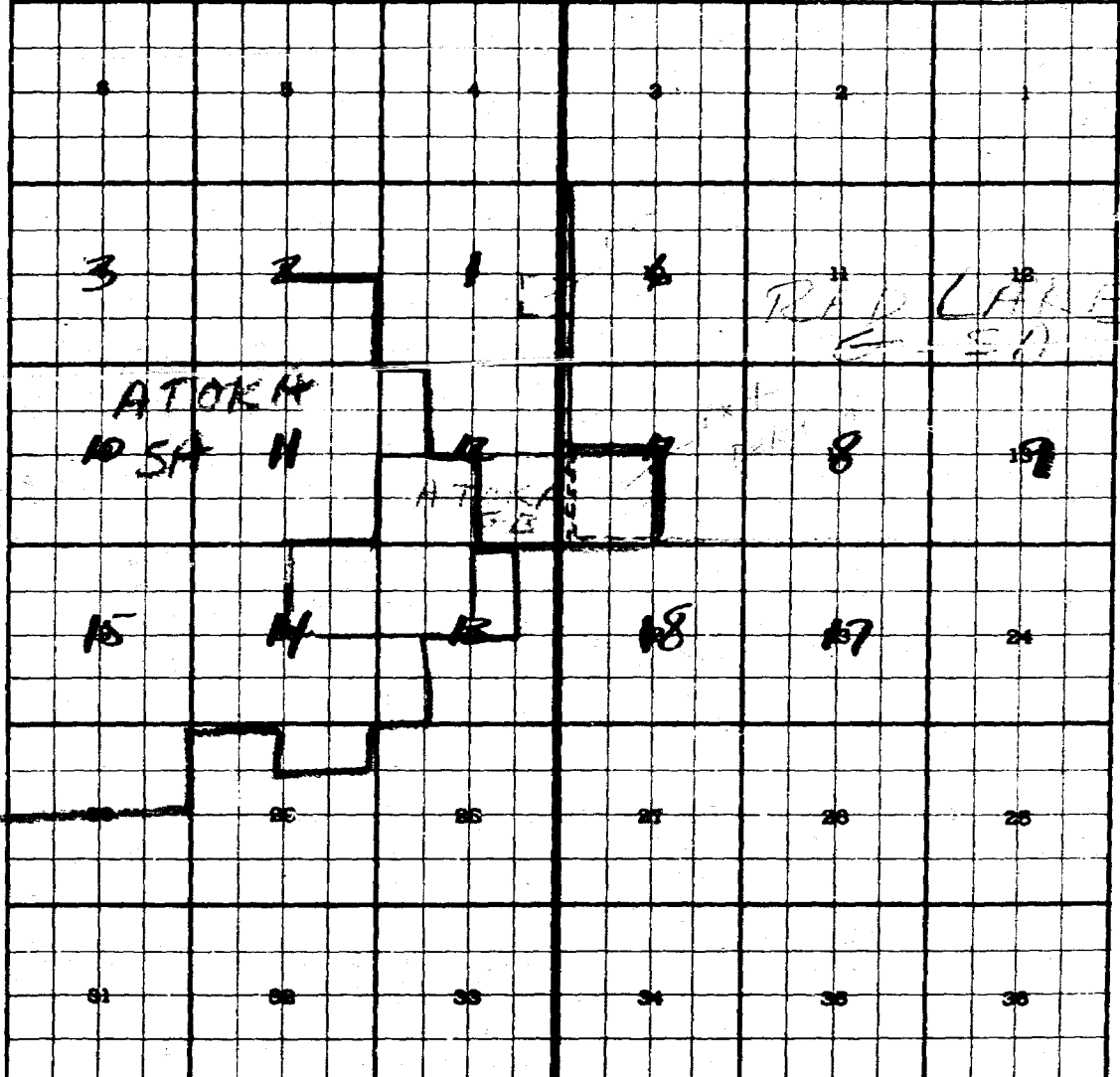
Twp 21 South, Range 36 East
Section 36: NE/4 NE/4

Providing —

County 1 Pool 1

18-27

TOWNSHIP South RANGE East NEW MEXICO PRINCIPAL MERIDIAN



BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
Santa Fe, New Mexico

March 13, 1958

TRANSCRIPT OF HEARING

Case 1391

DEARNLEY - MEIER & ASSOCIATES
INCORPORATED
GENERAL LAW REPORTERS
ALBUQUERQUE - SANTA FE
3-6691 2-2211

INSTITUTION
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
Santa Fe, New Mexico

March 11, 1958

IN THE MATTER OF:

Case 1391

Southeastern New Mexico nomenclature case calling for an order for the creation of new pools and the extension of existing pools in Lea and Bddy Counties, New Mexico.

(a) Create a new gas pool for Pennsylvanian production, designated as the Crawford-Pennsylvanian Gas Pool, and described as:

TOWNSHIP 24 SOUTH, RANGE 26 EAST, NMPM
Section 26: SE/4

(b) Create a new gas pool for Pennsylvanian production, designated as the Harkey-Pennsylvanian Gas Pool, and described as:

TOWNSHIP 24 SOUTH, RANGE 27 EAST, NMPM
Section 34: NW/4

(c) Create a new oil pool for Fusselman production, designated as the Justis-Fusselman Pool, and described as:

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM
Section 24: NW/4

(d) Create a new oil pool for Glorieta production, designated as the South Padlock Pool, and described as:

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM
Section 32: SE/4

(e) Create a new oil pool for San Andres production, designated as the South Sawyer-San Andres Pool, and described as:

TOWNSHIP 9 SOUTH, RANGE 36 EAST, NMPM
Section 33: Lots 1 & 4 and W/2 SW/4

DEANER, MEYER & ASSOCIATES
INC. SPECIALISTS
OILFIELD LAND SURVEYING
AND ENGINEERING
ALBUQUERQUE, NEW MEXICO
TELEPHONE 5-93346

(f) Create a new oil pool for Devonian production, designated as the South Vacuum-Devonian Pool, and described as:

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPL
Section 35: NE/4

(g) Delete portions of the Atoka-Grayburg Pool, described as:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPL
Section 7: SW/4

(h) Extend the Red Lake Pool to include:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPL
Section 1: NE/4 SE/4

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPL
Section 7: SW/4

(i) Delete a portion of the South Eunice Pool, described as:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPL
Section 31: NE/4

(j) Extend the Anderson Ranch-Devonian Pool, to include:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPL
Section 2: Lots 1 & 2

(k) Extend the Atoka Pool to include:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPL
Section 12: W/2 SE/4, SE/4 NW/4, & SW/4 NE/4

(l) Extend the Eumont Gas Pool to include:

TOWNSHIP 20 SOUTH, RANGE 36 EAST, NMPL
Section 32: SE/4

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPL
Section 8: NW/4

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPL
Section 20: SW/4

(m) Extend the Jalmat Gas Pool to include:

TOWNSHIP 22 SOUTH, RANGE 35 EAST, NMPM
Section 14: SW/4

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM
Section 20: NW/4 & W/2 NE/4

(n) Extend the Justis-Allenburger Pool to include:

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM
Section 24: SE/4

(o) Extend the Maljamar Pool to include:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM
Section 28: E/2

(p) Extend the Pearl-Queen Pool to include:

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
Section 21: SE/4 SE/4
Section 22: S/2 SW/4

(q) Extend the Penrose-Skelly Pool to include:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 31: SW/4

(r) Extend the Townsend-Wolfcamp Pool to include:

TOWNSHIP 16 SOUTH, RANGE 36 EAST, NMPM
Section 6: Lots 9, 10, 11, 14, 15, & 16

(s) Extend the Turkey Track Pool to include:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM
Section 33: E/2 NE/4

(t) Delete a portion of the Arrowhead Pool described as:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM
Section 36: NE/4 NE/4

BEFORE: Honorable Edwin L. Lechem
Mr. A. L. Porter
Mr. Murray Morgan

TRANSCRIPT OF HEARING

MR. PORTER: We will take up next Case 1391.

MR. COOLEY: Southeastern New Mexico nomenclature case calling for an order for the creation of new pools and the extension of existing pools in Lea and Eddy Counties, New Mexico.

(Witness sworn.)

JOHN RUNYAN

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

DIRECT EXAMINATION

By MR. COOLEY:

Q Will the witness state his name and position, please?

A John Runyan, Geologist for the New Mexico Oil Conservation Commission.

Q As Geologist for the New Mexico Oil Conservation Commission, have you had an opportunity to make a study for the correction, deletion, extension of certain pools in Lea and Eddy Counties, New Mexico?

A Yes, sir, I have.

Q Have you made a study for the creation of a new gas pool for Pennsylvanian production in Township 24 South, Range 26 East?

A Yes, sir. I recommend that a new pool be created for Pennsylvanian production, called the Crawford-Pennsylvanian Gas Pool, and this is because of the discovery of a well by Union Oil Company of California in Unit 1 of Section 26-24-26, completed

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in the Harkey Gas in the Pennsylvanian.

Q You didn't recommend the horizontal limits nor the vertical limits. What do you recommend as the horizontal limits?

A The horizontal limits would be the Southeast quarter of Section 26, Township 24, Range 26.

Q What do you recommend as the vertical limits?

A Pennsylvanian Formation.

Q Mr. Runyan, have you made a study for the creation of a new gas pool for Pennsylvanian production in Township 24 South, Range 27 East?

A Yes, I have. I recommend that a new pool be created called the Harkey-Pennsylvanian Gas Pool. This is due to Tennessee Gas Transmission Company's John M. Kelly "A" No. 1 in Unit E of Section 34, Township 24, Range 27, completed in the Pennsylvanian on 12/26/1957, top of perforation, 10,824. I recommend that the horizontal limits be the Northwest Quarter of Section 34 and the vertical pool limit, the Pennsylvanian Formation.

MR. PORTER: Is this a gas pool?

A Yes, sir. They did lift the perforations this time.

Q Mr. Runyan, have you likewise made a study for the creation of a new oil pool for Fusselman production in Township 25 South, Range 37 East?

A Yes, I have, and recommend that the new pool be created, called the Justis-Fusselman Pool. This is due to the discovery well

of Western Natural Gas Company. Musterley No. 3 in Unit B of Section 24-22-38, completed in the Musterley 1/7/56, top of perforation 5004 feet. I also recommend that the vertical limits be I guess the Fusselman Formation, the horizontal be the Northwest Quarter of Section 24.

Q Mr. Runyan, have you made a study for the creation of a new oil pool for Glorieta production in Township 22 South, Range 38 East?

A Yes, sir, I have. I recommend a new pool be created, called the South Paddock Pool. This is due to the discovery of the Gulf Oil Corporation's T. R. Andrews Well No. 3 in Unit J of Section 32-22-38, completed in the Glorieta 12/16/57, top perforation 5,164 feet. I recommend that the horizontal limits be the Southeast Quarter of Section 32, and the vertical limits be the Glorieta Formation.

Q Have you likewise made a study of the creation of a new oil pool for San Andres production in Township 9 South, Range 38 East?

A Yes, sir, I have, and recommend a new pool be created called the South Sawyer-San Andres Pool. This is due to the Rowan Oil Company Federal No. 1 in Unit R of Section 33, Township 9, Range 38 East, completed in the San Andres 1/12/1958, top of the perforation 4,950 feet. I also recommend that the horizontal limits of the pool be lots 3 & 4 and the West half of the Southwest Quarter in

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Section 33, and the vertical limits of the pool being the San Andres Formation.

Q Have you made a study for the creation of a new oil pool for Devonian production in Township 18 South, Range 35 East, NMPM?

A Yes. I recommend a new pool be created called the South Vacuum-Devonian Pool due to the Union Oil Company of California South Vacuum Unit No. 1-35 in Unit G of Section 35-18-35, completed in the Devonian January, 1958. The top of the perforation, 11,643 feet, so I recommend that the horizontal limit of the pool be the Northeast Quarter of Section 35, and the vertical limits of the pool be the Devonian Formation.

Q Mr. Runyan, do you have any recommendation concerning the deletion of certain portions of the Atoka-Grayburg Pool in Township 18 South, Range 27 East?

A Yes, sir, I have. I recommend that the Southwest Quarter of Section 7 of the Atoka-Grayburg Pool be deleted as advertised.

Q What are the reasons for those recommendations, Mr. Runyan?

A The main reasons is that there was some conflicts within the horizontal boundaries between the Red Lake Pool and the Atoka-Grayburg Pool due to the State Engineer's boundary which they have set up for this well completions which they control, and due to this and to make the proration of these pools more simpler, I would recommend that they delete this portion.

Q Is it your opinion that the Southwest Quarter of Section 7,

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Township 18 South, Range 27 East, T18N R27E is in the common source of supply designated by the Commission as the Red Lake Pool rather than that common source of supply designated as the Atoka-Grayburg Pool?

A Yes.

MR. PORTER: John, by being under the control of the State Engineers, you mean as to casing and cement program?

A Yes, did I say completion?

MR. PORTER: Yes, I believe you did.

A That's right.

Q Mr. Runyan, do you have any recommendation concerning the extension of the Red Lake Pool?

A Yes, sir, I do. I recommend that the Red Lake Pool be extended as advertised, and also an unadvertised portion, being the Southeast Quarter of the Southeast Quarter of Section 1, and this is due to three wells capable of producing from this pool.

Q Mr. Runyan, does the recommended extension of the Red Lake Pool include acreage that is deleted from Atoka-Grayburg Pool?

A Yes, sir, that is correct.

Q Mr. Runyan, do you have any recommendation concerning the deletion of certain portions of the South Eunice Pool?

A I recommend that this portion of the South Eunice Pool be deleted as advertised.

Q What is the reason for this deletion?

A This was due to an overlap in dedicated acreage between the

South Eunice Pool and the Jalmat Pool.

Q Is it your statement that this acreage was erroneously included in the South Eunice Pool? A Yes, that is correct.

MR. PORTER: Mr. Runyan, in the area which you propose to delete from the South Eunice, would it become a part or is it a part of a gas unit in the Jalmat Pool?

A No, sir, it is not.

MR. PORTER: It isn't?

A I beg your pardon. Just a minute.

Q It is dedicated to a gas well in the Jalmat Gas Pool?

A Yes, it is.

Q Mr. Runyan, do you have any recommendation concerning the extension of the Anderson Ranch-Devonian Pool?

A Yes, I do. I recommend it be extended as advertised, due to one well capable of producing from this pool.

Q Do you have any recommendations concerning the extension of the Atoka Pool?

A Yes. I recommend that this pool be extended as advertised, and also an unadvertised portion by the East Half of the Southeast Quarter of Section 12, and this is due to two wells capable of producing from this pool.

Q Do you have any recommendation regarding the extension of the Eumont Gas Pool?

A Yes, sir. I recommend that this pool be extended as

advertised due to three wells capable of producing from this pool.

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

A I recommend this pool be extended as advertised, and also an unadvertised portion, being the Northwest Quarter of Section 14, and this is due to three wells capable of producing from this pool.

Q What are your recommendations concerning the extension of the Justis-Ellenburger Pool?

A I recommend that this pool be extended as advertised, due to one well capable of producing from this pool.

Q Do you have any recommendations regarding the extension of the Maljamar Pool?

A Yes. I recommend that this pool be extended as advertised, due to five wells capable of producing from this pool.

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

A I recommend this be extended as advertised, due to one well capable of producing from the pool.

Q Do you have any recommendations regarding the extension of the Penrose-Skelly Pool?

A I recommend that it be extended as advertised, due to one well capable of producing from the pool.

~~Q What are your recommendations regarding the extension~~

of the Townsend-Wolfcamp Pool?

A I recommend it be extended as advertised, due to one well capable of producing from the pool.

Q What are your recommendations concerning the extension of the Turkey Track Pool?

A I recommend it be extended as advertised, due to one well capable of producing from the pool.

Q Do you have any recommendations concerning the deletion of certain portions of the Arrowhead Pool?

A Sir, I recommend that it be deleted as advertised.

Q What is the purpose for this deletion?

A The purpose is this portion of the Arrowhead Pool is non-productive.

Q Has that been so proven by drilling activities?

A That's correct.

Q Do you have any further recommendations in this case,

Mr. Runyan?

A No, sir.

Q Have you prepared exhibits to substantiate the recommendations showing the various data which support them?

A Yes, sir, I have. I have prepared Exhibits A through T, which I wish to submit to the Commission.

(Marked Exhibits A through T,
for identification.)

MR. COOLEY: Move the admission of Exhibits A through T in

Case 1391.

MR. PORTER: Without objection they will be admitted.
Does anyone else have a question of Mr. Runyan? Mr. Nutter.

CROSS EXAMINATION

By MR. NUTTER:

Q Paragraph A there for the creation of the Crawford-Pennsylvanian Pool --
A Yes, sir.

Q What is the discovery well for that pool?

A That is Union Oil of California.

MR. COOLEY: On the Crawford.

A On the Crawford-Pennsylvanian, Union Oil Company of California is the operator. The Well Number, I believe, is the Crawford Marrow No. 1.

Q Does Union Oil Company have only one well in this area?

A In the immediate area, yes.

Q Within a mile around here? A That is correct.

Q We will determine the discovery well from the well files and the order will reflect it.

MR. PORTER: That will be satisfactory. Any further questions? Is that all the questions you have, Mr. Nutter?

MR. NUTTER: Yes.

MR. COOLEY: That's all.

MR. PORTER: The witness may be excused. We will take the case under advisement. The hearing is adjourned.

(Witness excused.)

DEARNLEY, MEIER & ASSOCIATES
INCORPORATED
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
3-6691 5-9546

14

C E R T I F I C A T E

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) : SS

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 24TH day of March, 1958.

Ada Dearnley
Notary Public-Court Reporter

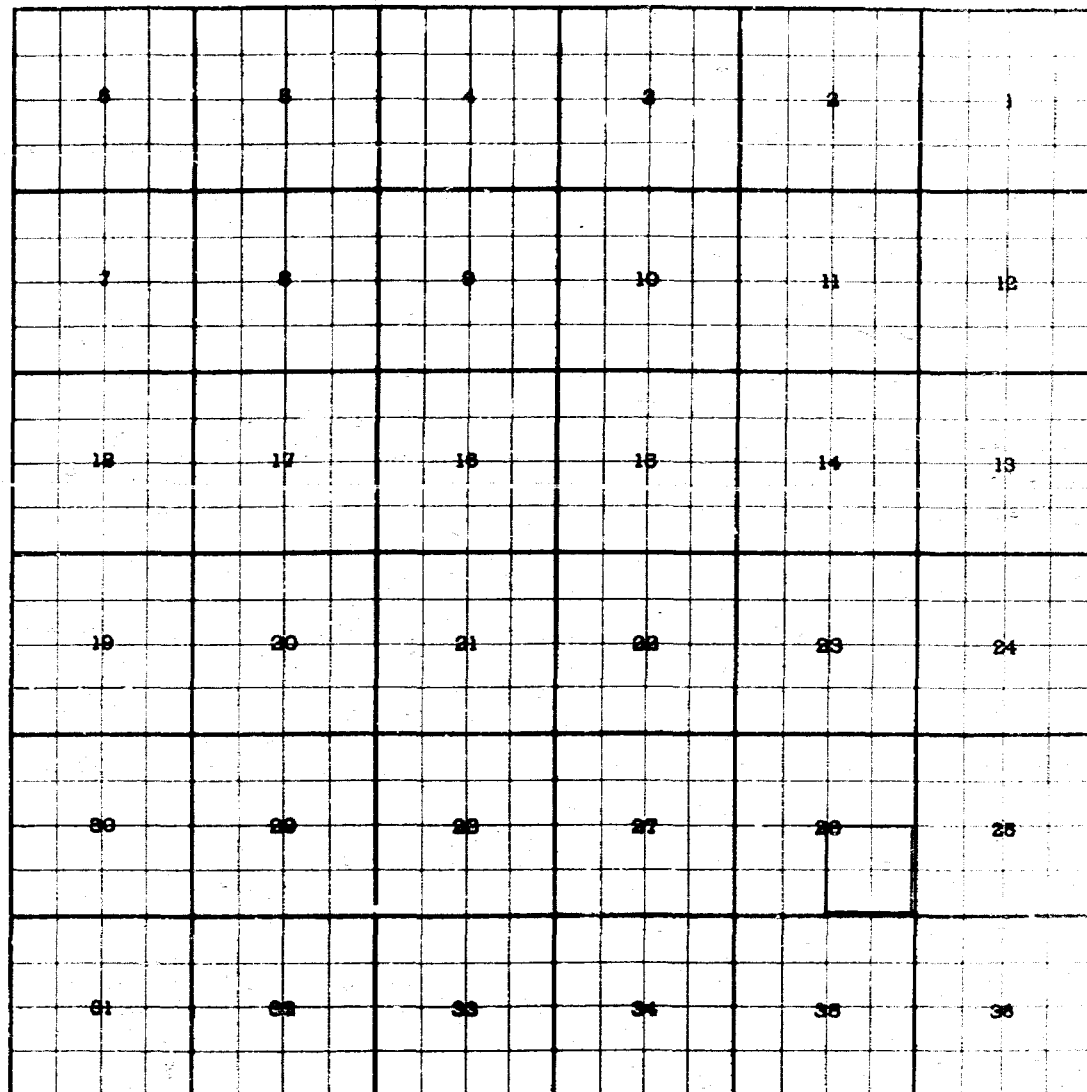
My commission expires:
June 19, 1959.

DEARNLEY, MEIER & ASSOCIATES
INCORPORATED
GENERAL LAW REPORTERS
ALBUQUERQUE NEW MEXICO
3-6691 5-9546

Case 1391: (A) Creation of a new pool
Disc. Well- Union Oil Company of Calif. in Unit J of Sec. 26-24-26
Comp in Marrow Sand

County EDDY Pool CRAWFORD PENNSYLVANIAN GAS

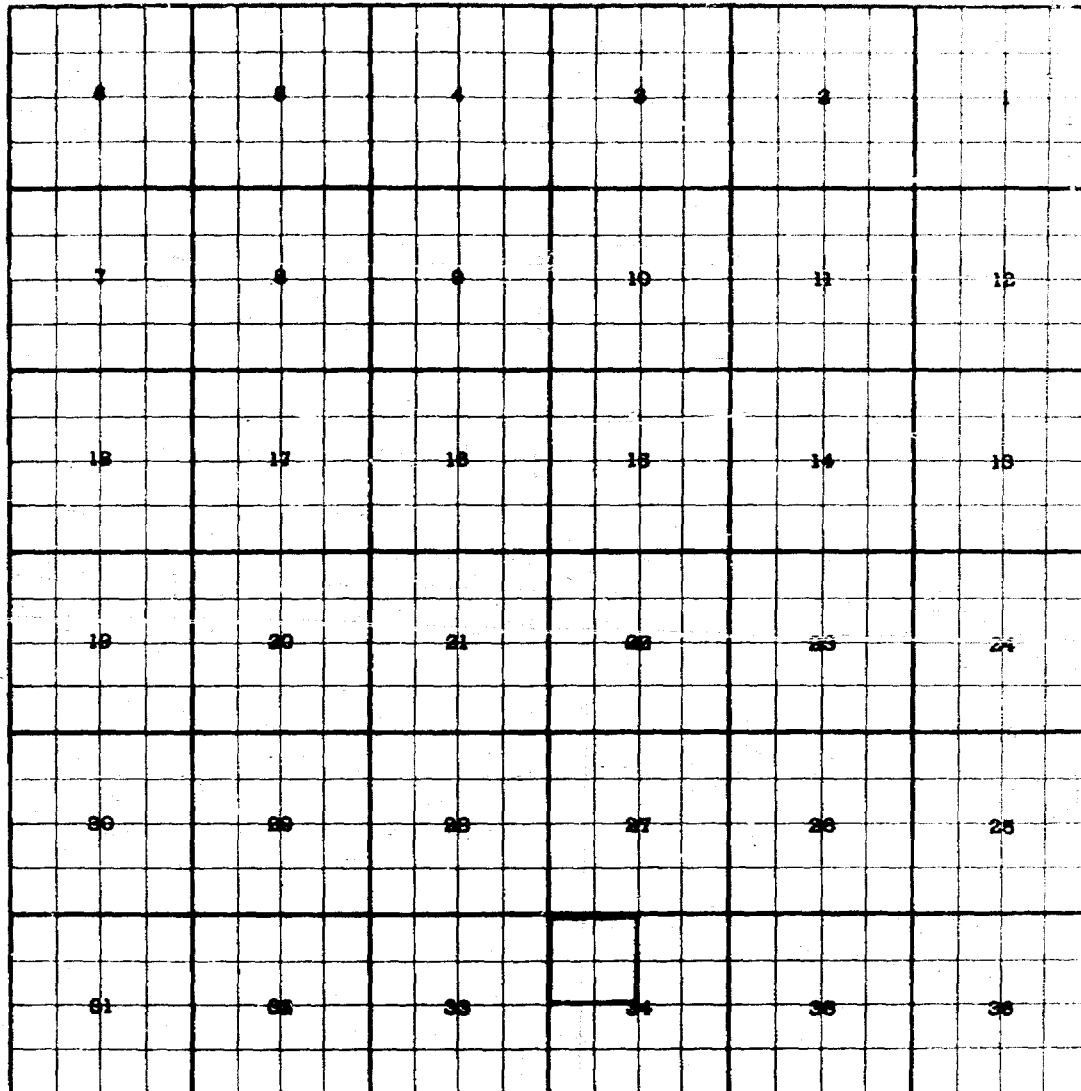
TOWNSHIP 24 South, RANGE 26 East, NEW MEXICO PRINCIPAL MERIDIAN



Proposed pool boundary colored in Red: SE/4 of Section 26

Case 1391: (b) Creation of a new pool
Disc. well- ~~Tennessee Gas Transmission Co.~~ John P. Kelly "A" #1 in Unit E
of sec. 34-24-27 Comp in Pennsylvanian 12/26/57 Top perf. 10,824
County LEWIS Pool HARKLEY-PENNSYLVANIAN GAS

TOWNSHIP 24 South, RANGE 27 East, NEW MEXICO PRINCIPAL MERIDIAN

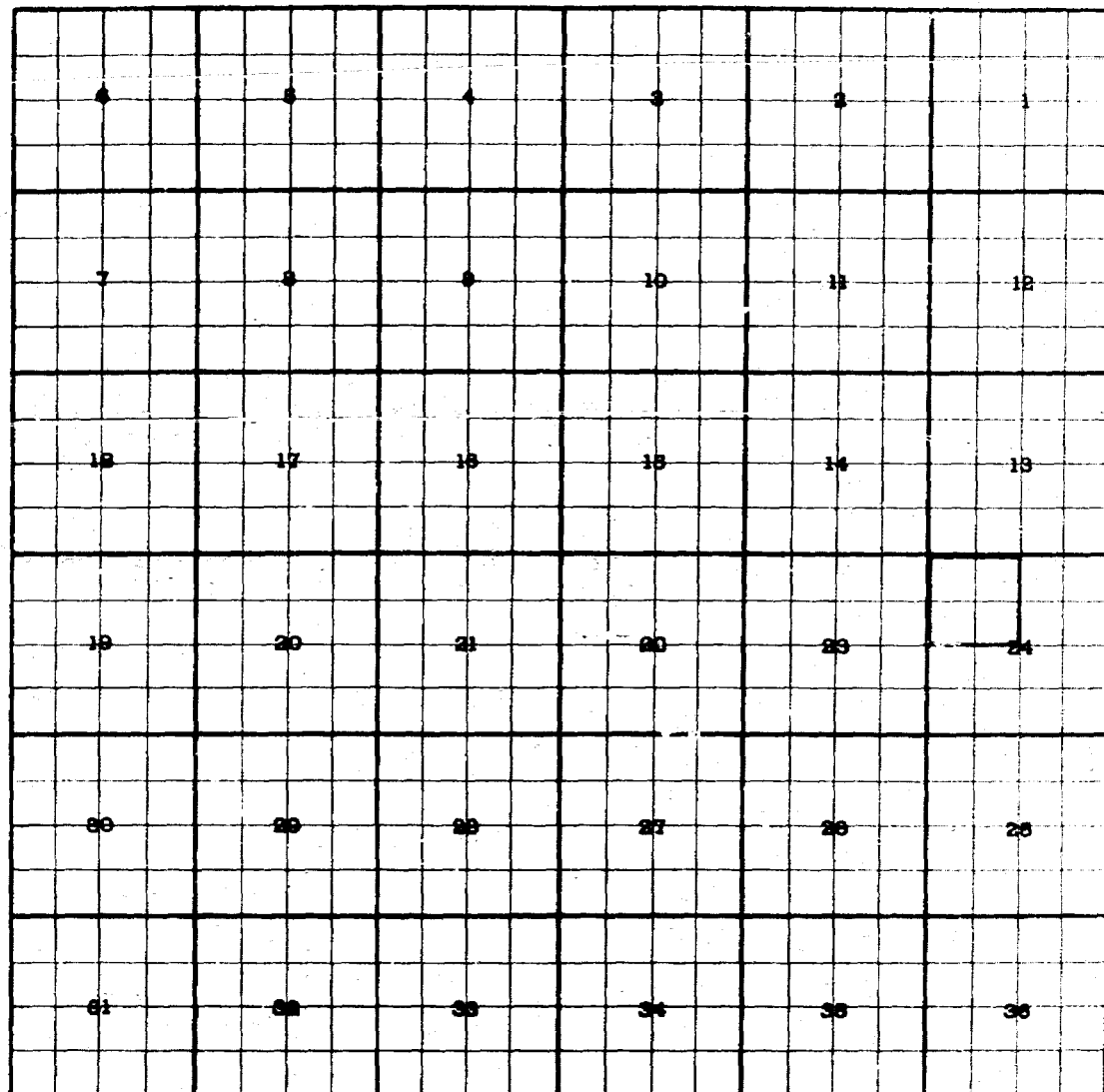


Proposed Pool boundary colored in Red; NW/4 of Section 34

Case 1391: (C) Creation of a new pool
Disc. Well- Western Natural Gas Co-Wimberley #3 in Unit D of Sec. 24-25-37
Comp. in Fusselman 1/2/58 Top Perf. 7004

County LEA Pool JUSTIS-FUSSELMAN

TOWNSHIP 25 South, RANGE 37 East, NEW MEXICO PRINCIPAL MERIDIAN

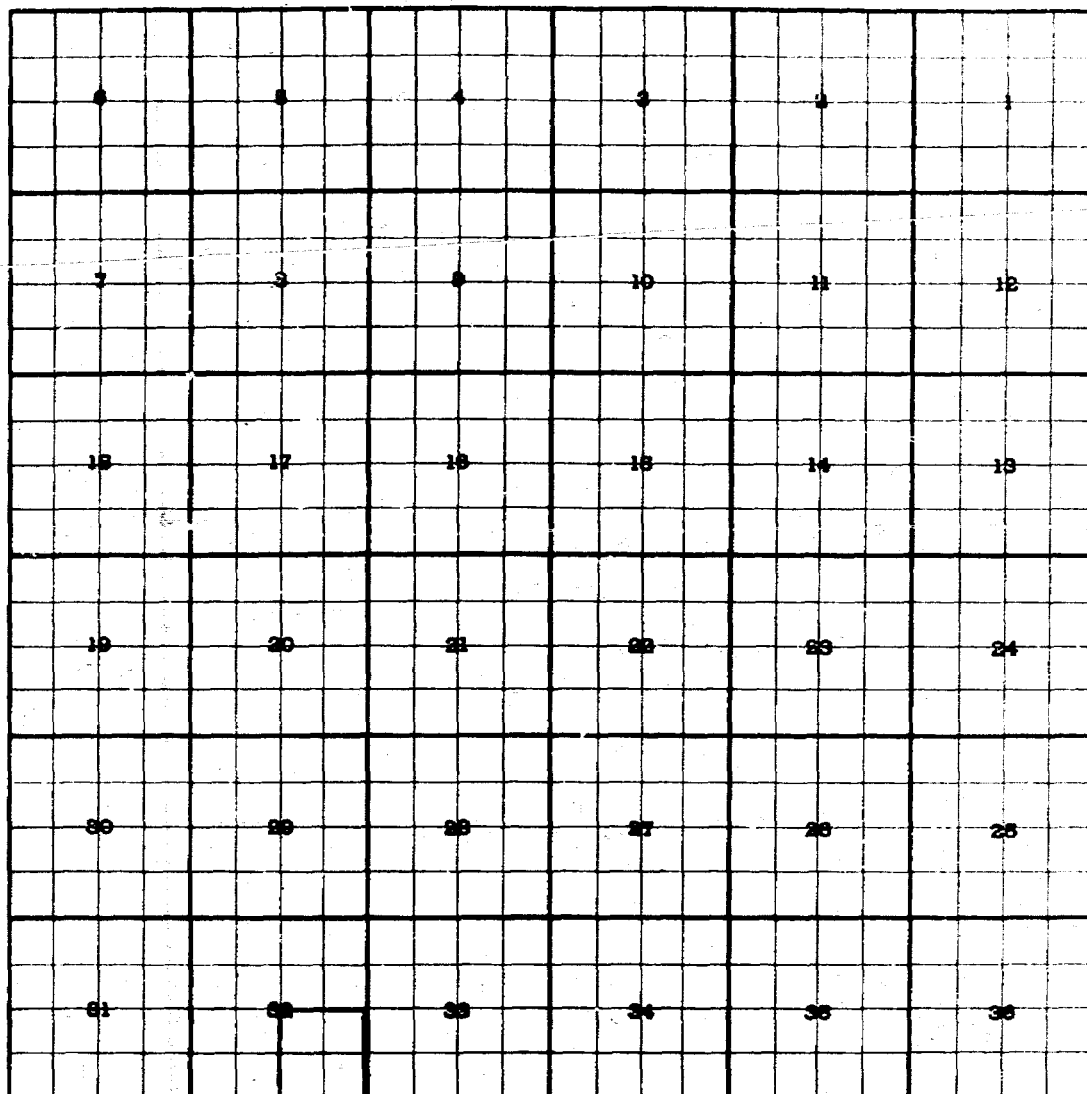


Proposed Pool boundary colored in Red: NW/4 of Section 24

Case 1391: (D) Creation of a new pool
Disc. Well- Gulf Oil Corp. T. R. Andrews #3 in Unit J of Sec. 32-22-38
Comp in Glorieta 12/16/57 Top perf. 5164

County _____ LEA _____ Pool SOUTH PADDOCK

TOWNSHIP 22 South, RANGE 38 East, NEW MEXICO PRINCIPAL MERIDIAN



Proposed Pool boundary colored in Red: SE/4 of Section 32

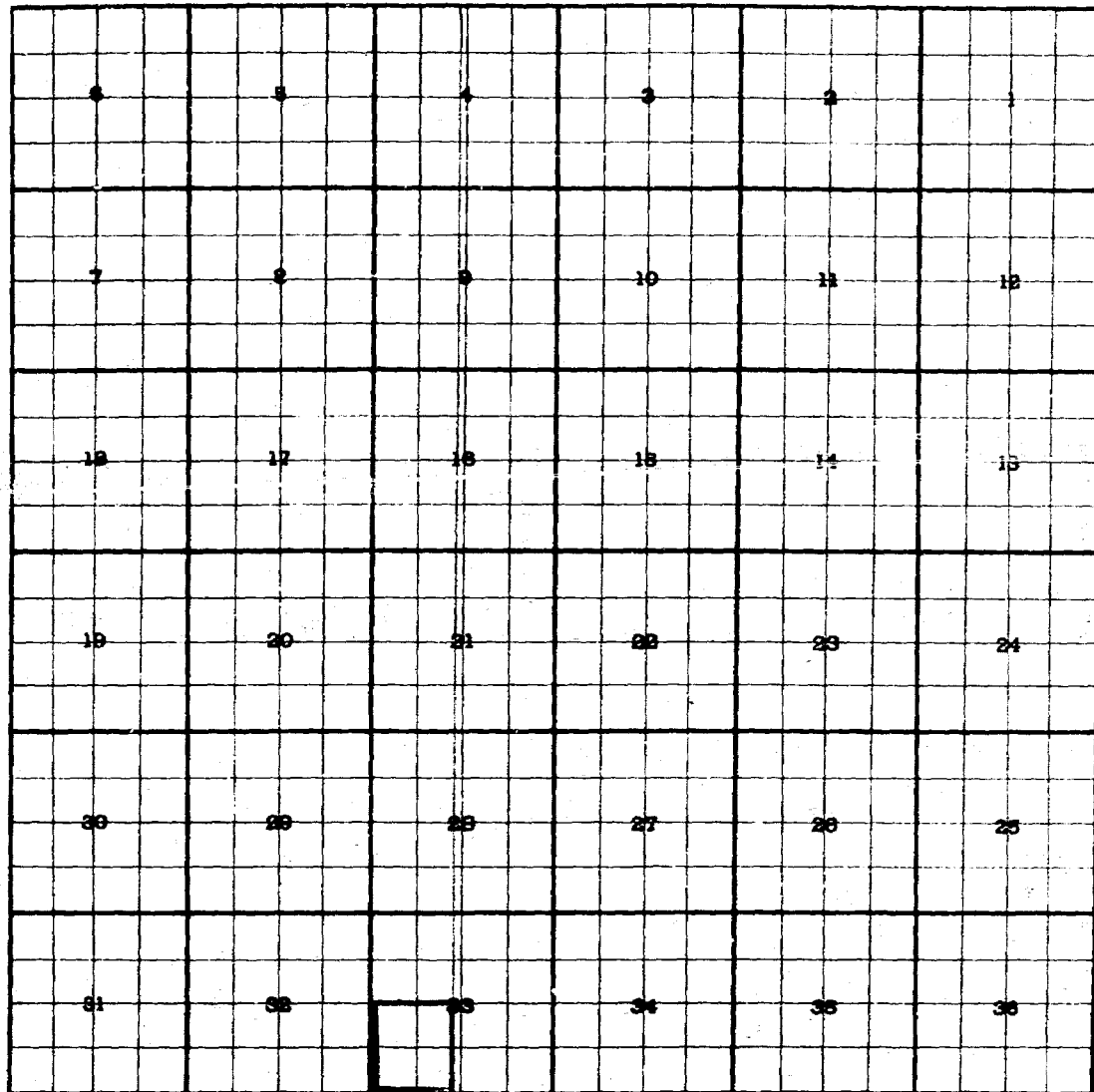
Case 1391: (E) Creation of a new pool

Disc. Well- Rowan Oil Co.- Federal #1 in Unit N of Sec. 33-9-38

County LEA Comp in San Andres 1/12/58 Top Perf. 4950

Pool SOUTH SAWYER-SAN ANDRES

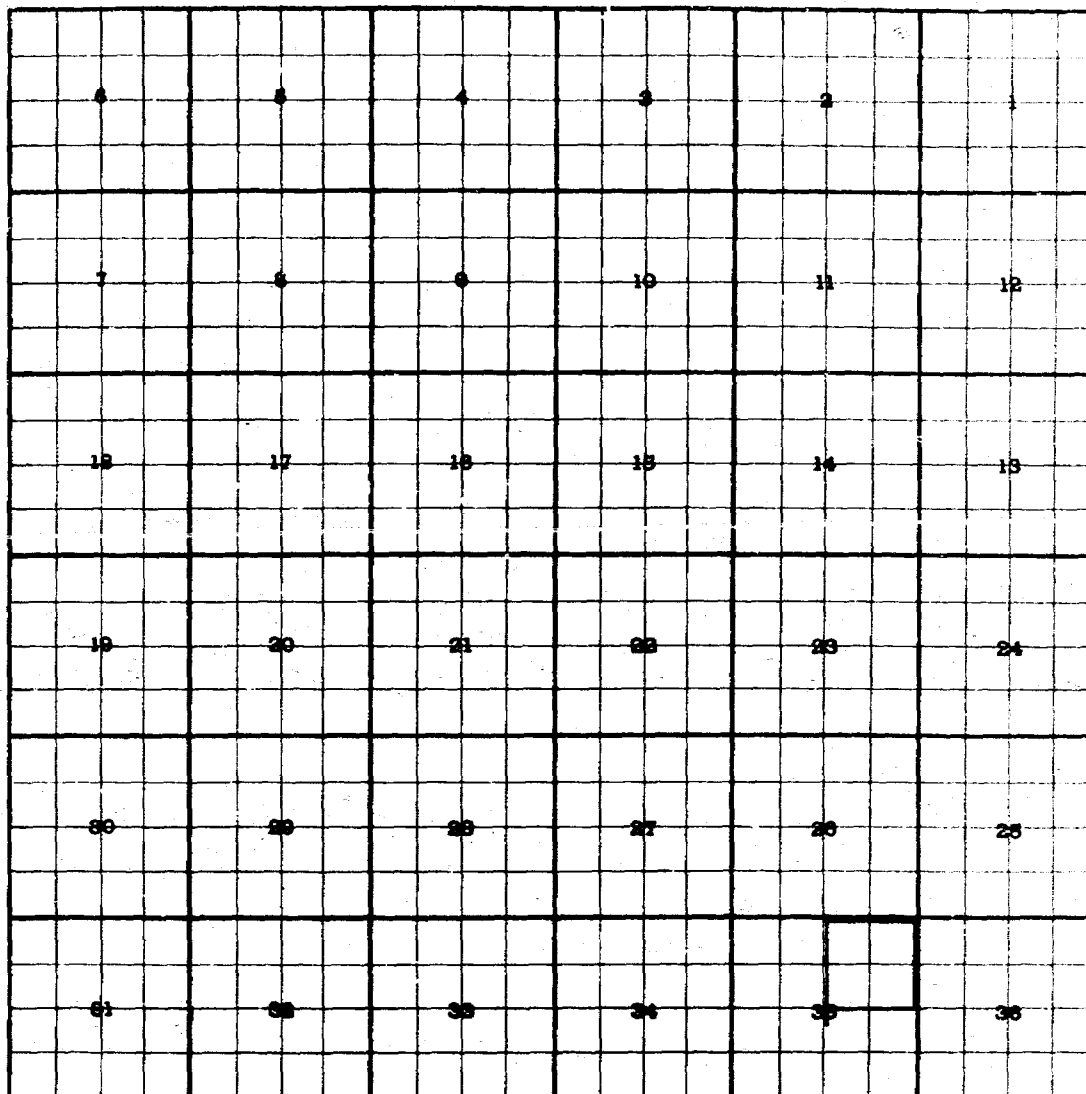
TOWNSHIP 9 South, RANGE 38 East, NEW MEXICO PRINCIPAL MERIDIAN



Proposed Pool boundary colored in Red: Lots 3 & 4 and W/2 SW/4 of Section 33

Case 1391: (F) Creation of a new pool
 Disc. Well- Union Oil Company of Calif. South Vacuum Unit #1-35 in Unit G
 of Sec. 35-18-35 Comp in Devonian 1/2y/58 Top Perf. 11,643
 County LEA Pool SOUTH VACUUM-DEVONIAN

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

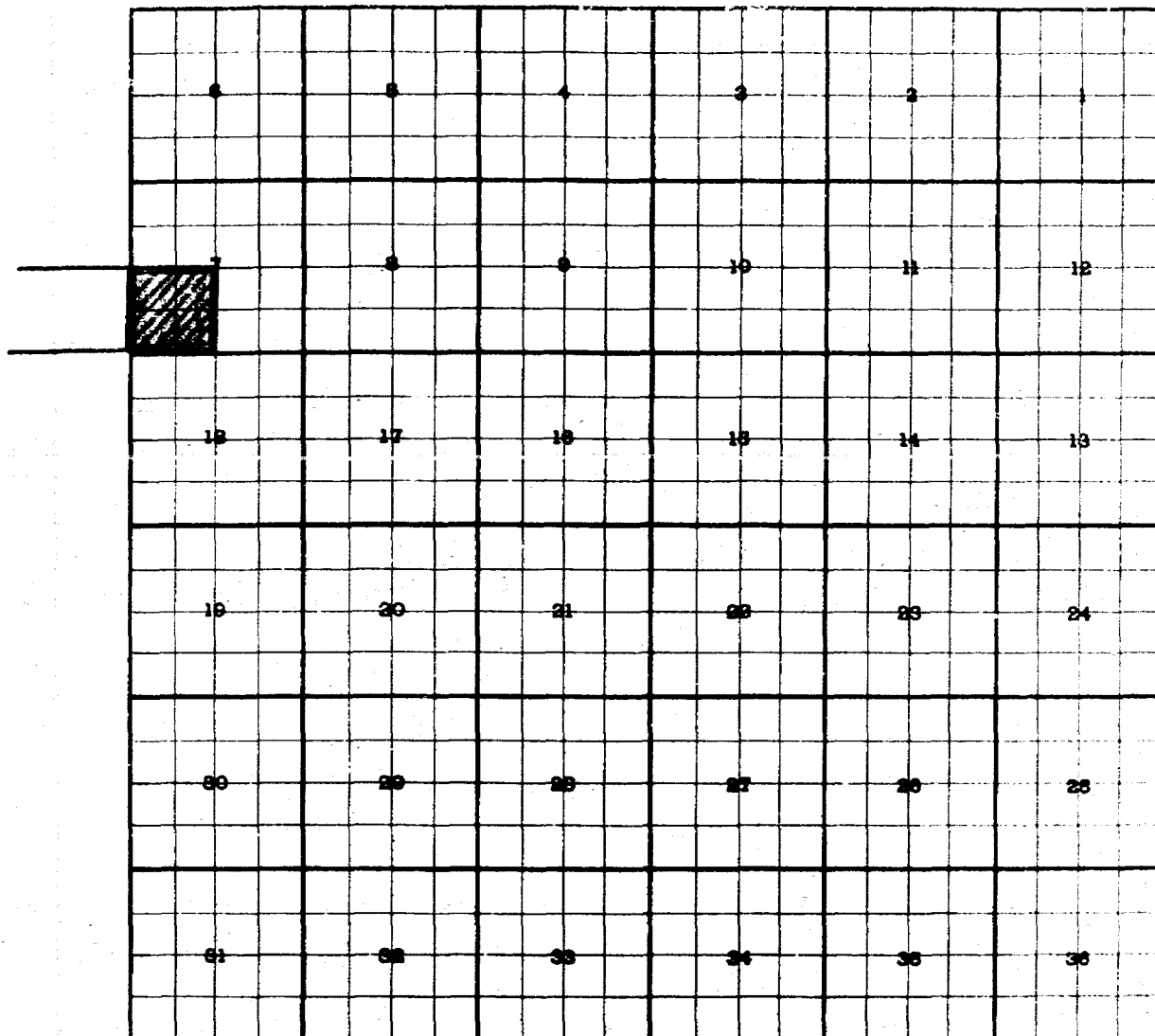


Proposed Pool boundary colored in Red: NE/4 of Section 35

Case 1391: (G) Deletion of an existing pool

County EDDY Pool ATOKA-GRAYBURG

TOWNSHIP 18 South, RANGE 27 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: To place two wells in correct pool. This portion to be
extended to the Red Lake Pool.

Pool boundary colored in Red:

Proposed deletion colored in Green: SW/4 of Section 7

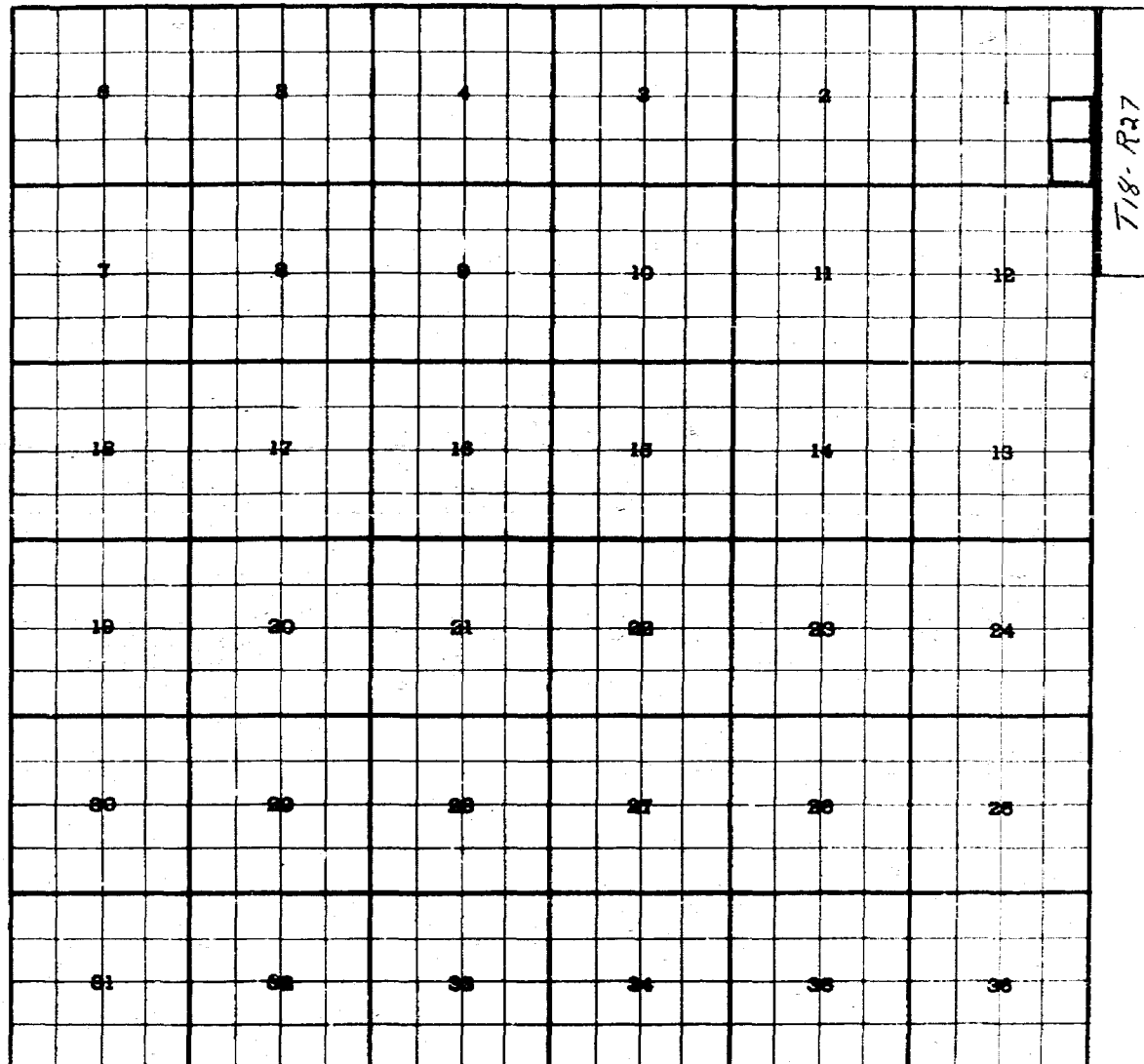
Case 1391: (H) Extension of an existing pool

PART OF THIS UNADVERTISED

County EDDY Pool RED LAKE

0-5 Grayburg & San Andres

TOWNSHIP 18 South, RANGE 26 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: For the inclusion of one producing oil well

Pool boundary colored in Red:

Proposed Extension colored in Green: NE/4 SE/4 of Section 1

John H. Trigg-Federal "J" Empire #1 in Unit P of Sec. 1-18-36

Comp in San Andres 11/15/57

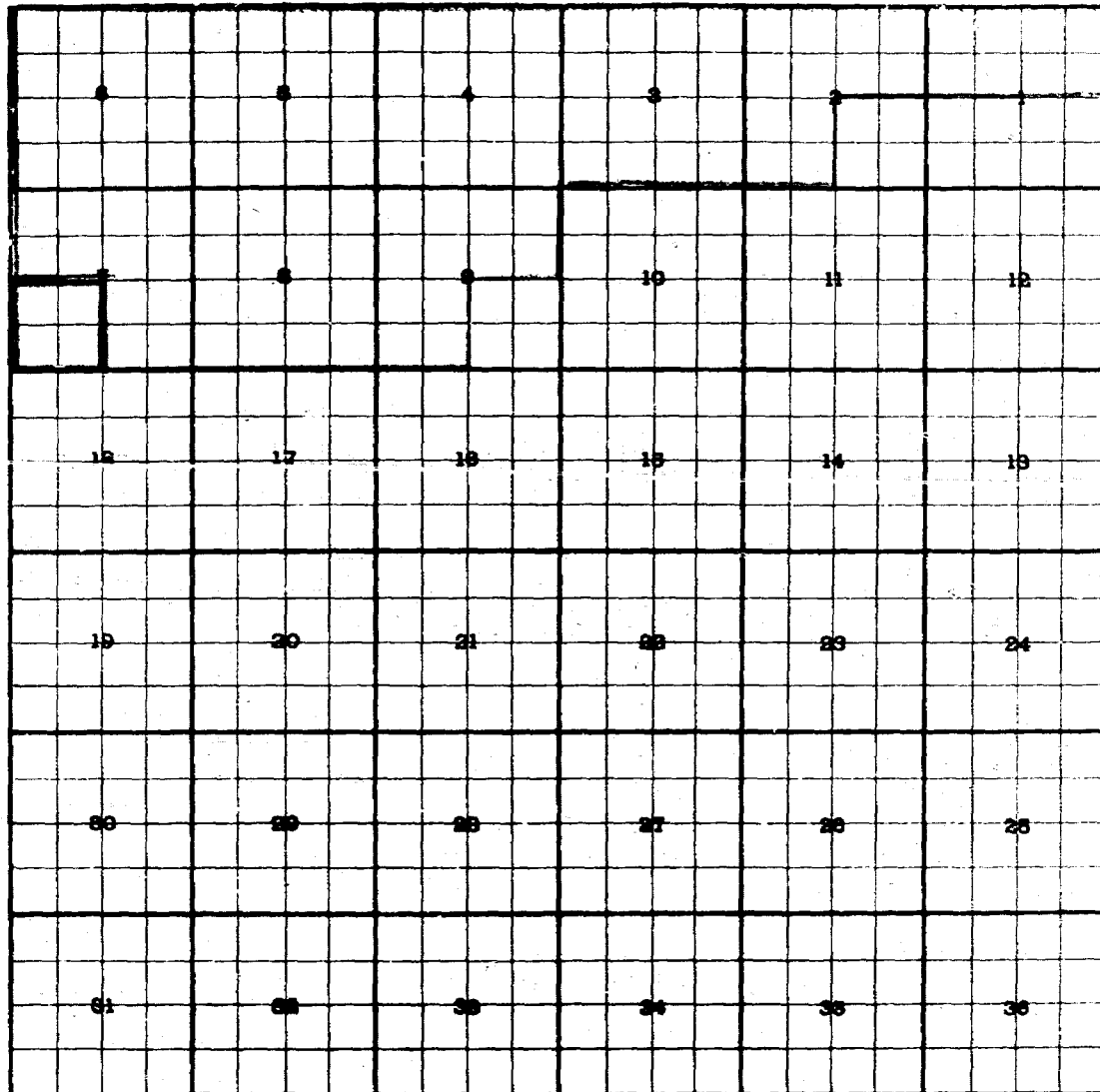
UNADVERTISED: SE/4 SE/4 of Section 1

Case 1391: (H) Extension of an existing pool

County EDDY

Pool RED LAKE

TOWNSHIP 18 South, RANGE 27 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: To include area deleted from Atoka Grayburg Pool.

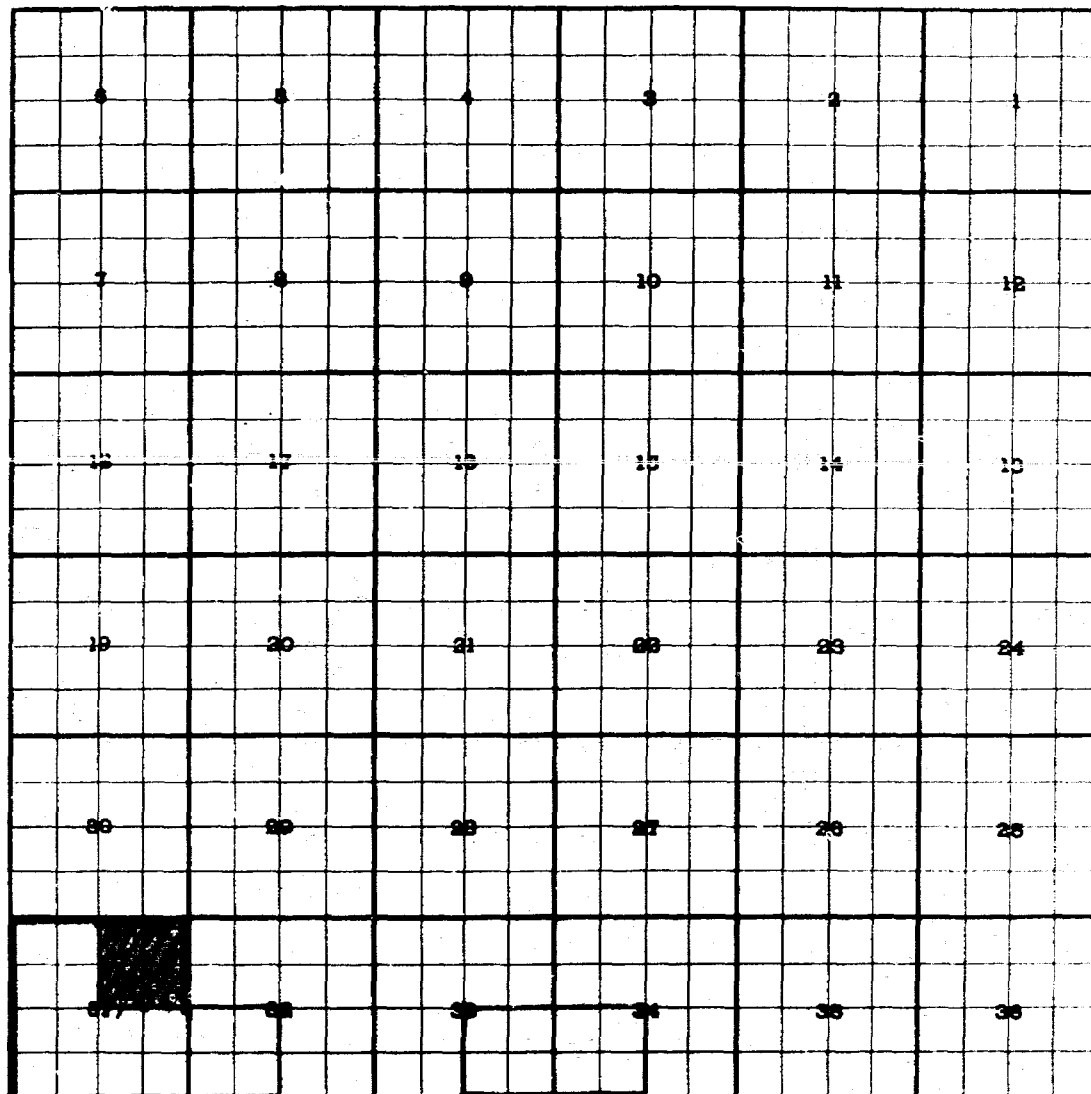
Pool boundary colored in Red:

Proposed extension colored in Green: SW/4 of Section 7

Case 1391: (I) Deletion of an existing pool

County LEA Pool SOUTH EUNICE

TOWNSHIP 21 South, RANGE 36 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: NE/4 of Section 31, Township 21 South, Range 36 East, of
Eumont and South Eunice Pools overlap. South Eunice overlap
to be removed.

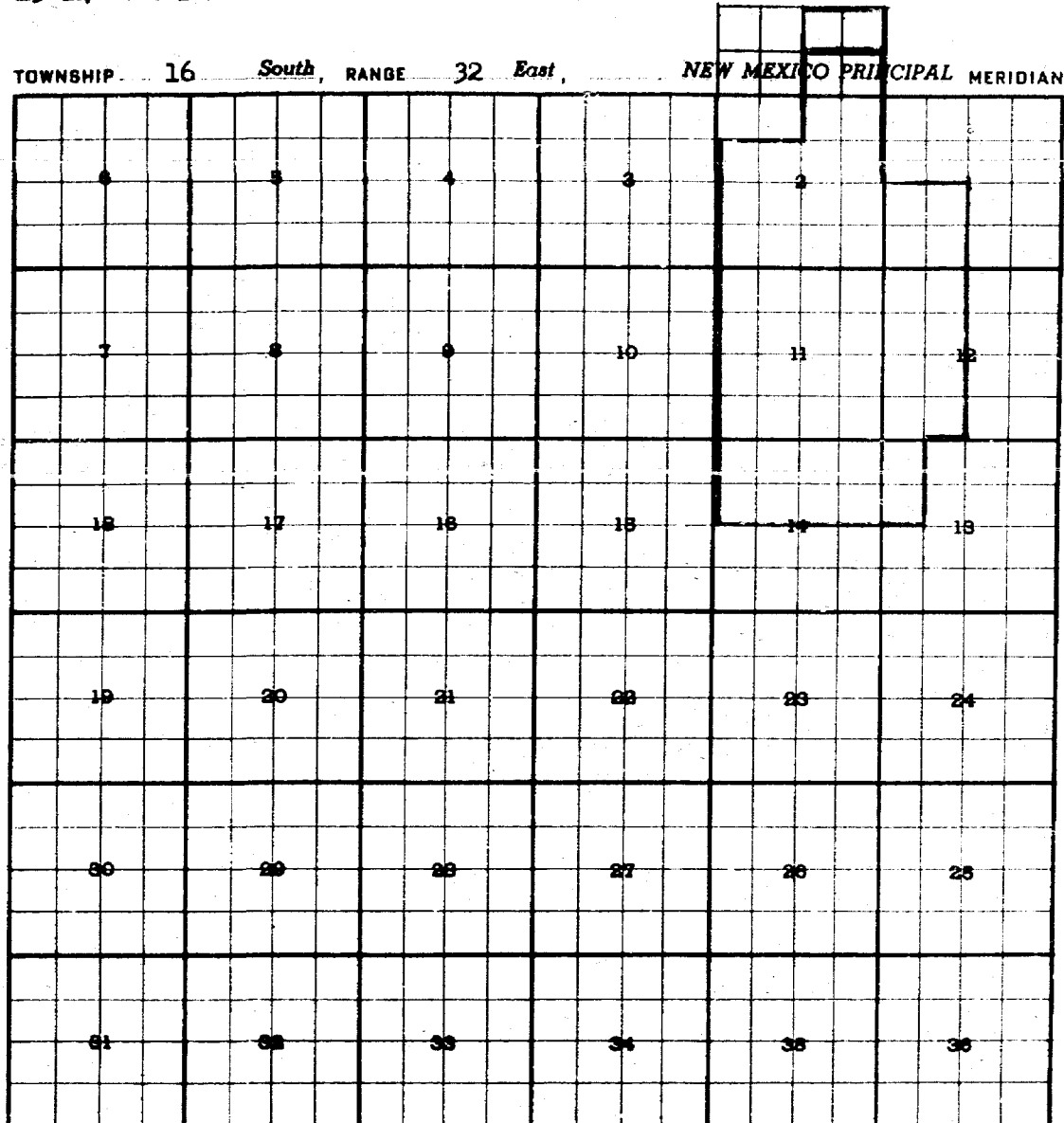
Pool boundary colored in red:

Proposed deletion colored in Green: NE/4 of Section 31

Case 1391: (J) Extension of an existing pool

County LEA Pool ANDERSON RANCH-DEVONIAN

13-14 Devonian



Purpose: One well capable of producing

Magnolia Petroleum Co.-New Mexico "S" #1 in Unit B of Sec. 2-16-32

Comp in Devonian 1/4/58 Top Perf. 13,414

Pool boundary colored in Red:

Proposed extension colored in Green: Lots 1 & 2 of Section 2

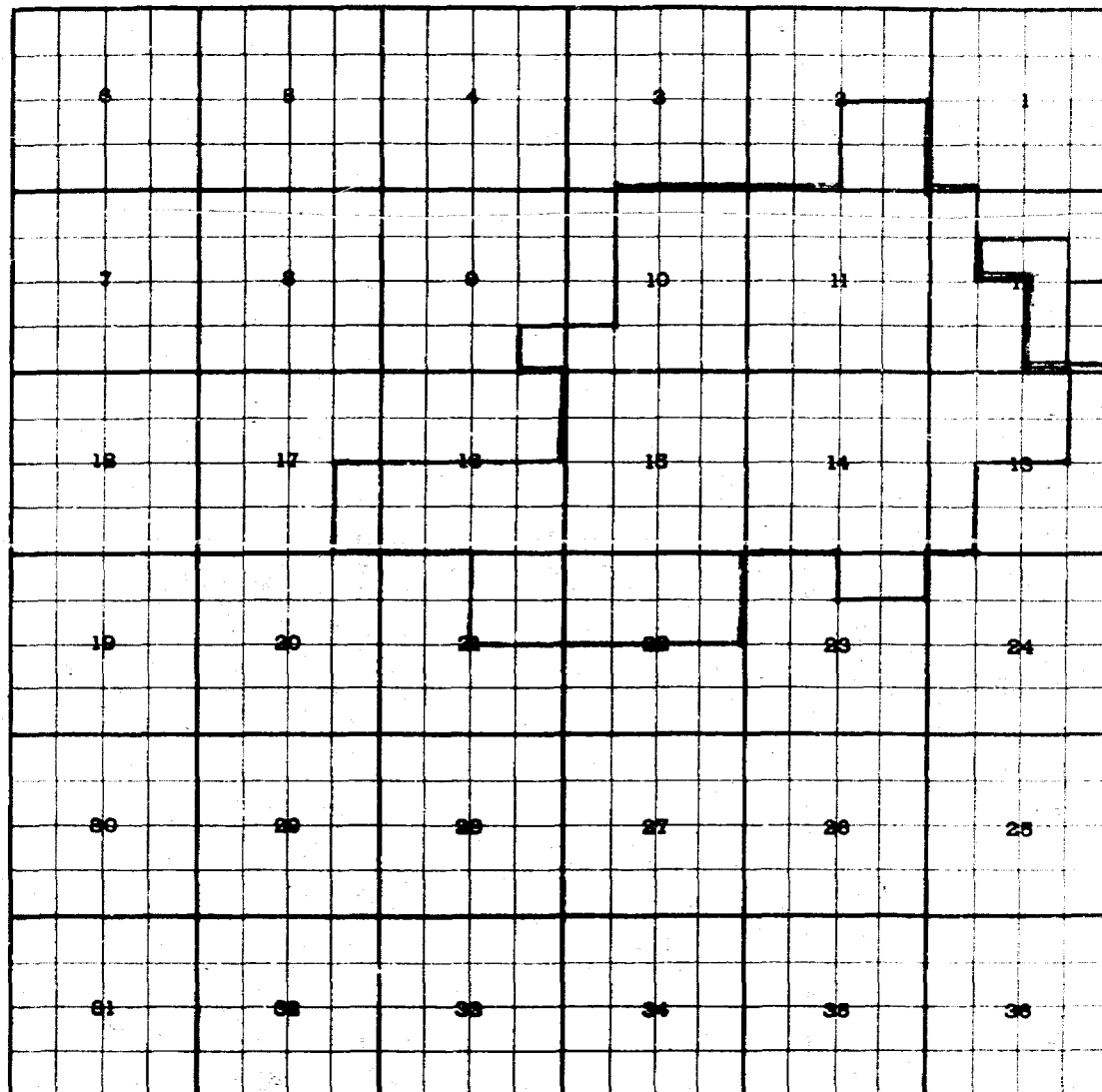
Order 1391: (E) Extension of an existing pool

PART OF THIS UNADVERTISED

County EDDY Pool ATOKA

O-5 San Andres

TOWNSHIP 18 South, RANGE 26 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: Two wells capable of producing

Standard Oil Company of Texas-Higgins Unit #1 in Unit O of

Sec. 12-18-26 Comp. in San Andres 1/4/58 Top Perf. 1695

Pool Boundary colored in Red:

Proposed Extension colored in Green: W/2 SE/4, SE/4 NW/4, SW/4 NE/4 of
Section 12

UNADVERTISED: Martin Yates III Gates Wheatley #1 in Unit I of Sec. 12-18-26

Comp in San Andres 12/27/57 Top perf 1699

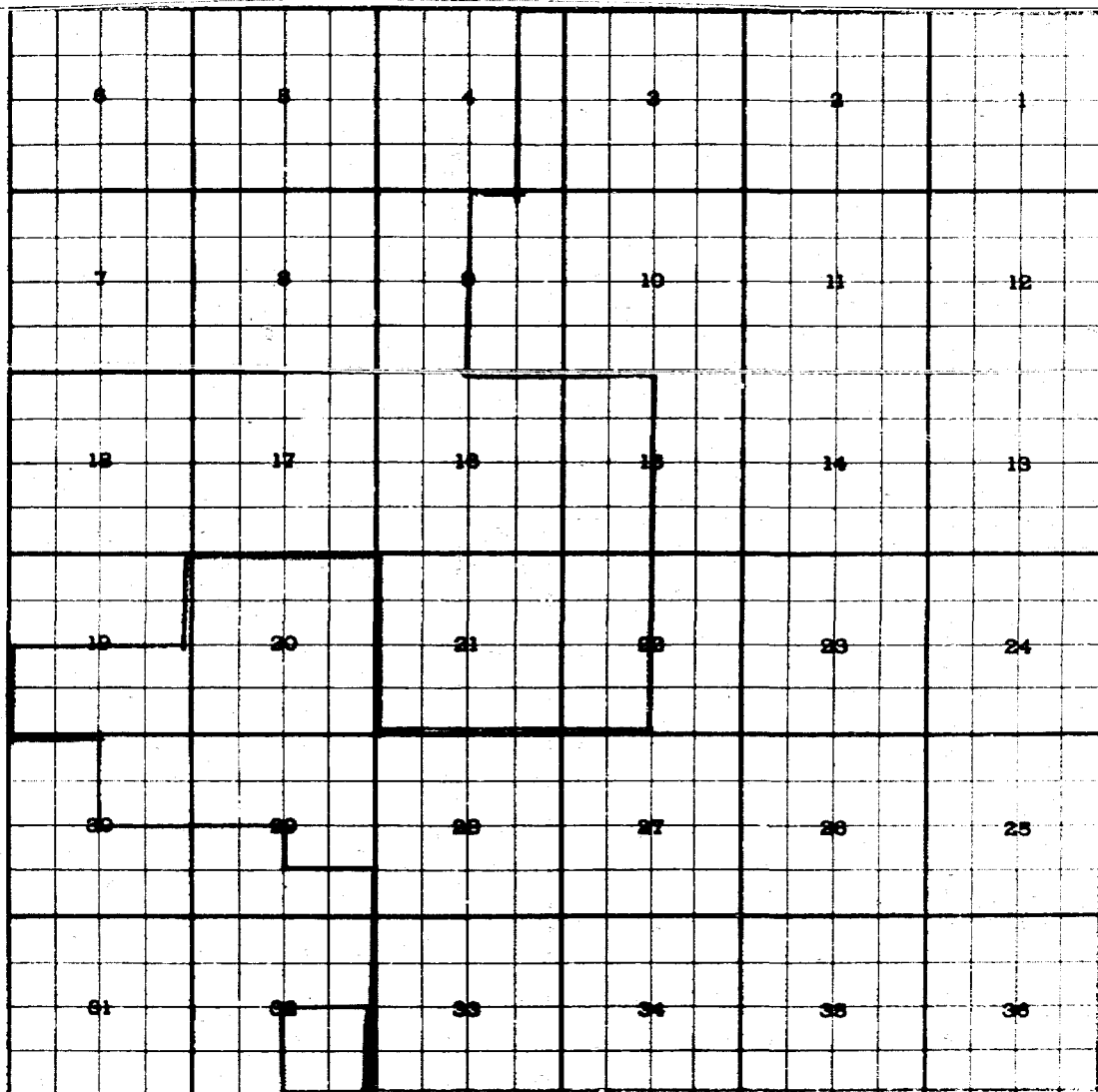
UNADVERTISED: E/2 SE/4 of Section 12

Case 1391: (L) Extension of an existing pool

County LEA Pool EUMONT

0-5 Yates, Seven Rivers & Queen

TOWNSHIP 20 South, RANGE 36 East, NEW MEXICO PRINCIPAL MERIDIAN



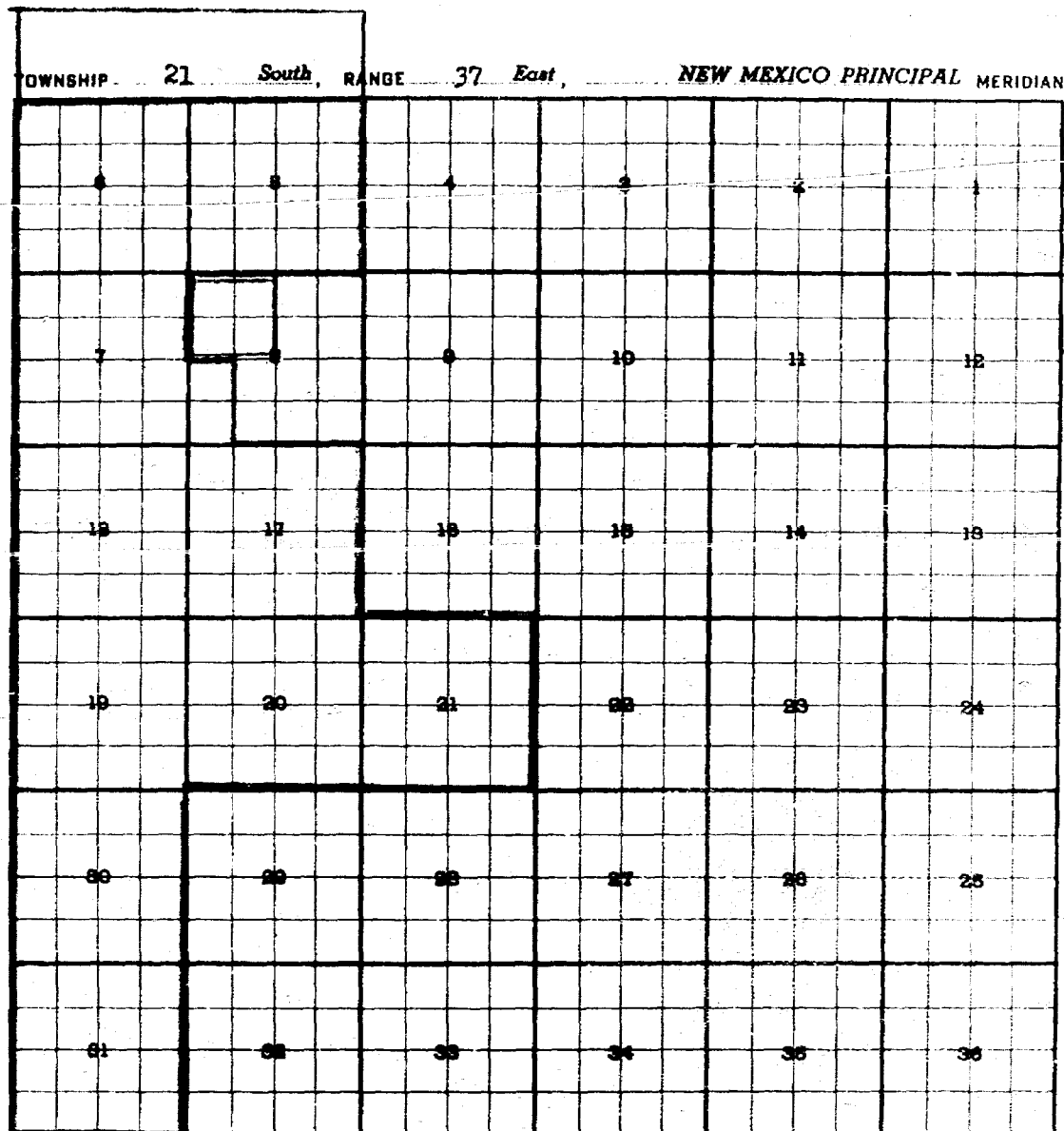
Purpose: One well capable of producing
Amerada Pet. Corp-State WE "I" 32 #1 in Unit O of Sec. 32-20-36
Comp. in Seven Rivers 1/1/58 Top perf. 3917
Pool boundary colored in Red:
Proposed Extension colored in Green: SE/4 of Section 32

Case 1391: (L) Extension of an existing pool

County LEA

Pool EUMONT

O-5 Yates, Seven Rivers, & Queen



Purpose: One well capable of producing

N. G. Penrose-Alves B #1 in Unit F of Sec. 8-21-37

Comp. in Penrose 9/10/57 Top Perf. 3651

Pool boundary colored in Red:

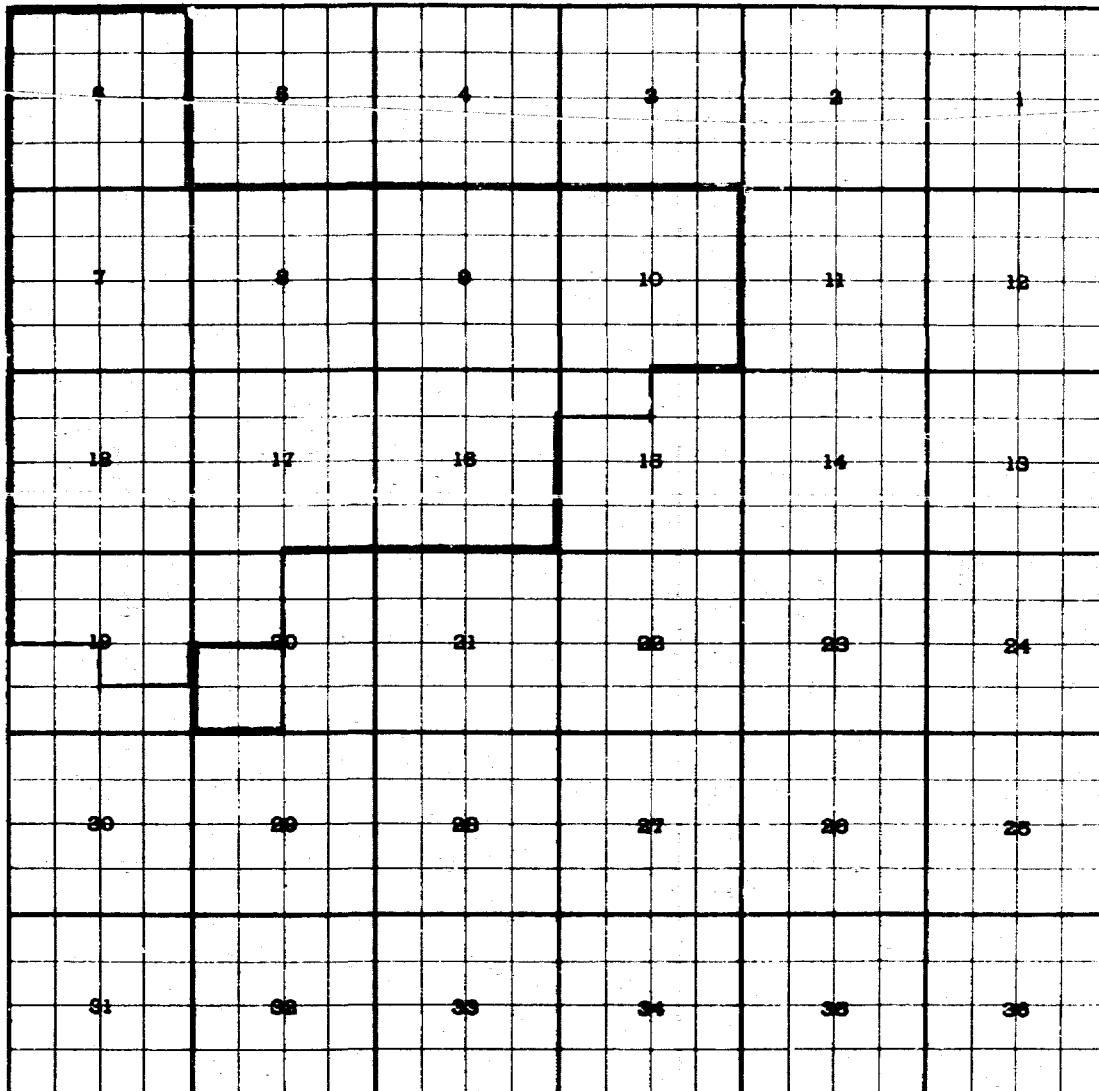
Proposed Extension colored in Green: NW 1/4 of Section 8

Case 1391: (L) Extension of an existing pool

County LEA Pool EUMONT

0-5 Yates, Seven Rivers, & Queen

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



Purpose: One well capable of producing

Humble Oil & Ref. Co. M. M. State "M" #13 in Unit K of Sec. 20-22-37

Comp in Queen 12/18/57 Top Perf 3573

Pool boundary colored in Red:

Proposed Extension Colored in Green: SW/4 of Section 20

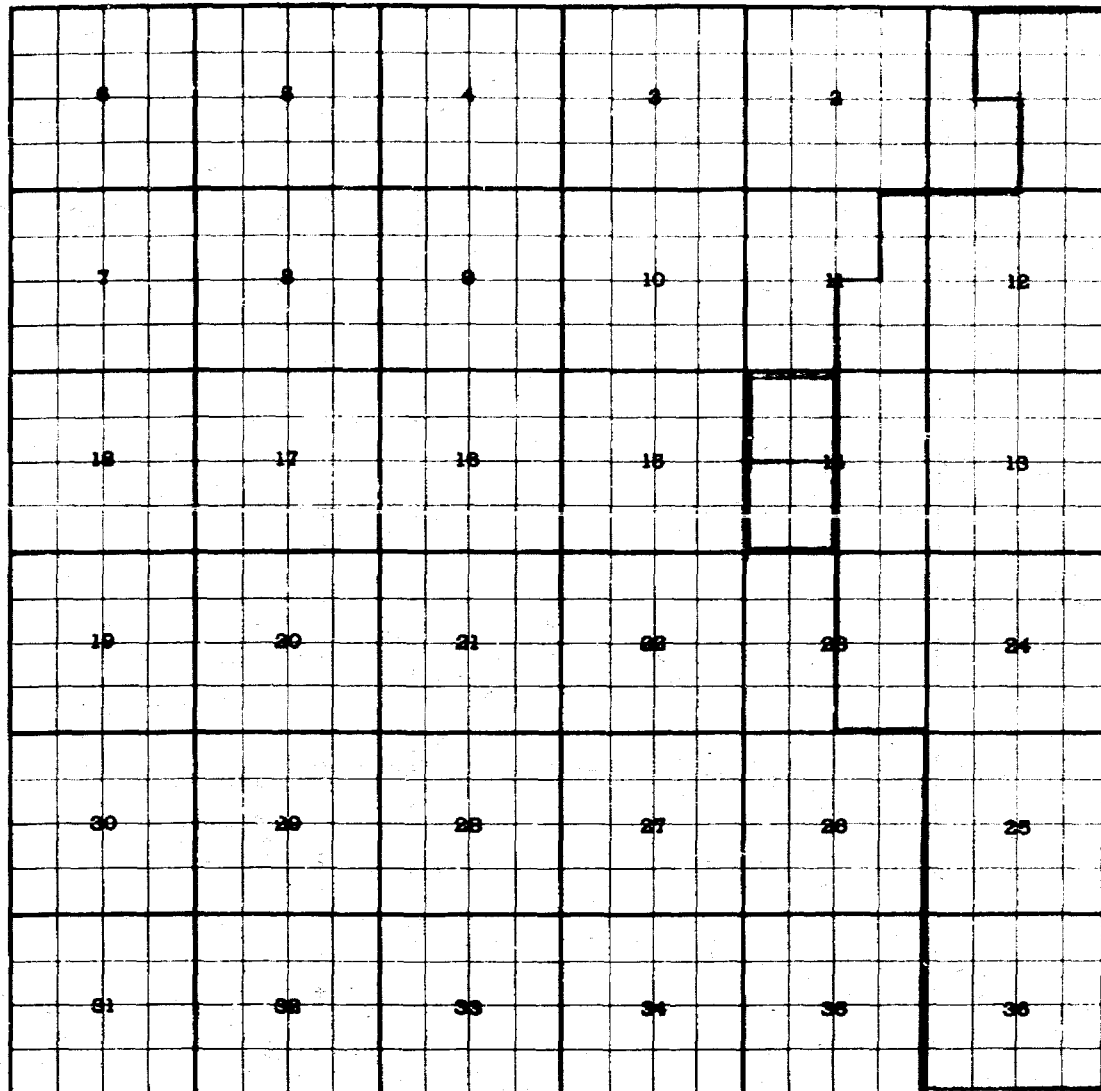
Case 1391: (M) Extension of an existing pool

PART OF THIS UNADVERTISED

County LEA Pool JALMAT

O-5 Yates & Seven Rivers

TOWNSHIP 22 South, RANGE 35 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: Two wells capable of producing

Gulf Oil Corp. J. F. Janda "K" #1 in Unit K of Sec. 14-22-35

Comp. in Seven Rivers 1/1/58 Top Perf. 3970

THIS PART UNADVERTISED: British American Oil Prod. Co.-Merchant

Livestock #1 in Unit C of Sec. 14-22-35

Comp in Yates 2/10/58 Top Perf. 3948

Pool Boundary colored in Red:

Proposed Extension colored in Green: SW/4 of Section 14

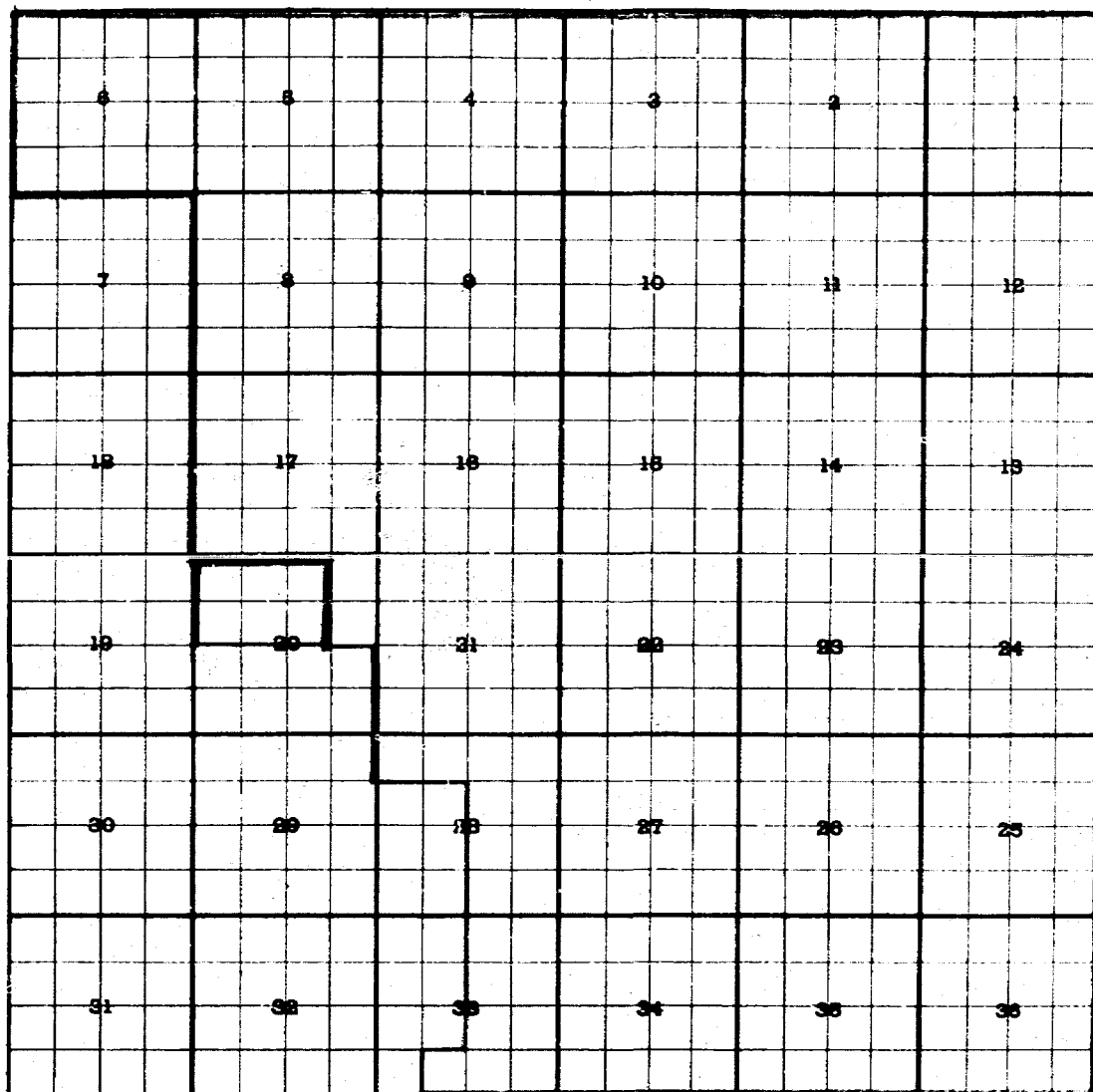
UNADVERTISED NW/4 of Section 14

Case 1391: (M) Extension of an existing pool

County LEA Pool JALMAT

O-5 Yates & Seven Rivers

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



Purpose: One well capable of producing

Continental Oil Co.-Stevens B-20 #1 in Unit C of Sec. 20-23-36

Comp in Yates 1/5/58 Top Perf. 3630

Pool Boundary colored in Red:

Proposed Extension colored in Green: NW/4 & W/2 NE/4 of Section 20

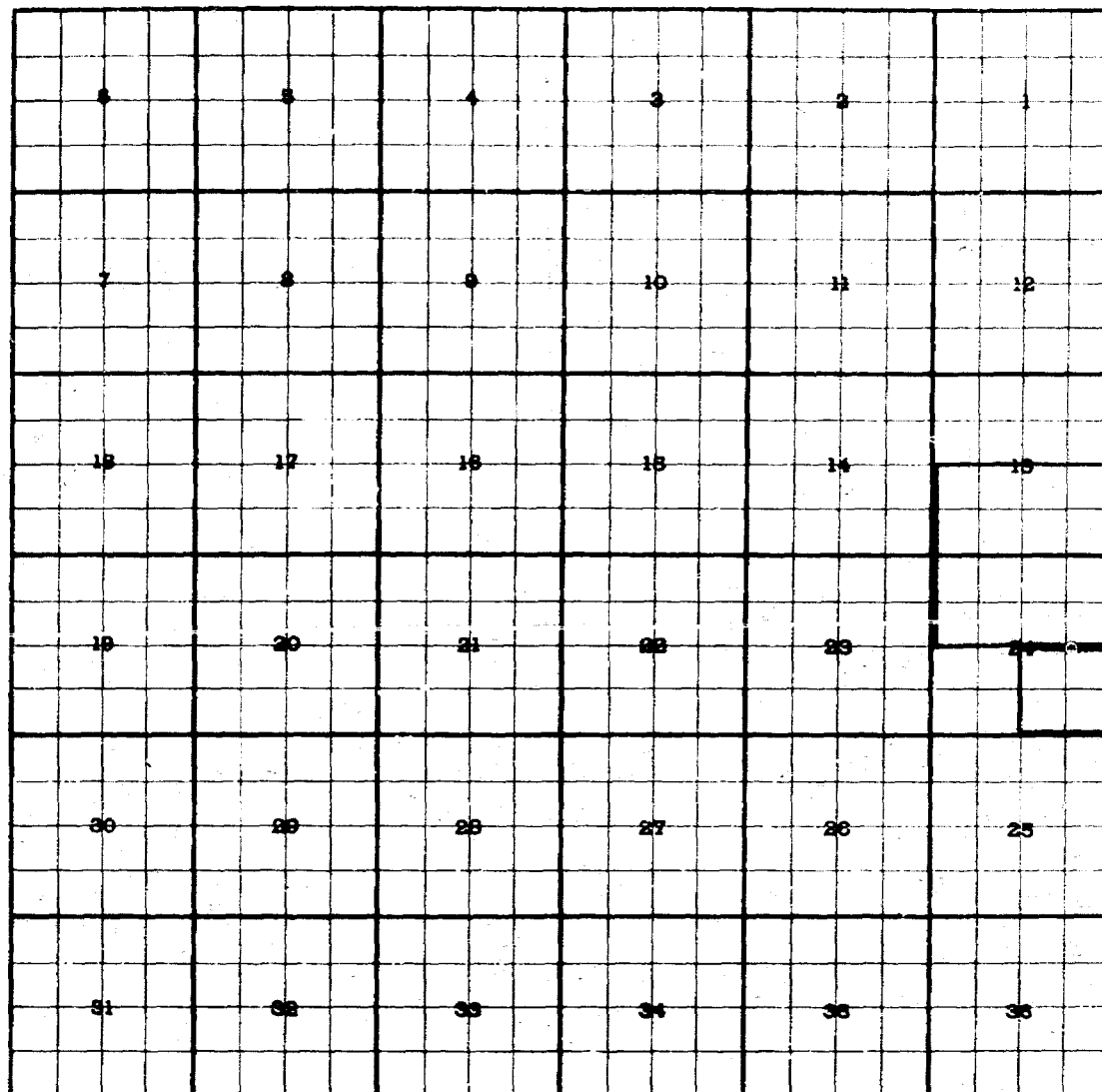
Case 1391: (N) Extension of an existing pool

County LEA

Pool JUSTIS-ELLENBURGER

8-9 Ellenburger

TOWNSHIP 25 South, RANGE 37 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One well capable of producing

Tidewater Oil Co.,-A. B. Coats C #9 in Unit J of Sec. 24-25-37

Comp in Ellenburger 1/2/58 Top perf. 7950

Pool Boundary Colored in Red:

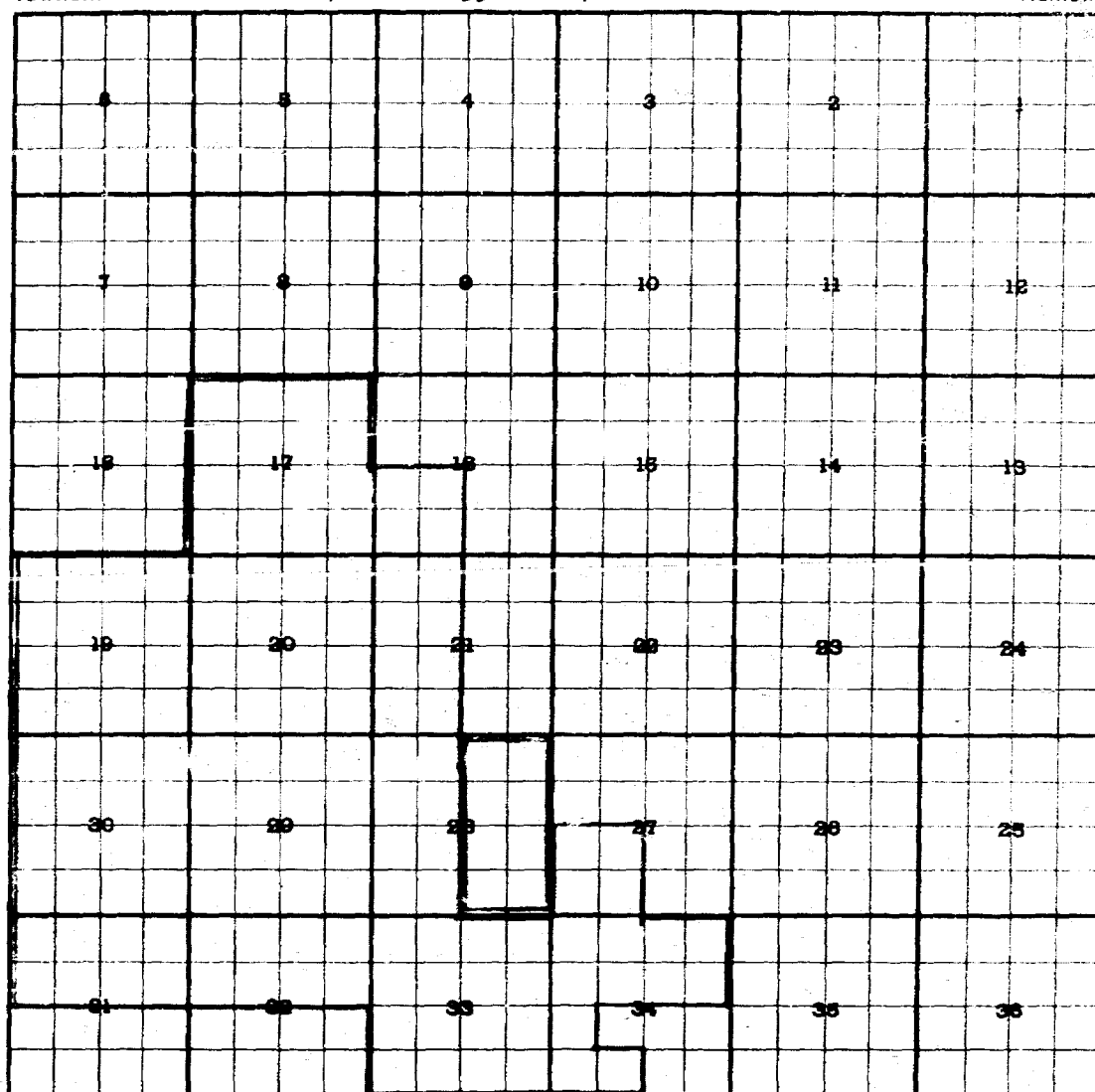
Proposed Extension colored in Green: SE/4 of Section 24

Case 1391: (0) Extension of an existing pool

County LEA Pool MALJAMAR

0-5 Grayburg & San Andres

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



Purpose: Five wells capable of producing

Zapata Pet. Corp. - Phillips St. #9, Unit O, Sec. 28-17-33, Comp Grayburg 1/12/58,
Top Perf. 4468

Zapata Pet. Corp. Phillips St. #10, Unit J, Sec. 28-17-33, Comp Grayburg 1/15/58
Top Perf. 4404

Zapata Pet. Corp. Phillips St. #11, Unit G, Sec. 28-17-33, Comp Grayburg 12/25/57
Top Perf. 4260

Zapata Pet. Corp. Phillips St. #12, Unit I, Sec. 28-17-33, Comp Grayburg 1/19/58
Top Perf. 4222

Zapata Pet. Corp. Phillips State #13, Unit P, Sec. 28-17-33, Comp Grayburg 2/16/58
Top Perf.

Pool Boundary Colored in Red:

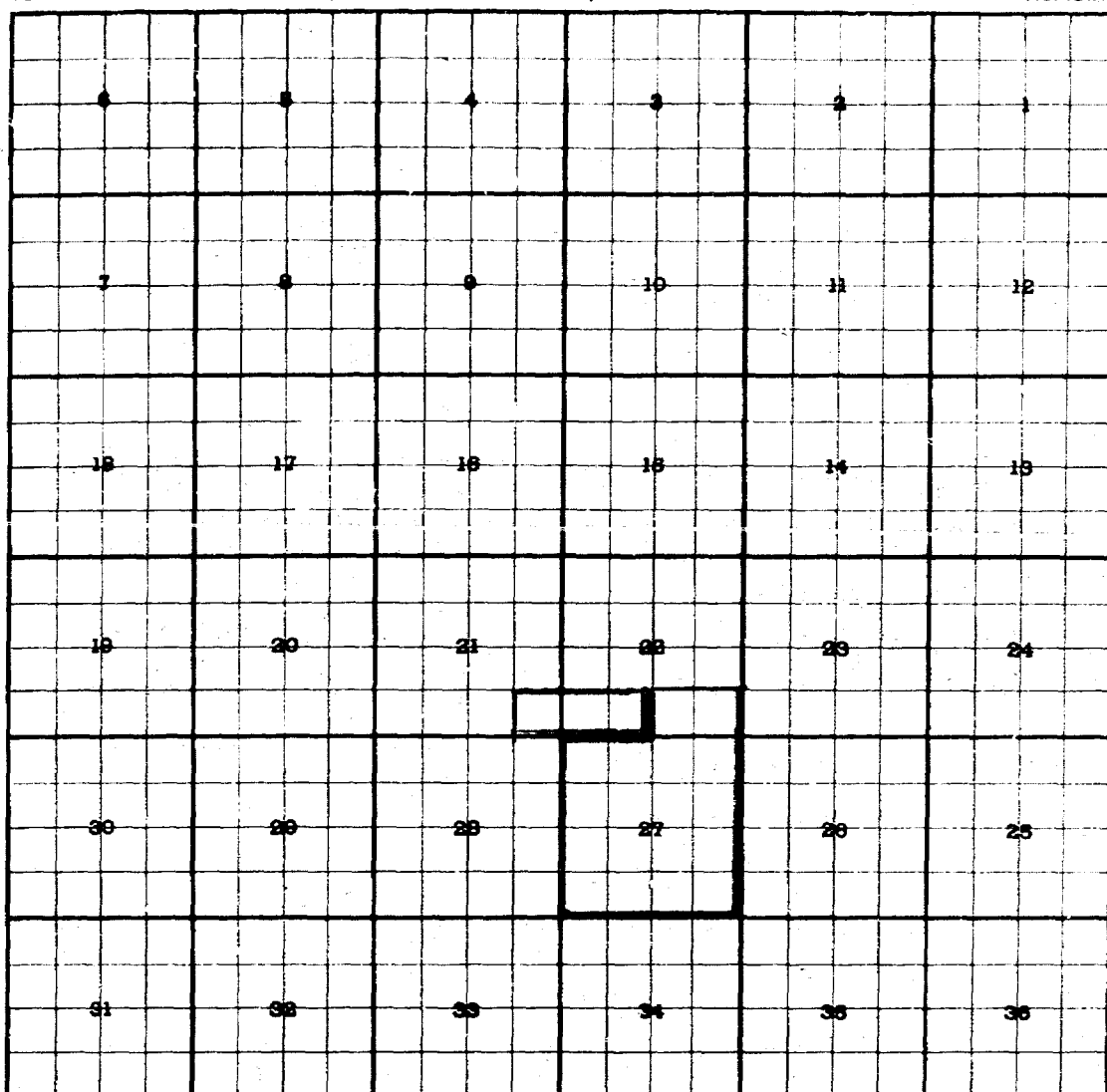
Proposed Extension colored in Green: E/2 of Section 28

Case 1391: (P) Extension of an existing pool

County LEA Pool PEARL-QUEEN

0-5 Queen

TOWNSHIP 19 South, RANGE 35 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One well capable of producing

Shell Oil Co.-McIntosh "D" #1 in Unit P of Sec. 21-19-35

Comp in Queen 1/31/58 Top Perf. 4859

Pool Boundary colored in Red:

Proposed Extension colored in Green: SE/4 SE/4 of Section 21

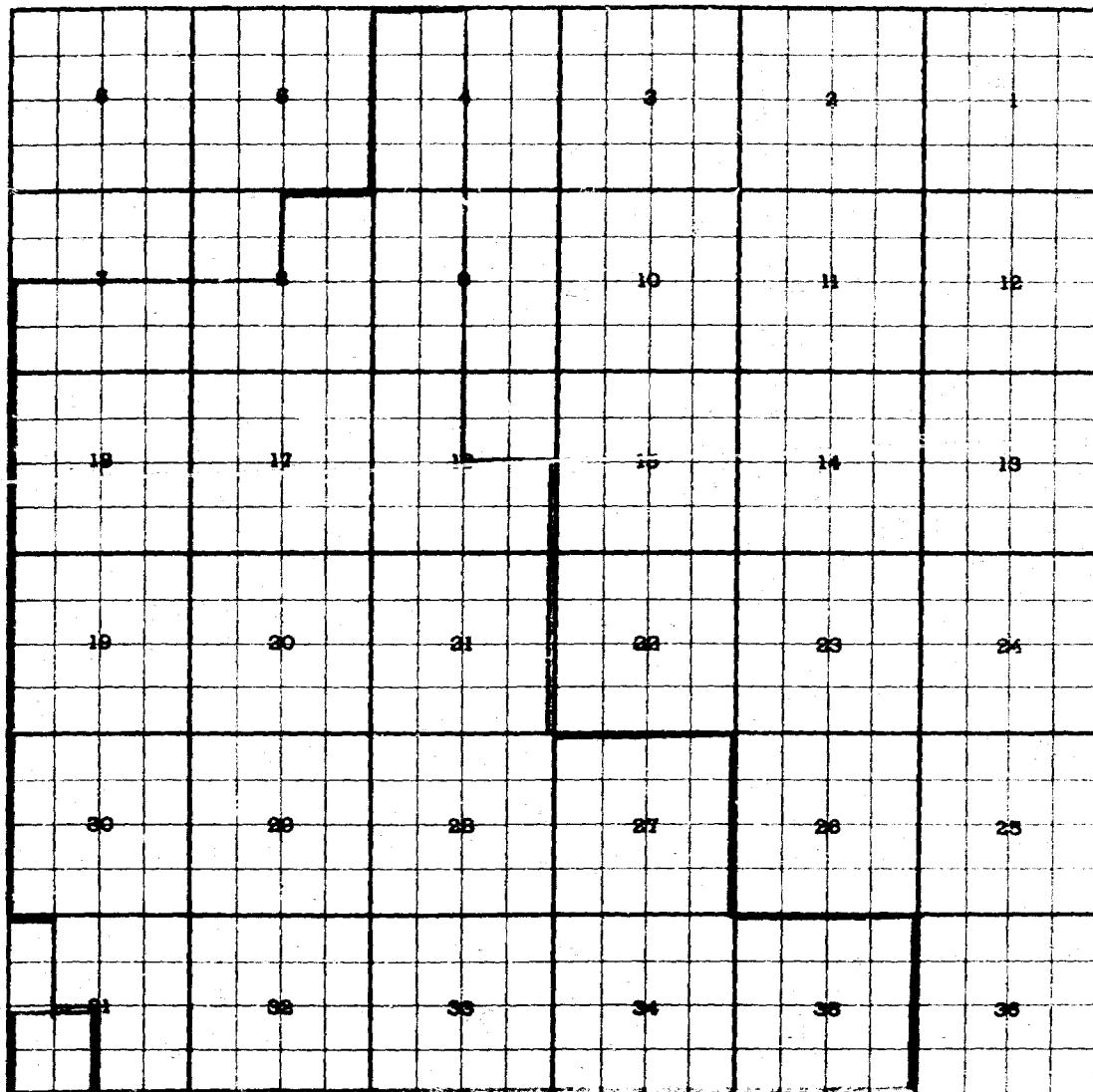
S/2 S~~u~~/4 of Section 22

Case 1391: (Q) Extension of an existing pool

County LEA Pool PENROSE-SKELLY

O-5 Grayburg

TOWNSHIP 21 South, RANGE 37 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One well capable of producing

Tres Oil Co-Gill A #1 in Unit L of Sec. 31-21-37 Comp in Grayburg 12/31/57

Top Perf. 3710

Pool Boundary Colored in Red:

Proposed Extension colored in Green: SW/4 of Section 31

Case 1391: (R) Extension of an existing pool

County LEA

Pool TOWNSEND-WOLF CAMP

10-11 Wolfcamp

TOWNSHIP	16	17	18	19	20	21
16	1	2	3	4	5	6
17	7	8	9	10	11	12
18	13	14	15	16	17	18
19	19	20	21	22	23	24
20	25	26	27	28	29	30
21	31	32	33	34	35	36

Purpose: One well capable of producing

Austral Oil Expl. Co. Inc.-W. M. Snyder "B" #1 in Unit I of Sec. 6-16-36

Comp in Wolfcamp 11/30/57 Top perf 10,675

Pool Boundary colored in Red:

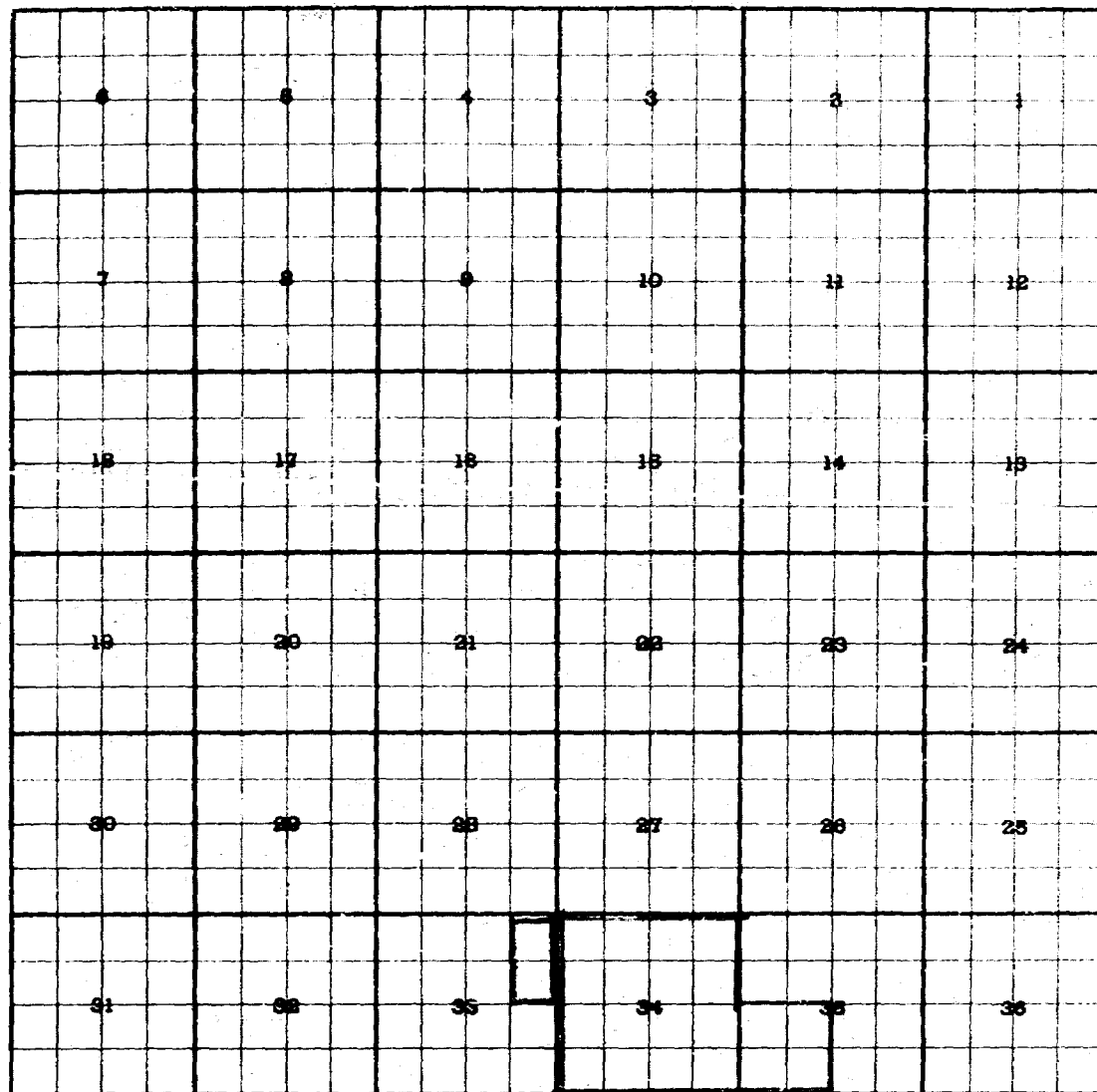
Proposed Extension colored in Green: Lots 9, 10, 11, 14, 15, & 16
of Section 6

Case 1391: (S) Extension of an existing pool

County LODY Pool THANK 122 24

O-5 Queen & Grayburg

TOWNSHIP 18 South, RANGE 29 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: One well capable of producing

Robert E. McKee-McKee Wilson #3 in Unit A of Sec. 33-18-29

Comp in Queen 12/24/57 Top perf 2057

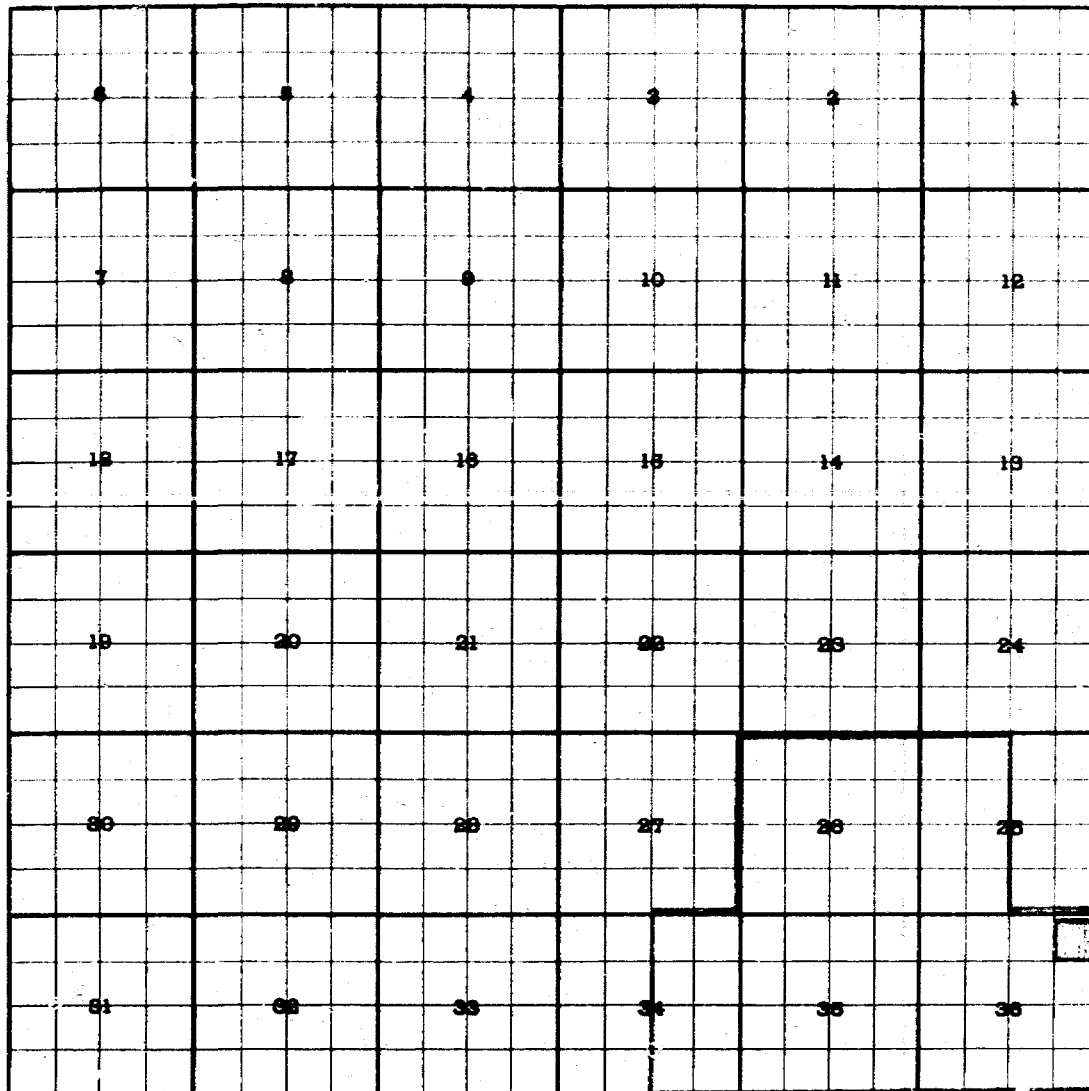
Pool Boundary colored in Red:

Proposed Extension colored In Green: E/2 NE/4 of Section 33

Case 1391: (T) Deletion of an existing pool

County LEA Pool ARROWHEAD

TOWNSHIP 21 South, RANGE 36 East, NEW MEXICO PRINCIPAL MERIDIAN



Purpose: Portion deleted non-productive to Arrowhead pool.

Pool Boundary colored in Red:

Proposed deletion colored in Green: NE/4, NE/4 of Section 36