

CASE 4130:

SOUTHEASTERN NEW MEXICO
NOMENCLATURE

Case Number.

4130

Application

Transcripts.

Small Exhibits

ETC.

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

May 14, 1969

REGULAR HEARING

IN THE MATTER OF:

Southeastern nomenclature
case calling for an order
for the creation, extension,
and abolishment of certain
pools in Lea, Eddy, Chaves
and Roosevelt Counties,
New Mexico.

Case 4130

BEFORE: DAVID A. CARGO, Chairman

A. L. PORTER, Junior, Director-Secretary

TRANSCRIPT OF HEARING

JUN 12 PM 1 12

MR. PORTER: Case 4130.

MR. HATCH: Southeastern Nomenclature case calling for an order for the creation, extension and abolishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

DAN NUTTER,

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

DIRECT EXAMINATION

BY MR. HATCH:

Q Will you state your name and position, please, sir?

A Dan Nutter, Chief Engineer for the Oil Conservation Commission.

Q Are you prepared to make recommendations to the Commission concerning the creation, extension and abolishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico?

A Yes, I am.

Q Are your recommendations prepared in the form of an exhibit?

A Yes, they are. This is identified as OCC

Exhibit No. One in Case 4330.

Q Would you refer to Exhibit No. 1 and point out any corrections that need to be made?

A Exhibit One is an exhibit ~~portraying~~ the extensions, creations and abolishments, and so forth, and it is identical to the creations, extensions and abolishments, and so forth, depicted in the docket, with certain exceptions.

A through C are identical. With respect to Paragraphs B and C, I would like to point out that geological formations and studies by the Staff of the Oil Conservation Commission indicate that the North Indian Hills-Morrow Gas Pool, is, in fact, the Indian Basin-Morrow Gas Pool, and that the North Indian Hills-Morrow should be abolished, and the acreage included therein, extended to the Indian Basin-Morrow Gas Pool. I would also recommend that the proration formula, in effect, for the Indian Gate Basin Gas Pools should apply to the acreage formerly contained in the North Indian Hills-Morrow Gas Pool. Also, that those non-standard gas proration units in the North Indian Hills-Morrow Gas Pool be approved as a

proration unit with the appropriate acreage factor in the Indian Basin-Morrow Gas Pool. Now, with respect to Paragraph D and E, the abolishment of the Wantz-Abo Pool, and the extension of Drinkard Pool to include that acreage and those vertical limits.

I would recommend, pending further study, that this case be continued for the hearing set for July the 16th, and included in the nomenclature case at that time.

It is identical to that extension of the Middle Allison-Pennsylvanian Pool, shown on the docket, with the following exceptions: there should be an additional extension, being the Southwest quarter of Section 30, Township 8 South, Range 36 East, and the east half of Section 8, Township 9 South, Range 36 East.

Paragraph G, the extension of the North Bagley-Lower Pennsylvanian Pool is as shown on the docket, with the following additional extensions; the northwest quarter of Section 18. Paragraph H, a extension of the North Bagley-Upper Pennsylvanian Pool, is as shown on the docket, with the following additions;

from Section 30 of Township 11 South, Range 33 East, and the north half.

Paragraph I, J, and K are as shown on the docket. Paragraph L, the Inbe Permo-Pennsylvanian Pool, should be extended as shown on the docket, with the following additions; Section A, also, has the southwest quarter, as well as the northeast quarter.

Paragraphs M and N are as shown on the docket.

Paragraph O is as shown on the docket, with the following additional extension; Section 4 in Township 10 South, Range 37 East, the west half of the northwest quarter, and Section 5 of Township 10 South, Range 37 East, the northeast quarter.

Paragraph P, is as shown on the docket, with the following additional extension; Section 16 in the northwest quarter.

Paragraph Q, is as shown on the docket.

With those corrections to the docket, the docket is the same as Exhibit One in this case, and I would recommend that the pool extensions and abolishments and creations be shown as on Exhibit One.

Q Was Exhibit 1 prepared by you or under your

supervision?

A Yes, it was.

MR. HATCH: I move the introduction of Exhibit 1 in this case.

MR. PORTER: Exhibit 1 may be entered.

(Thereupon, Commission's Exhibit No. 1 was marked for identification.)

Before Mr. Nutter is dismissed, we have a request by Mr. Johnson, who is a representative of Shell Oil Company, that he be allowed to make a statement for the record concerning paragraph E which Mr. Nutter recommended be continued.

Mr. Johnson, would you like to make that statement at this time?

MR. ROBERT E. JOHNSON: I'll just read it from here, so we don't lose anything in the translation.

MR. PORTER: All right.

MR. JOHNSON: It says: "Shell Oil Company wishes to make the following comments with reference to the proposed combination of the Drinkard and Wantz Abo formations into a single distinct pool:

While the combining of the Drinkard and Wantz

Abo reservoirs has certain recognizable advantages, Shell's principal concern at this time involves the possible detrimental effect this plan may have on future unitization efforts in the Drinkard zone, which may result in a corresponding delay, or even loss, of secondary reserves. The prevention of waste of these secondary reserves could far outweigh any increased primary recovery which may result from the combination of the Drinkard and Wantz Abo reservoirs.

The Drinkard reservoir is currently an established candidate for secondary recovery. In fact, at the present time one portion of this reservoir is already unitized and in the pilot phase of a waterflood project. Also, preliminary data-gathering efforts are underway which may lead to the formation of an additional unit or units for supplemental recovery in this reservoir. To date, there has been no apparent effort directed toward establishment of any secondary recovery projects in the Wantz Abo reservoir. In fact, the rather sporadic development pattern of this horizon suggests a discontinuous distribution of reservoir pay within the recognized producing interval. On this

basis alone, the Wantz Abo reservoir should be considered only as a minor secondary recovery candidate, if indeed, a secondary candidate at all.

Therefore, the inclusion of the Wantz Abo with the Drinkard as a single reservoir will probably affect future Drinkard unitization by extending unitization negotiations and may lead to non-participation of some tracts causing "windows" in the units. A subsequent loss of flooding efficiency and reserves could result from this situation. Some of the more apparent reasons for the aforementioned statement are as follows:

- a. The establishment of acceptable unitization parameters from both zones,
- b. The possible rejection of certain intervals or areas from the units, which can delay unitization agreement,
- c. The "weighting" by former interval of both measured and interpretive data and a corresponding extended period of negotiation in an attempt to establish equities based on these data.
- d. The possible separate ownership of Drinkard and Wantz Abo rights under a common tract.

(This situation is known to exist in at least one instance.)

Because of these, and other presently unforeseen reasons, Shell feels that the combination of the Drinkard and Wantz Abo reservoirs cannot possibly help and will probably hinder future unitization efforts and secondary recovery operations in the present Drinkard and Wantz Abo as separate reservoirs in order to expedite unitization for secondary recovery purposes.

In summary, Shell agrees that the proposed plan will not adversely affect and, in fact, may increase the remaining recoverable primary reserves from both horizons, by permitting production into a common well bore. However, this could also be accomplished by requests on an individual well basis for commingling in the well bore whenever the desirability and necessity for such commingling can be demonstrated. Shell therefore suggests that the Commission consider the possible adverse effects that the comingling of two reservoirs, which were previously recognized as separate, may have on future secondary recovery."

MR. PORTER: Thank you very much, Mr. Johnson. Now, I believe Mr. Hatch has something further.

MR. HATCH: I have a letter from Atlantic Richfield Company and Pan American Petroleum Corporation; they are very short, and I believe that I will read them into the record. The one from the Atlantic Richfield Company is dated May 9, 1969, and is addressed to Mr. Porter. With reference to subject Case, 4130, "Please be advised that Atlantic Richfield Company concurs in the proposal to abolish the Wantz-Abo Pool, extend the vertical limits of the Drinkard Pool to include the Abo formation, and the redesignation of same as the Drinkard-Abo Pool. As you are aware, the proposed changes will result in a number of proration unit having two wells completed in the new pool. To cover such cases, it is respectfully requested that the Order establishing the new pool, provide that the operator be permitted to produce prorated unit allowable from either or both wells. Atlantic Richfield Company, by R. E. Powers."

And the letter from the Pan American Petroleum Corporation, with reference to the abolishment of Wantz-Abo Pool and extension of vertical limits of vertical pool -- "We understand that under your

Nomenclature Hearing on May 14, 1969, you will consider the abolishment of the Wantz-Abo Pool, extension of vertical limits of the Drinkard Pool to include the Abo formation, redesignation of this combined pool as Drinkard Drinkard-Abo Pool, an extension of the horizontal limits of the Drinkard Drinkard-Abo Pool. Pan American Petroleum Corporation hereby indicate its support of this proposed pool combination." And that's signed by "D. L. Ray."

MR. PORTER: Thank you, Mr. Hatch. For those of you who are interested in this Case, Mr. Joe Ramey, our District Supervisor in Hobbs, will notify all the producers in these two pools that are involved, of any meeting to be held; the date is, as yet to be announced, in the Conference Room at the Hobbs office, to discuss this matter thoroughly. In the meantime, our District Geologists will make a further study, and may have some recommendations to make at the meeting -- I don't know about that. But in the meantime, the Commission will continue this paragraph with the Nomenclature Case to the Regular Hearing in July -- July the sixteenth, and take the balance of the case under advisement.

(Thereupon, Commission's Exhibit No. 1 was admitted in evidence.)

I N D E XWITNESSPAGE

DAN NUTTER

Direct Examination by Mr. Hatch

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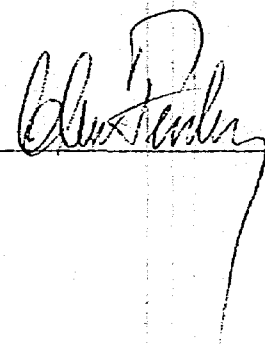
EXHIBITMARKEDADMITTED IN
EVIDENCECommission's Exhibit
No. 1

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STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

I, CA FENLEY, Court Reporter in and for
the County of Bernalillo, State of New Mexico, do
hereby certify that the foregoing and attached
Transcript of Hearing before the New Mexico Oil
Conservation Commission was reported by me, and
that the same is a true and correct record of the
said proceedings, to the best of my knowledge, skill
and ability.



NEW MEXICO OIL CONSERVATION COMMISSION

REGULAR HEARING

SANTA FE, NEW MEXICO

Hearing Date MAY 14, 1969TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
H. Elmer Schumacher	Shell Oil Co	Los Angeles
R. H. Murie	✓	✓
R. E. Johnson	Shell Oil Co	✓
Nina L. Dufarme	RW Bryan	Santa Fe
H. S. HARMON	PAN AM	DENVER
J. R. Ige	Shell	Houston
E. Brown	Summit	Midland
J. C. Hart	Shell	Midland
J. J. Savage	Texaco Inc.	Midland
L. R. Wall	Mobil Oil Corp	Dallas
W. B. Cuthrie	The Permian Corp.	Jarrington
Rich Booker	Cities Service Oil	Midland
Harold Miller	El Paso Natural Gas	El Paso
Ernest Hale	Mobil Oil Corp	Dallas
J. W. Blumenthal	✓	Midland
E. L. Currey	o c c	o f t e
Carl Kendrick	o c c	o f t e

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 4130
Order No. R-3758

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 14, 1969,
at Santa Fe, New Mexico, before the Oil Conservation Commission
of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 20th day of May, 1969, 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 gas pool
in Eddy County, New Mexico, for the production of gas from the
Morrow formation, said pool to bear the designation of Logan
Draw-Morrow Gas Pool. Said Logan Draw-Morrow Gas Pool was
discovered by the Pan American Petroleum Corporation Trigg
Federal Gas Com Well No. 1, located in Unit F of Section 34,
Township 17 South, Range 27 East, NMPM. It was completed in
the Morrow formation on January 21, 1969. The top of the per-
forations is at 9626 feet.

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CASE No. 4130

Order No. R-3758

(3) That there is need for the consolidation of the North Indian Hills-Morrow Gas Pool and the Indian Basin-Morrow Gas Pool inasmuch as both pools produce from the same common source of supply. Said consolidation to be accomplished by the abolishment of the North Indian Hills-Morrow Gas Pool and the extension of the Indian Basin-Morrow Gas Pool.

(4) That the proposed consolidation of the Wantz-Abo Pool and the Drinkard Pool, Lea County, New Mexico, should be continued to the July 16, 1969, hearing pending further study.

(5) That the proposed extension of the vertical limits of the Drinkard Pool, Lea County, New Mexico, to include the entire Abo formation and to redesignate said pool as the Drinkard Drinkard-Abo Pool should be continued to the July 16, 1969, hearing pending further study.

(6) That there is need for certain extensions to the Sieta-San Andres Pool in Chaves County, New Mexico, the Middle Allison-Pennsylvanian Pool, the North Bagley-Lower Pennsylvanian Pool, the North Bagley-Upper Pennsylvanian Pool, the Mid Bell Lake-Devonian Gas Pool, the Cerca-Upper Pennsylvanian Pool, the South Eunice Seven Rivers-Queen Pool, the Inbe Permo-Pennsylvanian Pool, the South McCormack-Silurian Pool, the Osudo-Atoka Gas Pool, and the West Sawyer-San Andres Pool, all in Lea County, New Mexico, the Middle Allison-Pennsylvanian Pool and the Todd-Lower San Andres Pool, both in Roosevelt County, New Mexico. Further, that the proposed extension to the Drinkard Drinkard-Abo Pool, Lea County, New Mexico, should be continued to the July 16, 1969, hearing pending further study.

IT IS THEREFORE ORDERED:

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

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM
Section 34: W/2

(b) That the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, consisting of the following-described area:

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Order No. R-3758

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Section 4: All
Section 5: All
Section 8: All
Section 9: All
Section 16: All
Section 17: All

is hereby abolished.

(c) That the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Section 4: All
Section 5: All
Section 8: All
Section 9: All
Section 16: All
Section 17: All
Section 20: All

(d) That the proposed abolishment of the Wantz-Abo Pool in Lea County, New Mexico, consisting of the following-described area:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

Section 2: Lots 11, 12, 13, 14 and S/2
Section 3: S/2
Section 4: Lots 15 and 16 and S/2
Sections 10 and 11: All
Section 12: W/2
Section 13: NE/4 and W/2
Sections 14 and 15: All
Section 16: SE/4
Section 21: NE/4 and S/2
Sections 22, 23, and 24: All
Section 25: NW/4
Sections 26, 27, and 28: All
Section 29: E/2 NE/4
Section 33: All
Section 35: W/2 and NE/4
Section 36: NW/4

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Order No. R-3758

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM
Section 19: N/2

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 2: All
Section 4: E/2 and NW/4

is hereby continued to July 16, 1969.

(e) That the proposed extension of the vertical limits and redesignation of the Drinkard Pool, Lea County, New Mexico, and the proposed extension of the horizontal limits of said pool to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 1: S/2
Section 4: Lots 13, 15, and 16
Section 12: SW/4
Section 24: E/2
Section 25: E/2

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM
Section 6: SW/4
Section 18: NW/4
Section 19: N/2

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM
Section 6: SE/4
Section 7: NE/4

is hereby continued to July 16, 1969.

(f) That the Middle Allison-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM
Section 30: SW/4

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM
Section 1: NW/4

TOWNSHIP 9 SOUTH, RANGE 36 EAST, NMPM
Section 8: E/2

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Order No. R-3758

(g) That the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM

Section 18: NW/4

Section 19: NE/4

Section 31: N/2

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

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM

Section 19: SE/4

Section 20: S/2

Section 21: S/2

Section 30: N/2

(i) That the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM

Section 19: SW/4

(j) That the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM

Section 5: SE/4

(k) That the South Eunice Seven Rivers-Queen Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM

Section 11: N/2

(l) That the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 11 SOUTH, RANGE 34 EAST, NMPM

Section 8: NE/4 and SW/4

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CASE No. 4130
Order No. R-3758

(m) That the South McCormack-Silurian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 16: SE/4

(n) That the Osudo-Atoka Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM
Section 25: NW/4

(o) That the West Sawyer-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM
Section 33: NW/4 and NW/4 SW/4

TOWNSHIP 10 SOUTH, RANGE 37 EAST, NMPM
Section 4: W/2 NW/4
Section 5: NE/4

(p) That the Siete-San Andres Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM
Section 16: NW/4
Section 20: SE/4
Section 29: NE/4

(q) That the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM
Section 32: NE/4

IT IS FURTHER ORDERED:

That the effective date of this order and all creations, abolishments, and extensions of vertical and horizontal limits included herein shall be June 1, 1969.

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CASE No. 4130


Order No. R-3758

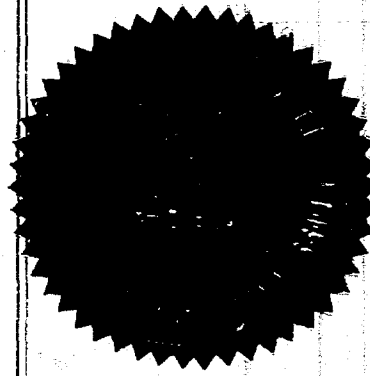
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALMY J. ARMITAGE, Member


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



ear/

DOCKET NO. 14-69

DOCKET: REGULAR HEARING - WEDNESDAY - MAY 14, 1969

OIL CONSERVATION COMMISSION - 9 A.M. - MORGAN HALL, STATE LAND OFFICE
BUILDING, SANTA FE, NEW MEXICO

- ALLOWABLE: (1) Consideration of the oil allowable for June, 1969;
- (2) Consideration of the allowable production of gas for June, 1969, from fourteen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico; also presentation of purchaser's nominations for said pools for the six-month period beginning July 1, 1969; consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for June, 1969.

CASE 4057: (De Novo)

Application of Charles B. Read for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Quail-Queen Pool, Lea County, New Mexico, including a provision for 80-acre spacing and proration units. Upon application of said Charles B. Read, this case will be heard De Novo under the provisions of Rule 1220.

CASE 4017: (De Novo)

Application of Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled in the SE $\frac{1}{4}$ of said Section 8. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well. Upon application of David Fasken, this case will be heard De Novo under the provisions of Rule 1220.

CASE 4043: (De Novo)

Application of David Fasken for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County,

(Case 4043 continued)

New Mexico. Said acreage to be dedicated to a well to be drilled 1980 feet from the North line and 2105 feet from the East line of said Section 8. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well. Upon application of David Fasken, this case will be heard De Novo under the provisions of Rule 1220.

CASE 4130:

Southeastern nomenclature case calling for an order for the creation, extension and abolishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Logan Draw-Morrow Gas Pool. The discovery well is Pan American Petroleum Corporation's Trigg Federal Gas Com No. 1 located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. Said pool described as:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM
SECTION 34: W/2

(b) Abolish the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM
SECTION 4: All
SECTION 5: All
SECTION 8: All
SECTION 9: All
SECTION 16: All
SECTION 17: All

(c) Extend the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM
SECTION 4: All
SECTION 5: All
SECTION 8: All
SECTION 9: All
SECTION 16: All
SECTION 17: All
SECTION 20: All

Regular Hearing - May 14, 1969

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Docket No. 14-69

(d) Abolish the Wantz-Abo Pool in Lea County, New Mexico, described as:

*Consent to
July 16
pending
further
study*

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 2: Lots 11, 12, 13, 14 and S/2
SECTION 3: S/2
SECTION 4: Lots 15 and 16 and S/2
SECTIONS 10 and 11: All
SECTION 12: W/2
SECTION 13: NE/4 and W/2
SECTIONS 14 and 15: All
SECTION 16: SE/4
SECTION 21: NE/4 and S/2
SECTIONS 22, 23, and 24: All
SECTION 25: NW/4
SECTIONS 26, 27 and 28: All
SECTION 29: E/2 NE/4
SECTION 33: All
SECTION 35: W/2 and NE/4
SECTION 36: NW/4

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM
SECTION 19: N/2

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 2: All
SECTION 4: E/2 and NW/4

(e) Extend the vertical limits of the Drinkard Pool in Lea County, New Mexico, to include the Abo formation and redesignate said pool as Drinkard Drinkard-Abo Pool. Also extend the horizontal limits of said Drinkard Drinkard-Abo Pool to include therein:

*Consent to
July 16*

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 1: S/2
SECTION 4: Lots 13, 15 and 16
SECTION 12: SW/4
SECTION 24: E/2
SECTION 25: E/2

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM
SECTION 6: SW/4
SECTION 18: NW/4
SECTION 19: N/2

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM
SECTION 6: SE/4

Regular Hearing - May 14, 1969

Docket No. 14-69

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(f) Extend the Middle Allison-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM

SECTION 1: NW/4

addition SW/4 30-8-36 E/28-7-36
(g) Extend the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM

SECTION 19: NE/4

SECTION 31: N/2

addition NW/4 18
(h) Extend the North Bagley-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM

SECTION 19: SE/4

SECTION 20: S/2

SECTION 21: S/2

Section 30: N/2
(i) Extend the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM

SECTION 19: SW/4

(j) Extend the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM

SECTION 5: SE/4

(k) Extend the South Eunice Seven Rivers-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM

SECTION 11: N/2

(l) Extend the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 34 EAST, NMPM

SECTION 8: NE/4

Section SW/4

Regular Hearing - May 14, 1969

-5-

Docket No. 14-69

(m) Extend the South McCormack-Silurian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 16: SE/4

(n) Extend the Osudo-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM
SECTION 25: NW/4

(o) Extend the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM
SECTION 33: NW/4 and NW/4 SW/4

T 10SR37E sec 4 W 1/2 NW/4 Sec 5 NE/4
(p) Extend the Siete-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM
SECTION 20: SE/4
SECTION 29: NE/4

Sec 16: NW/4
(q) Extend the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM
SECTION 32: NE/4

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

P. O. BOX 1410

FORT WORTH, TEXAS 76101

May 9, 1969

D. L. RAY
DIVISION ENGINEER

File: GHF-225-986.510.1

Subject: Abolishment of Wantz-Abo Pool and
Extension of Vertical Limits of
Drinkard Pool, Creation of
Drinkard Drinkard-Abo Pool
Lea County, New Mexico

SM
file case

4130

New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico 87501

Gentlemen:

We understand that under your Nomenclature Hearing on
May 14, 1969, you will consider abolishment of the Wantz-Abo Pool,
extension of vertical limits of the Drinkard Pool to include the
Abo formation, redesignation of this combined pool as Drinkard-
Drinkard-Abo Pool, and extension of the horizontal limits of the
Drinkard Drinkard-Abo Pool.

Pan American Petroleum Corporation hereby indicates
its support of this proposed pool combination.

Yours very truly,

D. L. Ray

WCW:jn



ATLANTIC RICHFIELD COMPANY
NORTH AMERICAN PRODUCING DIVISION
SINCLAIR OIL CORPORATION
P. O. Box 1470
MIDLAND, TEXAS 79701

MAIN OFFICE
MAY 12 1969

SOUTHERN REGION (WEST TEXAS)
DOMESTIC OIL & GAS DIVISION

May 9, 1969

Case 4180

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

*Nomenclature
Case*

Attention Mr. A. L. Porter, Jr.

Yms

REFERENCE: Docket 14-19, May, 1969
Case No. 4130 (d) & (e)

Gentlemen:

Reference subject case, please be advised that Atlantic Richfield Company concurs in the proposals to abolish the Wantz-Abo Pool, extend the vertical limits of the Drinkard Pool to include the Abo formation, and the redesignation of same as the Drinkard Drinkard-Abo Pool.

As you are aware, the proposed changes will result in a number of proration units having two wells completed in the new pool. To cover such cases, it is respectfully requested that the order establishing the new pool, provide that the operator be permitted to produce prorated unit allowable from either or both wells.

Yours very truly,

ATLANTIC RICHFIELD COMPANY

R. E. Powers
R. E. Powers
Region Engineer

REP/FMS/oc

cc: Mr. S. L. Smith
Atlantic Richfield Company

File

STATEMENT

*Recommendation
Case 4130*

Shell Oil Company wishes to make the following comments with reference to the proposed combination of the Drinkard and Wantz Abo formations into a single distinct pool:

While the combining of the Drinkard and Wantz Abo reservoirs has certain recognizable advantages, Shell's principal concern at this time involves the possible detrimental effect this plan may have on future unitization efforts in the Drinkard zone, which may result in a corresponding delay, or even loss, of secondary reserves. The prevention of waste of these secondary reserves could far outweigh any increased primary recovery which may result from the combination of the Drinkard and Wantz Abo reservoirs.

The Drinkard reservoir is currently an established candidate for secondary recovery. In fact, at the present time one portion of this reservoir is already unitized and in the pilot phase of a waterflood project. Also, preliminary data-gathering efforts are underway which may lead to the formation of an additional unit or units for supplemental recovery in this reservoir. To date, there has been no apparent effort directed toward establishment of any secondary recovery projects in the Wantz Abo reservoir. In fact, the rather sporadic development pattern of this horizon suggests a discontinuous distribution of reservoir pay within the recognized producing interval. On this basis alone, the Wantz Abo reservoir should be considered only as a minor secondary recovery candidate, if indeed a secondary candidate at all.

Therefore, the inclusion of the Wantz Abo with the Drinkard as a single reservoir will probably affect future Drinkard unitization by extending unitization negotiations and may lead to non-participation of some tracts causing "windows" in the units. A subsequent loss of flooding efficiency and reserves could result from this situation. Some of the more apparent reasons for the aforementioned statement are as follows:

- a. The establishment of acceptable unitization parameters from both zones,
- b. The possible rejection of certain intervals or areas from the units, which can delay unitization agreement,
- c. The "weighting" by former interval of both measured and interpretive data and a corresponding extended period of negotiation in an attempt to establish equities based on these data.

- d. The possible separate ownership of Drinkard and Wantz Abo rights under a common tract. (This situation is known to exist in at least one instance.)

Because of these, and other presently unforeseen reasons, Shell feels that the combination of the Drinkard and Wantz Abo reservoirs cannot possibly help and will probably hinder future unitization efforts and secondary recovery operations in the present Drinkard pool. In view of the aforementioned possible complications to unitization caused by the proposed combination plus the difference in potential floodability of the two zones, it appears likely that the Commission in the future will be faced with requests to again recognize the Drinkard and Wantz Abo as separate reservoirs in order to expedite unitization for secondary recovery purposes.

In summary, Shell agrees that the proposed plan will not adversely affect and, in fact, may increase the remaining recoverable primary reserves from both horizons, by permitting production into a common well bore. However, this could also be accomplished by requests on an individual well basis for commingling in the well bore whenever the desirability and necessity for such commingling can be demonstrated. Shell therefore suggests that the Commission consider the possible adverse effects that the combining of two reservoirs, which were previously recognized as separate, may have on future secondary recovery.

REJ:PFN

Made by Bob Johnson
Shell Co.

NOMENCLATURE ADVERTISEMENT FOR MAY, 1969

CASE 4130

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 in Eddy County, New Mexico, the abolishment of existing pools in Eddy and Lea Counties, New Mexico, the change in vertical limits of an existing pool in Lea County, New Mexico, and the extension of vertical and horizontal limits of certain existing pools in Chaves, Eddy, Lea, and Roosevelt 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, abolishments, and extensions of vertical and horizontal limits should not be made.

a) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the ~~Galco Morrow~~ ^{Logan Draw - Morrow} Gas Pool. The discovery well is Pan American Petroleum Corporation's Trigg Federal Gas Com No. 1 located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. Said pool described as:

✓ TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM
SECTION 34: W/2

b) ABOLISH the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, described as:

✓ TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM
SECTION 4: All
SECTION 5: All
SECTION 8: All
SECTION 9: All
SECTION 16: All
SECTION 17: All

c) EXTEND the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM
SECTION 4: All
SECTION 5: All
SECTION 8: All
SECTION 9: All
SECTION 16: All
SECTION 17: All
SECTION 20: All

d) ABOLISH the Wantz-Abo Pool in Lea County, New Mexico, described as:

✓ TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 2: Lots 11, 12, 13, 14 and S/2
SECTION 3: S/2
SECTION 4: Lots 15 and 16 and S/2
SECTIONS 10 AND 11: All
SECTION 12: W/2
SECTION 13: NE/4 and W/2
SECTIONS 14 AND 15: All
SECTION 16: SE/4
SECTION 21: NE/4 and S/2
SECTIONS 22, 23, AND 24: All
SECTION 25: NW/4
SECTIONS 26, 27, AND 28: All

May, 1969 Nomenclature

d) Abolishment of Wantz-Abo Pool Continued:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM (Continued)

- SECTION 29: E/2 NE/4
- SECTION 33: All
- SECTION 35: W/2 and NE/4
- SECTION 36: NW/4

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM

- SECTION 19: N/2

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM

- ✓ SECTION 2: All
- SECTION 4: E/2 and NW/4

e) EXTEND the vertical limits of the Drinkard Pool in Lea County, New Mexico, to include the Abo formation and redesignate said pool as Drinkard-Drinkard-Abo Pool. Also, extend said Drinkard-Drinkard-Abo Pool to include therein:

the horizontal limits of

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

- SECTION 1: S/2
- SECTION 4: Lots 13, 15, and 16
- SECTION 12: SW/4
- SECTION 24: E/2
- SECTION 25: ~~NW/4~~ and E/2

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM

- ✓ SECTION 6: SW/4
- SECTION 18: NW/4
- SECTION 19: N/2

✓ TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM

- SECTION 6: SE/4

*Lea Co
by DSN*

f) CHANGE the pool designation of the North Anderson Ranch-Wolfcamp Pool in Lea County, New Mexico, to the North Anderson Ranch-Pennsylvanian Pool.

(f) g) EXTEND the Middle Allison-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM

- SECTION 1: NW/4

(g) h) EXTEND the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM

- SECTION 19: NE/4
- SECTION 31: N/2

(h) i) EXTEND the North Bagley-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM

- SECTION 19: SE/4
- SECTION 20: S/2
- SECTION 21: S/2

May, 1969 Nomenclature

- i) j) EXTEND the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM
SECTION 19: SW/4

- j) k) EXTEND the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM
SECTION 5: SE/4

- k) l) EXTEND the South Eunice Seven Rivers-Queen Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM
SECTION 11: N/2

- l) m) EXTEND the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 11 SOUTH, RANGE 34 EAST, NMPM
SECTION 8: NE/4

- m) n) EXTEND the South McCormack-Silurian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 16: SE/4

- n) o) EXTEND the Osudo-Atoka Gas Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM
SECTION 25: NW/4

- o) p) EXTEND the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM
SECTION 33: NW/4 and NW/4 SW/4

- p) q) EXTEND the Siete-San Andres Pool in Chaves County, New Mexico, to include therein:

✓ TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM
SECTION 20: SE/4
SECTION 29: NE/4

- q) r) EXTEND the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, to include therein:

✓ TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM
SECTION 32: NE/4

CASE 4130:

Southeastern nomenclature case calling for an order for the creation, extension and abolishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Logan Draw-Morrow Gas Pool. The discovery well is Pan American Petroleum Corporation's Trigg Federal Gas Com No. 1 located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. Said pool described as:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM

SECTION 34: W/2

(b) Abolish the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

SECTION 4: All

SECTION 5: All

SECTION 8: All

SECTION 9: All

SECTION 16: All

SECTION 17: All

(c) Extend the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

SECTION 4: All

SECTION 5: All

SECTION 8: All

SECTION 9: All

SECTION 16: All

SECTION 17: All

SECTION 20: All

nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for June, 1969.

CASE 4057: (De Novo)

Application of Charles B. Read for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Quail-Queen Pool, Lea County, New Mexico, including a provision for 80-acre spacing and proration units. Upon application of said Charles B. Read, this case will be heard De Novo under the provisions of Rule 1220.

CASE 4017: (De Novo)

Application of Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled in the SE/4 of said Section 8. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well. Upon application of David Fasken, this case will be heard De Novo under the provisions of Rule 1220.

CASE 4043: (De Novo)

Application of David Fasken for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County,

NEW POOLS

a)) It is recommended that a new gas pool be created and designated as the LOGAN DRAW-MORROW GAS Pool.

Vertical limits to be the Morrow formation and the horizontal limits should be as follows: As shown in Paragraph (a), Exhibit I

Discovery well was Pan American Petroleum Corporation - Trigg Federal Gas Com #1 located in Unit F Section 34 Township 17 Range 27 and was completed on January 21, 1969 ~~with an initial potential of~~ Top of perforations is at 9626 feet.

It is recommended that a new _____ pool be created and designated as the _____ Pool.

Vertical limits to be the _____ formation and the horizontal limits should be as follows: _____

Discovery well was _____ located in Unit _____ Section _____ Township _____ Range _____ and was completed on _____ with an initial potential of _____ BOPD/MCFGPD. Top of perforations is at _____ feet.

It is recommended that a new _____ pool be created and designated as the _____ Pool.

Vertical limits to be the _____ formation and the horizontal limits should be as follows: _____

Discovery well was _____ located in Unit _____ Section _____ Township _____ Range _____ and was completed on _____ with an initial potential of _____ BOPD/MCFGPD. Top of perforations is at _____ feet.

CASE 4130: (a) CREATION OF A NEW GAS POOL

COUNTY	Eddy	POOL	Logan Draw-Morrow Gas		
TOWNSHIP	17S	RANGE	27E	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Purpose: One completed gas well capable of producing.

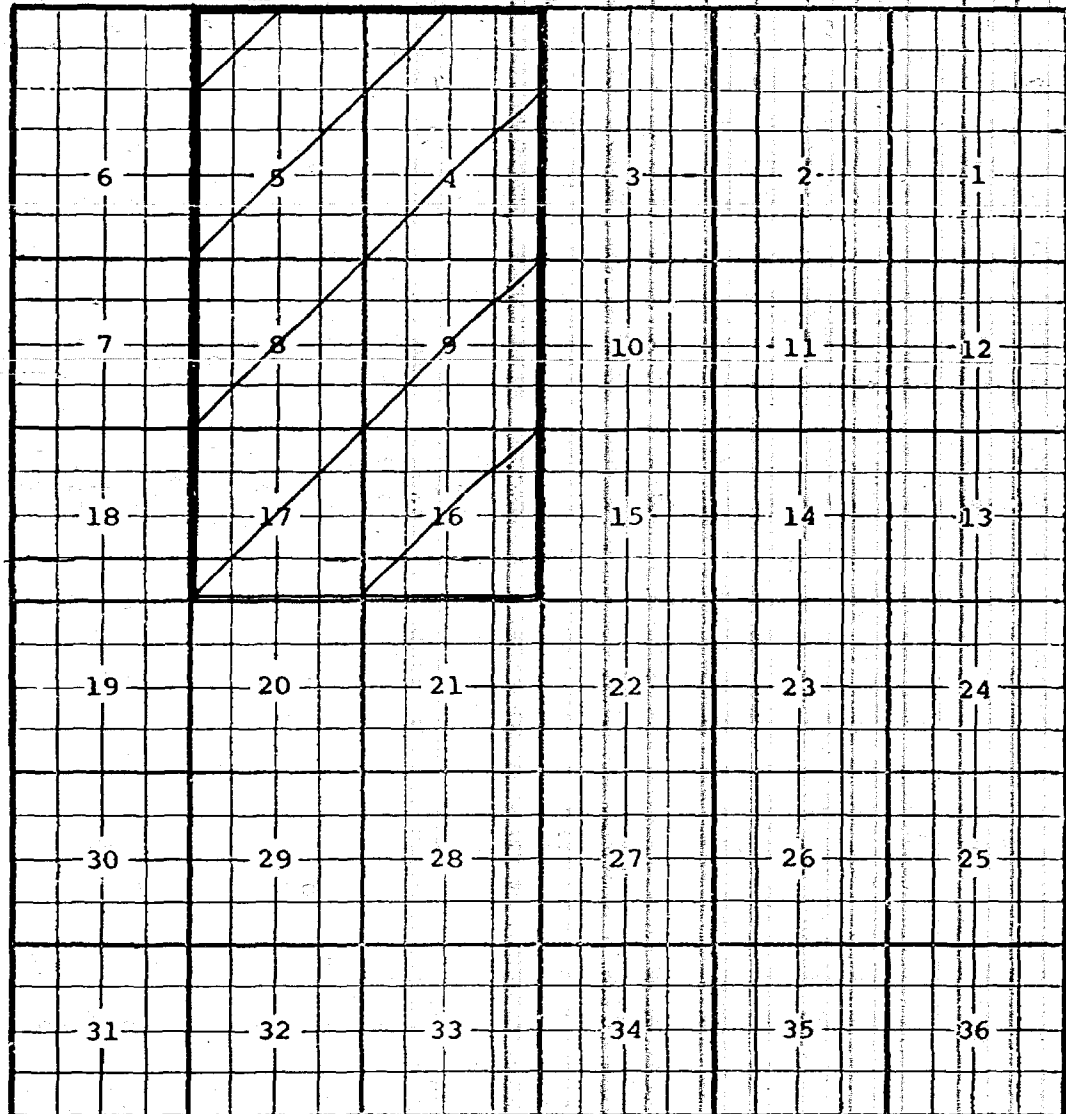
Discovery Well: Pan American Petroleum Corp. Trigg Federal Gas
Com well No. 1 in unit F of section 34-17-27. Completed in Morrow
January 21, 1969, through perforations 9626' to 9748'.

Proposed pool boundary colored in green.

Section 34: W/2

CASE 4130: (b) ABOLISHMENT OF AN EXISTING GAS POOL

COUNTY Eddy POOL North Indian Hills-Morrow Gas
TOWNSHIP 21S RANGE 24E NMPM



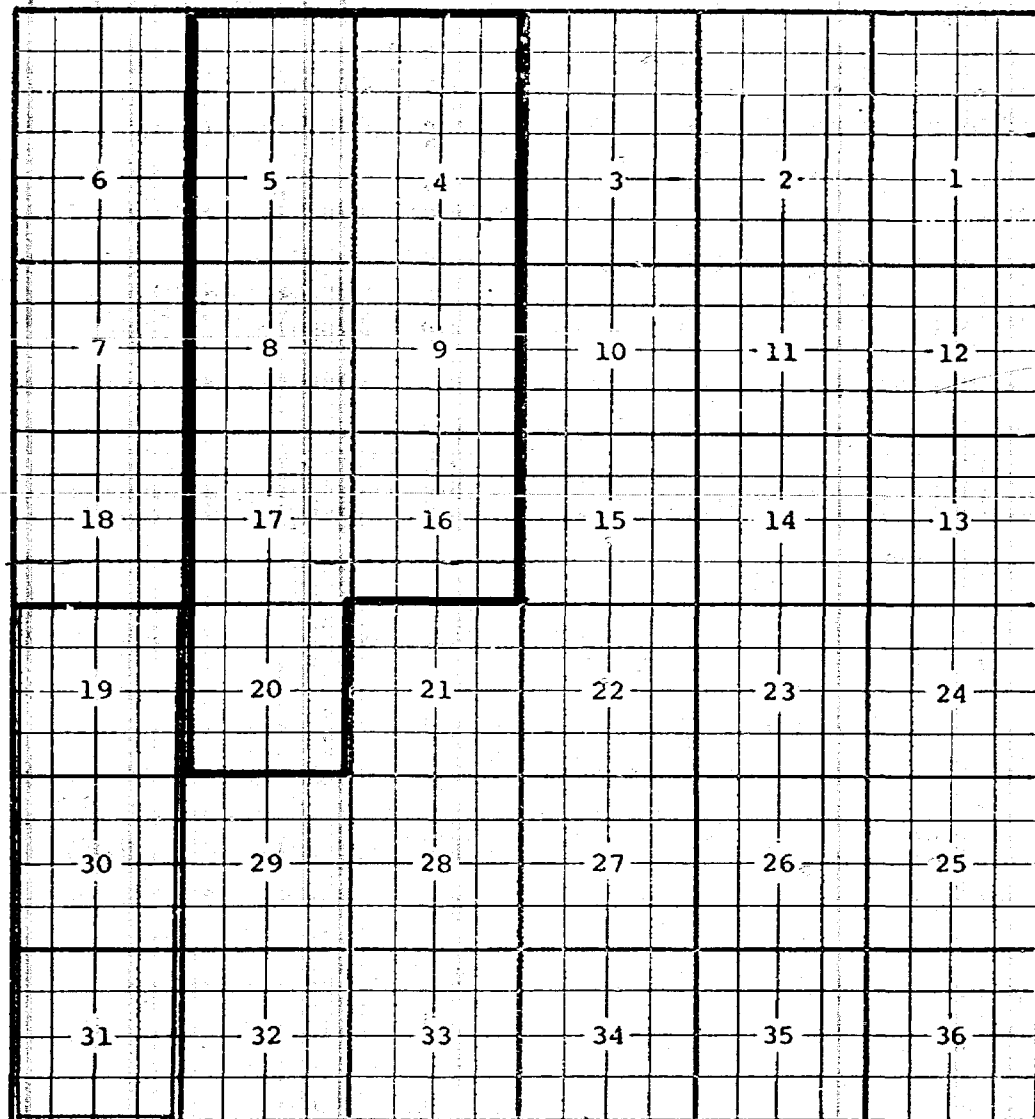
Purpose: Abolish the North Indian Hills Morrow Gas Pool, at the request of the operator, and place all acreage formerly therein in the Indian Basin Morrow Gas Pool.

Pool to be abolished colored in blue.

Section 4, 5, 8, 9, 16 & 17 All

CASE 4130: (c) EXTENSION OF AN EXISTING GAS POOL

COUNTY Eddy POOL Indian Basin-Morrow Gas
TOWNSHIP 21S RANGE 24E NMPM



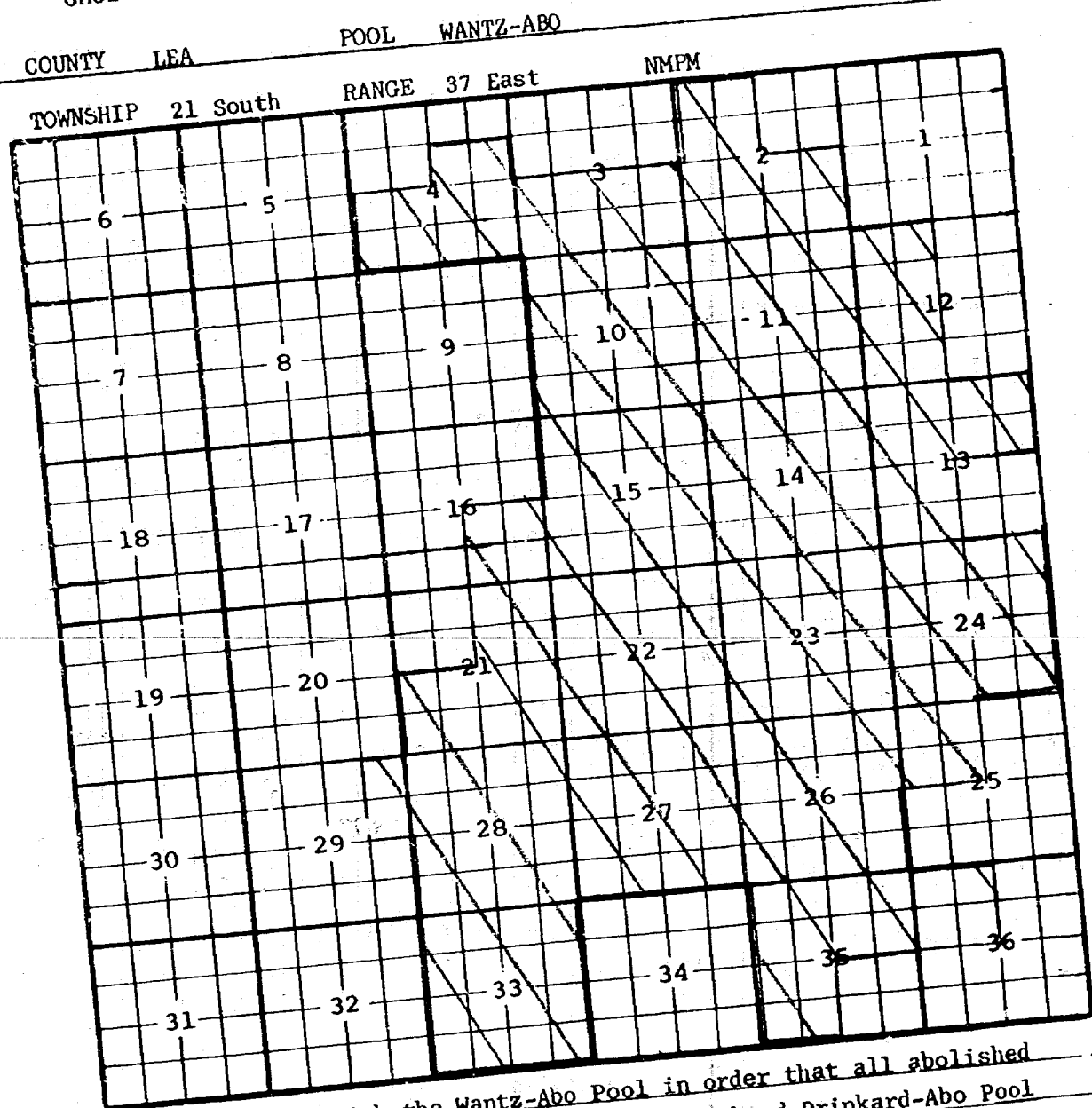
Purpose: To take in acreage formerly in the North Indian Hills Morrow Gas Pool plus one intervening section.

Pool boundaries colored in red.

Proposed extension colored in green.

Section 4, 5, 8, 9, 16, 17 and 20 All.

CASE 4130: (d) ABOLISHMENT OF AN EXISTING OIL POOL (Continued on next page)



PURPOSE: To abolish the Wantz-Abo Pool in order that all abolished acreage may be extended to the Drinkard Drinkard-Abo Pool which is already producing from the upper Abo formation.

Proposed pool abolishment colored in blue.

- | | |
|--|-----------------------------|
| SECTION 2: Lots 11, 12, 13, 14 and S/2 | SECTION 25: NW/4 |
| SECTION 3: S/2 | SECTIONS 26, 27 AND 28: All |
| SECTION 4: Lots 15 and 16 and S/2 | SECTION 29: E/2 NE/4 |
| SECTIONS 10 AND 11: All | SECTION 33: All |
| SECTION 12: W/2 | SECTION 35: W/2 and NE/4 |
| SECTION 13: NE/4 and W/2 | SECTION 36: NW/4 |
| SECTIONS 14 AND 15: All | |
| SECTION 16: SE/4 | |
| SECTION 21: NE/4 and S/2 | |
| SECTIONS 22, 23, and 24: All | |

CASE 4130: (d) ABOLISHMENT OF AN EXISTING OIL POOL (Continued on next page)

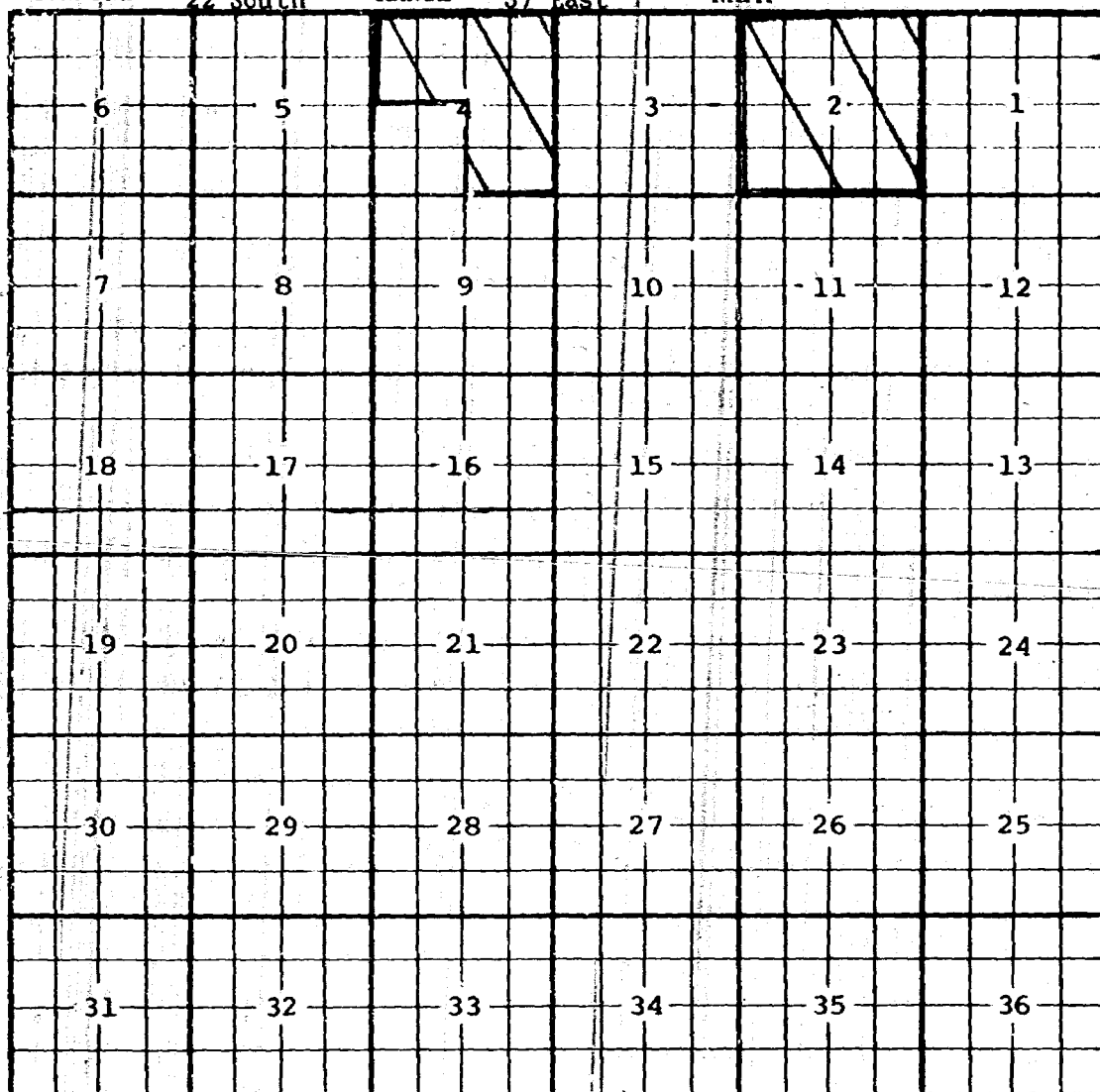
COUNTY	LEA	P.O.	WANTZ-ABO		
TOWNSHIP	21 South	RANGE	38 East	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: As stated on preceding page, paragraph (d), Exhibit I.
Proposed pool abolishment colored in blue. SECTION 19: N/2

CASE 4130: (d) ABOLISHMENT OF AN EXISTING OIL POOL

COUNTY LEA POOL WANTZ-ABO

TOWNSHIP 22 South RANGE 37 East NMPM



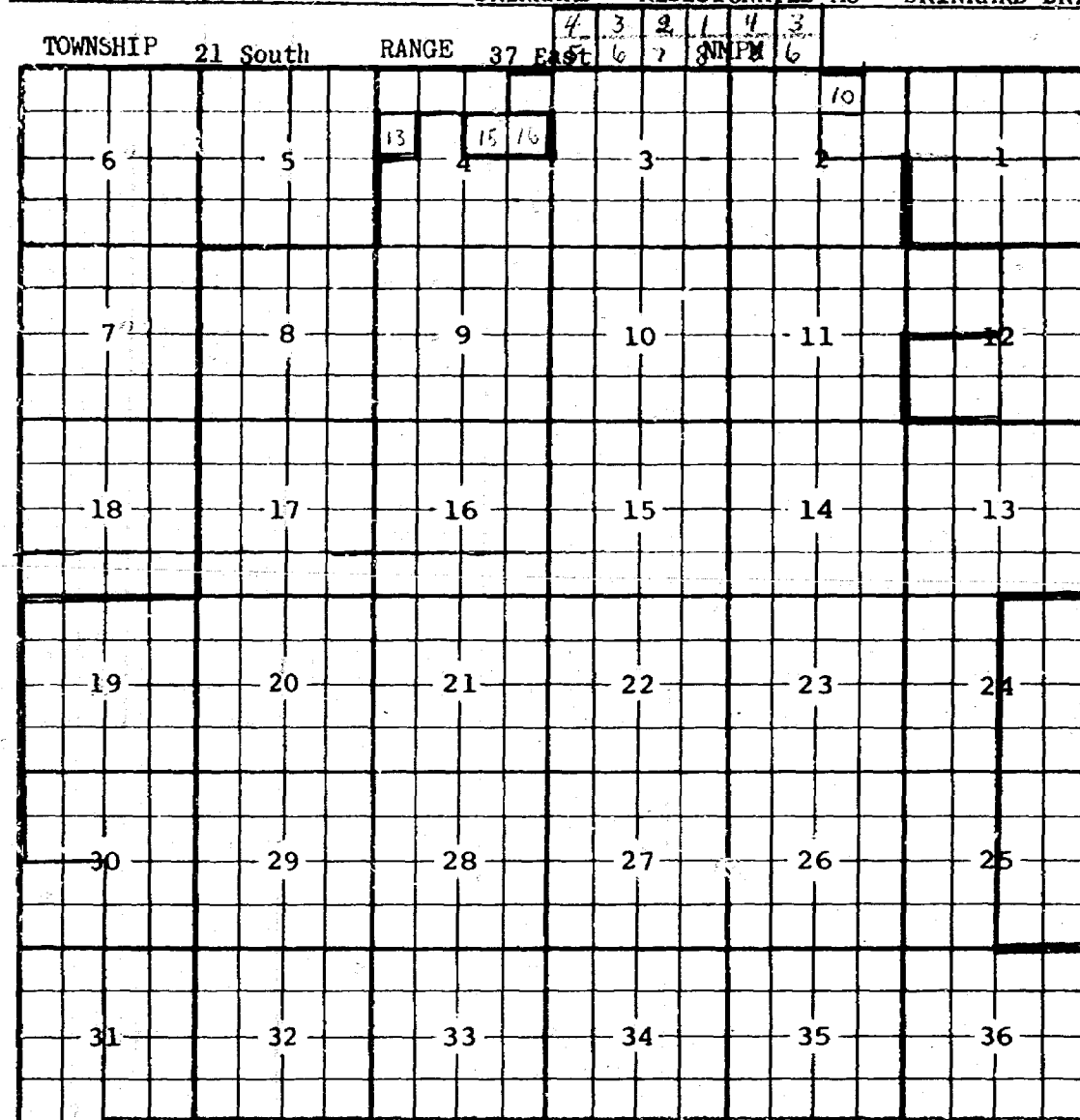
PURPOSE: As stated on preceding page, paragraph (d), Exhibit I.

Proposed pool abolishment colored in blue. SECTION 2: All

SECTION 4: E/2 and NW/4

CASE 4130: (e) EXTENSION OF VERTICAL AND HORIZONTAL LIMITS OF AN EXISTING OIL POOL (Continued on next page)

COUNTY LEA POOL DRINKARD - REDESIGNATED AS - DRINKARD DRINKARD-ABO



PURPOSE: To extend the vertical limits of the Drinkard Pool to include the entire Abo formation, to take in abolished acreage from the Wantz-Abo Pool, and five completed oil wells capable of producing.

SOLAR OIL COMPANY - Royalty Holding #1 in Unit B of Section 25-21-37. Completed in Abo on January 21, 1969. Top of Perforations 7046'.

SOLAR OIL COMPANY - Art Yeager #1 in Unit J of Section 25-21-37. Completed in Abo on March 4, 1969. Top of Perforations 7439'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 1: S/2

SECTION 4: Lots 13, 15 and 16

SECTION 12: SW/4

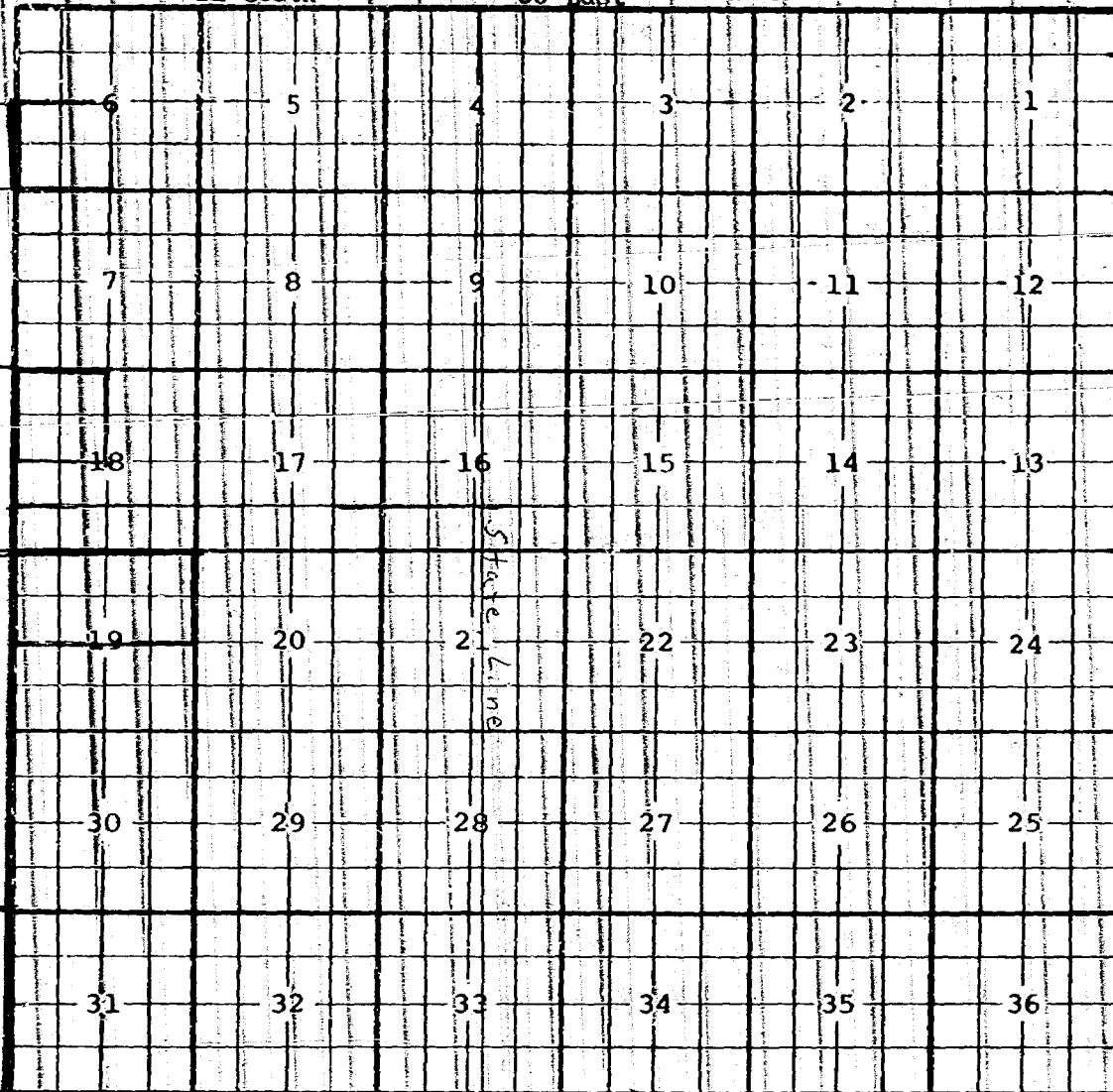
SECTION 24: E/2

SECTION 25: E/2

CASE 4130: (e) EXTENSION OF VERTICAL AND HORIZONTAL LIMITS OF AN EXISTING OIL POOL (Continued on next page)

COUNTY LEA POOL DRINKARD - REDESIGNATED AS - DRINKARD DRINKARD-ABO

TOWNSHIP 21 South RANGE 38 East NMPM



PURPOSE: As stated on preceding page, paragraph (e), Exhibit I.

SOLAR OIL COMPANY - Elliott Fields #1 in Unit U of Section 6-21-38. Completed in Abo on December 21, 1968. Top of Perforations 7225'.

SOLAR OIL COMPANY - Bunin #2 in Unit E of Section 18-21-38. Completed in Abo on November 25, 1968. Top of Perforations 7409'.

Pool boundary colored in red.

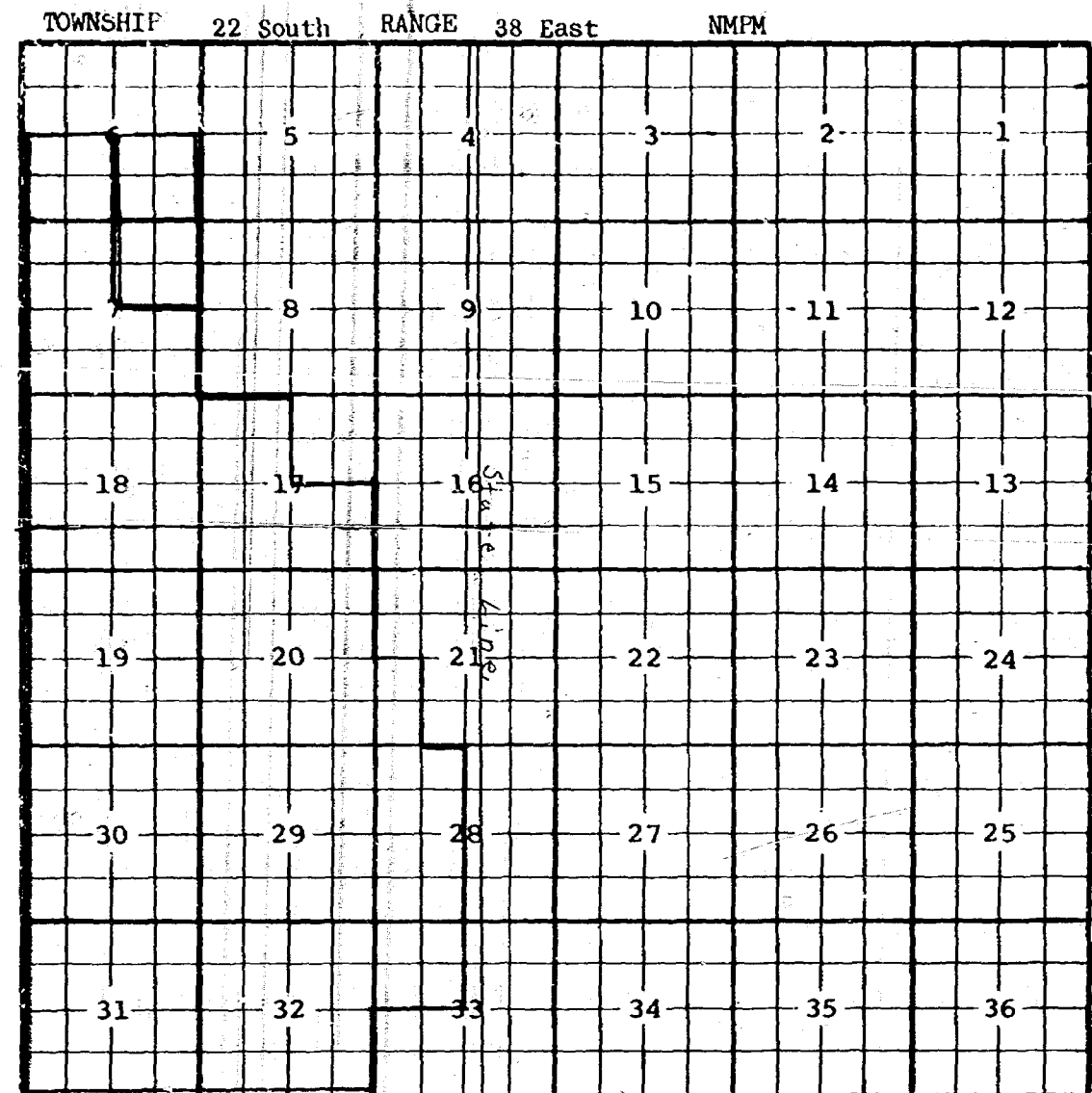
Proposed pool extensions colored in green. SECTION 6: SW/4

SECTION 18: NW/4

SECTION 19: N/2

CASE 4130: (e) EXTENSION OF VERTICAL AND HORIZONTAL LIMITS OF AN EXISTING OIL POOL (Continued)

COUNTY LEA POOL DRINKARD - REDESIGNATED AS - DRINKARD DRINKARD-ABO



PURPOSE: As stated on preceding page, paragraph (e), Exhibit I.

SOLAR OIL COMPANY - Federal GPS #1 in Unit O of Section 6-22-38. Completed in Abo on November 2, 1968. Top of Perforations 7297'.

ADDITION--SOLAR OIL COMPANY - Sims Federal #1 in Unit B of Section 7-22-38. Completed in Drinkard on January 9, 1969. Top of Perforations 6599'.

ADDITION--SOLAR OIL COMPANY - Sims Federal #2 in Unit G of Section 7-22-38. Completed in Abo on February 4, 1969. Top of Perforations 7080'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 6: SE/4

ADDITION-----SECTION 7: NE/4

CASE 4130: (f) EXTENSION OF AN EXISTING OIL POOL (Continued on next page)

COUNTY	LEA	POOL	MIDDLE ALLISON-PENNSYLVANIAN		
TOWNSHIP	9 South	RANGE	35 East	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

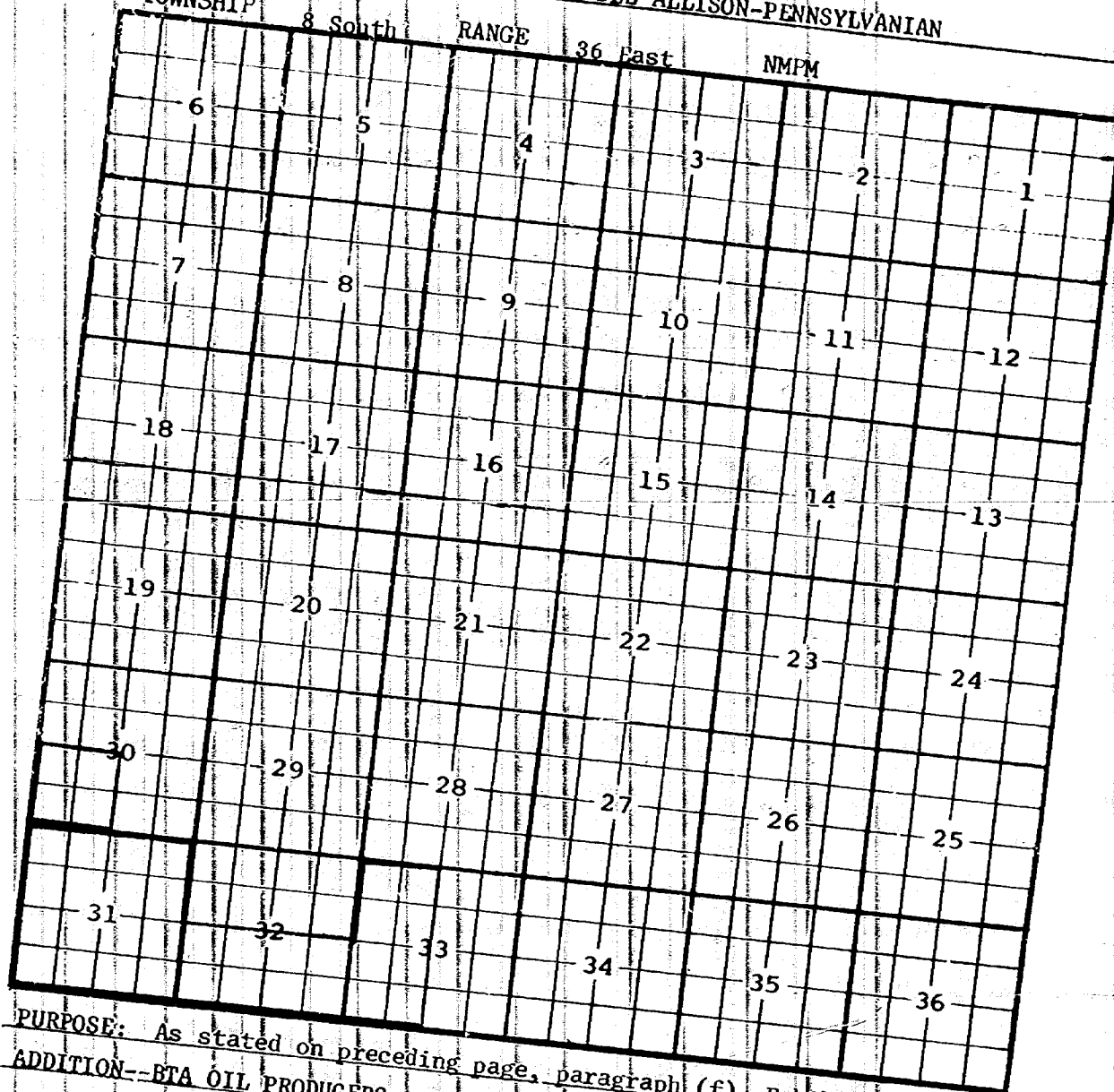
PURPOSE: One completed oil well capable of producing.

DELAWARE-APACHE CORPORATION - U. S. Schram #1 in Unit F of Section 1-9-35. Completed in Bough C on March 12, 1969. Top of Perforations 9835'. Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 1: NW/4

CASE 4130: (f) EXTENSION OF AN EXISTING OIL POOL (Continued on next page)

COUNTY ROOSEVELT POOL MIDDLE ALLISON-PENNSYLVANIAN
TOWNSHIP 8 South RANGE 36 East NMPM



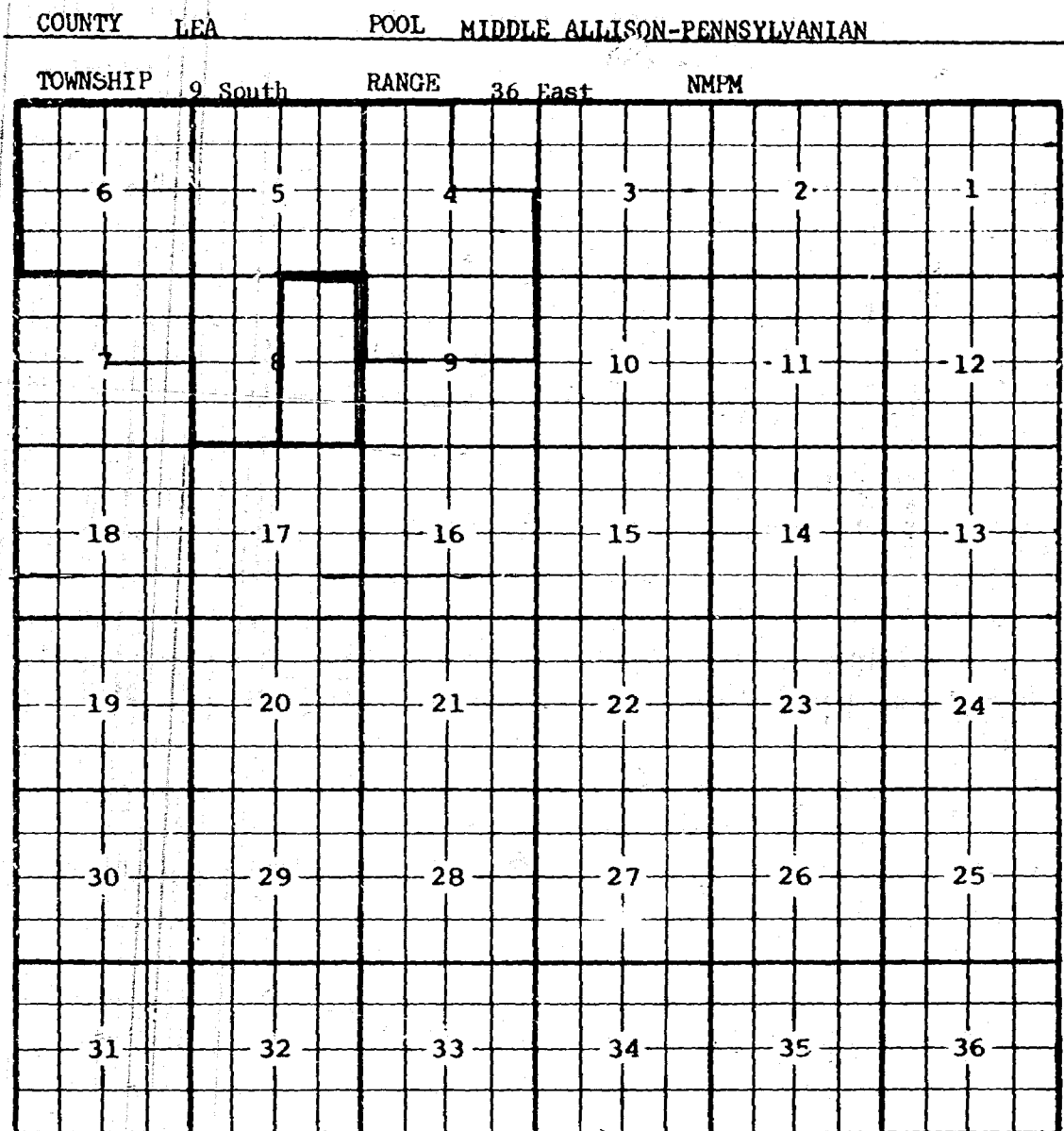
PURPOSE: As stated on preceding page, paragraph (f), Exhibit I.

ADDITION--ETA OIL PRODUCERS - Farms 691 Ltd. #1 in Unit N of Section 30-
8-36. Completed in Bough C on April 5, 1969. Top of Perfora-
tions 9778'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 30: SW/4

CASE 4130: (f) EXTENSION OF AN EXISTING OIL POOL (Continued)



PURPOSE: As stated on preceding page, paragraph (f), Exhibit I.

ADDITION--BTA OIL PRODUCERS - Oliver 686 Ltd. #1 in Unit I of Section 8-9-36. Completed in Pennsylvanian on January 27, 1969. Top of Perforations 9844'.

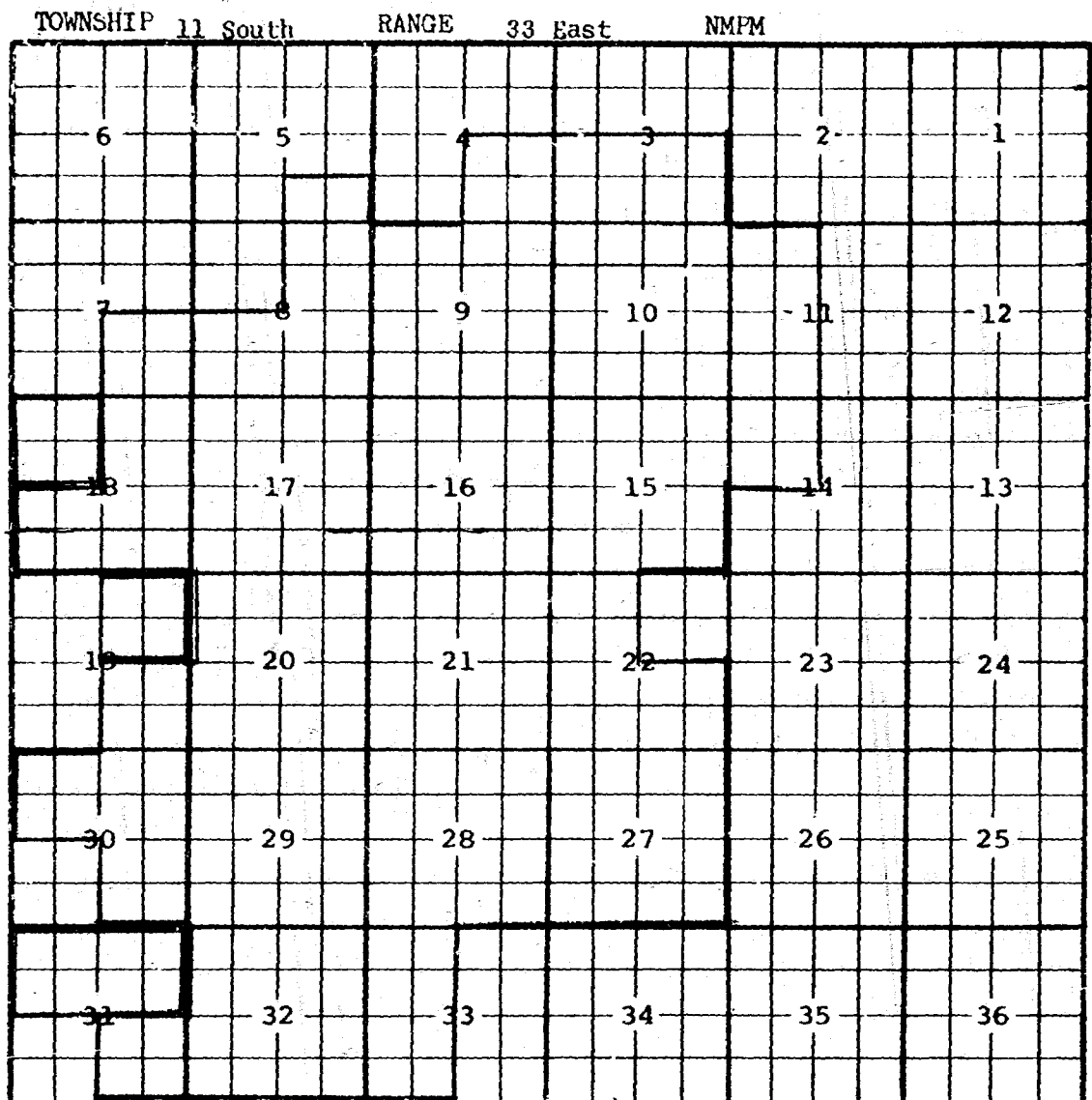
Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 8: E/2

CASE 4130: (g) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA

POOL NORTH BAGLEY-LOWER PENNSYLVANIAN



PURPOSE: Three completed oil wells capable of producing.

STOLTZ & COMPANY - Ann #1 in Unit H of Section 19-11-33. Completed in Lower Pennsylvanian on March 1, 1969. Top of Perforations 10,124'.

STOLTZ & COMPANY - Christie #1 in Unit A of Section 19-11-33. Completed in Lower Pennsylvanian on March 26, 1969. Top of Perforations 10,282'.

BTA OIL PRODUCERS - L.C.H. 689 Ltd. #1 in Unit F of Section 31-11-33. Completed in Strawn on March 26, 1969. Top of Perforations 10,256'.

ADDITION--CHARLES B. READ - Shell State #3 in Unit C of Section 18-11-33. Completed in Strawn on April 23, 1969. Top of Perforations 10,137'.

Pool boundary colored in red.

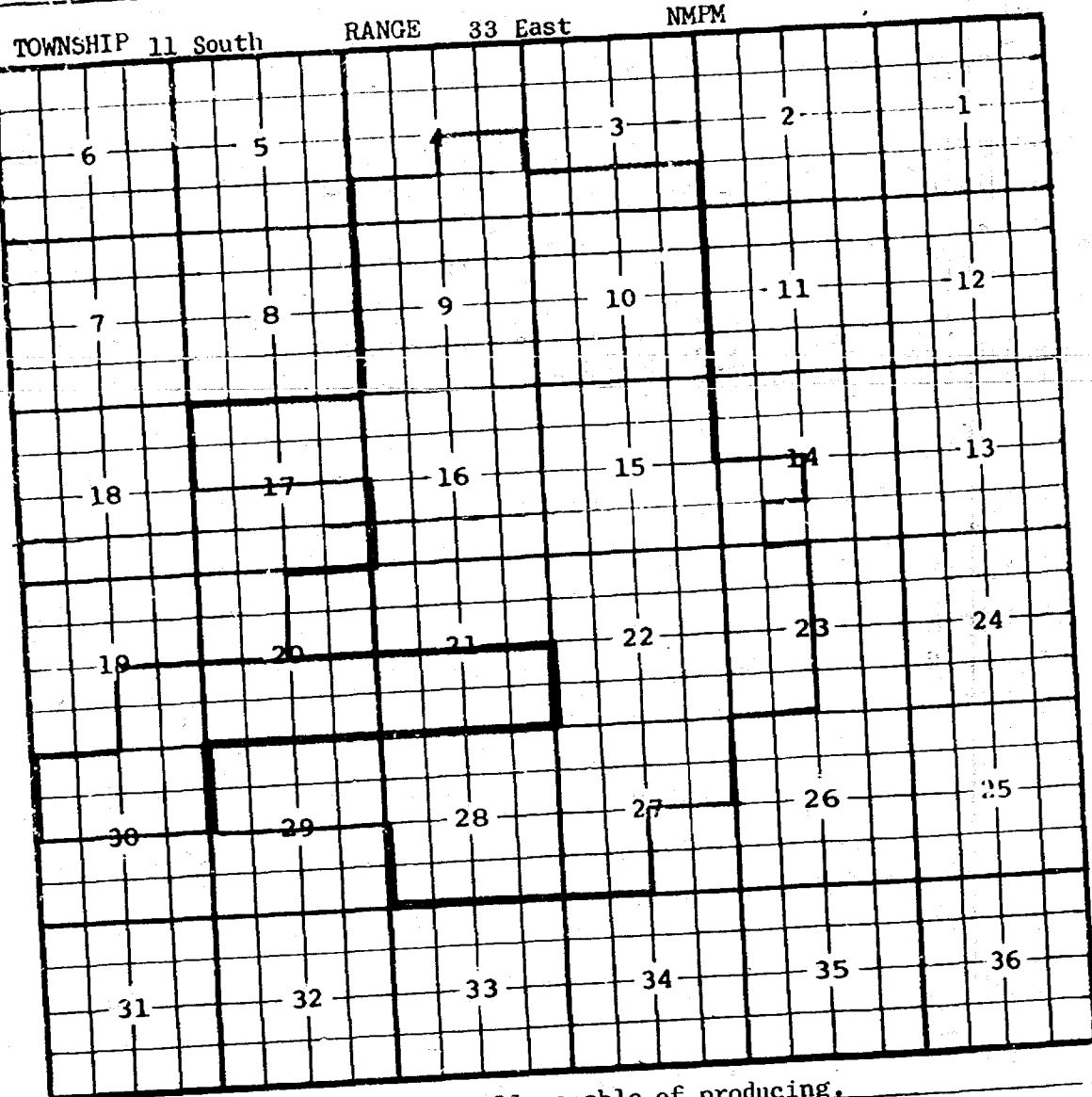
Proposed pool extensions colored in green. SECTION 19: NE/4

SECTION 31: N/2

ADDITION-----SECTION 18: NW/4

CASE 4130: (h) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL NORTH BAGLEY-UPPER PENNSYLVANIAN



PURPOSE: One completed oil well capable of producing.
 STOLTZ & COMPANY - Brenda #1 in Unit I of Section 19-11-33. Completed
 in Upper Pennsylvanian on March 7, 1969. Top of Perforations 9392'.
 ADDITION--SAM BOREN - Mathers B #1 in Unit F of Section 30-11-33. Com-
 pleted in Pennsylvanian on March 11, 1969. Top of Perforations
 9405'.

Pool boundary colored in red.
 Proposed pool extensions colored in green. SECTION 19: SE/4

SECTION 20: S/2

SECTION 21: S/2

ADDITION----SECTION 30: N/2

CASE 4130: (i) EXTENSION OF AN EXISTING GAS POOL

COUNTY LEA POOL MID BELL LAKE-DEVONIAN GAS POOL

TOWNSHIP 23 South RANGE 34 East NMPM

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

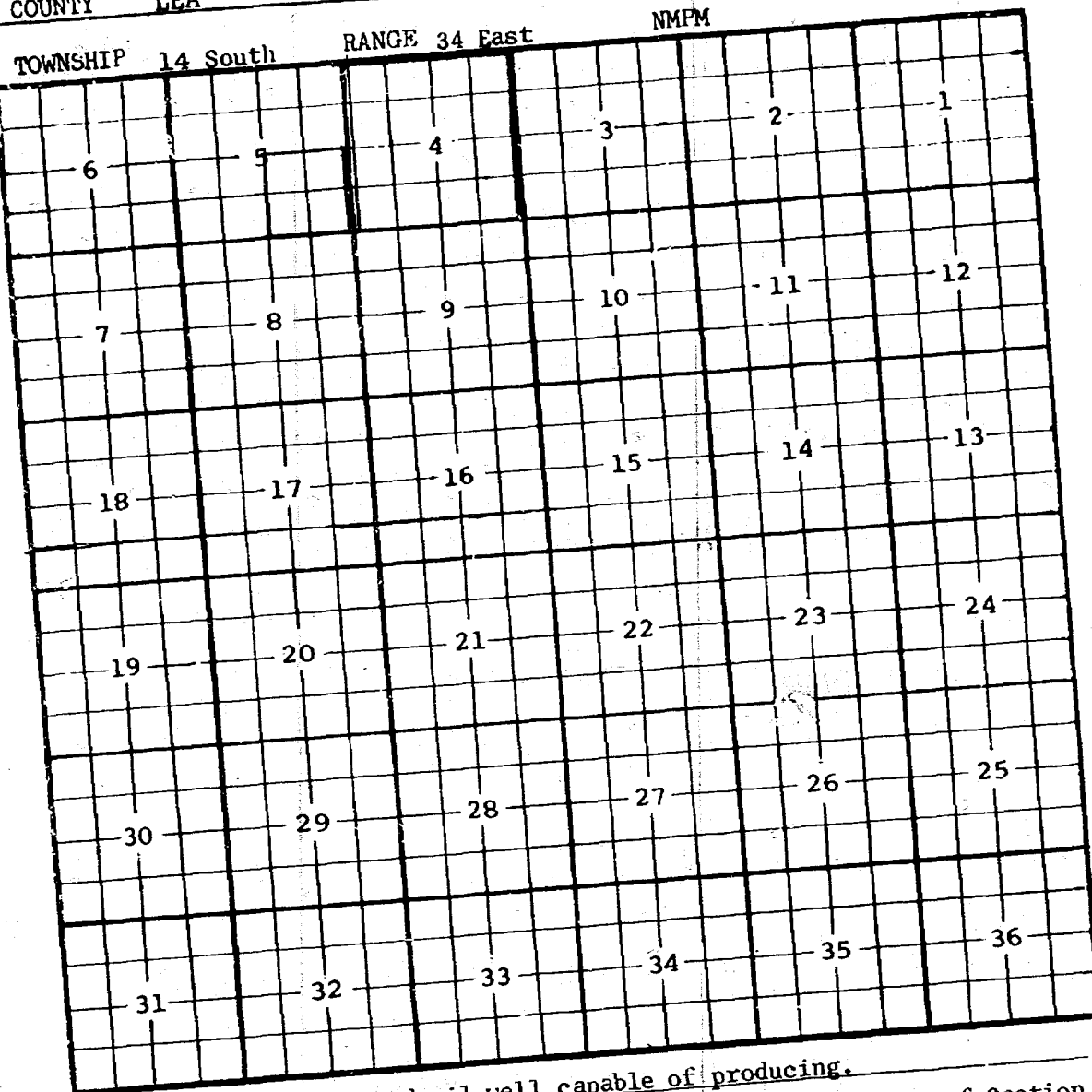
PURPOSE: To include all dedicated acreage in the pool.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 19: SW/4

CASE 4130: (j) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL CERCA-UPPER PENNSYLVANIAN



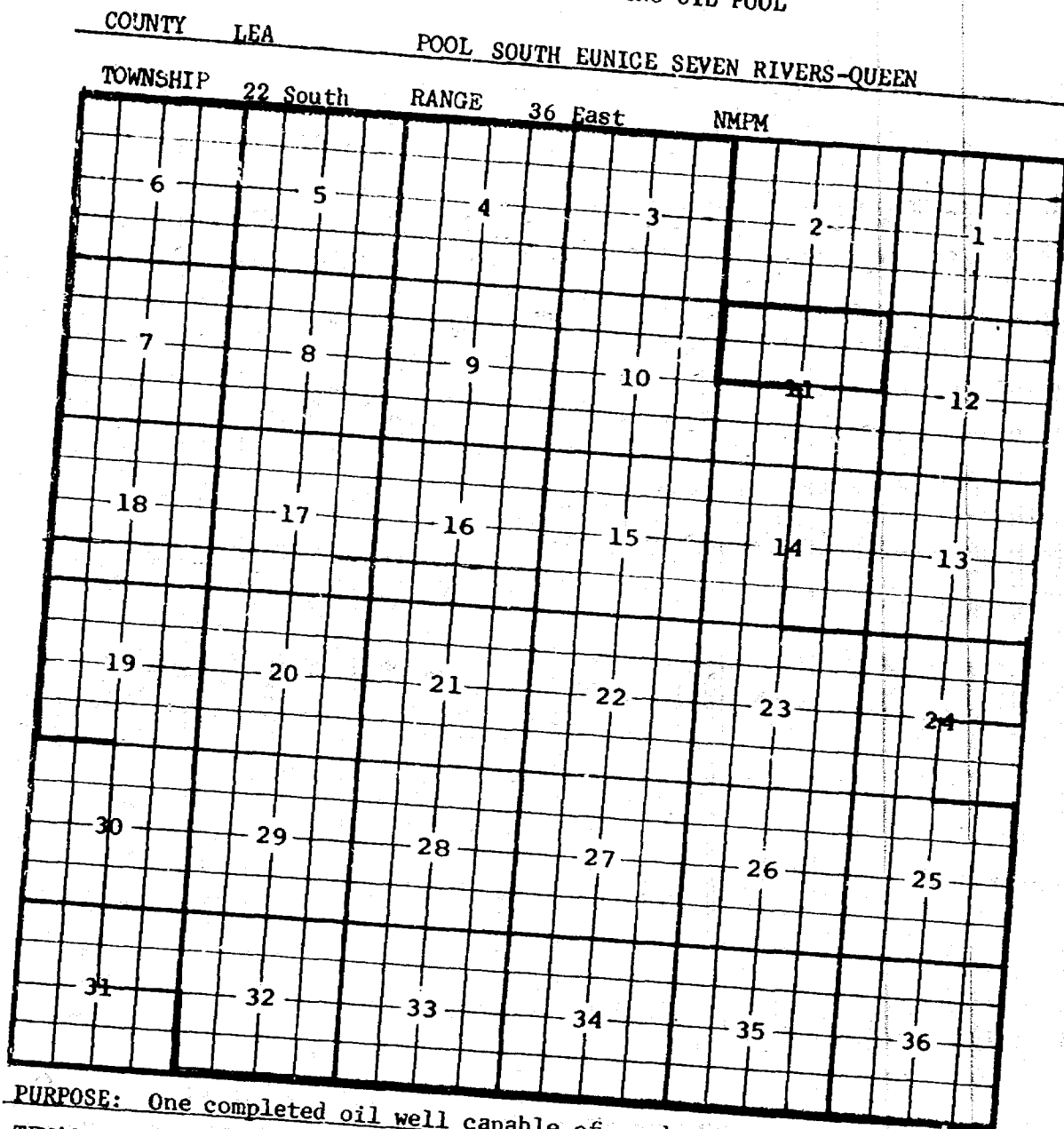
PURPOSE: One completed oil well capable of producing.

MIDWEST OIL CORPORATION - New Mexico "S" State #1 in Unit P of Section 5-14-34. Completed in Pennsylvanian on April 6, 1969. Top of Perforations 10,389'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 5: SE/4

CASE 4130: (k) EXTENSION OF AN EXISTING OIL POOL



PURPOSE: One completed oil well capable of producing.

TEXAS PACIFIC OIL COMPANY - State "A" A/c 2 #14 in Unit B of Section 11-22-36. Completed in Seven Rivers-Queen on January 28, 1969. Top of Perforations 3420'.

Pool boundary colored in red.

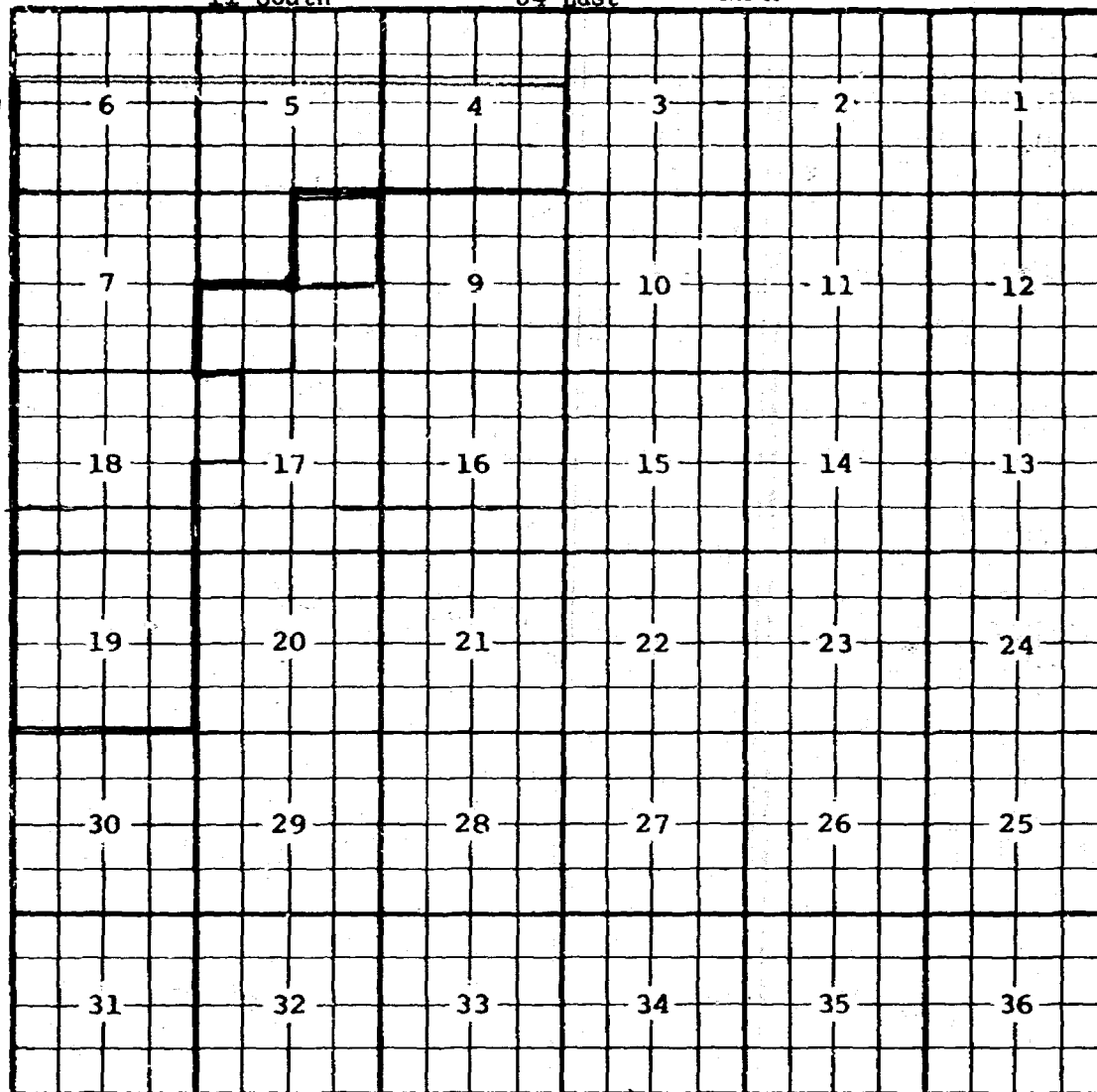
Proposed pool extension colored in green. SECTION 11: N/2

CASE 4130: (1) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL INBE PERMO-PENNSYLVANIAN

TOWNSHIP 11 South RANGE 34 East NMPM

Short
section



PURPOSE: Two completed oil wells capable of producing.

SOUTHERN MINERALS CORPORATION - State "D" #3 in Unit B of Section 8-11-34. Completed in Bough C on February 12, 1969. Top of Perforations 9926'.

SOUTHERN MINERALS CORPORATION - State "D" #4 in Unit G of Section 8-11-34. Completed in Bough "C" on March 31, 1969. Top of Perforations 9913'.

ADDITION--SOUTHERN MINERALS CORPORATION - State "D" #5 in Unit L of Section 8-11-34. Completed in Bough "C" on April 22, 1969. Top of Perforations 9863'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 8: NE/4

ADDITION----SECTION 8: SW/4

CASE 4130: (m) EXTENSION OF AN EXISTING OIL POOL

COUNTY	LEA	POOL SOUTH McCORMACK-SILURIAN			
TOWNSHIP	22 South	RANGE	37 East	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: One completed oil well capable of producing.

GULF OIL CORPORATION - R. E. Cole NCT-A #13 in Unit 0 of Section 16-22-37. Completed in Silurian on March 30, 1969. Top of Perforations 7170'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 16: SE/4

CASE 4130: (n) EXTENSION OF AN EXISTING GAS POOL

COUNTY LEA

POOL OSUDO-ATOKA GAS

TOWNSHIP 20 South

RANGE 35 East

NMPM

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

PURPOSE: To include all dedicated acreage in the pool.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 25: NW/4

CASE 4130: (o) EXTENSION OF AN EXISTING OIL POOL (Continued on next page)

COUNTY	LEA	POOL	WEST SAWYER-SAN ANDRES		
TOWNSHIP	9 South	RANGE	37 East	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: One completed oil well capable of producing.

COASTAL STATES GAS PRODUCING COMPANY - Santa Fe #2 in Unit F of Section 33-9-37. Completed in San Andres on March 10, 1969. Top of Perforations 4904'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 33: NW/4 and NW/4 SW/4

CASE 4130: (o) EXTENSION OF AN EXISTING CIL POOL (Continued)

COUNTY	LEA	POOL	WEST SAWYER-SAN ANDRES		
TOWNSHIP	10 South	RANGE	37 East	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: As stated on preceding page, paragraph (o), Exhibit I.

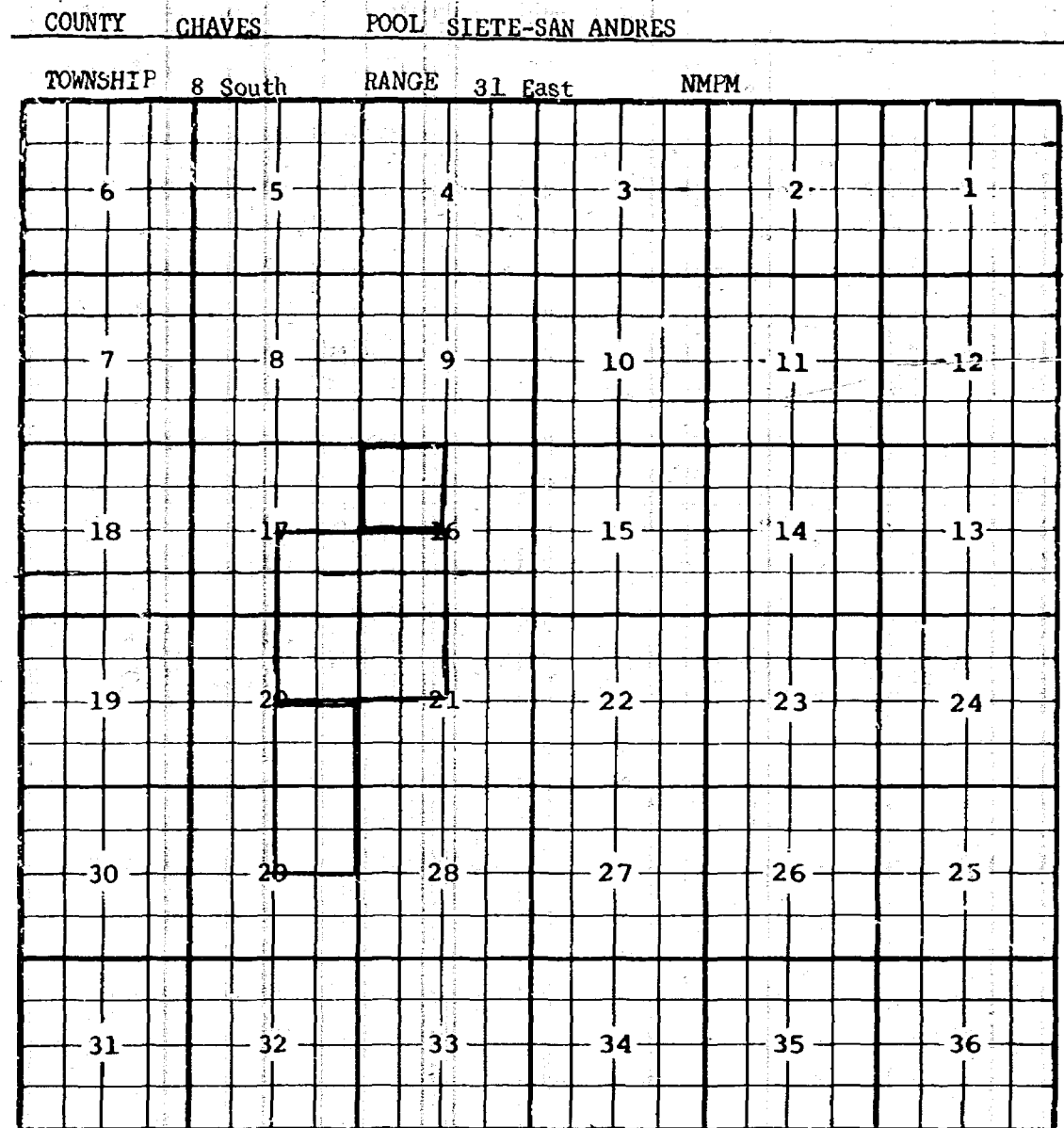
ADDITION--COASTAL STATES GAS PRODUCING COMPANY - Adlong "5" #1 in Unit B
of Section 5-10-37. Completed in San Andres on April 5, 1969.
Top of Perforations 4920'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 4: W/2 NW/4

SECTION 5: NE/4

CASE 4130: (p) EXTENSION OF AN EXISTING OIL POOL



PURPOSE: One completed oil well capable of producing.

H. L. BROWN, JR. - Continental Federal #1 in Unit A of Section 29-8-31.

Completed in San Andres on March 2, 1969. Top of Perforations 3734'.

ADDITION--H. L. BROWN, JR. - Sunray State #1 in Unit E of Section 16-8-

31. Completed in San Andres on April 14, 1969. Top of Perforations 3738'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 20: SE/4

SECTION 29: NE/4

ADDITION---SECTION 16: NW/4

CASE 4130: (q) EXTENSION OF AN EXISTING OIL POOL

COUNTY	ROOSEVELT	POOL	TODD-LOWER SAN ANDRES		
TOWNSHIP	7 South	RANGE	36 East	NMPM	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

PURPOSE: One completed oil well capable of producing.

GULF OIL CORPORATION - Roosevelt "AN" State #1 in Unit B of Section 32-7-36. Completed in Lower San Andres on March 18, 1969. Top of Perforations 4294'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 32: NE/4

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 4130
ORDER NO. R- 3758

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on May 14, 1969, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission".

NOW, on this _____ day of May, 1969, 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 gas pool in Eddy County, New Mexico, for the production of gas from the Morrow formation, said pool to bear the designation of Logan Draw-Morrow Gas Pool. Said Logan Draw-Morrow Gas Pool was discovered by the Pan American Petroleum Corporation Trigg Federal Gas Com Well No. 1, located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. It was completed in the Morrow formation on January 21, 1969. The top of the perforations is at 9626 feet.

(3) *That there is need for the consolidation of the North Indian Hills - Morrow Gas Pool and the Indian Basin - Morrow Gas Pool inasmuch as both pools produce from the same common source of supply. Said consolidation to be accomplished by the abolishment of the North Indian Hills - Morrow Gas Pool and the extension of the Indian Basin - Morrow Gas Pool.*

(4) *That the proposed consolidation of the Wantz - Abo Pool and the Drinkard Pool, Lea County, New Mexico, should be continued to the July 16, 1969 hearing pending further study.*

(5) *That the proposed extension of the vertical limits of the Drinkard Pool, Lea County, New Mexico, to include the entire Abo formation and to redesignate said pool as the Drinkard Drinkard - Abo Pool should be continued to the July 16, 1969 hearing pending further study.*

Drinkard - Abo Pool, Lea County, New Mexico, should be continued to the July 16, 1969 hearing pending further study.

IT IS THEREFORE ORDERED:

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

✓ TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM
SECTION 34: W/2

(b) That the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, consisting of the following described area:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

SECTION 4: All
SECTION 5: All
SECTION 8: All
SECTION 9: All
SECTION 16: All
SECTION 17: All

is hereby abolished.

(c) That the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

SECTION 4: All
SECTION 5: All
SECTION 8: All
SECTION 9: All
SECTION 16: All
SECTION 17: All
SECTION 20: All

proposed abolishment of the
(d) That the ~~Wantz-Abo~~ Pool in Lea County, New Mexico, consisting of the following described area:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

SECTION 2: Lots 11, 12, 13, 14 and S/2
SECTION 3: S/2
SECTION 4: Lots 15 and 16 and S/2
SECTIONS 10 AND 11: All
SECTION 12: W/2
SECTION 13: NE/4 and W/2
SECTIONS 14 AND 15: All
SECTION 16: SE/4
SECTION 21: NE/4 and S/2
SECTIONS 22, 23, AND 24: All
SECTION 25: NW/4
SECTIONS 26, 27, AND 28: All
SECTION 29: E/2 NE/4
SECTION 33: All
SECTION 35: W/2 and NE/4
SECTION 36: NW/4

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM

SECTION 19: N/2

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM

SECTION 2: All
SECTION 4: E/2 and NW/4

is hereby ~~abolished~~ *continued to July 16, 1969.*

(e) That the proposed extension of the vertical limits and redesignation of the Drinkard Pool, Lea County, New Mexico, and the proposed extension of the horizontal limits of said pool to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

SECTION 1: S/2
SECTION 4: Lots 13, 15 and 16
SECTION 12: SW/4
SECTION 24: E/2
SECTION 25: E/2

(e) Extension to Drinkard Drinkard-Abo Pool Continued:

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM
SECTION 6: SW/4
SECTION 18: NW/4
SECTION 19: N/2

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM
SECTION 6: SE/4
SECTION 7: NE/4

is hereby continued to July 16, 1969.

(f) That the Middle Allison-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM
SECTION 30: SW/4

✓ TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM
SECTION 1: NW/4

✓ TOWNSHIP 9 SOUTH, RANGE 36 EAST, NMPM
SECTION 8: E/2

(g) That the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 18: NW/4
SECTION 19: NE/4
SECTION 31: N/2

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

✓ TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 19: SE/4
SECTION 20: S/2
SECTION 21: S/2
SECTION 30: N/2

(i) That the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM
SECTION 19: SW/4

(j) That the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM
SECTION 5: SE/4

(k) That the South Eunice Seven Rivers-Queen Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM
SECTION 11: N/2

(l) That the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 11 SOUTH, RANGE 34 EAST, NMPM
SECTION 8: NE/4 and SW/4

(m) That the South McCormack-Silurian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 16: SE/4

(n) That the Osudo-Atoka Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM
SECTION 26: NW/4

(o) That the West Sawyer-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM
SECTION 33: NW/4 and NW/4 SW/4

✓ TOWNSHIP 10 SOUTH, RANGE 37 EAST, NMPM
SECTION 4: W/2 NW/4
SECTION 5: NE/4

(p) That the Siete-San Andres Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM
SECTION 16: NW/4
SECTION 20: SE/4
SECTION 29: NE/4

(q) That the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

✓ TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM
SECTION 32: NE/4

IT IS FURTHER ORDERED:

That the effective date of this order and all creations, abolishments, and extensions of vertical and horizontal limits included herein shall be June 1, 1969.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX ARMIJO, Member

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

S E A L

addition to paragraph

(a) That the discovery well for said pool, Aztec Oil and Gas Company's State "DS" Well No. 1, located in Unit N of Section 24, Township 17 S, Range 36 East, NMPM, is hereby authorized an oil discovery allowable of 24,940 barrels to be assigned to said well at the rate of 35 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.

(b) That the discovery well for said pool, Union Oil Company of California's Tracy Well No. 1, located in Unit C of Section 10, Township 27 South, Range 27 East, NMPM, is hereby authorized an oil discovery allowable of 17,085 barrels to be assigned to said well at the rate of 24 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.

County Pool
Township South, Range East, NMPM