

CASE 3528:

SOUTHEASTERN NEW MEXICO
NOMENCLATURE

CASE No.
3528

Application,
Transcripts,
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. 3528
Order No. R-3195

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 15, 1967, 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 February, 1967, 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 oil pool in Lea County, New Mexico, for the production of oil from the Abo formation, said pool to bear the designation of Emerald-Abo Pool. Further, that the discovery well for said pool, the Elk Oil Company Aztec State No. 1 located in Unit M of Section 15, Township 17 South, Range 36 East, NMPM, is entitled to and should receive a bonus discovery oil allowable in the amount of 47,220 barrels to be assigned over a two-year period. The top of the perforations in said well is 9444 feet.

(3) That there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Atoka

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formation, said pool to bear the designation of Dagger Draw-Atoka Gas Pool. Said Dagger Draw-Atoka Gas Pool was discovered by Standard Oil Company of Texas, Cass Ranch Federal No. 1, located in Unit F of Section 3, Township 20 South, Range 24 East, NMPM. It was completed in Atoka on May 19, 1963. The top of perforations is 8712 feet.

(4) That there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Canyon formation, said pool to bear the designation of Hackberry Hills-Canyon Gas Pool. Said Hackberry Hills-Canyon Gas Pool was discovered by Sinclair Oil & Gas Company, Hackberry Hills Unit No. 1, located in Unit O of Section 1, Township 22 South, Range 25 East, NMPM. It was completed in Canyon on August 15, 1961. The top of perforations is 9622 feet.

(5) That there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Canyon formation, said pool to bear the designation of East Hackberry Hills-Canyon Gas Pool. Said East Hackberry Hills-Canyon Gas Pool was discovered by Sinclair Oil & Gas Company, Hackberry Hills Unit No. 4, located in Unit F of Section 22, Township 22 South, Range 26 East, NMPM. It was completed in Canyon on July 19, 1966. The top of perforations is 10,061 feet.

(6) That there is need for the creation of a new oil pool in Lea County, New Mexico, for the production of oil from the Wolfcamp formation, said pool to bear the designation of South Lusk-Wolfcamp Pool. Said South Lusk-Wolfcamp Pool was discovered by Pan American Petroleum Corporation, Plains Unit Federal No. 5, located in Unit J of Section 28, Township 19 South, Range 32 East, NMPM. It was completed in Wolfcamp on December 1, 1966. The top of perforations is 10,719 feet.

(7) That there is need for the creation of a new gas pool in Lea County, New Mexico, for the production of gas from the Devonian formation, said pool to bear the designation of Paduca-Devonian Gas Pool. Said Paduca-Devonian Gas Pool was discovered by Texaco Inc., Cotton Draw Unit No. 64, located in Unit C of Section 18, Township 25 South, Range 32 East, NMPM. It was completed in Devonian on October 21, 1966. The top of perforations is 16,492 feet.

(8) That there is need for the creation of a new oil pool in Chaves County, New Mexico, for the production of oil from the San Andres formation, said pool to bear the designation of West Tobac-San Andres Pool. Said West Tobac-San Andres Pool was discovered

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by Tom L. Ingram, State A No. 1, located in Unit O of Section 26, Township 8 South, Range 32 East, NMPM. It was completed in San Andres on November 28, 1966. The top of perforations is 4242 feet.

(9) That there is need for the consolidation of the West Mesa-Upper Queen Gas Pool and the Mesa-Queen Pool, Eddy County, New Mexico, inasmuch as the pools produce from the same formation. Said consolidation to be accomplished by the abolishment of the West Mesa-Upper Queen Gas Pool and extension of the Mesa-Queen Pool.

(10) That there is need for certain extensions to the Cato-San Andres Pool in Chaves County, New Mexico, the Artesia Pool, the Atoka-Pennsylvanian Gas Pool, the Big Eddy-Strawn Pool, the Malaga-Delaware Pool, and the Scanlon-Delaware Pool, all in Eddy County, New Mexico, the North Bagley-Upper Pennsylvanian Pool, the Grama Ridge-Morrow Gas Pool, the Justis-Blinberry Pool, the Middle Lane-Permo Pennsylvanian Pool, the Lazy J-Pennsylvanian Pool, the Mesa-Queen Pool, and the Osudo-Morrow Gas Pool, all in Lea County, New Mexico.

IT IS THEREFORE ORDERED:

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

TOWNSHIP 17 SOUTH, RANGE 36 EAST, NMPM
Section 15: SW/4

That the discovery well for said pool, the Elk Oil Company Aztec State Well No. 1, located in Unit M of Section 15, Township 17 South, Range 36 East, NMPM, is hereby authorized an oil discovery allowable of 47,220 barrels to be assigned to said well at the rate of 65 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.

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

TOWNSHIP 20 SOUTH, RANGE 24 EAST, NMPM
Section 3: W/2

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

TOWNSHIP 22 SOUTH, RANGE 25 EAST, NMPM
Section 1: S/2

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

TOWNSHIP 22 SOUTH, RANGE 26 EAST, NMPM
Section 22: N/2

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

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM
Section 28: SE/4

(f) That a new pool in Lea County, New Mexico, classified as a gas pool for Devonian production, is hereby created and designated as the Paduca-Devonian Gas Pool, consisting of the following-described area:

TOWNSHIP 25 SOUTH, RANGE 32 EAST, NMPM
Section 18: NW/4

(g) That a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production, is hereby created and designated as the West Tobac-San Andres Pool, consisting of the following-described area:

TOWNSHIP 3 SOUTH, RANGE 32 EAST, NMPM
Section 26: SE/4

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

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM
Section 9: SE/4 NW/4 and NE/4 SW/4

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

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM

Section 15: N/2

(j) 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 3: S/2 SE/4

Section 9: NW/4

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

TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM

Section 19: SW/4

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

TOWNSHIP 8 SOUTH, RANGE 30 EAST, NMPM

Section 14: NE/4

Section 16: N/2

Section 17: E/2

(m) That the Grama Ridge-Morrow Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM

Section 33: All

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

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM

Section 26: NE/4

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

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM

Section 14: SE/4

Section 15: SE/4

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

TOWNSHIP 14 SOUTH, RANGE 33 EAST, NMPM

Section 3: SE/4

(q) That the Malaga-Delaware Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 24 SOUTH, RANGE 28 EAST, NMPM

Section 13: E/2 SW/4

Section 24: NW/4

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

TOWNSHIP 21 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1, 2, 7, 8, 9, 10, 15,
and 16

(s) That the Scanlon-Delaware Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM

Section 30: NE/4 SE/4

(t) That the West Mesa-Upper Queen Gas Pool in Eddy County, New Mexico, consisting of the following-described area:

TOWNSHIP 16 SOUTH, RANGE 31 EAST, NMPM

Section 12: NW/4 and S/2

Section 13: N/2 and SW/4

Section 14: NE/4

is hereby abolished.

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(u) That the Mesa-Queen Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include all of the Queen formation in the following area:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM
Section 18: NW/4 and S/2

and to include the Upper Queen gas pay only in the following-described area in Eddy County:


TOWNSHIP 16 SOUTH, RANGE 31 EAST, NMPM
Section 12: All
Section 13: All
Section 14: NE/4


IT IS FURTHER ORDERED:

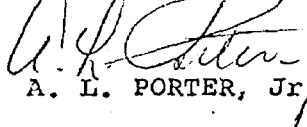
That the effective date of this order and all creations, abolishments, and extensions included herein shall be March 1, 1967.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


GUYTON B. HAYS, Member


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

S E A L

esr/

Case
3528

Name

Address

Remarks:

Ph.

Name

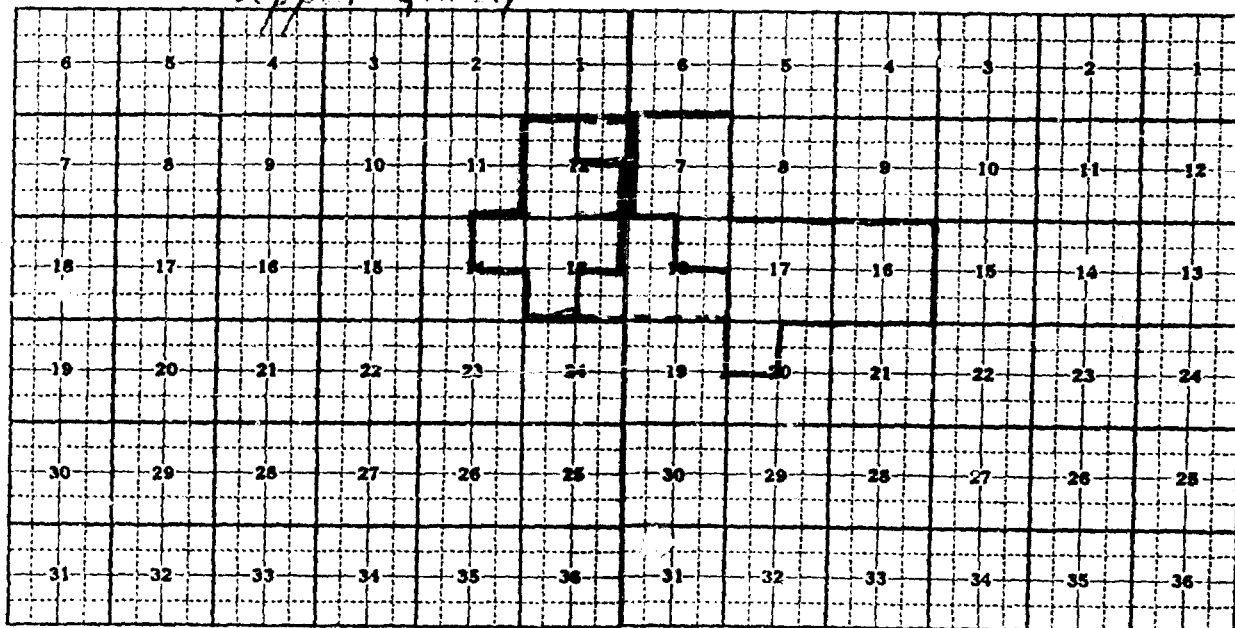
Address

Remarks:

Ph.

West Mesa
Upper Queen

Mesa Queen



T 16 R 27 State or County T 16 R 27 State or County

NOMENCLATURE ADVERTISEMENT FOR FEBRUARY, 1967

CASE 3528 *advisement*

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 new pools in Chaves, Eddy, and Lea Counties, New Mexico, and the extension of certain existing pools in 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 and extensions should not be made;

a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Dagger Draw-Atoka Gas Pool. The discovery well is Standard Oil Company of Texas, Cass Ranch Federal No. 1, located in Unit F of Section 3, Township 20 South, Range 24 East, NMPM. Said pool described as:

✓ TOWNSHIP 20 SOUTH, RANGE 24 EAST, NMPM
SECTION 3: W/2 ✓

b) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and designated as the Hackberry Hills-Canyon Gas Pool. The discovery well is Sinclair Oil & Gas Company, Hackberry Hills Unit No. 1, located in Unit O of Section 1, Township 22 South, Range 25 East, NMPM. Said pool described as:

✓ TOWNSHIP 22 SOUTH, RANGE 25 EAST, NMPM
SECTION 1: S/2 ✓

c) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and designated as the East Hackberry Hills-Canyon Gas Pool. The discovery well is Sinclair Oil & Gas Company, Hackberry Hills Unit No. 4, located in Unit F of Section 22, Township 22 South, Range 26 East, NMPM. Said pool described as:

✓ TOWNSHIP 22 SOUTH, RANGE 26 EAST, NMPM
SECTION 22: N/2 ✓

d) CREATE A new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the South Lusk-Wolfcamp Pool. The discovery well is Pan American Petroleum Corporation, Plains Unit Federal No. 5, located in Unit J of Section 28, Township 19 South, Range 32 East, NMPM. Said pool described as:

✓ TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM
SECTION 28: SE/4 ✓

e) CREATE A new pool in Lea County, New Mexico, classified as a gas pool for Devonian production and designated as the Paduca-Devonian Gas Pool. The discovery well is Texaco, Inc., Cotton Draw Unit No. 64, located in Unit C of Section 18, Township 25 South, Range 32 East, NMPM. Said pool described as:

✓ TOWNSHIP 25 SOUTH, RANGE 32 EAST, NMPM
SECTION 18: NW/4 ✓

February, 1967 Nomenclature

- f) CREATE A new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the West Tobac-San Andres Pool. The discovery well is Tom L. Ingram, State A No. 1, located in Unit O of Section 26, Township 8 South, Range 32 East, NMPM. Said pool described as:

✓ TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM
SECTION 26: SE/4

- g) EXTEND the Artesia Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM
SECTION 9: SE/4 NW/4 and NE/4 SW/4

- h) EXTEND the Atoka-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM
SECTION 15: N/2

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

✓ TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 3: S/2 SE/4
SECTION 9: NW/4

- k) EXTEND the Big Eddy-Strawn Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM
SECTION 19: SW/4

- l) EXTEND the Cato-San Andres Pool in Chaves County, New Mexico, to include therein:

✓ TOWNSHIP 8 SOUTH, RANGE 30 EAST, NMPM
SECTION 14: NE/4
SECTION 16: N/2
SECTION 17: NE/4

- m) EXTEND the Grama Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM
SECTION 33: All

- n) EXTEND the Justis-Blinebry Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
SECTION 26: NE/4

8) EXTEND the Middle Lane-Permian Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM
SECTION 14: SE/4

9) EXTEND the Lazy J-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 14 SOUTH, RANGE 33 EAST, NMPM
SECTION 3: SE/4

10) EXTEND the Malaga-Delaware Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 24 SOUTH, RANGE 28 EAST, NMPM
SECTION 13: E/2 SW/4
SECTION 24: NW/4

11) EXTEND the Osado-Morrow Gas Pool in Lea County, New Mexico, to include therein:

✓ TOWNSHIP 21 SOUTH, RANGE 35 EAST, NMPM
SECTION 6: Lots 1, 2, 7, 8, 9, 10, 15
and 16

12) EXTEND the Scanlon-Delaware Pool in Eddy County, New Mexico, to include therein:

✓ TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM
SECTION 30: NE/4 SE/4

(L) Abolish the West Mesa - Upper Queen Gas Pool comprising the following described acreage in Eddy County, New Mexico:

Township 16 South, Range 31 East NMPM
Sec 12: NW/4 & S/2
Sec 13: N/2 & SW/4
Sec 14: NE/4

(M) Extend the West Mesa Queen Pool in ~~Lea~~ ^{Eddy} County, New Mexico, to include the Queen formation in the following area:

Township 16 South, Range 32 East NMPM
Sec 18: NW/4 & S/2

and to include the Upper Queen Gas Pool only in the following described area in Eddy County:

Township 16 South, Range 31 East NMPM
Sec 12: all
Sec 13: all
Sec 14: NE/4

Docket No. 5-67

DOCKET: REGULAR HEARING - WEDNESDAY - FEBRUARY 15, 1967

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

- ALLOWABLE:
- (1) Consideration of the oil allowable for March, 1967;
 - (2) Consideration of the allowable production of gas for March, 1967, from thirteen prorated pools in Lea, Eddy and Roosevelt Counties, New Mexico; Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for March, 1967.

CASE 3527: Application of El Paso Natural Gas Company for authority to drill and to directionally drill several wells at unspecified unorthodox locations and to produce therefrom and vent natural gas in conjunction with "Project Gasbuggy," Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill and to directionally drill several wells at as yet unspecified unorthodox locations in the SW/4 of Section 36, Township 29 North, Range 4 West, Choza Mesa-Pictured Cliffs Gas Pool, Rio Arriba County, New Mexico, said wells to be used as required for testing and for the instrumentation and detonation of a nuclear explosive in conjunction with "Project Gasbuggy," which is to be conducted in cooperation with the United States Atomic Energy Commission, the United States Bureau of Mines, and Lawrence Radiation Laboratory of the University of California, to determine the feasibility of increasing the recovery of natural gas from low permeability reservoirs. Applicant also seeks authority to produce and vent natural gas both before the detonation and afterward, as required, to properly evaluate the test. Applicant further seeks the establishment of an administrative procedure for approval of the location of such wells as may be required at unorthodox locations.

CASE 3528: Southeastern New Mexico nomenclature case calling for an order for the creation of one pool and the assignment of an oil discovery allowable therein, and the creation, extension and abolishment of certain other pools in Lea, Eddy, and Chaves Counties, New Mexico:

- (a) Create a new pool in Lea County, New Mexico, classified as an oil pool for Abo production and designated the Emerald-Abo Pool, comprising the following-described acreage:

TOWNSHIP 17 SOUTH, RANGE 36 EAST, NMPM
Section 15: SW/4

Further, for the assignment of approximately 47,220 barrels of oil discovery allowable to the discovery well, Elk Oil Company's Aztec State Well No. 1, located in Unit M of said Section 15.

(b) Create a new pool in Eddy County classified as a gas pool for Atoka production and designated as the Dagger Draw-Atoka Gas Pool, and described as:

TOWNSHIP 20 SOUTH, RANGE 24 EAST, NMPM
Section 3: W/2

(c) Create a new pool in Eddy County classified as a gas pool for Canyon production and designated as the Hackberry Hills-Canyon Gas Pool, and described as:

TOWNSHIP 22 SOUTH, RANGE 25 EAST, NMPM
Section 1: S/2

(d) Create a new pool in Eddy County classified as a gas pool for Canyon production and designated as the East Hackberry Hills-Canyon Gas Pool, and described as:

TOWNSHIP 22 SOUTH, RANGE 26 EAST, NMPM
Section 22: N/2

(e) Create a new pool in Lea County classified as an oil pool for Wolfcamp production and designated as the South Lusk-Wolfcamp Pool, and described as:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM
Section 28: SE/4

(f) Create a new pool in Lea County classified as a gas pool for Devonian production and designated as the Paduca-Devonian Gas Pool, and described as:

TOWNSHIP 25 SOUTH, RANGE 32 EAST, NMPM
Section 18: NW/4

(g) Create a new pool in Chaves County classified as an oil pool for San Andres production and designated as the West Tobac-San Andres Pool, and described as:

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM
Section 26: SE/4

- (h) Extend the Artesia Pool in Eddy County to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM
Section 9: SE/4 NW/4 and NE/4 SW/4

- (i) Extend the Atoka-Pennsylvanian Gas Pool in Eddy County to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM
Section 15: N/2

- (j) Extend the North Bagley-Upper Pennsylvanian Pool in Lea County to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
Section 3: S/2 SE/4
Section 9: NW/4

- (k) Extend the Big Eddy-Strawn Pool in Eddy County to include therein:

TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM
Section 19: SW/4

- (l) Extend the Cato-San Andres Pool in Chaves County to include therein:

TOWNSHIP 8 SOUTH, RANGE 30 EAST, NMPM
Section 14: NE/4
Section 16: N/2
Section 17: NE/4

- (m) Extend the Grama Ridge-Morrow Gas Pool in Lea County to include therein:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM
Section 33: All

(n) Extend the Justis-Blinebry Pool in Lea County to include therein:

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
Section 26: NE/4

(o) Extend the Middle Lane-Permo Pennsylvanian Pool in Lea County to include therein:

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM
Section 14: SE/4

(p) Extend the Lazy J-Pennsylvanian Pool in Lea County to include therein:

TOWNSHIP 14 SOUTH, RANGE 33 EAST, NMPM
Section 3: SE/4

(q) Extend the Malaga-Delaware Pool in Eddy County to include therein:

TOWNSHIP 24 SOUTH, RANGE 28 EAST, NMPM
Section 13: E/2 SW/4
Section 24: NW/4

(r) Extend the Osudo-Morrow Gas Pool in Lea County to include therein:

TOWNSHIP 21 SOUTH, RANGE 35 EAST, NMPM
Section 6: Lots 1, 2, 7, 8, 9, 10, 15,
and 16

(s) Extend the Scanlon-Delaware Pool in Eddy County to include therein:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM
Section 30: NE/4 SE/4

(t) Abolish the West Mesa-Upper Queen Gas Pool comprising the following described acreage in Eddy County, New Mexico:

TOWNSHIP 16 SOUTH, RANGE 31 EAST, NMPM
Section 12: NW/4 & S/2
Section 13: N/2 & SW/4
Section 14: NE/4

(u) Extend the Mesa Queen Pool in Lea County, New Mexico, to include all of the Queen formation in the following area:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM
Section 18: NW/4 & S/2

and to include the Upper Queen gas pay only in the following described area in Eddy County:

TOWNSHIP 16 SOUTH, RANGE 31 EAST, NMPM
Section 12: All
Section 13: All
Section 14: NE/4

CASE 3529: Northwestern New Mexico nomenclature case calling for an order creating certain pools in San Juan County, New Mexico:

(a) Create a new pool in San Juan County classified as a gas pool for Fruitland production and designated as the Pinon-Fruitland Pool, and described as:

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM
Section 18: NW/4

TOWNSHIP 28 NORTH, RANGE 12 WEST, NMPM
Section 13: N/2 & SE/4

(b) Create a new pool in San Juan County classified as a gas pool for Gallup production, designated as the Ojo-Gallup Pool, and described as:

TOWNSHIP 28 NORTH, RANGE 14 WEST, NMPM
Section 31: S/2

TOWNSHIP 28 NORTH, RANGE 15 WEST, NMPM
Section 26: N/2 & SE/4
Section 35: NE/4
Section 36: N/2 & SE/4

(c) Create a new pool in San Juan County classified as an oil pool for Dakota production, designated as the Slick Rock-Dakota Oil Pool, and described as:

TOWNSHIP 30 NORTH, RANGE 17 WEST, NMPM
Section 36: S/2 SE/4

GOVERNOR
DAVID F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

P. O. BOX 1980
HOBBS
January 24, 1967

Case 3528

Mr. D. S. Nutter
Chief Engineer
New Mexico Oil Conservation Commission
Post Office Box 2088
Santa Fe, New Mexico

Dear Dan:

Attached is Elk Oil Company's request for a discovery allowable and a new pool creation.

The Oil Conservation Commission staff, here in Hobbs, definitely believe that this well is a wildcat discovery and should be given a discovery allowable.

This well is completed in a second Abo reef which lies in front of and +400 feet below the Vacuum Abo reef. The nearest production from this same reef is $3\frac{1}{2}$ miles to the east, and it is very questionable whether the oil reservoir extends to this well (the Sunray State EE No. 1 in Unit H, Section 13, T17S, R36E).

If possible, please add this well to the February nomenclature advertisement and a new pool be created designated as the Emerald-Abo Pool.

TOWNSHIP 17 SOUTH, RANGE 36 EAST, NMPM
SECTION 10: SW/4

Very truly yours,

OIL CONSERVATION COMMISSION

John W. Runyan
John W. Runyan
District Geologist

JWR:fd

Robert A. Dean

SUITE 823 MIDLAND TOWER
MIDLAND, TEXAS 79701

February 9, 1967

*As 3528
Paragraphs (u) & (t)*

Mr. Dan Nutter
Gas Proration Section
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Dear Mr. Nutter:

This is to notify you that the undersigned, as an operator of gas wells in both the Mesa Queen and West Mesa Queen Pools, has no objections to extending the Mesa Queen Pool to include the West Mesa Queen Pool. Further, I concur with findings of the Commission that the gas from these pools is produced from the same Queen sand reservoir.

If possible, may there be some thought given to relieving the Commission and operators of these dry gas wells from testing and filing of quarterly gas/oil ratio reports since there is no liquids produced from these gas wells.

Respectfully yours,

Robert A. Dean

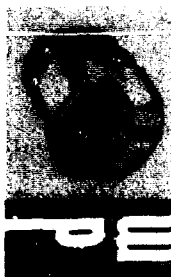
Robert A. Dean

RAD/kd

dearnley-meier

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

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MR. PORTER: We will take next Case 3528.

MR. HATCH: Case 3528: Southeastern New Mexico nomenclature case calling for an order for the creation of one pool, and the assignment of an oil discovery allowable therein, and the creation, extension and abolishment of certain other pools in Lea, Eddy, and Chaves Counties, New Mexico.

(Witness Sworn)

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

EXAMINATION

BY MR. HATCH:

Q Would you state your name and position for the record, please?

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

Q Are you prepared to make recommendations to the Commission concerning the creation of an oil pool and the assignment of an oil discovery allowable therein and the creation of the extension and abolishment of certain other pools in Lea, Eddy, and Chaves Counties, New Mexico?

A Yes, sir.

Q Are your recommendations prepared in the form of

dearnley-meier reporting service inc.

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PAGE 3

an exhibit?

A Yes, they are.

Q Is that Exhibit No. 1?

A It's Exhibit No. 1. I would like to go into Paragraph A first. This is the creation of Emerald-Abo Pool comprising the southwest quarter of Section 15 of Township 15 South, Range 36 East, Lea County, New Mexico. This pool was discovered by Elk Oil Company, Aztec State Well No. 1 located in the southwest quarter, southwest quarter of said Section 15. Applicant Elk Oil Company requested a bonus discovery allowable for the discovery of this pool. They submitted the required geological information and it is the staff's opinion in this case that this is a bonafied discovery of a new pool, by this well. The discovery allowable for a well to this depth would be 47,220 barrels of oil. The staff is in agreement with the contention of the company to have a discovery, we are presenting this case and we recommend that this amount of bonus discovery allowable be awarded the well.

All of the other creations as contained on the docket are the same in the exhibit for this case. We would recommend that those creations be made also, that extensions to pools be made in accordance with the advertisement and the docket from Paragraphs H through K.

In Paragraph L we would recommend that the pool be extended as shown on the docket, plus the additional acreage as follows: The southeast quarter of Section 17 Township 8 South, Range 30 East.

We would recommend that Paragraphs M and N be adopted as shown on the docket and the exhibit. We would recommend that Paragraph O be extended as shown on the docket plus the following acreage: Township 10 South, Range 33 East Section 15, the southeast quarter.

We would recommend that the extensions shown in Paragraphs P through S be adopted by the Commission.

As to Paragraphs T and U we recommend that the West Mesa Upper Queen Gas Pool in Eddy County be abolished. Geological information indicates that this is an extension of the Mesa Queen Pool in Lea County, New Mexico. We would therefore recommend that the Mesa Queen Pool in Lea County, New Mexico be extended to include the northwest quarter and south half of Section 18 in Township 16 South Range 32 East of Lea County and the Upper Queen Gas Pool, only the Upper Queen Gas Pay only in the following described acreage: In Eddy County, Section 12 and 13, Section 14, the northeast quarter - this is in Township 16 Range 32 East of the Upper Queen Gas Pay only. There is a Lower Queen Oil Pool in the same area in Eddy County. We recommend further

that geological studies be made to consider the possible reduction of the vertical limits of the Mesa Queen Pool, which will now be in Lea and Eddy County, to include only the Upper Queen Pay. This pay is productive of oil and gas in Lea County, gas only in the Eddy County area.

Q Do you recommend that the pools be created and discovery allowable assigned to the Elk Oil Company, Aztec State Well No. 1 and the other pools extended, abolished and as advertised and corrected?

A As advertised and corrected, yes.

Q Do you have anything further to add to your testimony?

A No.

Q Was Exhibit No. 1 prepared by you?

A Yes, it was.

MR. HATCH: I would like to move introduction of Exhibit No. 1 into evidence at this time.

MR. PORTER: Exhibit No. 1 will be admitted.
Does anyone have a question of Mr. Nutter?

(Commission Exhibit 1
admitted in evidence.)

MR. PORTER: Mr. Nutter, would you please direct Mr. Ramey to have his staff conduct a geological study that you indicated should be made?

MR. PORTER: Witness may be excused.

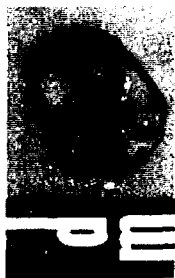
STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

Ray Embree
Court Reporter

dearnley-meier

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NEW POOLS

- a) It is recommended that a new oil pool be created and designated as the EMERALD-ABO Pool.

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

Discovery well was Elk Oil Company - Aztec State #1 located in Unit M Section 15 Township 17 Range 36 and was completed on January 4, 1967 ~~with an initial production of \$6,000/MCFDD~~. Top of perforations is at 9444 feet.

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

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

Discovery well was Standard Oil Company of Texas - Cass Ranch Federal #1 located in Unit F Section 3 Township 20 Range 24 and was completed on May 19, 1963 ~~with an initial production of \$6,000/MCFDD~~. Top of perforations is at 9712 feet.

- c) It is recommended that a new gas pool be created and designated as the HACKBERRY HILLS-CANYON GAS Pool.

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

Discovery well was Sinclair Oil & Gas Company - Hackberry Hills Unit #1 located in Unit O Section 1 Township 22 Range 25 and was completed on August 15, 1961 ~~with an initial production of \$6,000/MCFDD~~. Top of perforations is at 9622 feet.

NEW POOLS

- d) It is recommended that a new GAS pool be created and designated as the EAST HACKBERRY HILLS-CANYON GAS Pool.

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

Discovery well was Sinclair Oil & Gas Company - Hackberry Hills Unit #4 located in Unit P Section 22 Township 22 Range 26 and was completed on July 10, 1966 ~~with an initial potential of \$\$\$\$\$\$ BOPD/MCFPD~~ Top of perforations is at 10,061 feet.

- e) It is recommended that a new oil pool be created and designated as the SOUTH LUSK-WOLFECAMP Pool.

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

Discovery well was Pan American Petroleum Corporation - Plains Unit Federal #5 located in Unit J Section 28 Township 19 Range 32 and was completed on December 1, 1966 ~~with an initial potential of \$\$\$\$\$\$ BOPD/MCFPD~~ Top of perforations is at 10,719 feet.

- f) It is recommended that a new gas pool be created and designated as the PADUCA-DEVONIAN GAS Pool.

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

Discovery well was Texaco, Inc. - Cotton Draw Unit #64 located in Unit C Section 18 Township 25 Range 32 and was completed on October 21, 1966 ~~with an initial potential of \$\$\$\$\$\$ BOPD/MCFPD~~ Top of perforations is at 16,492 feet.

NEW POOLS

g) It is recommended that a new oil pool be created and designated as the
WEST TOBAC-SAN ANDRES Pool.

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

Discovery well was Tom L. Ingram @ State A #1
located in Unit 0 Section 26 Township 8 Range 32 and was completed on
November 28, 1966 with an initial potential of 5000/MCFGPD Top of
perforations is at 4242 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 3528: (a) CREATION OF A NEW OIL POOL

COUNTY LEA POOL EMERALD-ABO

TOWNSHIP	17 South	RANGE	36 East	NMPM
6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35
				36

PURPOSE: One completed oil well capable of producing.

ELK OIL COMPANY - Aztec State #1 in Unit M of Section 15-17-36. Completed in Abo on January 4, 1967. Top of Perforations 9444'.

Proposed pool boundary colored in red. SECTION 15: SW/4

CASE 3528: (b) CREATION OF A NEW GAS POOL

COUNTY Eddy POOL Dagger Draw-Atoka Gas

TOWNSHIP	20S	RANGE	24E	NMPM
6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35

Purpose: One completed gas well capable of producing.

Discovery Well: Standard Oil Co. of Texas, Cass Ranch Federal #1 in unit F of Section 3-20-24. Completed in Atoka, May 19, 1963, through perforations 8712' to 8721'.

Proposed pool boundary colored in green.

Section 3: W/2

CASE 3528: (c) CREATION OF A NEW GAS POOL

COUNTY Eddy

POOL Hackberry Hills-Canyon Gas

TOWNSHIP	22S	RANGE	25E	NMFM
6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35

Purpose: One completed gas well capable of producing.

Discovery Well: Sinclair Oil & Gas Co., Hackberry Hills Unit #1 in unit O of Section 1-22-25. Completed in Canyon, August 15, 1961, through perforations 9622' to 9654'.

Proposed pool boundary colored in green.

Section 1: S/2

CASE 3528: (d) CREATION OF A NEW GAS POOL

COUNTY Eddy POOL East Hackberry Hills-Canyon Gas

TOWNSHIP 22S RANGE 26E 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: Sinclair Oil & Gas Co., Hackberry Hills Unit #4-in unit F of Section 22-22-26. Completed in Canyon, July 19, 1966, through perforations 10,061' to 10,091'.

Proposed pool boundary colored in green.

Section 22: N/2

CASE 3528: (c) CREATION OF A NEW OIL POOL

COUNTY LEA POOL SOUTH LUSK-WOLFCAMP

TOWNSHIP 9 South						RANGE 32 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.

PAN AMERICAN PETROLEUM CORPORATION - Plains Unit Federal #5 in Unit J of Section 28-19-32. Completed in Wolfcamp on December 1, 1966. Top of Perforations 10,719'.

Proposed pool boundary colored in red. SECTION 28: SE/4

CASE 3528: (f) CREATION OF A NEW GAS POOL

COUNTY	LEA	POOL	PADUCA-DEVONIAN GAS					
TOWNSHIP	25 South	RANGE	32 East	NMFM				
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 com gas well capable of producing.

TEXACO, INC. - Cotton Draw Unit #64 in Unit C of Section 18-25-32. Completed in Devonian on October 21, 1966. Top of Perforations 16,492'.

Proposed pool boundary colored in red. SECTION 18: NW/4

CASE 3528: (g) CREATION OF A NEW OIL POOL

COUNTY CHAVES POOL WEST TOBAC-SAN ANDRES

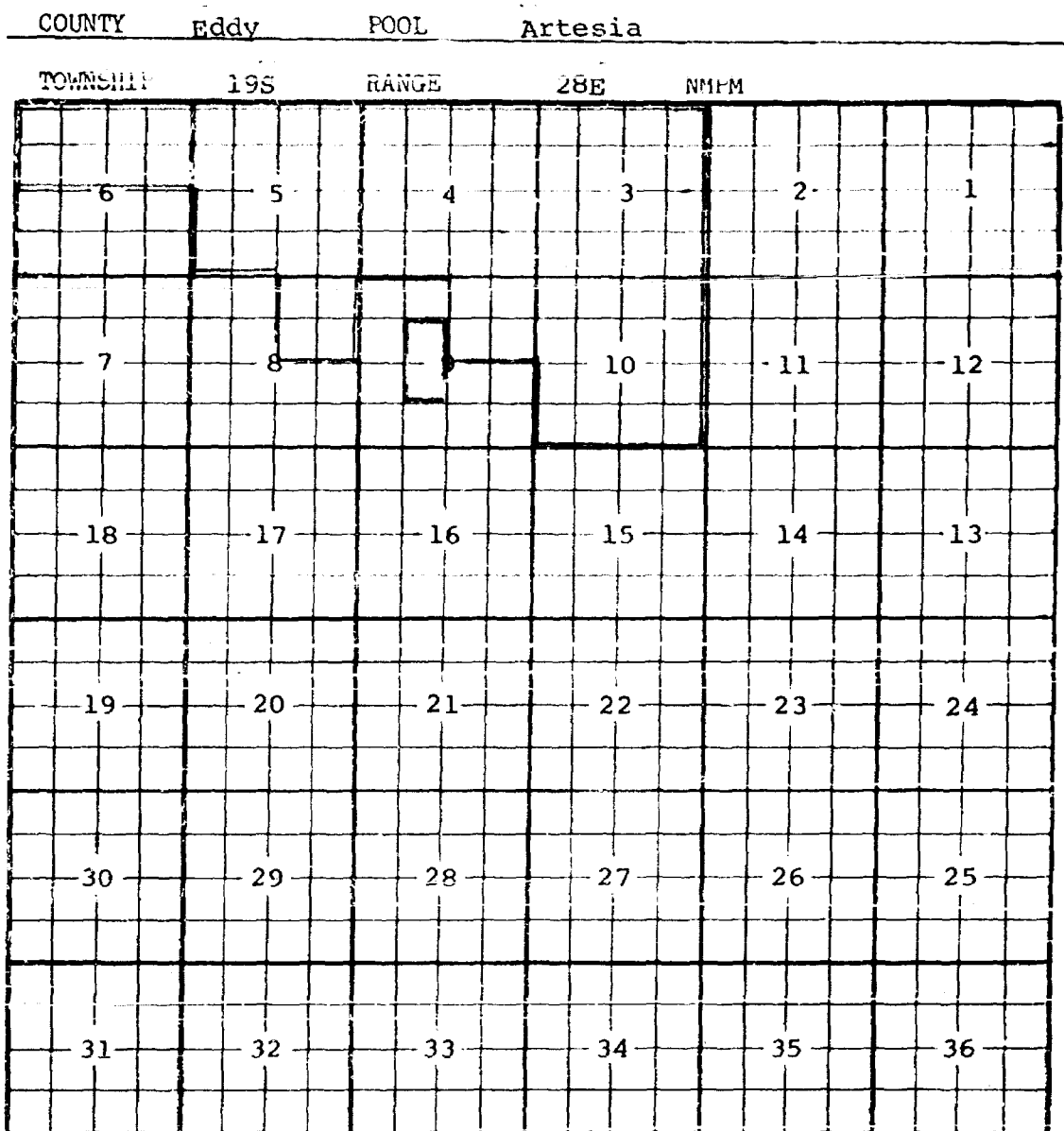
TOWNSHIP		8 South		RANGE		32 East		NMFM	
6		5		4		3		2	1
7		8		9		10		11	12
18		17		16		15		14	13
19		20		21		22		23	24
30		29		28		27		26	25
31		32		33		34		35	36

PURPOSE: One completed oil well capable of producing.

TOM L. INGRAM - State A #1 in Unit 0 of Section 26-8-32. Completed in San Andres on November 28, 1966. Top of Perforations 4242'.

Proposed pool boundary colored in red. SECTION 26: SE/4

CASE 3528: (h) EXTENSION OF AN EXISTING OIL POOL



Purpose: One completed oil well capable of producing.

Depco Inc., State 648 #215 in unit K of Section 9-19-28.

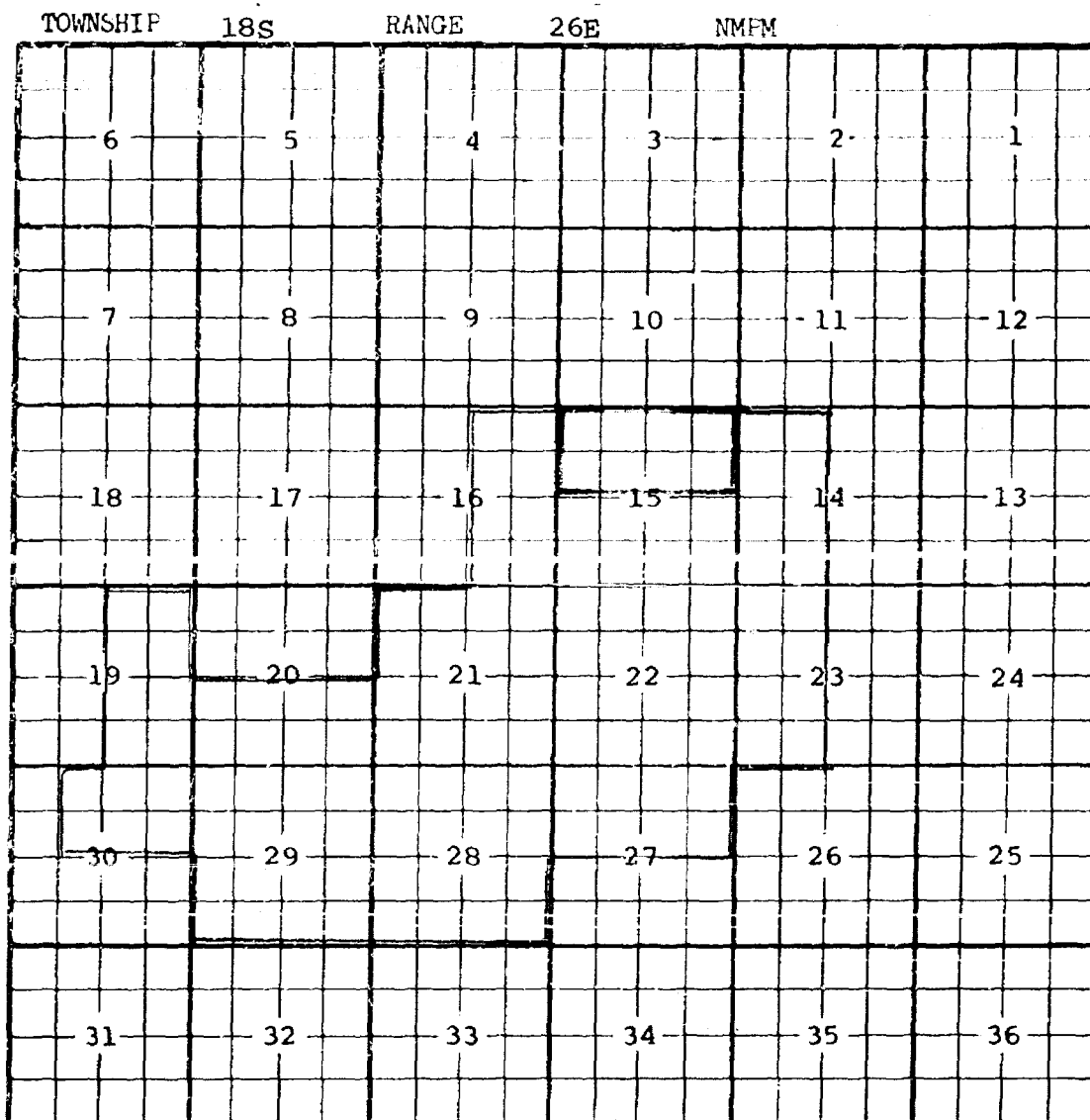
Completed in Grayburg, October 11, 1966, through perforations 2052' to 2103'.

Pool boundary colored in red.

Proposed extension colored in green.

Section 9: SE/4 NW/4 & NE/4 SW/4

CASE 3528: (1) EXTENSION OF AN EXISTING GAS POOL
COUNTY Eddy POOL Atoka-Pennsylvanian Gas



Purpose: One completed gas well capable of producing.

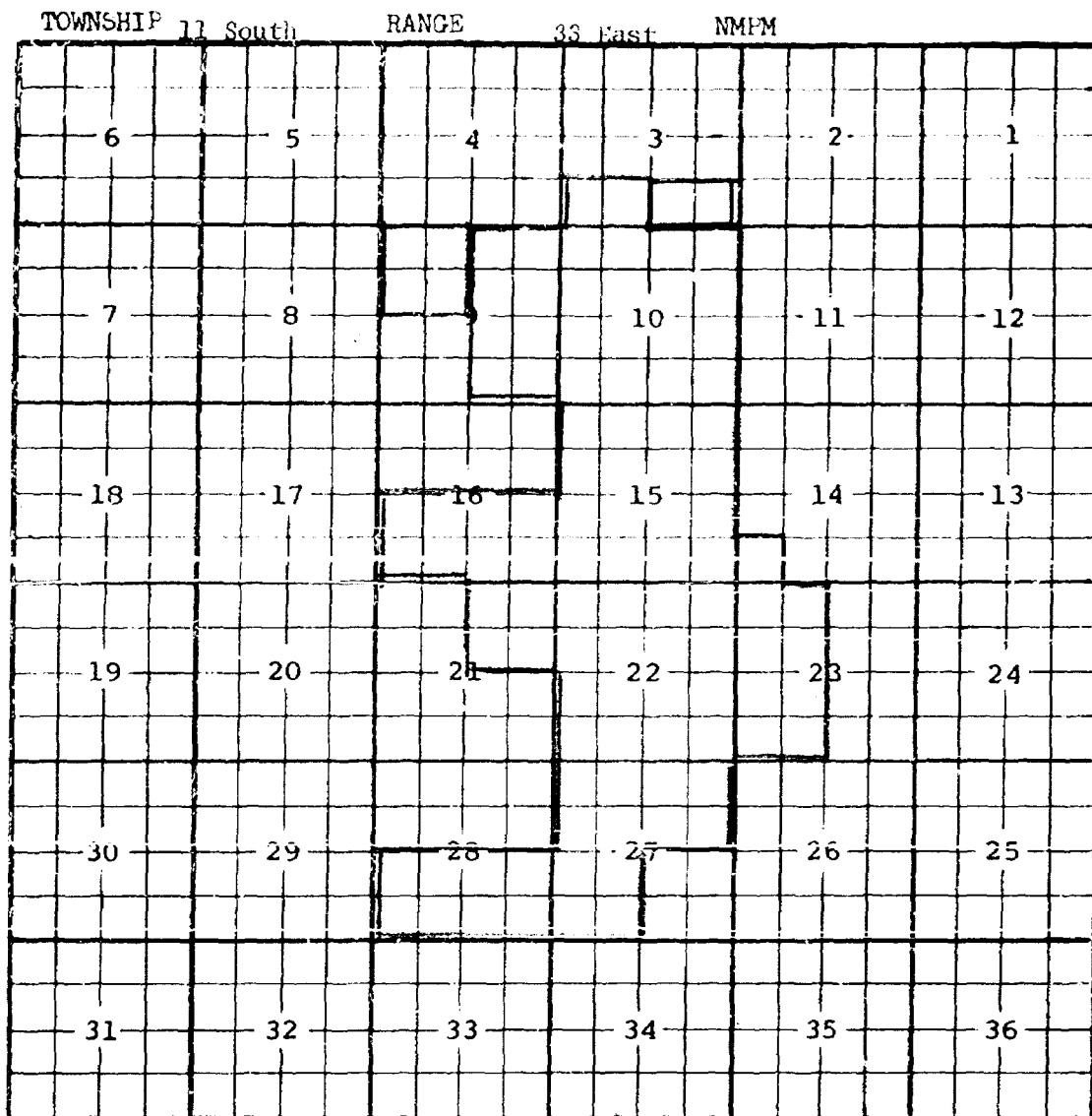
Standard Oil Co. of Texas, Paul Terry et al Gas Com well #2 in unit H of Section 15-18-26. Completed in Pennsylvanian, October 1, 1966, through perforations 8958' to 8982'.

Pool boundary colored in red.
Proposed extension colored in green.

Section 15: N/2

CASE 3528: (j) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL NORTH BAGLEY-UPPER PENNSYLVANIAN



PURPOSE: Two completed oil wells capable of producing.

SOUTHLAND ROYALTY COMPANY - Graham State #1 in Unit O of Section 3-11-33. Completed in Upper Pennsylvanian on October 30, 1966. Top of Perforations 9556'.

STOLTZ & COMPANY - Collier #1 in Unit F of Section 9-11-33. Completed in Upper Pennsylvanian on December 1, 1966. Top of Perforations 9537'. Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 3: S/2 SE/4

SECTION 9: NW/4

CASE 3528: (k) EXTENSION OF AN EXISTING OIL POOL

COUNTY Eddy POOL Big Eddy-Strawn

TOWNSHIP	20S	RANGE	31E	NMPM
6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35
				36

Purpose: One completed oil well capable of producing.

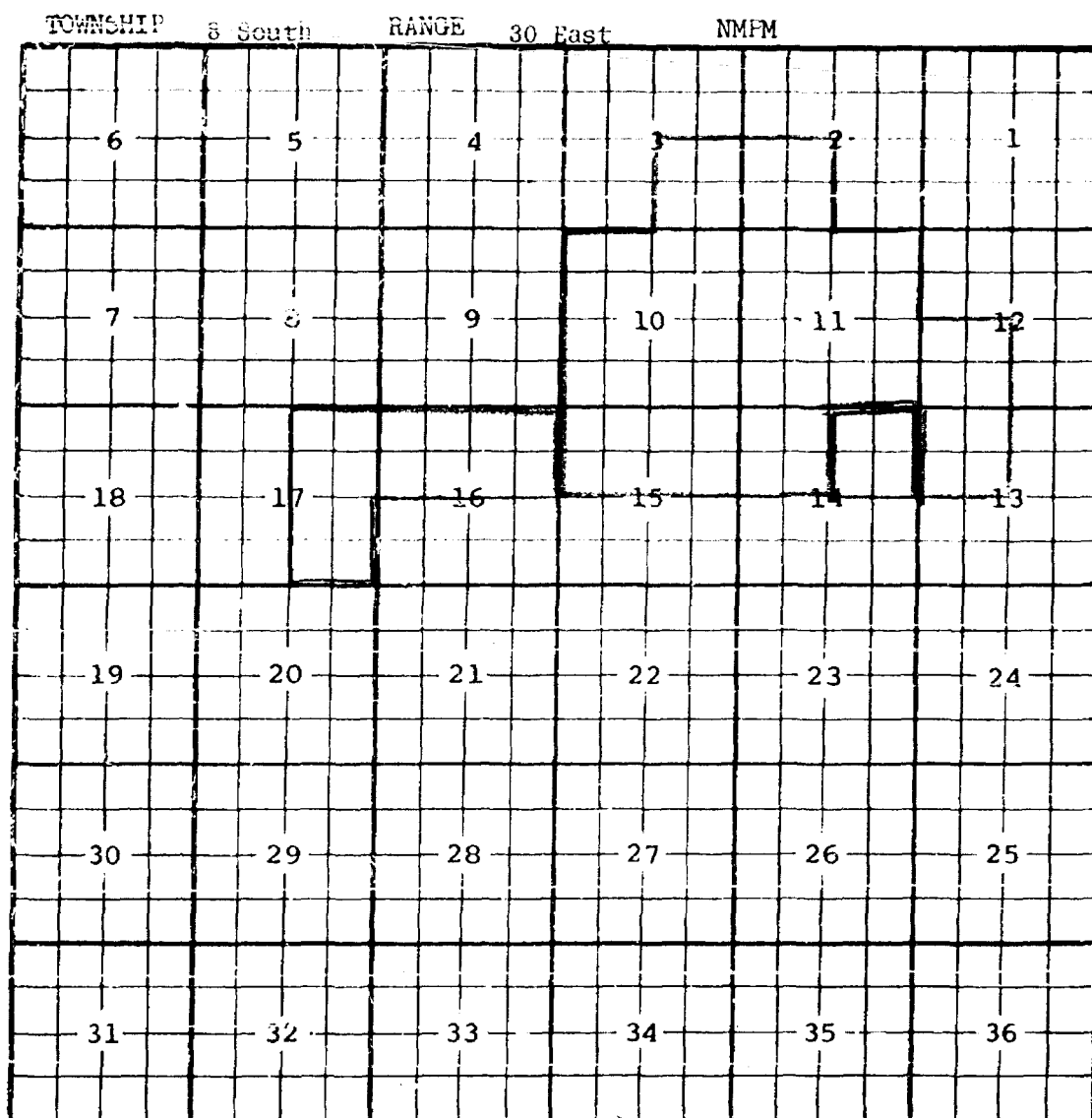
Pan American Pet. Corp., Big Eddy Unit No.10 in unit K of Section 19-20-31. Completed in Strawn, October 12, 1966, through perforations 11,372' to 11,399'.

Pool boundary colored in red.

Proposed extension colored in green.

Section 19: SW/4

CASE 3528: (1) EXTENSION OF AN EXISTING OIL POOL
COUNTY CHAVES POOL CATO-SAN ANDRES



PURPOSE: Five completed oil wells capable of producing.

PAN AMERICAN PETROLEUM CORPORATION - Wasley #3 in Unit A of Section 14-8-30.
Completed in San Andres on December 21, 1966. Top of Perforations 3528'.

PAN AMERICAN PETROLEUM CORPORATION - Wasley #5 in Unit G of Section 14-8-30.
Completed in San Andres on January 8, 1967. Top of Perforations 3553'.

PAN AMERICAN PETROLEUM CORPORATION - Crosby #1 in Unit G of Section 17-8-30.
Completed in San Andres on August 2, 1966. Top of Perforations 3254'.

UNION TEXAS PETROLEUM CORPORATION - Crosby "17" #1 in Unit H of Section 17-8-30.
Completed in San Andres on December 12, 1966. Top of Perforations 3276'.

UNION TEXAS PETROLEUM CORPORATION - Crosby "17" #3 in Unit A of Section 17-8-30.
Completed in San Andres on January 18, 1967. Top of Perforations 3371'.

ADDITION---UNION TEXAS PETROLEUM CORPORATION - Crosby "17" #2 in Unit J of Section 17-8-30.
Completed in San Andres on January 22, 1967. Top of Perforations 3267'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 14: NE/4

ADDITION--SECTION 17 SE/4 SECTION 16: N/2 SECTION 17: NE/4

CASE 3528: (m) EXTENSION OF AN EXISTING GAS POOL
COUNTY LEA POOL GRAMA RIDGE-MORROW GAS

TOWNSHIP		21 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

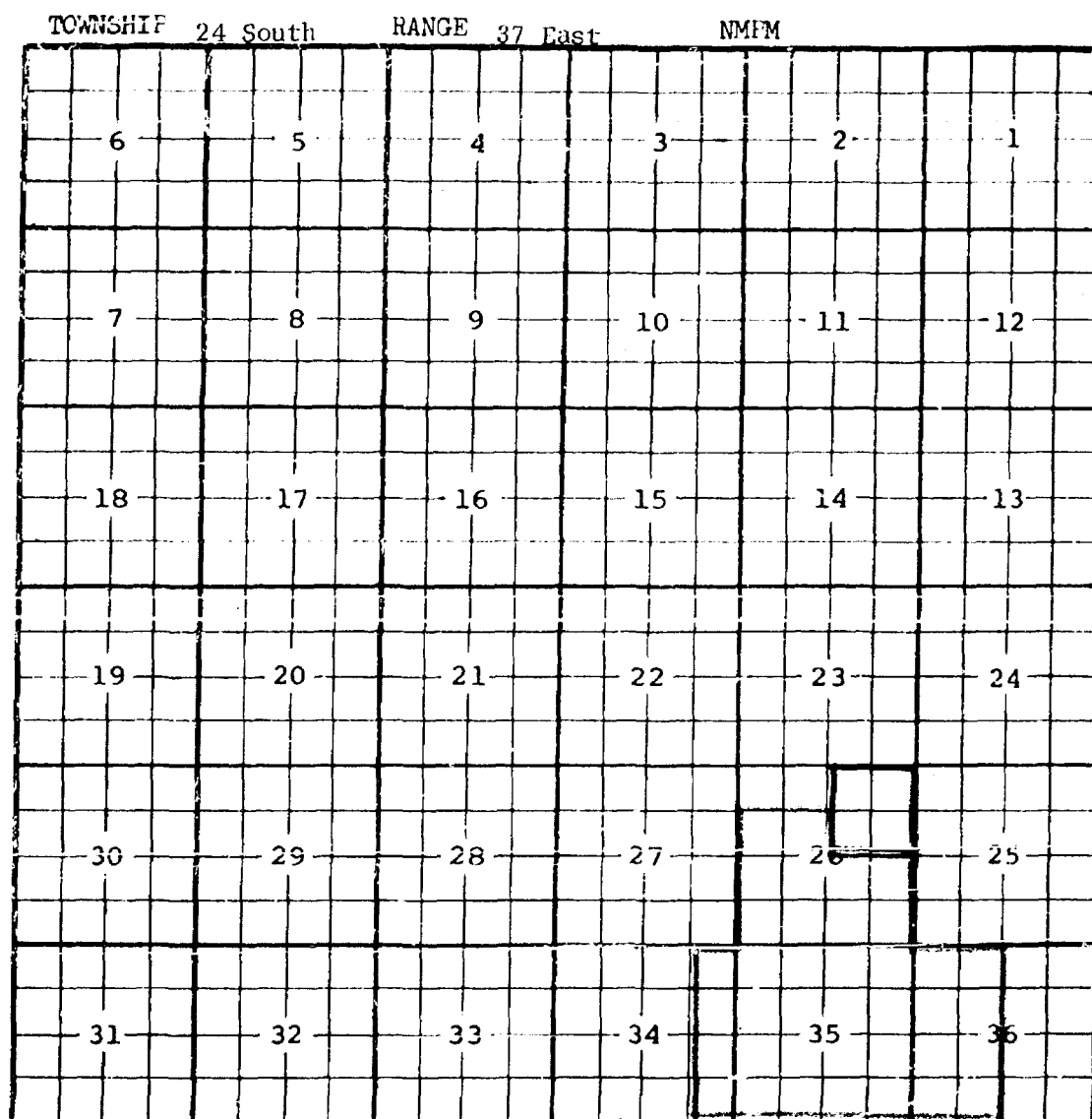
PURPOSE: One completed gas well capable of producing.

SINCLAIR OIL & GAS COMPANY - OPERATOR and SHELL OIL COMPANY - SUB-OPERATOR -
South Wilson Deep Unit #2 in Unit J of Section 33-21-34. Completed in
Morrow on November 29, 1966. Top of Perforations 13,029'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 33: All

CASE 3628: EXTENSION OF AN EXISTING OIL POOL
COUNTY ⁽ⁿ⁾ LEA POOL JUSTIS-BLINEBRY



PURPOSE: One completed oil well capable of producing.

TEXACO, INC. - C. L. Erwin "b" NCT-1 #5 in Unit B of Section 26-24-37.

Completed in Blinebry on December 1, 1966. Top of Perforations 5206'.

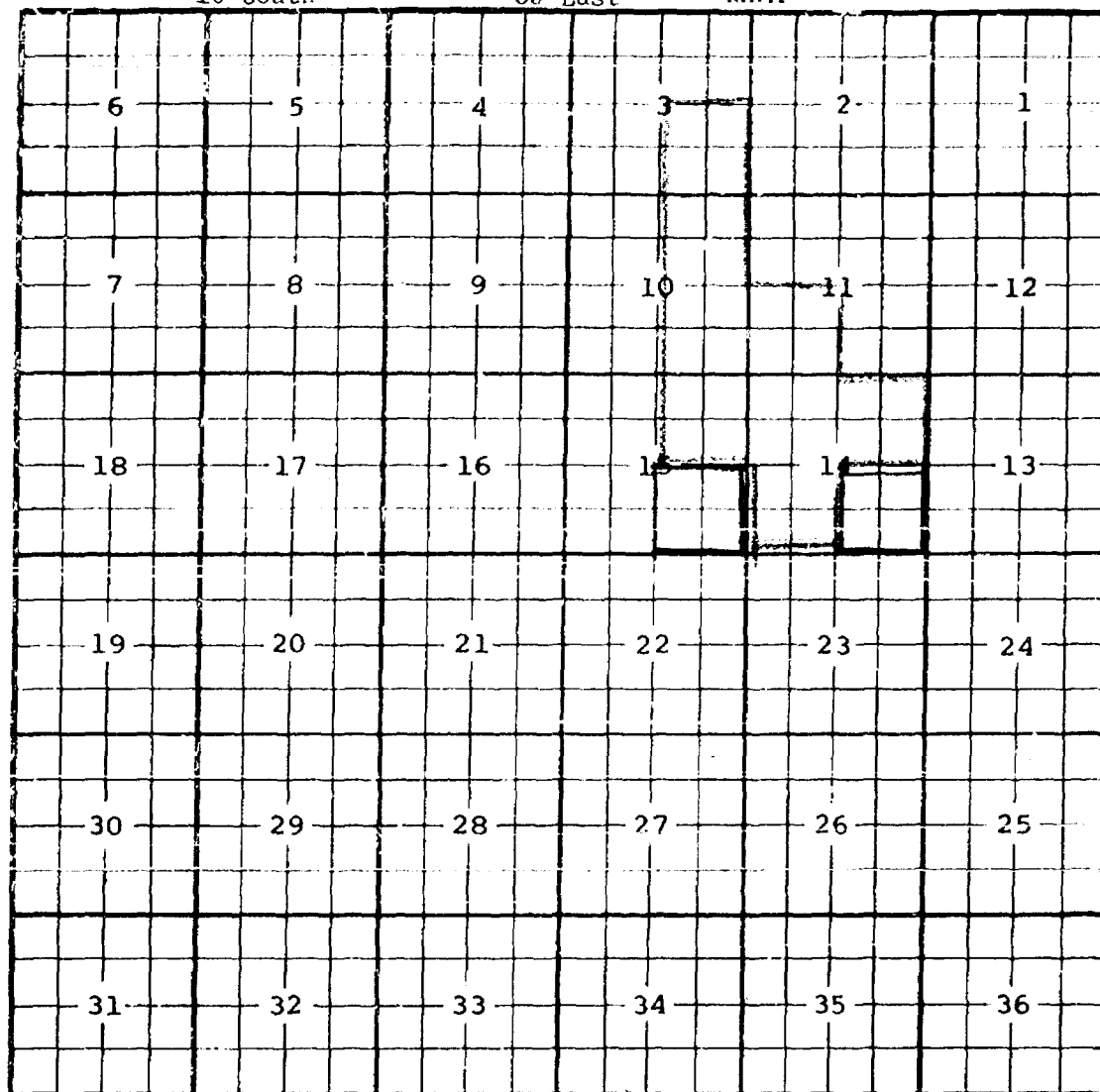
Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 26: NE/4

CASE 3528: (o) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL MIDDLE LANE-PERMO PENNSYLVANIAN

TOWNSHIP 10 South RANGE 33 East NM/M



PURPOSE: One completed oil well capable of producing.
 THE LOUISIANA LAND & EXPLORATION COMPANY - State 14 #2 in Unit 0 of Section
 14-10-33. Completed in Permo Pennsylvanian on December 19, 1966. Top of
 Perforations 9692'.

ADDITION--CHARLES B. READ - Aztec #1 in Unit I of Section 15-10-33. Com-
 pleted in Bough C on January 11, 1967. Top of Perforations 9665'.

Pool boundary colored in red.

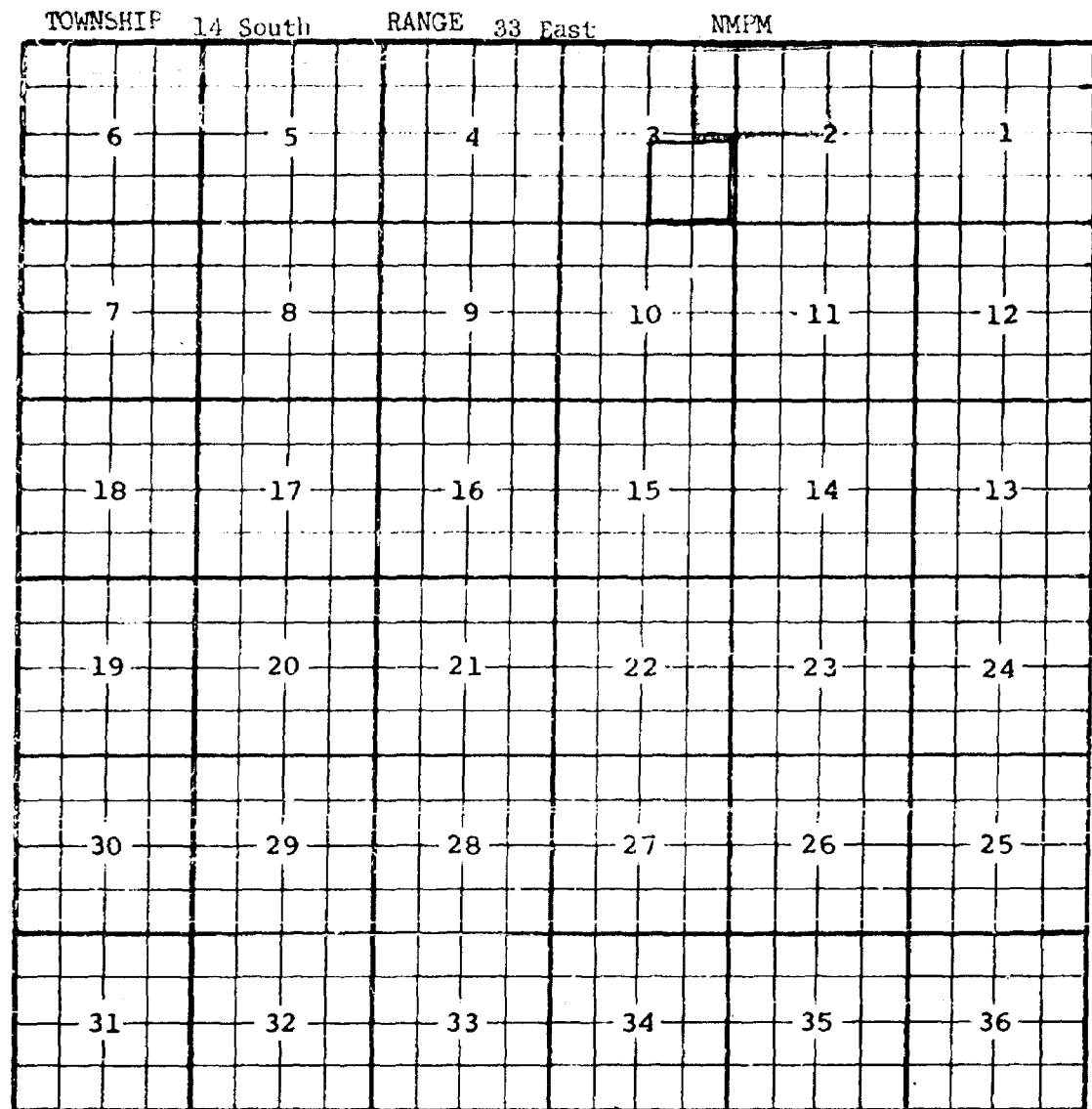
Proposed pool extensions colored in green. SECTION 14: SE/4

ADDITION---SECTION 15: SE/4

CASE 3528: (p) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA

POOL LAZY J-PENNSYLVANIAN



PURPOSE: One completed oil well capable of producing.

TEXACO, INC. - New Mexico "AQ" State NCT-11 #1 in Unit J of Section 3-14-33.

Completed in Pennsylvanian on December 18, 1966. Top of Perforations 9849'.

Pool boundary colored in red.

Proposed pool extension colored in green. SECTION 3: SE/4

CASE 3528: (q) EXTENSION OF AN EXISTING OIL POOL
COUNTY Eddy POOL Malaga

TOWNSHIP	24S	RANGE	28E	NMPM
6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35

Purpose: One completed oil well capable of producing.

Sun Oil Co., Guy A. Reed #1 in unit E of Section 24-24-28.
Completed in Delaware, October 28, 1966, in open hole from
2645' to 2700'.

Pool boundary colored in red.

Proposed extension colored in green.

Section 13: E/2 SW/4

Section 24: NW/4

CASE 3528: (r) EXTENSION OF AN EXISTING GAS POOL

COUNTY LEA POOL OSUDO-MORROW GAS

TOWNSHIP 8 N 21 S						RANGE 35 East						NMPM					
15	14	13	12	11	10	9	8	7	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.

GULF OIL CORPORATION - North Wilson Deep Unit #3 in Unit I of Section 6-21-35.

Completed in Morrow on September 8, 1966. Top of Perforations 11,266'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 6: Lots 1, 2, 7, 8,
9, 10, 15, and 16

CASE 3528: (s) EXTENSION OF AN EXISTING OIL POOL
COUNTY Eddy POOL Scanlon-Delaware

TOWNSHIP	20S	RANGE	29E	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.

Harvey E. Yates, Stebbins A Federal #1 in unit I of Section 30-20-29. Completed in Delaware, September 10, 1966, through perforations at 3272'.

Pool boundary colored in red.

Proposed extension colored in green.

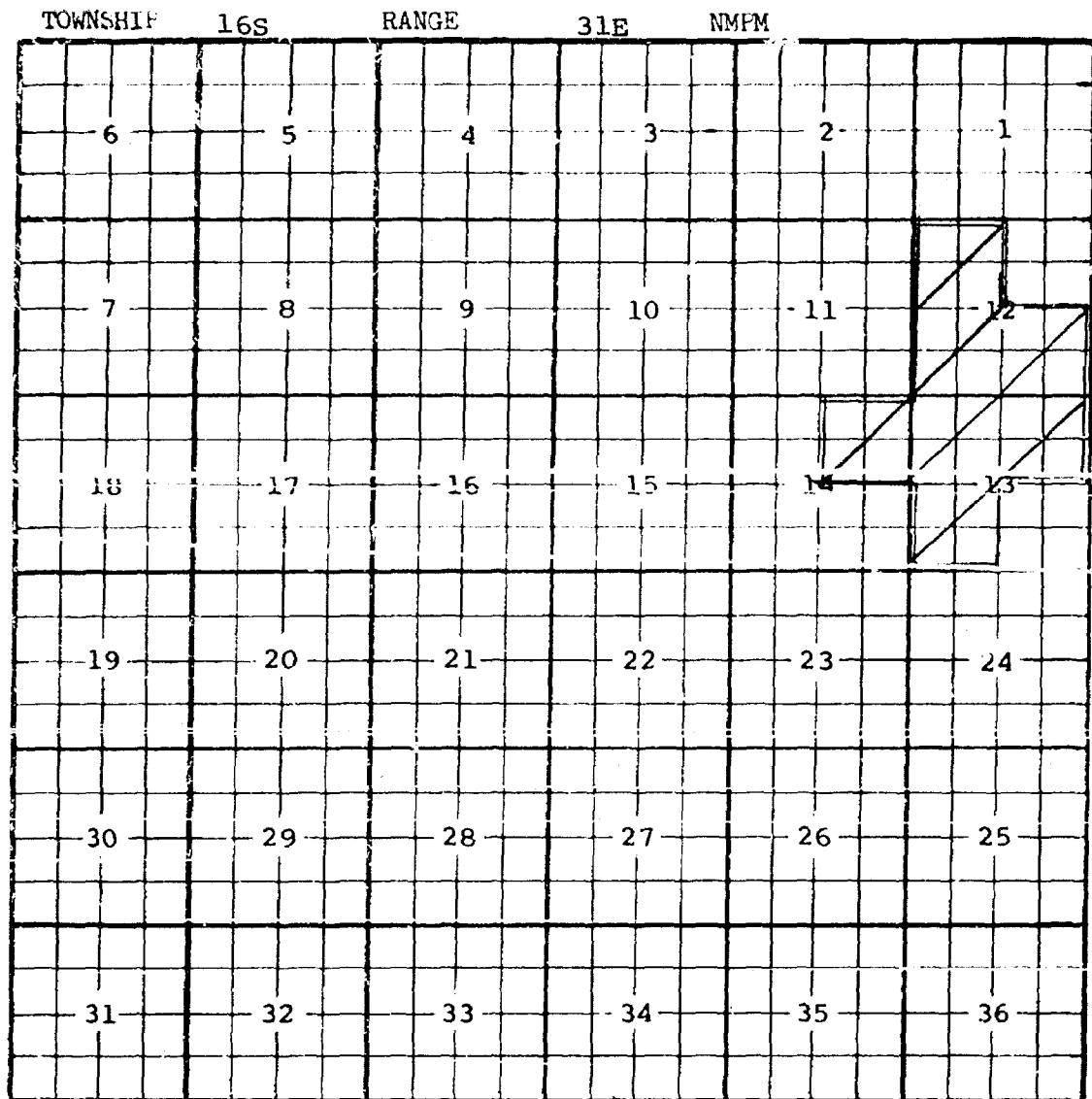
Section 30: NE/4 SE/4

CASE 3528: (t) ABOLISHMENT OF AN EXISTING GAS POOL

COUNTY Eddy

POOL

West Mesa-Upper Queen Gas



Purpose: That the West Mesa-Upper Queen Gas Pool be consolidated into the Mesa-Queen Pool.

Proposed abolishment colored in blue.

Section 12: W/2 & SE/4

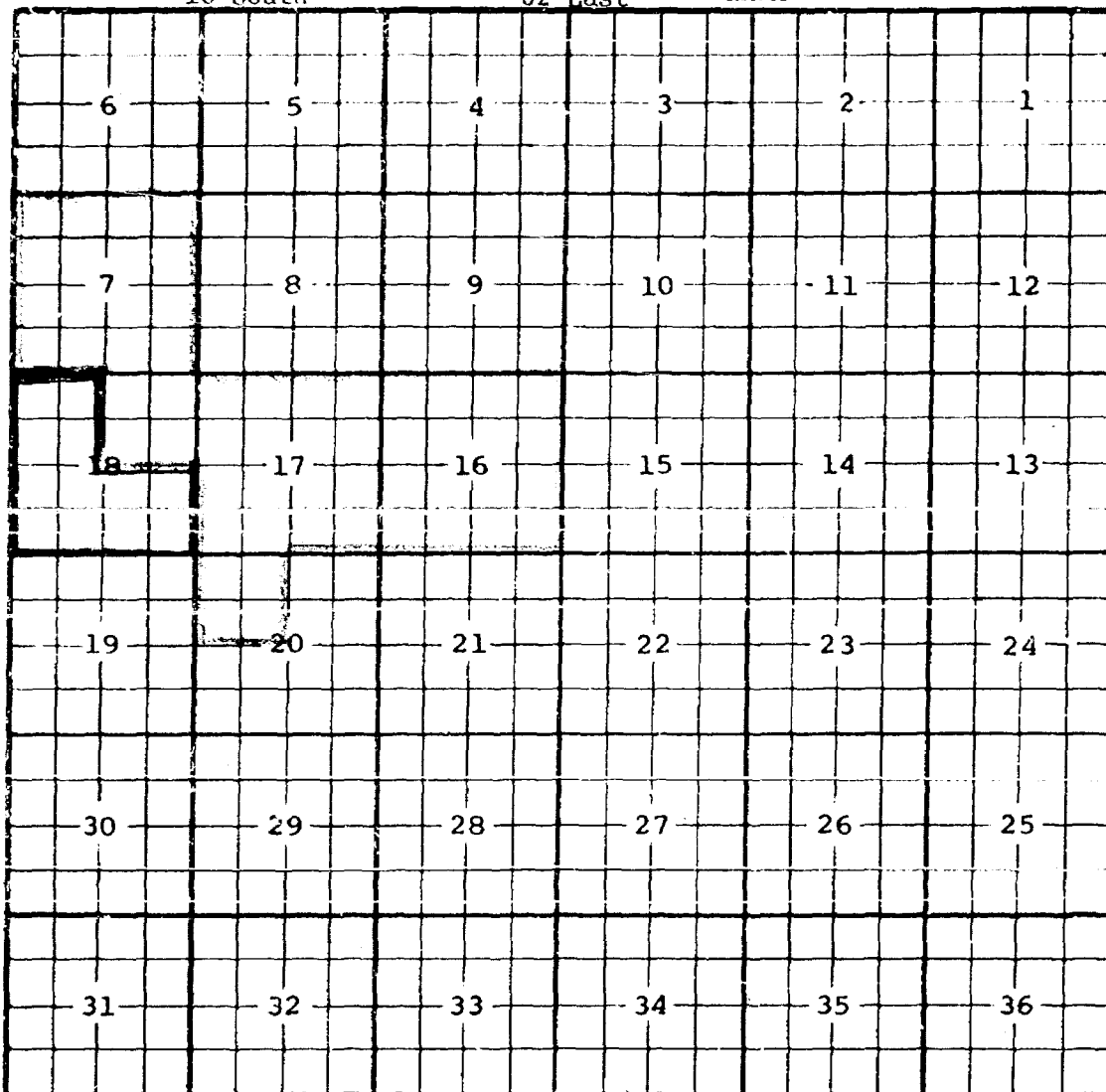
Section 13: N/2 & SW/4

Section 14: NE/4

CASE 3528: (u) EXTENSION OF AN EXISTING OIL POOL

COUNTY LEA POOL MESA-QUEEN

TOWNSHIP 16 South RANGE 32 East NMFM



PURPOSE: That the West Mesa-Upper Queen Gas Pool be consolidated into the Mesa-Queen Pool.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 18: NW/4 and S/2

CASE 3528: (u) EXTENSION OF AN EXISTING OIL POOL

COUNTY Eddy POOL Mesa-Queen

TOWNSHIP	16S	RANGE	31E	NMPM
6	5	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35

Purpose: To take in acreage formerly in the West Mesa-Upper Queen Pool, UPPER QUEEN FORMATION ONLY, and intervening acreage.

Pool boundary colored in red.

Proposed extension colored in green.

Section 12: All

Section 13: All

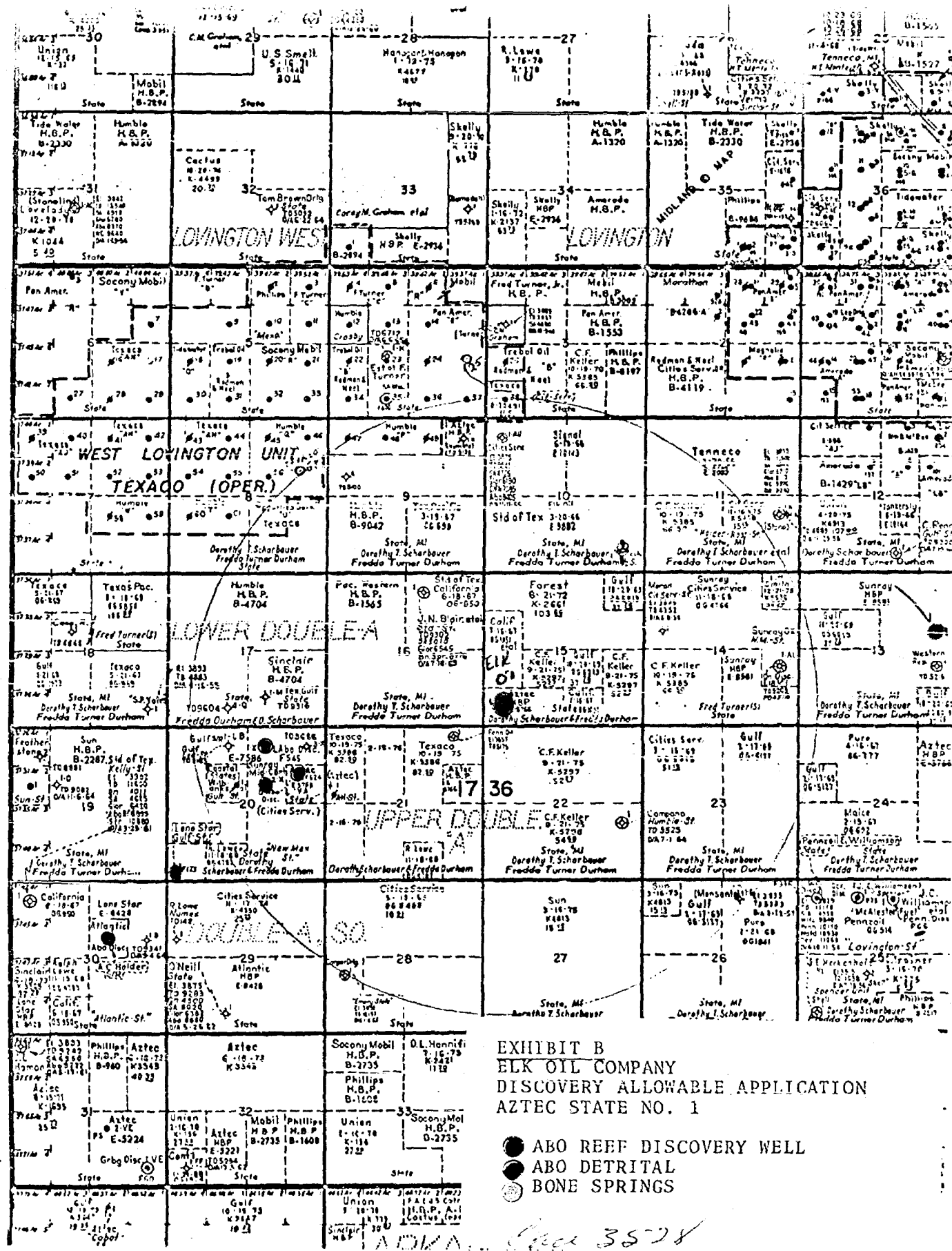
Section 14: NE/4

EXHIBIT D

Case
3528

SUMMARY OF RESERVOIR DATA - ELK OIL COMPANY
AZTEC STATE NO. 1
Sec. 15-17S-36E, Lea County, N.M.

Date of Discovery	January 4, 1967
Name of Producing Formation	Abo Reef
Virgin BHP psig	3450
G.O.R. Cu.ft. per bbl.	425
Average Porosity %	6.0
Average Permeability Md	42.0
Net Pay ft.	74.0
Crude gravity API	39



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NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

Form 1
Adopted 9-1-66

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509, C.
If discovery is claimed for more than one zone, separate forms must be filed for each.

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Case 3528

Operator ELK OIL COMPANY		Address P. O. Box 310, Roswell, New Mexico	
Lease Name AZTEC STATE		Well No. 1	County LEA
Well Location Unit Letter <u>M</u> ; <u>660</u> Feet from The <u>South</u> Line and <u>660</u> Feet From the <u>West</u> Line of Section <u>15</u> , Township <u>17S</u> , Range <u>36E</u> , NMPM			
Suggested Pool Names (List in order of preference) 1. <u>Emerald Abo</u> 2. <u>Easter Abo</u> 3. <u>Shannon Abo</u>			
Name of Producing Formation <u>Abo Reef (2)</u>		Perforations <u>9444 - 9480</u>	Date of Filing Form C-104 <u>1-10-67</u>
Was "Affidavit of Discovery" Previously Filed For This Well in this Pool? <u>No</u>		If Yes, Give Date of Filing	Date Well was Spudded <u>12-8-66</u>
			Date Compl. Ready to Prod. <u>1-4-67</u>
Total Depth <u>9626</u>	Plugged Back Depth <u>9608</u>	Depth Casing Shoe <u>9626</u>	Tubing Depth <u>9500</u>
Elevation (Gr., DF, RKB, RT, etc.) <u>3680 KDB</u>			
Oil Well Potential (Test to be taken only after all load oil has been recovered) <u>1118</u> Bbls, Oil Per Day Based On <u>1118</u> Bbls In <u>24</u> Hours; <u> </u> Bbls Water Per Day Based On <u> </u> Bbls In <u> </u> Hours; Gas Production During Test: <u>500</u> MCF; Gas-Oil Ratio: <u>425</u> Method of Producing: <u>Flow</u> Chk. Size <u>32/64</u>			

NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and present oil or gas producing areas and zones whether this discovery is based on horizontal or vertical separation):

Pool Name <u>Double A Abo</u>	Name of Producing Formation <u>Abo Detrital</u>	Top of Pay <u>9175</u>	Bottom of Pay <u>9200</u>	Currently Producing? <u>Yes</u>
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Pool <u>1 1/4 mile SW</u>		Vertical Distance from Subject Discovery Zone to Producing Interval this Pool <u>270'</u>		

NEAREST COMPARABLE PRODUCTION (Includes past and present oil or gas production from this pool or formation only):

Pool Name <u>Vacuum Abo Reef (1)</u>	Top of Pay <u>8900</u>	Bottom of Pay <u>9000</u>	Currently Producing? <u>Yes</u>
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Comparable Pool <u>5 miles southwest</u>			

Is "County Deep" Discovery Allowable Requested for Subject Discovery Well?	If Yes, Give Name, Location, and Depth of Next Deepest Oil Production in this County <u>No</u>
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DOCKET MAILED

Is the Subject Well Multiple Completion?	Is Discovery Allowable Requested for other Zone(s)?	If Yes, Name all Such Formations
<u>No</u>	<u>No</u>	

Date 2-2-67

9444
47,220

LIST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF THIS WELL (Attach additional sheet if necessary)

NAME	ADDRESS
Amerada Petroleum Corp.	Box 668, Hobbs, New Mexico
Texaco, Inc.	Box 728, Hobbs, New Mexico
Tidewater (Pac. Western)	Box 547, Hobbs, New Mexico
M. M. Merritt	unknown
Texas Pacific Oil Co.	Box 1069, Hobbs, New Mexico
J. M. Kelly	Box 310, Roswell, New Mexico
Forest Oil Corp.	Box 4486, Midland, Texas
Gulf Oil Corp.	Box 670, Hobbs, New Mexico

Attach evidence that all of the above operators have been furnished a copy of this application. Any of said operators who intends to object to the designation of the subject well as a discovery well, eligible to receive a discovery allowable, must notify the appropriate District Office and the Santa Fe Office of the Commission of such intent in writing within ten days after receiving a copy of this application.

Remarks:

Exhibit A - Plat 1"= 1000'
Exhibit B - Plat 1"= 4000'

Exhibit C - Geological Cross Section
Exhibit D - Summary of Reservoir Data
Exhibit E - Electric Log

CERTIFICATION

I hereby certify that all rules and regulations of the New Mexico Oil Conservation Commission have been complied with, with respect to the subject well, and that it is my opinion that a bona fide discovery of a hitherto unknown common source of oil supply has been made in said well. I further certify that the discovery allowable for the subject well, if authorized, will be produced from the subject zone in this well only. Further, that the information given herein and attached hereto is true and complete to the best of my knowledge and belief.

L. H. McPherson

Agent

January 24, 1967

Position

OPERATORS OWNING LEASES WITHIN ONE MILE - Continued

Sunray DX Oil Co.
Aztec Oil & Gas Co.

Box 1416, Roswell, New Mexico
Box 847, Hobbs, New Mexico