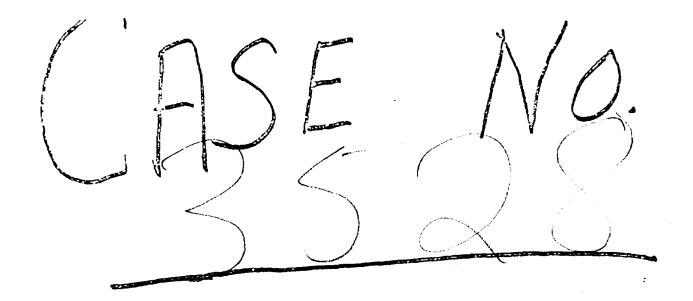
CASE 3528:

SOUTHEASTERN NEW MEXICO NOMENCLATURE



APPlication, Transcripts, SMAIL 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 CREATINC, 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 if 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-Blinebry 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 FAST, 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 8 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

(1) 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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Order No. R-3195

(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

SEAL

esr/

Case 3528

Name

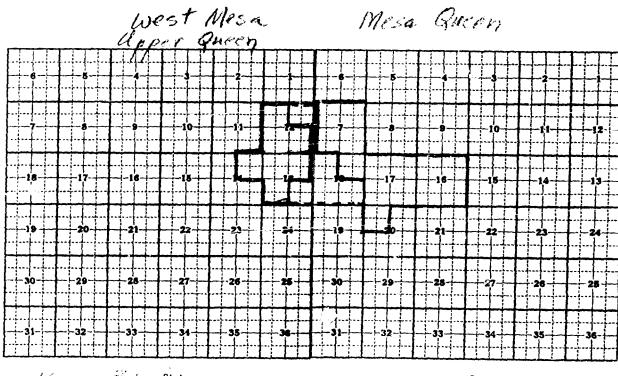
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In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order for the creation of new pools in Chaves, Eddy, and Lea Counties, New Mexico, and the extension of certain existing pools in Eddy, Lea, 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;

b) 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

4) 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

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

(A) 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

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

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

 \hbar) 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

(1) 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

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

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

MY) 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

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

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

(R) EXTEND the Middle Lanc-Permo Pennsylvanian Pool in Lea County, New Mexico, to include therein:

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

EXTEND the Lazy J-Pennsylvanian Pool in Lea County, New Mexico, to in-

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

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

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

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

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

(5) 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

(t) abolish the house money deleased and and appearing the faccowing deleased and and appearing to 2ddy Consitty, Mer Standards:

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See 12: NW/4 & 5/2

See 18: NE/4

See 18: NE/4

(m) Extend Man Musica Queen North in the Queen formation in the queen formation in the factorising and in That queen Township 16 South Rouge 32 East NATION 500 18: NW/4 & 3/2 32 East NATION ON South 18: NW/4 & 3/2

and to include the Upper Que or gas Payout, in the Edder Courth:
Town life 16 South, Range of East NMPM

Sec 12: all car 12: all sec 14: NEJak

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 Mackberry 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 <u>County classified</u> 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

(1) 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:

-5-February 15, 1967 Regular Hearing

Docket No. 5-67

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 8. HAYS MEMBER



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

P. O. BOX 1980 новыя January 24, 1967

Care \$528

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
District Geologist

JWR:fd

Refere MU 4-8127

Robert A. Dean

SUITE 823 MIDLAND TOWER MIDLAND, TEXAS 79701

February 9, 1967

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 wince there is no liquids produced from these gas wells.

Respectfully yours,

Hollert a. Doan

(s 3528
(n) \$(t)

Paragraphs (n) \$(t)

Robert A Dean

RAD/kd

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
February 15, 1967

REGULAR HEARING

IN THE MATTER OF:

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.

Case 3528

BEFORE:

David F. Cargo, Governor

A. L. "Pete" Porter, Secretary-Director
Guyton Hays, Land Commissioner



Transcript of Hearing

dearnley-meier

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.

(mitmess sworn)

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

FXAMINATION

BY MR. HATCH:

- Would you state your name and position for the record, please?
- Λ 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?
 - Α Yes, sir.
 - 0 Are your recommendations prepared in the form of



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HEROUE, NEW MEXICO 87101

an exhibit?

- Λ Yes, they are.
- Is that Exhibit No. 1?

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 guarter 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 E1k 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.



dearnley-meier

ECIALIZING IN: DEPOSITIONS HEARINGS ATAYS MENTS

dearnley-moler recording sorting

1120 SIMMS BUDG. • P.O. BOX 1072 • PHONE 243-6691 • AIEUQUERQUE, NEW MEXICO 87101 1205 FIRST NATIONAL BAPK EAST • PHONE 256-1294 • AIBUQUERQUE, NEW MEXICO 87108 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 Fange 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



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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.

- Do vou 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.
- Ω 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?



1120 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243 6691 • AL WQUERQUE, NEW MEXICO 87101 1205 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALB! QUERQUE, N°W MEXICO 87108

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATE ME 4TS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

MR. NUTTER: Yes, sir.

MR. PORTER: Witness may be excused.

(Witness excused)

STATE OF NEW MEXICO)

COUNTY OF PERMALILLO)

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

Court Reporter



NEW POOLS
a) It is recommended that a new <u>oil</u> pool be created and designated as the
EMERALD-ABO Pool.
Vertical limits to be the <u>Abo</u> 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 ownship 17 Range 36 and was completed on
January 4, 1967 WELLE HOLD HOLD HOLD HOLD HOLD TOP OF
perforations is at 9444 feet.
b) It is recommended that a new $g_{\mathbf{dS}}$ pool be created and designated as the
DAGGER DRAW-ATOKA GAS Pool.
Vertical limits to be the <u>Atoka</u> formation and the horizontal
limits should be as follows: As shown in Paragraph (b), Exhibit J
Discovery well was Standard Oil Company of Texas - Cass Ranch Federal #1
located in Unit p Section 3 Township 20Range 24and was completed on
May 19, 1963
perforations is at <u>9712</u> reet.
c) It is recommended that a new gas pool be created and designated as the
HACKBERRY HILLS-CANYON GAS POOT.
Vertical limits to be the <u>Canyon</u> formation and the horizontal
limits should be as follows: Ash shown in Paragraph (c), Exhibit I
Discovery well was Sinclair Oil & Gas Company - Hackberry Hills Unit #1
located in Unit 0 Section 1 Township 22 Range 25 and was completed on
August 15, 1961 with the health has health has health health health has health health has health has health has health health has health had health has health has health had health had health had health had health had he
perforations is at 9622 feet.

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NEW POOLS
d) It is recommended that a new <u>GAS</u> pool be created and designated as the
EAST HACKBERRY HILLS-CANYON GAS Pool.
Vertical limits to be the <u>Canyon</u> 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
75.75 19 1966 ###\$# ##\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$
perforations is at 10,061 feet.
e) It is recommended that a new oil pool be created and designated as the
•
SOUTH LUSK-WOLFCAMP Pool.
Vertical limits to be the <u>Wolfcamp</u> 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 #
located in Unit
December 1, 1966 wifs計場計場計場計場計場計場計場計場計場計場計場計場計場計場計場計場計場計場計場
perforations is at 10.719 feet.
on the language and a death a many and the appeal and death and the state
$_{ m f}$) It is recommended that a new $_{ m gas}$ pool be created and designated as the
PADIICA-DEVONIAN GAS Pool.
Vertical limits to be the <u>Nevonian</u> formation and the horizontal
limits should be as follows: Ashshown 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 ###\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#\$#
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 <u>San Andres</u> formation and the horizontal
limits should be as follows: As shown in Paragraph (g), Exhibit I
Discovery well was Tom L. Ingram 4 State A #1
located in Unit O Section 26 Township 8 Range 32 and was completed on
November 28, 1966 %
perforations is at 4242 feet.
It is recommended that a newpool be created and designated as the
Pool.
Vertical limits to be theformation and the horizontal
limits should be as follows:
Discovery well was
located in UnitSectionTownshipRangeand was completed on
with an initial potential of BOPD/MCFGPD. Top of
perforations is atfeet.
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 UnitSectionTownshipRange and was completed on
with an initial potential of BOPD/MCFGPD. Top of
perforations is atfeet.

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

COUNTY LEA POOL EMERALD-ABO TOWNSHIP RANGE NMPM 17 South - 4 -б 8 -10 -- 11 --18 -17 --16 т<u>т</u>5 14 --13-20 -- 21--19 22-23-24 29-- 26 25 -30 28 -27 35 -32 -- 33 --34. 36 -31-PURPOSE: One completed oil well capable of producing. FLK 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

MOWNSHIP	20 s	RANGE	24E	NMPM		
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31-	32	33-	34		35	36
cpose:	One compl	eted gas	well car	able of	produci	ng.
						nch Federa
in unit	F of Sec	tion 3-20)-24. Co	mpleted	in Atok	a, May 19,
ough pe	rforation	s 8712' t	to 8721'.			
posed p	ool bound	lary color	ced in gr	een.		
		Section 3				

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

COUNTY E	ddy	POOL Ha	ckberry Hi	lls-Canyon	Gas
TOWNSHIP	22S	RANGE	25E	NMFM	
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19	20	21-	22	23	24
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30	29	28	27	26	25
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31	32	33	34-	35	36
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Purpose:	One comple	eted gas w	vell capab	le of produ	cing.
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					y Hills Unit
#1 in unit	through pe	rforation	os 9622' to	9654',	nyon, August
Proposed p	ool bounda	ry colore	ed in greet	n.	**
					
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CASE 3528: (d) CREATION OF A NEW GAS POOL

COUNTY E	ddy	POOL I	East Hackb	erry Hills-	Canyon Gas
TOWNSHIP	228	RANGE	26E	NMP M	
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COUNTY LEA

POOL SOUTH LUSK-WOLFCAMP TOWNSHIP 9 South RANGE MMPM6 -4 - 8 10 --12 - 11 -16 -18 15 -14 13--19 - 20 -21-- 22 -- 23-24-26-30 29 27 -32 -- 33 -34-35 36 31-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 POOL LEA PADUCA-DEVONIAN GAS TOWNSHIP RANGE 32 East 25 South NMPM - 5 4 8 -10 -- 11 -12 --17 --16 --- 15 -14 --13-- 20 ·--21--19 - 22 -- 23-24 -30 -29~ 27-- 26-25-28-32 -- 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. SICTION 18: NW/4

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

COUNTY CHAYES POOL WEST TOBAC-SAN ANDRES TOWNSHIP RANGE - 2-··· 4 10 - 1 - 8 -9 -- 11 --12 -18 --16 -- 15 -14 --13--19 20 21-22-- 23-24 - 29 -25 --30 28 -- 27 — - 26-32 -- 31-- 33 -- 34 -36 PURPOSE: One completed oil well capable of producing. TOM L. INGRAM - State A #1 in Unit O 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

COUNTY	Eddy	POOL	Artesia		
TOWNSHIP	19S	RANGE	28E	NMPM	
7 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19	195	-16	28E	NMFM 2- 11 - 14 - 23 - 23 - 23 - 23 - 23 - 23 - 23 - 2	-12
Depco Inc Completed 2052' to Pool boun	., State 64 in Graybur 2103'. dary colore	48 #215 in eg, Octobe ed in red	n unit K o er 11, 196		-19-28. perforations
	Sec			& NE/4 SW/4	

CASE 3528: (1) EXTENSION OF AN EXISTING GAS POOL COUNTY Eddy POOL Atoka-Pennsylvanian Gas . 18s TOWNSHIP RANGE 26E NMPM - 5 3~~ 8 10 -- 21-- 22 -24-29 - 28 26 25 -- 33 -- 35 -- 31-- 32 -- 34 -- 36 -

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, Octob	
1, 1966, through perforations 8958' to 8982'.	,01
Pool boundary colored in red. Proposed extension colored in green.	
Section 15: N/2	

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

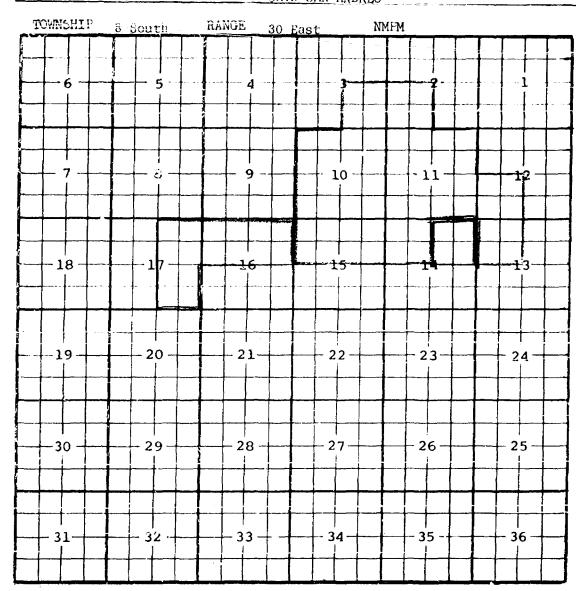
COUNTY LEA POOL NORTH BAGLEY-UPPER PENNSYLVANIAN

TOWNSHIP 11 South RANGE **NMPM** 8 10 -- 11 -12 - 18 --17-14 15 -13-- 20 --19 22-24 29 26 25 30 31-32 -- 33 -35 34-36 PURPOSE: Two completed oil wells capable of producing. SOUTHLAND ROYALTY COMPANY - Graham State #1 in Unit 0 of Section 3-11-33. Completed in Upper Pennsylvanian on October 30, 1966. Top of Perforations 95561. STOLTZ & COMPANY - Collier #1 in Unit F of Section 9-11-33. Completed in Upper Pennsylvanian on December 1, 1966. Top of Perforations 95371. 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 Edd	dy-Strawn	
TOWNSHIP	20S	RANGE	31E	NMPM	
7	8-	9		0 -11	112
19	-20	21	2:		
30	29	28 -	2	7 - 26	25
Purpose: 0	One comple	ted oil	well cap		

Pan American Pet. Corp., Big Eddy Unit No.10 in unit K of Section 19-20-31. Completed in Strawn, October 12, 1966, through perform 11,372 to 11,399.	
Pool boundary colored in red.	
Proposed extension colored in green.	
Section 19: SW/4	



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 CCRPORATION - Grosby "17" #2 in Unit J of Section 17-8-30.

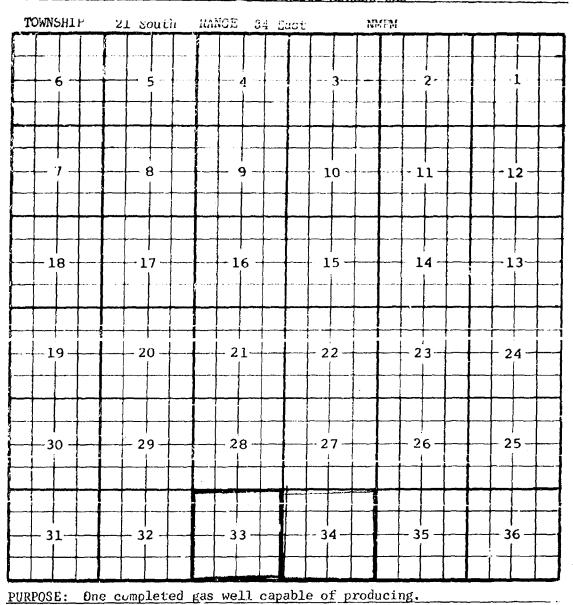
Completed in San Andres on January 22, 1967. Top of Perforations 3267...

Pool boundary colored in red.

Proposed pool_xtensions colored in green. Sb. 10N 14: NE/4

ADDITION--SECTION 178E/4 SECTION 17: NE/4

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



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
LEA POOL JUSTIS-BLINEBRY

- 18 17 16 15 14 1 - 19 20 21 22 23 2	NOWNSHIF	24 South	RANGE 37 East	NMFM	
-7 - 8 - 9 - 10 - 111 -18 - 17 - 16 - 15 - 141 -1920 - 21 - 22 - 23 - 2		K			
-7 - 8 - 9 - 10 - 111 -18 - 17 - 16 - 15 - 141 -1920 - 21 - 22 - 23 - 2					
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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'.

Paol houndary 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 PENNSYLYA	MIAN
TOWNSHIP	10 South	RANGE	33 East	NMPM	
6	5	4	3-	2	1
7	8 -	9	10	11	-12
18	17	16	1,5	14	-13
19	20	21-	22-	23	24
30	29	28	27-	26	25
31	32	33	34-	35	36
PURPOSE: On THE LOUISIAN 14-10-33. (Perforations	ne completed on NA LAND & EXP Completed in 1 3 9692'.	oil well LORATION Permo Pe	COMPANY - St nnsylvanian o	eroducing. tate 14 #2 in Un on December 19,	it O of Section
pl Pool boundar Proposed poo	eted in Bough y colored in l extensions	red.	in green. S ADDITIONS	I of Section 15 67. Top of Per ECTION 14: SE/	forations 9665

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

COUNTY LEA POOL LAZY J-PENNSYLVANIAN TOWNSHIP 14 South RANGE 33 East MYPM 9 -10 -8 -- 11 -- 18 --17 --16 -15-14 --19 20 -21-22 ---23 24 - 28 -- 26 --30 - 29 --27-- 25 -31-32 -33~ 34-35 -36

PURPOSE: One completed oil well capable of producing. TEXACO, INC. - New Mexico "AO" 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

COUNTY E	ddy	POOL	Malaga		
TOWNSHIP	24\$	RANGE	28E	NMPM	
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18	17-	16	15	14+	
}					
19	20	21	22	23	
30	29	28	27	26	25
30	29	28	2,	20 7	23
31	32	33	31	35	36
Bassas a man	Andread and a	4 m e2 m e3 1 m		lo of produ	oloskostostos vaina
Purpose:	One compte	cea orr	METI Caban	te or broad	icinq.
Gun Oil Go	C	Dood #1	in unit E	of Coation	24-24-29
				6, in open	24-24-28. hole from
2645' to 2					
					•
	ary colore				
Proposed e	xtension co				
			E/2 SW/4		
	Sec	tion 24:	NW/4		
			· · · · · · · · · · · · · · · · · · ·	<u></u>	

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

COUNTY LE	A POOL	OSUDO-MORROW GA	S
TOWNSHIT H. 8	21 Soulth / RANGE		NMPM
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}			
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		+	
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19	202	1 22	23 24
30	29 2	8	26 - 25 -
	1 1 1		25 26
31	32 - 3	3 - 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 11,2661. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 6: Lots 1, 2, 7, 8,

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

COUNTY Eddy POOL Scanlon-Delaware

TOWNSHIP	20 <i>s</i>	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 TOWNSHIP RANGE NMPM 16s 31E 9 10 -8 --11 14 15 20 -21-23 24 22 -30 - 29 28 27 26 -25 35 31-32 -- 33 34-36 -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

POOL MESA-QUEEN COUNTY LEA TOWNSHIP 16 South RANGE 5 -6 -- 8 -- 9. 10 --12-- 11 --17-- 15 -14 -- 16 --13--19 -∽20 -21-22 23-24--30 29-- 28 27-26-25 - 32 -- 33 -- 34 -35 -31-- 36 -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 RANGE NMPM 8 -9 -10 ~ - 11 --12-15 - 18 -16 13 -17 - 21-- 20 --19 - 22 -- 23-- 24--30 29 28 - 27 26 25 -31 32 -- 33 -- 34 -- 35 36 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

Ensl 3528

EXHIBIT D

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

25 P	12 15 49 (G)	्रिके	J		0.1505
inign inign in the same	U.S.Smell.	Hanszart Honogen E-13-73 R4679	R.Lawe L 9-16-20 R-110	And Tehneco	Tenneco, MI MU-1527
HED Mobil H.B.P. State 6-7294	. 1	Seque_	Store	195195 Store Services	PINE STORY
1 1 de Wolse Humble H.G.P. H.B.P. A. 1120		Skelly 9-20-k 11-77	Hunble M.B. P. A-1370	HEF. H.S.P. Tige Water Shell,	. St. 1. 5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
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feother Sun stone H.B.P. B-2287. Std of Tex.	Guiranit B. 103cts Gur V IX Labo Disc. 61-65 E-7586 F545	Teroco (0.19-75 Texaco (0.19-75 82-19 K-1986 A) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Fenn Da 13/837 18875 C.F. Keller 8 • 21 • 75	Cities Serv. Gull 1-15-151 3-17-15 51-23 51-23	4-16-67 Aztec 46-177 HBP Gulf -
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3)	Union i Mobil Phillips 1-16-10 Artec HBP HBP	Union SoconyMol	AZTEC STATE 1		•
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Trans 3 19 2 11'ec Copper	4 182647 A	Simple A CLAS	Cac 35	-28	
•	' .	1 - 1 75 Amil 168 18 E.	. 5 6.60		

APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

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

		JAN 24 1	43 PM '67	
Operator	Address		43 11 01 Ace 35	
ELK OIL COMPANY			11, New Mexico	
AZTEC STATE	well No.	County		
Well Location M Unit Letter M 000	Feet from The	South	660 Feet	
From the West Line of Section 15 Township	17S		36E . NMPM	
Suggested Pool Names (List in order of preference)				
Name of Producing Formation Perforations Research	ADO	3. Shai	nnon Abo Date of Filing Form C-104	
Abo Reef (2) 9444 - 9480 Was "Affidavit of Discovery" Previously Filed If Yes, Give Date of Fill For This Well in this Pool?	na Date W	Vell was Spudded	1-10-67 Date Compl. Ready to Prod.	
No		12-8-66	1-4-67	
Total Depth Plugged Back Depth Depth Casing S	Shoe Tubing	· · · · · · · · · · · · · · · · · · ·	ration (Gr., DF, RKB, RT, etc.)	
9626 9608 9626 Oil Well Potential (Test to be taken only after all load oil has been recove	redi	9500	3680 KDB	
1118 Bbls, Oil Per Day Based On 1118 Bbls in 2	24 Hours;	Bbls Water Per C	Day Bused OnBbls	
In Hours; Gas Production During Test: 500 M	Gas-Oil 42	5 Method Of F10	OW Size 32/64	
NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and present				
tal or vertical separation): Pool Name Name of Froducing Formation	Top of Pay	Boltom of Pay	Currently Producing?	
Double A Abo Abo Detrital Harizontal Distance and Direction from Subject Discovery Well to the Neurost Well in this Pool	9175			
Nearest Well in this Pool 1 1/4 mile SW	Pool	70 1	y Zone to Producing Interval this	
NEAREST COMPARABLE PRODUCTION (Includes pres and process off as a			•	
Post Name	Top of Pag	Bullium of Pay		
Vacuum Abo Reef (1) Horizontal Distance and Direction from Subject Discovery Well to the Near	8900	9000	Yes	
5 miles southwest			·	
Is "County Deep" Discovery Allowable If Yes, Give Name, Location, and Requested for Subject Discovery Well?	Depth of Next De	epest Oil Froduction in th	nis County	
No			- att 4 4-	
	DOCKE	MAILED	9715	
Is the Subject Well Multiple Completion? Is Discovery Allowable Requested for other Zone(s)? NO NO NO NO NO NO NO NO NO N	ch Formalions	2/4		
	Date 2	-2-6/	11220	
LIST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF THIS WE	LL (Attach additio	nal steet if necessary)	4/)	
NAME		ADDRESS		
Amerada Petroleum Corp.	Box 66	8, Hobbs, New	Mexico	
Texaco, Inc.	Box 72	Box 728, Hobbs, New Mexico		
Tidewater (Pac. Western)	Box 54	Box 547, Hobbs, New Mexico		
M. M. Merritt	unknowi	unknown		
Texas Pacific Oil Co.	Box 100	59, Hobbs, New	w Mexico	
J. M. Kelly	Box 310, Roswell, New Mcxico			
Forest Oil Corp. Gulf Oil Corp.		Box 4486, Midland, Texas 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 wall 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 C - Geological Cross Section			
	Exhibit B - Plat 1"= 4000'	Exhibit D - Summary of Reservoir Data			
1		Exhibit E Electric Log			
	CERTIFICATION				

I hereby certify that all rules and regulations of the New Mexico Oil Conservation Commission have been compiled with, with respect to the subject well, and that it is my opinion that a become ide 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 sutherized, 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.

Kil Milderd Mc

Agent	January	0 / - 25
Provide to the	4	

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