

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
April 17, 1957

IN THE MATTER OF:

Case No. 1238

TRANSCRIPT OF HEARING

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

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
April 17, 1947

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IN THE MATTER OF:

Southeastern New Mexico nomenclature case calling for the creation or abolishment of certain pools and the extension of the horizontal and vertical limits of certain existing pools in Lea, Chaves and Eddy Counties, New Mexico.

(a) Creation of a new oil pool for Pennsylvanian production, designated as the East Anderson Ranch-Pennsylvanian Pool, and described as:

Township 16 South, Range 33 East  
Section 3: Lots 7, 8, 9, and 10

(b) Creation of a new oil pool for Drinkard production designated as the Arrowhead-Drinkard Pool, and described as:

Township 21 South, Range 36 East  
Section 36: SW/4

(c) Creation of a new gas pool for Pennsylvanian production, designated as the Red Lake-Pennsylvanian Gas Pool, and described as:

Township 18 South, Range 27 East  
Section 5: All.

(d) Extension of the Caprock-Queen Pool to include:

Township 12 South, Range 32 East  
Section 21: SW/4

Township 14 South, Range 31 East  
Section 17: NW/4

(e) Extension of the Corbin Pool to include:

Township 18 South, Range 33 East  
Section 5: W/2 NW/4

(f) Extension of the Crosby-Devonian Gas Pool to include:

Township 25 South, Range 37 East  
Section 32: NE/4

- (g) Extension of the Empire-Wolfcamp Pool to include:

Township 17 South, Range 28 East  
Section 29: W/2

- (h) Extension of the Eumont Gas Pool to include:

Township 19 South, Range 37 East  
Section 15: SW/4  
Section 22: E/2 SW/4  
Section 27: NE/4

- (i) Extension of the North Gladiola-Devonian Pool to include:

Township 12 South, Range 38 East  
Section 6: SE/4  
Section 7: NE/4

- (j) Extension of the West Henshaw-Grayburg Pool to include:

Township 16 South, Range 30 East  
Section 4: SW/4  
Section 8: SE/4  
Section 9: W/2  
Section 17: N/2 NW/4

- (k) Extension of the Jalmat Gas Pool to include:

Township 22 South, Range 35 East  
Section 23: SE/4

- (l) Extension of the Langlie-Mattix Pool to include:

Township 26 South, Range 38 East  
Section 6: NW/4

- (m) Extension of the Lea Pool to include:

Township 20 South, Range 34 East  
Section 15: SE/4

- (n) Extension of the North Shoe-Bar Devonian Pool to include:

Township 16 South, Range 35 East  
Section 15: S/2 NE/4

- (o) Abolish the Shugart-Grayburg Pool in Eddy County, New Mexico.
- (p) Redefine the vertical limits of the Shugart Pool in Eddy County, New Mexico, to include the Yates, Seven Rivers, Queen and Grayburg formations.
- (q) Extension of the Square Lake Pool to include:  
Township 16 South, Range 29 East  
Section 36: W/2 NE/4
- (r) Extension of the Warren-McKee Pool to include:  
Township 20 South, Range 38 East  
Section 20: S/2 NW/4
- (s) Extension of the Young Pool to include:  
Township 18 South, Range 32 East  
Section 16: SW/4 and S/2 NW/4

Case No. 1238

Before:

Honorable E. L. Mechem  
 Mr. A. L. Porter  
 Mr. Murray Morgan

TRANSCRIPT OF HEARING

MR. PORTER: We will proceed with Case No. 1238.

JOHN W. RUNYAN

having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY: MR. COOLEY:

Q State your name and position please.

A John W. Runyan, geologist for the Oil Conservation Commission.

Q Mr. Runyan, have you previously been qualified as an expert witness before this Commission?

A I have.

Q In you capacity as a geologist for the Oil Conservation Commission, have you had an opportunity to make a study for the creation of a new pool for oil production from the Pennsylvanian formation in Township 16 South, Range 33 East?

A I have.

Q What are your recommendations in that regard?

A I recommend that a new pool be created called the East Anderson Ranch-Pennsylvanian Pool due to the completion of Humble Oil and Refining Company's New Mexico State AQ No. 1 in Lot 9 of Section 3, Township 16 South, Range 33 East, completed on February 24, 1957, in the Pennsylvanian. Top of perforation being 10,960.

Q Have you made a study of the creation of a new pool for oil production in the Drinkard formation, Township 21 South, Range 36 East?

A I have, yes, sir. I recommend that a new pool be created called the Arrowhead-Drinkard Pool due to the completion of Gulf Oil Corporation's Harry Leonard "C" No. 10 in Unit N of Section 36, Township 21 South, Range 36 East, completed in the Drinkard on February 1, 1957, top of perforation 6,555 feet.

Q Have you made a study concerning the creation of a new gas pool for gas production from the Pennsylvanian formation in Township 18 South, Range 27 East?

A Yes, I recommend that a new pool be created called the Red Lake-Pennsylvanian Gas Pool due to the completion of Humble Oil and Refining Company's S. M. Compton No. 1 in Unit K of Section 5, completed in the Pennsylvanian on March 29, 1956. It is open hole completion, and the DCS is 9,488 feet.

Q Do you have any recommendations concerning the extension of the Caprock-Queen Pool?

A Yes, sir, I have. I recommend that it be extended as advertised.

Q What are your recommendations with regard to the Corbin Pool?

A I recommend that it be extended as advertised.

Q Do you have any recommendations concerning the Crosby-Devonian Gas Pool?

A I recommend it be extended as advertised.

Q What are your recommendations with regard to the Empire-Wolfcamp Pool?

A I recommend that it be extended as advertised.

Q Do you have any recommendations concerning the Eumont Gas Pool?

A Yes, sir, I recommend that it be extended as advertised, and also an unadvertised part, that being the East Half of the Southwest Quarter of Section 26, in Township 19 South, Range 37 East, and the West Half of the Southwest Quarter in Section 26, Township 19 South, Range 37 East.

MR. PORTER: The areas outlined in green on our exhibit were advertised?

A That is correct.

MR. PORTER: Thank you.

Q (By Mr. Cooley): What are your recommendations concerning the North-Gladiola Devonian Pool?

A I recommend that it be extended as advertised and also two unadvertised portions, those being the Northwest Quarter of Section 32, Township 11 South, Range 38 East, and the East Half of Section 5, Township 12 South, Range 38 East.

Q Do you have any recommendations concerning the extension of the West Henshaw-Grayburg Pool?

A I recommend that it be extended as advertised.

Q What are your recommendations concerning the Jalmat Gas Pool?

A I recommend that it be extended as advertised and also an unadvertised portion, being the East Half of Section 3, Township 26 South, Range 37 East.

Q What are your recommendations concerning extension of the Langlie-Mattix Pool?

A I recommend that it be extended as advertised.

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

A I recommend that it be extended as advertised.

Q What are your recommendations concerning the extension of

the North Shoe-Bar Devonian?

A I recommend that it be extended as advertised.

Q Mr. Runyan, do you have any recommendations concerning the Shugart Grayburg Pool in Eddy County, New Mexico?

A I recommend that the pool be abolished as advertised.

Q Do you have any recommendations concerning the redefinition of the Shugart Gas Pool limits in Eddy County, New Mexico?

A I recommend that the vertical limits of the Shugart Pool be extended to include the Yates, Seven Rivers, Queen, and Grayburg Formations.

Q Mr. Runyan, do you have any recommendations concerning the Square Lake Pool?

A I recommend that it be extended as advertised and also an unadvertised portion, that being the Southwest Quarter of Section 10, Township 17 South, Range 30 East.

MR. PORTER: Pardon me, did you say the Southwest Quarter of Section 10?

A Pardon me, I am sorry, it is the Northwest Quarter.

MR. PORTER: Of Section 10?

A Of Section 10.

Q (By Mr. Cooley): What are your recommendations concerning the Warren-McKee Pool?

A I recommend it be extended as advertised.

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

A I recommend that it be extended as advertised.

Q Do you have any further recommendations in this case?

A No, sir.

Q Are your exhibits lettered "A" through "S"?

A That is correct.

MR. COOLEY: I move that the Commission accept Exhibits A through S in this case to substantiate the recommendations of the witness.

MR. PORTER: Were these exhibits prepared by you and under your supervision?

A Yes, sir.

MR. PORTER: Without objection, they will be admitted. Does anyone have any questions of Mr. Runyan? Mr. Mankin.

#### CROSS EXAMINATION

BY: MR. MANKIN:

Q Mr. Runyan, in a portion of this case, you indicated abolishment of the Shugart Grayburg Pool. Was that occasioned by adding the Grayburg into the Shugart Pool and the area, horizontal area was the same, and therefore would allow you to abolish the Shugart Grayburg Pool, is that correct?

A The main reason for the abolishment of that particular pool, the Shugart Grayburg, was due to -- in checking on wells within the Shugart, Yates, Seven Rivers, and Queen Pools, there was found to be several old wells which had been, and were producing from the Grayburg formation, and due to the fact that these were already

producing from this pool, the Shugart Grayburg Pool was abolished those wells were included in the Shugart, Yates, Seven Rivers, Queen and Grayburg Pool, with the extension of the vertical limits of the Grayburg Formation to that.

Q So all wells that were completed in the Shugart Grayburg Pool are within the horizontal area as has been defined in the Shugart Pool, is that correct? A Yes, sir.

MR. MANKIN: That is all.

BY: MR. NUTTER:

Q Mr. Runyan, referring to your recommendation for creation of pools in Paragraphs A, B and C, do you recommend that the horizontal limits of those pools be created as advertised?

A A, B, and C?

Q Yes, sir.

A That is, the --

Q The three new pools? A That is correct, yes, sir.

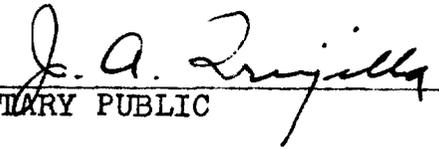
MR. NUTTER: Thank you.

MR. PORTER: Anyone else have a question of Mr. Runyan? If not, the witness may be excused. Does anyone else have anything further in this case? We will take the case under advisement.

STATE OF NEW MEXICO        )  
                                   )  
 COUNTY OF BERNALILLO        )        ss

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

WITNESS my Hand and Seal, this the 3rd day of May, 1957, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

  
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 NOTARY PUBLIC

My Commission Expires:

October 5, 1960