

BEFORE THE  
OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO

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TRANSCRIPTION OF HEARING

CASE NO. 281

21 June 1981  
(DATE)

BEFORE THE  
OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO

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Case 281: In the matter of the application of Continental Oil Company for an order granting permission for dual completion of its H. M. Britt A-6 No. 4 well, Monument-Paddock Pool, 6-20S-37E.

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(Mr. Graham reads the notice of publication.)

(Mr. Homer Dailey sworn.)

MR. SPURRIER: Mr. Dailey, you have qualified several times before this Commission, have you not?

MR. DAILEY: I have.

MR. SPURRIER: Do you want to go ahead and present your testimony?

MR. DAILEY: If that is satisfactory with you. I would like first to introduce as an exhibit a plat of the area.

MR. SPURRIER: Without objection, the exhibit will be received.

(Marked Exhibit A.)

MR. DAILEY: This is an application to dually complete under Rule 112, Section a, the Continental Britt A-6 No. 4 as a Bradenhead gas well. The well was completed in the Monument-Paddock Pool on November 20, 1950. The initial potential was 68 barrels of oil and 38 barrels of water per day through perforations from 5206 to 5218. As our next exhibit I would like to present a copy of the radio activity log run on this well.

MR. SPURRIER: Without objection, it will be received.

(Marked Exhibit B.)

MR. DAILEY: We have marked on this log in red where the

Paddock producing interval is in the well. We have marked in green the portion of the formation behind the five and a half inch oil string covered with cement. We have also shown the portion open between the top of the cement behind the five and a half inch and the casing set at 7-5/8. The top of the Yates formation and the top of the Queen formation are also marked on the exhibit. The intermediate string of 7-5/8" casing was set and cemented at 2580 with 677 sacks of cement. The 5 1/2" oil string was set at 5279 and cemented with 382 sacks of cement. After the cement was allowed to set, a temperature survey was run on the well, and I have here a graph of this survey which I would like to introduce as No. C.

MR. SPURRIER: Without objection, it will be received.

MR. DAILEY: The top of the cement on this graph is located at 2650. After cementing the 5 1/2" casing string, pressure was found in the annulus between the 5 1/2" and 7-5/8 casing. On December 30, 1950, a test of this annulus was made, and showed a potential of 1.5 MCF of gas per day. The top of the Yates on the well is located at 2375 and the top of the Queen at 3080. In testimony on Case 245 at the April 1951 hearing of the New Mexico Oil Conservation Commission the Continental Oil Company recommended that the Yates, Seven Rivers, and the upper 200 feet of the Queen formation be considered one gas pool. At that time it was thought that any gas below this in the Grayburg and upper San Andres formations could be considered as gas-cap gas for the Eunice-Monument oil pay. In the Britt A-6 No. 4 there is 630 feet between the top of the cement and the top of the gas cap, as recommended in Case 245. The gas from the Bradenhead on the Britt A-6 No. 4 has a sulphur content of 300 grains per 100 cu. ft. of gas. The sulphur content of our Continental Oil Co. Britt A-6 No. 1 well, an oil well on the same lease producing from the regular Monument pay, is 1361 grains per 100 cu. ft. The gas produced with the oil from the Monument-Paddock from a well on an adjoining lease tests 1860 grains per 100 cu. ft. In summary, the interval from 2580 feet to 2650 feet in the Britt A-6 No. 4, as recommended in Case No. 245, is in a gas horizon, and is effectively isolated from both the Monument-Paddock and the Monument oil horizons as evidenced by the varying sulphur contents of the produced gas. We are, therefore, asking permission to produce this well as a Bradenhead gas well.

MR. SPURRIER: Does anyone have a question of this witness? Is there any further comment in this case? Mr. Morrell?

MR. MORRELL: I might state for the record inasmuch as the well is on federal land, and since the request involves no completion with casing and stelling, the Geological Survey has no objection to the request.

MR. SPURRIER: Thank you. Anyone else? If not, that is all. We will recess until two o'clock.

STATE OF NEW MEXICO

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COUNTY OF BERNALILLO

I HEREBY CERTIFY That the foregoing transcript is a true record of the matters therein contained.

DONE at Albuquerque, N. M., July 5, 1951.

E. E. Jackson

My Commission Expires: Aug. 4, 1952.