

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

ALBUQUERQUE, N. M.
PHONE 243-6691

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

November 29, 1961

EXAMINER HEARING

IN THE MATTER OF:

Application of El Paso Natural Gas Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Mescalero Ridge Unit Well Number 1 located in Unit D of Section 21, Township 19 South, Range 34 East, Lea County, New Mexico, as a dual completion (conventional) in the Bone Springs and Morrow formations, with the production of oil from the Bone Springs zone to be through a string of 2 3/8-inch tubing and the production of gas from the Morrow zone to be through a parallel string of 2 1/16-inch tubing.

CASE NO.
2442

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

EXAMINER NUTTER: We will call Case No. 2442.

MR. WHITFIELD: Application of El Paso Natural Gas Company for a dual completion, Lea County, New Mexico.

MR. WHITWORTH: Garrett Whitworth, El Paso, Texas, representing the Applicant. We have one witness, Mr. Gerald A. Hickson.

GERALD A. HICKSON,

called as a witness, having been first duly sworn on oath, was



examined and testified as follows:

DIRECT EXAMINATION

BY MR. WHITWORTH:

Q Would you state your full name, by whom you are employed, and in what capacity you are employed?

A Gerald A. Hickson, proration engineer for El Paso Natural Gas Company.

Q You have previously testified before this Commission as an expert witness?

A Yes, sir, I have.

Q Your qualifications are a matter of record?

A Yes, sir, they are.

MR. WHITWORTH: Are the witness's qualifications acceptable?

EXAMINER NUTTER: Yes, sir, please proceed.

Q (by Mr. Whitworth) You are familiar with El Paso Natural Gas Company's application in this case. Would you please explain to the Examiner what El Paso is seeking?

A We are seeking permission to complete, dually complete a well in the Mescalero Ridge unit with the Bone Springs and Morrow gas.

Q Do you have an exhibit showing exactly where this well is located?

A Yes.

(Applicant's Exhibit 1 marked.)

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Q This is El Paso Natural Gas Company's Exhibit No. 1?

A Yes, sir.

Q Where is it located?

A The well is located in the Northwest of the Northwest of Section 21, Township 19 South, Range 34 East.

Q Who are the offset operators?

A There is one, Gulf Oil Corporation, to the north.

Q Is this well a wildcat?

A Yes, sir. It goes in both zones.

Q Do you have an exhibit, Mr. Hickson, showing the physical equipment that is installed in the well?

A Yes, sir.

Q Is that El Paso's Exhibit No. 2?

A Yes, sir.

(Applicant's Exhibit No. 2
marked.)

Q (by Mr. Whitworth) Will you please explain what this exhibit shows?

A This is a diagrammatic sketch showing the casing string, production string, size, and depth at which they're set, the sacks of cement and position of the packer which is a Baker Model D packer set at 250 feet, and the producing zones. The Bone Springs oil was completed at 10,118 to 10,134 and Morrow gas zones, 13,328 to 13,340.

Q I notice that a Baker Model D packer was installed.



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Is this a permanent type production packer?

A Yes, sir.

Q Was a packer leakage test taken?

A Yes, sir, the date the well was completed.

Q What did that reveal?

A It was filed with the Commission in Hobbs and revealed, it showed no communication between the two zones.

Q Do you have any pressure data with respect to both these zones?

A Yes, sir. Shut-in pressure of the Morrow, shut-in bottomhole pressure was 6631 pounds initially as against 4308 pounds for the Bone Springs. Gravity of the Bone Springs was 31 degrees. Gravity in the Morrow is 56.5. GOR of the Morrow is 33,181 cubic feet per barrel of condensate and the GOR of the Bone Springs was 677 cubic feet per barrel of oil produced.

Q Do you have any well log data?

A Yes, sir.

(Applicant's Exhibit No. 3
marked.)

Q Showing you El Paso's Exhibit No. 3, would you explain what that shows?

A Exhibit No. 3 is an electric log of the Mescalero Ridge Unit No. 1 showing the top of the Bone Springs perforated interval, position of the packer, and the top of the Morrow and the perforated interval in the Morrow.



Q Do you have anything else you'd like to add to your testimony?

A No, sir.

Q Were El Paso's Exhibits 1, 2, and 3 prepared by you or under your supervision?

A Yes, sir.

MR. WHITWORTH: We ask that El Paso's Exhibits 1, 2, and 3 be admitted in evidence.

EXAMINER NUTTER: They will be admitted in evidence.

MR. WHITWORTH: That's all we have.

CROSS EXAMINATION

BY EXAMINER NUTTER:

Q Mr. Hickson, what is the top of the Bone Springs?

A 8056 feet. It's pretty high.

Q What are the potentials for these two zones, Mr. Hickson?

A The potential for the Morrow formation is 1300 MCF per day based on a test which is filed in the District Office, and the potential of the Bone Springs oil formation is 993 barrels oil with 4.92 barrels water per day.

EXAMINER NUTTER: Are there any further questions of Mr. Hickson?

He may be excused.

(Witness excused.)

EXAMINER NUTTER: Does anyone have anything they wish



