

BEFORE THE
OIL CONSERVATION COMMISSION
HOBBS, NEW MEXICO
JULY 25, 1956

IN THE MATTER OF:

CASE 1110: Application of Continental Oil Company for a non-standard proration unit in the Eumont Gas Pool in exception to Rule 5 (a) of the Special Rules and Regulations for the Eumont Gas Pool as set forth in Order R-520. Applicant in the above-styled cause, seeks an order authorizing a 160 acre non-standard gas proration unit in the Eumont Gas Pool consisting of the S/2 of the S/2 of Section 18, Township 21 South, Range 36 East, Lea County, New Mexico; said unit to be dedicated to applicant's A. M. Lockhart "A-18" No. 1 Well located 330 feet from the South and East lines of said Section 18.

CASE 1111: Application of Continental Oil Company for a non-standard proration unit in the Eumont Gas Pool in exception to Rule 5 (a) of the Special Rules and Regulations for the Eumont Gas Pool as set forth in Order R-520. Applicant in the above-styled cause, seeks an order authorizing an 80 acre non-standard gas proration unit in the Eumont Gas Pool consisting of the N/2 of the SW/4 of Section 18, Township 21 South, Range 36 East, Lea County, New Mexico; said unit to be dedicated to applicant's A. M. Lockhart "A-18" No. 3 Well, located 1980 feet from the South and West lines of said Section 18.

BEFORE:

Mr. Daniel S. Nutter, Examiner.

P R O C E E D I N G S

MR. NUTTER: The next case on the docket is 1110.

MR. GURLEY: Application of Continental Oil Company for a non-standard gas proration unit in the Eumont Gas Pool in exception to Rule 5 (a) of the Special Rules and Regulations for the Eumont Gas Pool as set forth in Order R-520.

MR. KELLAHIN: If the Examiner please, Jason Kellahin, Santa Fe. Since Case 1110 involves the increase of the size of a proration unit, and 1111 involves the reduction of a proration unit affecting the same lands, I move that the two cases be consolidated for the purpose of the record and facilitation of the presentation of evidence.

MR. NUTTER: Is there any objections to the consolidation of Cases 1110 and 1111 for the purpose of taking the record? If not, they will be consolidated.

MR. KELLAHIN: I would like to call Mr. E. V. Boynton as a witness.

MR. NUTTER: Is he your only witness?

MR. KELLAHIN: Yes, sir.

(Witness sworn.)

E. V. BOYNTON,

a witness on behalf of the applicant, having been first duly sworn on oath, testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q State your name, please.

A E. V. Boynton.

Q By whom are you employed?

A Continental Oil Company.

Q What position?

A District Engineer.

Q Have you testified before this commission before, before the New Mexico Oil Conservation Commission and had your qualifications

accepted?

A I have.

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. NUTTER: They are.

Q Mr. Boynton, are you familiar with the applications which have been filed in cases 1110 and 1111 by Continental Oil Company?

A Yes, sir.

Q State, briefly, what is proposed to be done in those two cases.

A This Lockhart "A-18" Lease consists of the SW/4 of Section 18, 21, 36, and the S/2 of the SE/4. We propose to change the size of the gas proration units assigned to Well No. 1 and Well No. 3, reducing the proration unit assigned to Well No. 3 to 80 acres and increasing the unit assigned to Well No. 1 to 160 acres.

Q Now, have you prepared an exhibit showing the proposed unit for the Lockhart "A-18" Well No. 1?

A I have here an ownership structure plat centoured on top of the Yates that shows --

Q That is marked as Exhibit No. 1, --

A Exhibit No. 1.

Q -- Case No. 1110?

A It is.

Q Proceed.

A It shows the present proration unit in the red dashed line, the proposed proration unit outlined in solid red, and the well in question encircled in red. It also shows the offset proration units outlined in green, and offset wells outlined or encircled in green.

Q Now, what are the structure lines shown on Exhibit No. 1?

A They represent the top of the Yates Formation, contoured on an interval of twenty-five feet.

Q Now, referring to this exhibit, what do you note with regard to the Shell State H No. 2 and No. 4 wells?

A What do I note with regard to those? Well, they each have 160 acres assigned to them.

Q Where do they stand on the structure?

A Considerably lower structure than any of our Lockharts.

Q On that basis, is it probable to assume that the entire unit which is proposed to be dedicated to the No. 1 Well is productive of gas?

A Yes, it is.

Q Have you prepared a cross section diagram?

A I have here, as Exhibit No. 2 in Case 1110 is a comparison of Well locations west across the Lockhart "A-18" Lease, beginning with Well No. 4 and continuing eastward to Well No. 1. This plat shows the casing set in each of the wells, and shows the present producing intervals, both oil and gas, for the subject well and the oil producing interval for the other wells on the lease. It indicates that the gas from Well No. 1 is coming from the Seven Rivers and Yates Formations, whereas the oil in Well No. 2 and Well No. 4, and formerly Well No. 5, is being produced from the Queen Formation.

Q Does that indicate to you that there is a separation of the formations?

A Yes, sir, they are entirely different formations. As to -- this is an old Well, this Lockhart "A-18" No. 1, has seven inch casing

set at 3,825, cemented with 50 sacks. We had no temperature survey on the top of the cement in this well, however, recent development in that area, in comparing the whole section gauges on recent completions, shows that the holes drilled are very near to bit size, so with eight and three-quarter bit, and assuming that nine inch hole, the cement would extend up above the top of the Queen Formation to approximately 3526.

Q Are you familiar with the production history of the two wells involved in these cases?

A Yes, sir.

Q Before we get to that, what is the completion of Well No. 1?

A It is a Braden Head gas well.

Q Would you state, briefly, what the production history is of these two wells?

A During the past year, the No. 1 well has been shut in. At the advent of gas prorationing, it was produced for three months, became over produced, because we were lifting oil wells with the gas, to the extent that it has not caught up yet. It is twenty-four and one-half MCF over produced at this time. The No. 3 Well, on the other hand, at this time is under produced approximately 105 MCF.

Q Now, Mr. Boynton, those two wells are completed in substantially the same point of structure, are they not?

A Yes, sir.

Q How do you account for the difference in productivity of the two wells?

A No. 1 is essentially an open hole completion, whereas your No. 3 Well was perforated and only has a small section in the Yates Formation perforated open to production.

Q In your opinion, could that well be recompleted and made as productive as the No. 1 Well? A Yes, that could.

Q Would that be expensive? A It would.

Q Would any more gas be recovered as a result of such operation?

A I don't think so.

Q Now, have you prepared an exhibit in Case 1111 showing the proposed unit, the present unit and the proposed unit?

A I have.

Q Is that marked as Exhibit No. 1 in Case 1111?

A Exhibit No. 1, Case 1111, is essentially the same as Exhibit No. 1 in Case 1110, it again shows the proposed proration unit outlined in red, and the present unit as a dashed red line, and the well in question encircled in red, and offset proration units outlined in green, with offset gas wells encircled in green. It again has Continental acreage cross-hatched and contoured on top of the Yates Formation.

Q Now, is it necessary, in your opinion, to reduce the size of the unit attributed to Well No. 3?

A It is, in order that we may recover our fair share of the gas.

Q Now, have you a cross section involving Well No. 3?

A I have a comparison of well logs showing Well No. 3 and Well

No. 6.

Q Is that marked as Exhibit No. 2 in Case 1111?

A Yes, sir.

Q What does that show?

A These wells are the wells producing in the N/2 of the SW/4, Section 18; it shows the producing interval of Well No. 3 to be in the Yates Formation from 3168 to 3269, and producing interval of Well No. 6 to be in the Queen Formation, 3775 to 3891; the entire Seven Rivers separates the producing intervals.

Q There again it is your opinion that the oil zone and the gas zones are entirely separate?

A Yes, sir.

Q A moment ago, Mr. Boynton, you referred to Well No. 1 being over produced and Well No. 3 being under produced; what do you base those figures on?

A The proration schedules as of May 31st, 1956.

Q Do you have a deliverability test on the two wells involved?

A No, sir, I don't.

Q You are basing your testimony on their productive history?

A Strictly on production.

Q As reflected by the proration schedule?

A Yes, sir.

Q Now, the proposed unit consists of contiguous quarter-quarter sections?

A That is right.

Q Within a governmental quarter section?

A That is right.

Q They do not exceed 5,280 feet in length or width?

A No, sir.

MR. KELLAHIN: That is all.

MR. NUTTER: Does anyone have a question of the witness?

MR. KELLAHIN: I have one more question.

Q Mr. Boynton, were the exhibits to which you have referred during your testimony prepared by you or under your direction?

A They were prepared under my direction and supervision, yes, sir.

MR. KELLAHIN: We offer Exhibits 1, 2 and 3 in Case 1110 and Exhibits 1 and 2 in Case 1111 in evidence.

MR. NUTTER: Is there any objection to the introduction of these exhibits? If not, they will be received.

THE WITNESS: Correction, there is only 1 and 2 in each case.

MR. KELLAHIN: Correction, Exhibits 1 and 2 in each case.

MR. NUTTER: Are there any questions of the witness?

BY MR. REEDER:

Q Mr. Boynton, I am not clear which of the wells presently is under produced.

A No. 3.

Q No. 3, and your No. 1 is currently over produced?

A That is correct.

Q Are they both connected to the pipeline?

A No. 1 has no pipeline connection; No. 3 is connected to El Paso.

Q How is the gas being utilized from the No. 1?

A Since March, 1954, it has been shut in. We stopped gas lifting at that time, and in the near future, we will have a connection to El Paso Natural Gas Company.

Q But the overproduction was achieved while under gas ^{lift} raise?

A Yes.

Q The dedication would once more put this well into production?

A That is correct.

Q And that is basically the primary reason for the transfer of the acreage?

A That is true.

Q Do you have a potential back test, or any other comparative test on the two wells available?

A We will have. They are testing the well today and I can make that available to you in the next day or two.

Q But do you have, from your past knowledge or anything, the comparison?

A No potential test has ever been taken.

MR. REEDER: That is all.

BY MR. GURLEY:

Q Mr. Boynton, who owns this offset property, is that owned by Continental, too, next to your Lockhart No. 1?

A All of our property is shown to be cross-hatched there. We own the property to the north, to the northeast and to the east. I believe that is Shell to the west and southwest, and ^{Sinclair} (Repollo) to the south.

Q Is it your opinion, sir, that your Lockhart No. 1 will drain

the 160 acre unit you are asking for?

A I think so. It isn't over a mile long.

Q Do you know the -- even though it is sitting down there in the corner of the unit?

A I believe so, yes.

Q You think it will drain any other part around there?

A If they don't produce their gas it will, yes, sir.

MR. NUTTER: Does anyone else have any further questions of the witness? If not, he may be excused and we will take the case under advisement.

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STATE OF NEW MEXICO)
: ss
COUNTY OF BERNALILLO)

I, THURMAN J. MOODY, 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/or under my personal supervision; and that the same is a true and correct transcript thereof to the best of my knowledge, skill and ability.

WITNESS MY HAND AND SEAL, this, the 6th day of August, 1956, in the City of Albuquerque, County of Bernalillo, State of New Mexico.


Notary Public

My Commission Expires:
April 3, 1960.