

BEFORE THE  
OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO

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TRANSCRIPT OF HEARING

October 23, 1951

*Exh. 312*

BEFORE THE  
OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO

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IN THE MATTER OF:

Application of Buffalo Oil Company  
to extend gas injection operations  
in the Maljamar Pool, Lea and  
Eddy Counties, New Mexico.

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Case No. 312

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MR. SPURRIER: We will proceed to Case No. 312.

(Mr. Kellahin reads the Notice of Publication.)

MR. CAMPBELL: My name is Jack M. Campbell of Atwood, Malone and Campbell, representing the Buffalo Oil Company.

H. G. ELLIS,

having been first duly sworn, testified as follows:

DIRECT EXAMINATION

By MR. CAMPBELL:

Q State your name please.

A H. G. Ellis.

Q Where do you live, Mr. Ellis?

A Artesia, New Mexico.

Q By whom are you employed?

A Buffalo Oil Company.

Q In what capacity.

A Vice President in charge of Production.

Q Have you testified before this Commission on previous occasions as Vice President in charge of Production?

A I have.

MR. CAMPBELL: Does the Commission wish me to qualify the witness or will his qualifications be acceptable.

MR. SPURRIER: They are acceptable.

Q Your company has made application in Case No. 312, to make gas injections in the surface area where the Maljamar Pool in Lea and Eddy Counties, New Mexico is situated.

Will you state to the Commission the reason for this application.

A We have drilled three wells into the Yates Sand which is now designated as the Baish Pool. Those wells have not been very profitable -- have not been profitable -- and we now desire to try and augment the production by injecting gas into the well that is close to two of them in an effort to increase production.

Q I hand you what has been marked Exhibit A and ask you to state what that is.

A That is a map of Section 21-17-32, showing in red the three wells in the Baish Pool which are drilled into the Yates Sand, as well as the wells in the Maljamar Pool surrounding it.

Q Is your company the only operator in that area which has wells drilled in the Yates Sand?

A That's right.

Q And there are no other Yates Sand wells in the vicinity? Is that correct?

A None other in the vicinity at all.

Q Has there been sufficient exploration in the Yates Sand in the area to determine the approximate pool limits?

A Practically, well definitely determined, yes.

Q And is the estimated pool limits shown on Exhibit A what has been determined by the drilling of additional wells?

A This is the limit of the pool.

Q I now hand you what has been identified as Exhibit B, and ask you to state what that is.

A This is a schematic drawing showing the casing that has been cemented in our Baish A-7 well, which is the well into which we desire to inject gas. Showing the depths to which these casings, various casings, have been cemented.

Q Will you state to the Commission the manner in which that well has been completed with reference to what you are proposing by the application?

A Originally when the well was drilled it was completed in the Yates Sand and ten and three-quarter inch casing was cemented in the top of the sand with a depth of 2301 feet. Later on when the well was deepened into the Maljamar pay a string of 8 and five-eighths inch casing was set at 3050 feet and cemented back to the bottom of the Yates Sand. Another -- for a string of 7 inch casing was then set at 3821 feet above the then six zone pay and cemented back into the Yates in five-eighths inch casing.

Q Now, where do you intend to inject this gas?

A In the Bradenhead between the ten and three-quarter and the eight and five-eighths inch casing.

Q And what protection will you then have to avoid the comingling of this gas with the oil pay zone in what you call the Maljamar pay?

A There are two strings of casing both of which were cemented, the eight and five-eighths cemented from about 600 feet which is immediately below the Yates. And then inside of that there is a string of seven inch casing cemented back at about 800 feet.

Q Do you feel that by this method of completion you have eliminated any possibility of communication?

A Definitely eliminated it.

Q Where do you propose to get the gas for this gas injection project?

A From the Maljamar Cooperative Repressuring agreement.

Q Have you consulted with them in connection with this application?

A I have.

Q I hand you what has been identified as the Exhibit C and ask you to state what that is.

A This is a letter from the Maljamar Cooperative Repressuring Agreement, dated September 27, 1951, and signed by J. Wright, Project Engineer.

Q Does that letter grant their permission to use excess gas that they may have available for this secondary recovery project of yours?

A It does.

MR. CAMPBELL: I offer in evidence Exhibits A, B and C.

MR. SPURRIER: They will be accepted.

MR. CAMPBELL: Is it agreeable with you this project of gas injection be maintained only so long as there is excess gas available from the Maljamar Agreement?

A It is.

Q Is it correct, Mr. Ellis, that other than the fact that you are using excess gas from that Agreement, that there is no connection between your project here and the Maljamar Repressuring project?

A No connection whatever.

MR. CAMPBELL: That is all.

MR. SPURRIER: Does anyone care to question this witness? Or are there any further comments in the case?

Does this conclude your case, Mr. Campbell?

MR. CAMPBELL: Yes.

MR. SPURRIER: We will take the case under advisement and go on to Case 308.

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STATE OF NEW MEXICO    )  
                                  :   SS  
COUNTY OF BERNALILLO   )

I HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Commission, in Case No. 312, taken on October 23, 1951, at Santa Fe, is a true and correct record of the same to the best of my knowledge, skill and ability.

DATED at Albuquerque, New Mexico, this 19 day of November, 1951.

E. E. Freeman  
reporter