

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 27, 1974

EXAMINER HEARING

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IN THE MATTER OF:

Application of Skelly Oil Company  
for a waterflood project and a dual  
completion, Lea County, New Mexico.  
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) Case No.  
) 5197  
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)

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil  
Conservation Commission:

William Carr, Esq.  
Legal Counsel for the  
Commission  
State Land Office Bldg.  
Santa Fe, New Mexico

For the Applicant:

C.E. Blodget, Esq.  
  
Tulsa, Oklahoma

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E X H I B I T S

	<u>Marked</u>	<u>Admitted</u>
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MR. NUTTER: We call Case 5197.

MR. CARR: Case 5197. Application of Skelly Oil Company for a waterflood project and a dual completion, Lea County, New Mexico.

MR. BLODGET: Mr. Examiner, I'm Chester Blodget, Tulsa, Oklahoma, Attorney for the Applicant. I believe Charles White has heretofore entered appearance as local counsel in this Case.

MR. NUTTER: Yes, sir, we have that.

MR. BLODGET: We have one witness.

(Witness sworn.)

JOHN L. MOSELEY

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. BLODGET:

Q Would you state your name, your occupation and by whom you are employed?

A John L. Moseley, Senior Reservoir Engineer for Skelly Oil Company in Midland, Texas.

Q Have you previously testified before this Commission and your qualifications been accepted?

A Yes, I have.

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Q Are you familiar with the Application that's now under consideration by this Commission?

A Yes, I am.

Q I call your attention to what has been marked as Skelly Exhibit No. 1. Would you identify and explain that, please?

A Yes, this is a plat of the area in question. On this plat we have shown Skelly's J.C. Johnson Lease outlined in yellow and also shown is the Johnson No. 4 in which we propose to dually complete, inject water into the Langlie-Mattix interval and produce gas from the Jalmat interval; it is shown by the red arrow.

Q I call your attention to what has been marked Skelly Exhibit No. 2. Would you identify that and explain it, please?

A Yes. This is a schematic of the Johnson No. 4 Well in which we are showing our proposed dual completion. We plan to inject water down a tubing shown on the schematic below a packer which will be set at approximately 3375 into the Langlie-Mattix interval, which is open hole 3425 to 3650. The Jalmat gas zone will be produced through the tubing casing annulus from perforations 2925 to 2990.

Q What amount of water do you plan to inject in

this particular well?

A We anticipate approximately 300 barrels per day at maximum pressure of 1800 pounds into the Langlie-Mattix interval.

Q Where is that water coming from?

A The water will come from a combination of produced water from several leases in the area.

Q I now call your attention to what has been marked Skelly Exhibit No. 3, and would you identify and explain that, please?

A Yes. This is simply a sample copy of a sample log that was run on the well drilled in 1954, and it shows the top of the Seven Rivers formation 2905, the top of the Queen we estimate to be 3370 and TD at 3650.

Q I call your attention to Skelly Exhibit No. 4. Would you identify that and state what it sets out?

A Yes. This is a water analysis, laboratory analysis, from the water in which we plan to inject into the Langlie-Mattix interval. This is a combination of produced water from our Steeler Lease, which is located to the north of our Johnson Lease, and some water produced from the Johnson Lease itself.

Q Now, are the wells in the area under consideration

in an advanced state of depletion at this time?

A Yes, they are. The Johnson No. 4 Langlie-Mattix zone at this time is presently shut-in, uneconomical to operate; the other wells on the lease are less than a barrel of oil per day at the present time.

Q In your opinion would the proposed pilot waterflood project result in the recovery of otherwise unrecoverable oil and thereby prevent waste?

A Yes, it would. We anticipate something on the order of 17,000 barrels of additional oil that will be produced from the Johnson Lease as a result of conversion of our Johnson No. 4 to injection.

Q In your opinion, would the dual completion of this well in the Jalmat gas zone result in recovery of additional gas and thereby prevent waste?

A Yes, it would.

Q Is it also contained in the Application of Skelly Oil Company that they request, that based on information gained from the injection into the well before mentioned, that they also request permission to hereafter ask for administrative approval to expand this project and to convert additional wells to water injection without showing the waterflood response?

A Yes, we would like that.

Q Were these Exhibits, Skelly 1, 2, 3 and 4, prepared by you or at your request and under your supervision?

A Yes, sir, they were.

MR. BLODGET: We submit for approval and introduction into evidence Skelly Exhibits Nos. 1, 2, 3 and 4.

MR. NUTTER: Skelly Exhibits Nos. 1 through 4 will be admitted into evidence.

(Whereupon, Skelly Exhibits Nos.

1 through 4 were admitted into evidence.)

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Moseley, referring to your Exhibit No. 1 of the plat?

A Yes.

Q I notice that you have the one well, No. 4, which is, of course, a Langlie-Mattix Well, then No. 1 to the south of it?

A Yes, sir.

Q With the "Q" on it? That would be a Langlie-Mattix Well?

A Yes, sir. The "Q" would indicate Langlie-Mattix.

Q Then No. 5 to the east would also be a Langlie-Mattix?

A Yes, sir, that is correct.

Q Now what are the two wells over in the east end of the Lease?

A The No. 2 is presently a Queen Well, or Langlie-Mattix Well; the No. 6 has recently been worked over and now completed in the Teague-Grayburg Field.

Q And then on the Lease to the north there is a waterflood in operation, correct?

A Yes, sir. We are at the present time expanding our E.L. Steeler Lease plug, as shown on the plat, with the proposed injection into the Steeler No. 7 and also the Steeler No. 1 and 3 to the north.

Q So, when you put the No. 7 on you'll be flooding Steeler No. 4 and this Johnson injection well will back it up?

A Yes, sir, that's correct.

Q So you'll not only be benefiting the No. 1 and the No. 5 on the Johnson Lease, but presumable the No. 4 on Steelers as well?

A Yes, sir.

MR. NUTTER: Are there any further questions of



Mr. Moseley? He may be excused. Do you have anything further, Mr. Blodget?

MR. BLODGET: Nothing further.

MR. NUTTER: Does anyone have anything they wish to offer in Case 5197? We will take the Case under advisement.

STATE OF NEW MEXICO     )  
                                   )  
 COUNTY OF SANTA FE     )

I, RICHARD L. NYE, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

  
 RICHARD L. NYE, Court Reporter

I do hereby certify that the foregoing is  
 a complete record of the proceedings in  
 the Examiner hearing of Case No. 5197,  
 heard by me on 3/27, 19 74.

 Examiner  
 New Mexico Oil Conservation Commission

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