

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
August 13, 1975

EXAMINER HEARING

IN THE MATTER OF:

Case No. 5262 being reopened pursuant to	)	CASE
the provisions of Order No. R-4822-A, which	)	5262
order promulgated special pool rules for the	)	
Southwest Media-Entrada Oil Pool, Sandoval	)	
County, New Mexico, including a provision	)	
for 160-acre proration units.	)	

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil	Thomas Derryberry, Esq.
Conservation Commission:	Legal Counsel for the Commission
	State Land Office Building
	Santa Fe, New Mexico

For the Applicant:	Thomas W. Kellahin, Esq.
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I N D E X

JOHN SOMERS

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1 MR. NUTTER: We will call Case Number 5262.

2 MR. DERRYBERRY: Case 5262 in the matter of Case  
3 No. 5262 being reopened pursuant to the provisions of Order  
4 No. R-4822-A, which order promulgated special pool rules for  
5 the Southwest Media-Entrada Oil Pool, Sandoval County, New  
6 Mexico.

7 MR. KELLAHIN: Tom Kellahin of Kellahin and Fox  
8 Santa Fe, New Mexico, appearing on behalf of Petro-Lewis  
9 Corporation and I have one witness.

10 MR. NUTTER: Are there other appearances in Case  
11 5262? Please proceed.

12 MR. KELLAHIN: Mr. Examiner, I would like the  
13 record to reflect that the witness is already under oath.

14  
15 JOHN SOMERS

16 called as a witness, having been previously sworn, was  
17 examined and testified as follows:

18 DIRECT EXAMINATION

19 BY MR. KELLAHIN:

20 Q Please state your name, by whom employed and in  
21 what capacity?

22 A John Somers, I'm employed by Petro-Lewis Corporation  
23 as the Denver Division Manager.

24 Q Are you a petroleum engineer?

25 A Yes, I am.

1 Q And you have previously testified before this  
2 Commission and had your qualifications as an expert witness  
3 accepted and made a matter of record?

4 A Yes, I have.

5 Q Have you made a study of the Southwest Media-Entrada  
6 Pool?

7 A Yes, I have.

8 Q Have you previously testified in other hearings  
9 on this pool?

10 A Yes, I have.

11 MR. KELLAHIN: If the Examiner please, are the  
12 witness's qualifications acceptable?

13 MR. NUTTER: Yes.

14 Q (Mr. Kellahin continuing.) Mr. Somers, referring  
15 to Exhibit Number One, would you identify it and state  
16 what information it contains?

17 A Exhibit Number One is a tabulation of the  
18 production from the two wells in the Southwest Media-Entrada  
19 Pool, Bowling Number Five and Bowling Number Six. It shows  
20 the oil and water production from June of 1974 through June  
21 1975.

22 The Bowling Number Six being a well which was  
23 completed shortly after the last hearing on the special  
24 allowable and spacing in the field.

25 Q What conclusions do you draw from this Exhibit,

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1 Mr. Somers?

2 A Basically this is just a history and it just  
3 shows -- one thing that it does show is the increased produc-  
4 tion on Bowling Number Six which has been accomplished through  
5 the installation of larger tubing and a larger pump on the  
6 well to test the feasibility of installing submersible  
7 pumping equipment on this well to increase its productivity  
8 to the top allowable rate.

9 Although it is not reflected on this exhibit, I  
10 might add that Bowling Federal Number Six was potentialed  
11 for six hundred and sixty barrels of oil a day with beam  
12 pumping equipment in August of 1974.

13 Q Please refer to Exhibit Number Two and identify it?

14 A Exhibit Number Two is an exhibit showing the rate  
15 versus water-cut performance on Bowling Number Six. It  
16 shows the rate at which we were producing the well for the  
17 four months prior to June 1975, that rate being one hundred  
18 and fifty barrels of oil a day and four hundred and eighty  
19 barrels of water a day and an oil percent of twenty-three  
20 percent. We then installed -- replaced the two and seven-  
21 eighths inch tubing with three inch tubing and installed a  
22 larger pump. The subsequent rate was three hundred barrels  
23 of oil per day and fifty barrels of water per day, so our  
24 oil percent went from twenty-three to twenty-six percent,  
25 confirming the same performance that we have seen in the

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1 other pools that with higher withdrawal rates we get  
2 a higher oil percent.

3 Also this test in the installation of this higher  
4 volume pumping equipment showed us that we could increase  
5 the production substantially without actually effecting a  
6 very substantial draw down on the well. The producing fluid  
7 level on the well at a hundred and fifty barrels of oil a  
8 day and four hundred and eighty barrels of water a day was  
9 nine hundred and sixty feet from the surface.

10 MR. NUTTER: When was this larger pump installed,  
11 by the way?

12 A. In June of '75. And subsequent to the installation  
13 of that larger pump we have shot fluid levels and the fluid  
14 level is now twelve hundred and seventy feet from the surface.

15 So more than doubling the production rate has only  
16 produced a three hundred foot draw down which is roughly  
17 one hundred and twenty feet psi draw down in the reservoir  
18 pressure, indicating a substantial capacity from this well  
19 and a psi which is comparable to the other wells in the  
20 Media and Southwest Media.

21 Q. (Mr. Kellahin continuing.) In conclusion then,  
22 Mr. Somers, in your opinion will one well be able to  
23 effectively and economically drain the one hundred and sixty  
24 acre proration unit?

25 A. Yes, sir.

1 Q Were Exhibits One and Two prepared by you or  
2 under your direction and supervision?

3 A Yes, they were.

4 Q In your opinion will continuation of the one  
5 hundred and sixty acre proration unit for the Southwest  
6 Media-Entrada be in the best interest of conservation, the  
7 prevention of waste and the protection of correlative rights?

8 A Yes, sir.

9 MR. KELLAHIN: We move the introduction of Exhibits  
10 One and Two.

11 MR. NUTTER: Petro-Lewis' Exhibits One and Two will  
12 be admitted into evidence.

13  
14 CROSS EXAMINATION

15 BY MR. NUTTER:

16 Q Mr. Somers, you have been authorized to drill a  
17 third well in this reservoir, haven't you?

18 A Yes, sir.

19 Q Has this well been started or is it completed?

20 A No, we have contracted for a drilling contractor  
21 to drill that well and we should be drilling it next month.  
22 We received approval at the hearing of August 3rd.

23 MR. KELLAHIN: The last Examiner Hearing, I  
24 believe on August 3rd.

25 A On August 3rd for the unorthodox well location,

1 so we haven't been able to go ahead and drill that well.

2 Q (Mr. Nutter continuing.) Do you expect that well  
3 is going to be drilled this summer?

4 A Yes, it should be drilled, as I say, probably next  
5 month in September because we should have a rig available.  
6 There are four rigs working in the area, actually drilling  
7 Entrada tests at the present time. It is a matter of rig  
8 availability right now.

9 Q I noticed some inconsistencies in the production  
10 characteristics of Bowling Federal Number Five here on  
11 Exhibit One. First the well was making water and then it quit  
12 making water, then it started making water again and then it  
13 quit making water, what's the deal there?

14 A Bowling Federal Number Five is a well which was  
15 drilled on the flank of the reservoir and of the Southwest  
16 Media structure and it was completed originally through the  
17 oil-water contact and into the water producing zone. So this  
18 well was then subsequently treated with a treatment to try  
19 to selectively shut off the water. The problem is that it  
20 almost shut off everything and as a result it only produces  
21 at a very low rate of production.

22 When we have had problems with disposal capacity  
23 this has been one of the wells that has been shutin. That  
24 is the reason for the erratic performance of Bowling Number  
25 Five.

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1 Q Does the water that is produced here go to the  
2 same disposal source that the Media-Entrada Pool does?

3 A Yes, it does.

4 Q It does?

5 A So both fields are really limited by that disposal  
6 system which is presently disposing of water into the  
7 shallow Gallup formation.

8 Q So then the injection program that you proposed  
9 for the other reservoir will help this reservoir too?

10 A Definitely. It will allow us to get Bowling  
11 Number Five on and keep it on steadily and actually as we  
12 presently plan to work the well over to try to increase its  
13 oil production rate. It will allow us to go ahead and install  
14 submersible pumping equipment in Number Six to increase its  
15 rate to the top allowable rate.

16 Q Are these two wells being pumped at the present  
17 time?

18 A Yes, they are, both of them.

19 MR. NUTTER: Are there further questions of Mr.  
20 Somers?

21 MR. HUNKER: Mr. Examiner, I'm George Hunker and  
22 I would like to point out to the Examiner that we are late  
23 in arriving for the hearing. We flew up from Roswell this  
24 morning and the docket showed that there were about four  
25 or five cases ahead of these particular cases and I would

1 like to ask whether or not the Examiner has heard the matter  
2 involving 5152 at this particular time or has that case  
3 been called?

4 MR. NUTTER: We have heard 5152 and your appearance  
5 was noted in the record in that case, in your letter that  
6 you sent us.

7 MR. HUNKER: Could we put on some testimony in  
8 regard to that particular case before you close?

9 MR. NUTTER: I think that we can probably reopen  
10 the case, Mr. Hunker.

11 MR. HUNKER: I think everyone knew that we were  
12 interested and were coming and I thought we would have at  
13 least an hour's time before the matter was considered.

14 But it was not taken out of order, is that  
15 correct?

16 MR. NUTTER: No, sir, the case was heard just  
17 immediately prior to the one that we are concluding at this  
18 time. We have proceeded in order. The only case that hasn't  
19 been heard to date now is the nomenclature case.

20 MR. HUNKER: Very well. We will have a witness  
21 to call in connection with 5152, if the Examiner please.

22 MR. NUTTER: Does anyone have anything further?  
23 Did we excuse the witness in this case?

24 MR. KELLAHIN: No, sir.

25 MR. NUTTER: If not, we excuse the witness. Do

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you have anything further in this case, Mr. Kellahin?

MR. KELLAHIN: No, sir.

MR. NUTTER: Does anyone have anything to offer  
in Case 5262?

We will take the Case under advisement.

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