

1 STATE OF NEW MEXICO  
2 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
3 OIL CONSERVATION DIVISION  
4 STATE LAND OFFICE BUILDING  
5 SANTA FE, NEW MEXICO

6 24 May 1989

7 EXAMINER HEARING

8 IN THE MATTER OF:

9 Application of Fred Pool Drilling, Inc. CASE  
10 for an unorthodox gas well location and 9679  
11 dual completion, Chaves County, New  
12 Mexico.

13 BEFORE: David R. Catanach, Examiner

14  
15 TRANSCRIPT OF HEARING

16  
17  
18 A P P E A R A N C E S

19 For the Division:

20  
21 For Fred Pool Drilling, Inc.: W. Thomas Kellahin  
22 Attorney at Law  
23 KELLAHIN, KELLAHIN & AUBREY  
24 P. O. Box 2265  
25 Santa Fe, New Mexico 87504

## I N D E X

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SONNY POOL

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Direct Examination by Mr. Kellahin

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Cross Examination by Catanach

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JACK AHLEN

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Direct Examination by Mr. Kellahin

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## E X H I B I T S

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Fred Pool Exhibit One, Land Map

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Fred Pool Exhibit Two, Waivers &amp; Letters

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Fred Pool Exhibit Three, Application

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Fred Pool Exhibit Four, Amendment to APD

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Fred Pool Exhibit Five, Map

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Fred Pool Exhibit Six, Structural Map

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Fred Pool Exhibit Seven, Isopach

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Fred Pool Exhibit Eight, Structural Map

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Fred Pool Exhibit Nine, Isopach

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MR. CATANACH: Call Case 9679, the application of Fred Pool Drilling, Inc., for an unorthodox gas well location and dual completion, Chaves County, New Mexico.

Are there appearances in this case?

MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of the Santa Fe law firm of Kellahin, Kellahin & Aubrey. I'm appearing on behalf of the applicant and I have two witnesses to be sworn.

MR. CATANACH: Any other appearances?

Will the witnesses please stand and be sworn in.

(Witnesses sworn.)

MR. KELLAHIN: Mr. Catanach, my first witness is Mr. Pool. He is a petroleum engineer by education and has not previously testified.

SONNY POOL,  
being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

## 1 DIRECT EXAMINATION

2 BY MR. KELLAHIN:

3 Q Mr. Pool, would you describe for the  
4 record your name and occupation?5 A My name is Sonny Pool. I'm a petroleum  
6 engineer employed by Fred Pool Drilling, Incorporated.

7 Q The Fred Pool is your father, Sonny?

8 A Yes, sir.

9 Q All right and you work for Fred Pool  
10 Drilling, Inc.?

11 A Yes, sir.

12 Q And your dad, Fred Pool, is the presi-  
13 dent of that company?

14 A That's correct.

15 Q Describe for the Examiner when and where  
16 you obtained your degree in engineering, Mr. Pool.17 A Okay. I graduated from New Mexico Tech  
18 in May of 1981 with a BS in petroleum engineering.

19 Q In 1981?

20 A Yes, sir.

21 Q Subsequent to graduation would you sum-  
22 marize for us what has been your employment experience as a  
23 petroleum engineer?24 A I've been with Fred Pool since that  
25 time.

1 Q During that period of time have you been  
2 involved in the drilling and production of Abo as well as  
3 Wolfcamp wells in Chaves County, New Mexico?

4 A Yes, sir.

5 Q Let me have you turn to what is marked  
6 as Exhibit Number One.

7 A Okay.

8 Q Would you identify that for us?

9 A Okay, this is just a land map pointing  
10 out the Eastland State No. 4, the well in question; also  
11 the proration unit for the Abo, 160 acres in the northwest  
12 quarter of 13; and also showing the north half, which is  
13 320 acres dedicated to the Wolfcamp formation in this well.  
14 It's also showing the offset operators and their leases.

15 Q What are you proposing the Division do  
16 with regards to the application, Mr. Pool? What are you  
17 seeking to accomplish?

18 A We're seeking to get authority to dually  
19 complete this well and also we'd like the unorthodox loca-  
20 tion for the Wolfcamp formation in the well.

21 Q With regards to the dual completion, it  
22 is a dual of the Abo and the Wolfcamp?

23 A Yes.

24 Q The well is located where in Section 13,  
25 Mr. Pool?

1           A           It's 660 from the north line and 660  
2 from the west line.

3           Q           And what is the Abo spacing in terms of  
4 acres for this particular area?

5           A           160 acres.

6           Q           Is the Abo designated by any special  
7 pool name?

8           A           Yes, this is the South Pecos Slope Abo.

9           Q           The Wolfcamp spacing for this particu-  
10 lar area is what?

11          A           320 acres.

12          Q           320 acres? Is this under any special  
13 pool designation for the Wolfcamp production?

14          A           Yes, sir. It's called the Foor Ranch  
15 Wolfcamp Field.

16          Q           And that's Foor spelled with two "o's"?

17          A           That's right.

18          Q           Okay. In addition to the dual comple-  
19 tion study, have you also studied the facts and circum-  
20 stances surrounding the gas well -- these hearing facts?

21          A           Yes, sir.

22                           MR. KELLAHIN: At this point  
23 we tender Mr. Pool as an expert petroleum engineer.

24                           MR. CATANACH: He is so qual-  
25 ified.

1           Q           Mr. Pool, what is the current status of  
2 the well?

3           A           It's currently awaiting completion.

4           Q           It has been drilled at this location.

5           A           It has been drilled, the pipe set, and  
6 that's all.

7           Q           Let's talk using this display about  
8 what, in your engineering opinion, would have been the  
9 optimum location to drill a single Wolfcamp well for the  
10 north half of Section 13.

11          A           Okay, the optimum location for a Wolf-  
12 camp well in this case would have been, in my opinion, 1980  
13 from the north and 1980 from the west.

14          Q           What is the basis for that opinion, Mr.  
15 Pool?

16          A           Primarily our Eastland State No. 2 Well.

17          Q           And that is the well that's shown on the  
18 display in the south half of 13?

19          A           That's correct.

20          Q           What formation does that well produce  
21 from ?

22          A           It's dually completed in the PrePermian  
23 and the Wolfcamp.

24          Q           And what is the capability of that well  
25 to produce gas out of the Wolfcamp?

1           A           In MCF?

2           Q           Yes, sir, or in some other way to judge  
3 its productivity.

4           A           Quite well, it's a good well.

5           Q           Approximately what is its current rate  
6 of production?

7           A           It's currently producing approximately  
8 500 MCF a day from the Wolfcamp with no water.

9           Q           Do we have any other Wolfcamp wells in  
10 the immediate vicinity of the north half of 13?

11          A           Yes, sir, there's one.

12          Q           Where is that?

13          A           Section 14, in the east half.

14          Q           Is that Elk Oil Aikman No. -- Aikman  
15 State No. what?

16          A           No. 2.

17          Q           Okay. Tell me something about that  
18 well. What is its productivity?

19          A           Well, that well's got a limited produc-  
20 tivity. It's tight. I believe the last month of produc-  
21 tion it made less than 100 MCF per day. It's not that  
22 good.

23          Q           All right. If -- if the preferable  
24 location for Wolfcamp production at the time that you  
25 drilled this well was going to be at a location 1980 from

1 the north and the west line, how did you come to drill the  
2 well where it is?

3 Q Well, initially we -- this was going to  
4 be an Abo test only.

5 Q And where was the optimum location for  
6 drilling of an Abo well in the north half of 13?

7 A That would have been right where we  
8 drilled the well, 660 north and west.

9 Q At the time you drilled your well was  
10 there any existing Abo production adjacent to that spacing  
11 unit?

12 A Yes, sir.

13 Q And where do we find those wells?

14 A In the direct north offset and the dia-  
15 gonal offset to the northwest.

16 Q The north offset in the southwest of 12?

17 A Correct.

18 Q And identify the operator and the well  
19 name.

20 A Yates Petroleum. It's the Whitworth  
21 State No. 3.

22 Q And that's the gas well shown in the  
23 southwest of the southwest?

24 A Yes, sir, of 12.

25 Q All right, and in the southeast of 11

1 you said there was a diagonal offset Abo well?

2 A Correct.

3 Q Okay, who's the operator and what's the  
4 well name?

5 A Yates Petroleum is the operator of that,  
6 also. That's the Desert Rose State No. 2.

7 Q What was the purpose of drilling, then,  
8 your well at the Abo location in 13?

9 A Primarily because we were getting  
10 drained at that location.

11 Q Have you discussed your unorthodox loca-  
12 tion with the offset operators, Elk Oil in the west and  
13 Yates to the north and northwest of you?

14 A Yes.

15 Q Have they objected to approval of your  
16 unorthodox Wolfcamp location?

17 A No, they have not.

18 Q If -- if your primary objective was the  
19 Abo formation at a standard location, why did you deepen it  
20 to the Wolfcamp?

21 A Well, because it was only going to be  
22 approximately \$10,000 more to drill 200 more feet and look  
23 at the Wolfcamp, and at that point we decided to drill that  
24 200 more feet and have a look.

25 Q Let's talk about the paperwork that you

1 went through to accomplish that, Mr. Pool.

2 First of all, you've shown us on Exhibit  
3 Number Two what, sir?

4 A Exhibit Number Two are the signed  
5 waivers from the offset operators, as well as the letters  
6 of notification to those operators.

7 Q Your letters of notification also notify  
8 them of the hearing today?

9 A Yes, they do.

10 Q All right, in response to those notifi-  
11 cations you have signed waivers from both of those com-  
12 panies?

13 A There are three companies, yes.

14 Q All right.

15 A Yes, we do.

16 Q All right, let's go to Exhibit Number  
17 Three, Mr. Pool. Would you identify and describe that ex-  
18 hibit?

19 A Okay. Exhibit Number Three is our ac-  
20 tual application as filed with the Oil Commission for our  
21 simultaneous application for the multiple completion and  
22 unorthodox location.

23 Q All right, this was the letter used by  
24 the Division to set up the hearing today.

25

1           A           Yeah.

2           Q           All, right. Let's -- let's look at one  
3 of the attachments. Do you have a copy of the C-10-- is  
4 that a 2?

5           A           That's a 107.

6           Q           I'm sorry, the C-107.

7           A           Mr. Kellahin, this is actually the ap-  
8 plication itself.

9           Q           All right. This was your application,  
10 then, for obtaining the dual completion and the location  
11 before the Division.

12          A           Yes, sir.

13          Q           Let's turn to the second attachment,  
14 then, and have you describe for us your dual completion.

15          A           Okay. This is simply a schematic of our  
16 proposed multiple completion showing how we will produce  
17 the Abo formation up the casing/tubing annulus and the  
18 Wolfcamp formation up the tubing itself, and they will be  
19 isolated and separated with a packer between the two sets  
20 of perfs.

21          Q           Give us some examples utilizing Exhibit  
22 Number One of similar wells that you have dually completed  
23 for Abo and Wolfcamp production.

24          A           Okay. One example is the Eastland State  
25 No. 2 we referred to earlier.

1 Q In the south half of 13?

2 A That's correct, and it is dually com-  
3 pleted using this mechanical installation; has been pro-  
4 ducing for a year.

5 Q Are there any others shown on Exhibit  
6 Number One?

7 A Not actually on the map. Up in Section  
8 6 I dual completed a well, the Campbell State No. 4, for  
9 Plains Radio, using the same mechanical installation, and  
10 that was completed in the Abo formation and the PrePermian.

11 Q Have you had any difficulty with the  
12 Eastland State No. 2 Well in the south half of 13 in terms  
13 of a dual completion?

14 A No, sir, we sure haven't.

15 Q Let's go to Exhibit Number Four. What  
16 is Exhibit Number Four?

17 A Well, Exhibit Number Four is a copy of  
18 our amendment to our original APD. The original APD re-  
19 flects a permitted TD on the well of 5200 feet, which would  
20 have penetrated through the base of the Abo by about 80  
21 feet.

22 And then the first page of amendment 4,  
23 or Exhibit Four, is the amendment to that APD, but we have  
24 reflected that we want to go to 5400. That was filed  
25 during drilling of the well.

1           Q           The last attachment, then, is the APD  
2 approved by Mr. Williams on April 4th for the drilling of  
3 the Abo well?

4           A           Correct.

5           Q           And you subsequently amended that, which  
6 was approved on May 1st to deepen it to the Wolfcamp?

7           A           Yes, sir.

8           Q           Do you have an engineering opinion, Mr.  
9 Pool, as to whether or not the approval of this application  
10 for production of the Wolfcamp formation at this unortho-  
11 dox location gives you an unfair advantage over any of the  
12 offsetting operators?

13          A           Yes, sir, I do.

14          Q           And what is your opinion?

15          A           My opinion is that we do not have an  
16 advantage over the offset operators.

17          Q           And why not? What are your reasons?

18          A           Well, my first reason is that I have  
19 waivers from all the offsets showing that they don't think  
20 we're going to have an advantage.

21                       My second reason is that the Wolfcamp  
22 well to the west is a marginal well and he's already gotten  
23 his share of the gas, anyway.

24          Q           If you're not allowed to produce the  
25 Wolfcamp at the unorthodox location, do you have an opinion

1 as to whether waste will occur?

2 A Yes.

3 Q And what is that opinion?

4 A Well, we will be wasting quite a bit of  
5 the gas from the Wolfcamp formation. We will not be pro-  
6 ducing it.

7 Q Are there gas reserves underlying the  
8 north half of 13 that in your opinion are not likely to be  
9 produced from the No. 2 Eastland State Well in the south  
10 half of 13?

11 A Yes.

12 Q Is there any difference in the ownership  
13 within the entire Section 13 as to individuals or percen-  
14 tages depending on how you orient your spacing units?

15 A No, sir. We are the operator of the  
16 entire Section 13 and the interest, the working interest is  
17 the same in the entire section, north half, south half.

18 Q Okay. The current dedication for the  
19 well in the south half, the Eastland State No. 2 Well, is  
20 in fact a south half dedication for Wolfcamp?

21 A That's correct.

22 Q And then the Abo's got the southwest  
23 quarter.

24 A The Abo is not producing in Section 13.

25 Q All right, you've dualled that with the

1 PrePermian then.

2 A Right.

3 MR. KELLAHIN: That concludes  
4 my examination of Mr. Pool, Mr. Catanach.

5 We would move the introduction  
6 of his Exhibits One through Four.

7 MR. CATANACH: Exhibits One  
8 through Four will be admitted into evidence.

9

10 CROSS EXAMINATION

11 BY MR. CATANACH:

12 Q Mr. Pool, what is the well in the -- the  
13 No. 1 Well in the northeast quarter of Section 13?

14 A That is the Eastland State No. 1. We  
15 operate that well and it's producing from PrePermian.

16 Q And the well in the southwest of Section  
17 13 is also PrePermian.

18 A Yes, sir.

19 Q Is that 320-acre spacing in that pool?

20 A Yes.

21 Q You said the initial well was drilled at  
22 the location because you thought you would be drained by  
23 the wells in Sections 11 and 12, is that correct?

24 A Correct.

25 Q Is that just due to the proximity of the

1 wells or do you have other evidence that suggests that?

2 A Well, it is due to the proximity; how-  
3 ever, those two wells are producing from the Abo.

4 Q Are those pretty good wells?

5 A They are excellent wells, yes.

6 Q Both those wells?

7 A Between the two wells they produce over  
8 a million cubic feet per day.

9 Q As I understand it, the well hasn't been  
10 completed or tested at all?

11 A That's correct.

12 Q There are no Wolfcamp wells in Section  
13 11 or 12?

14 A Not to my knowledge, no, there are not,  
15 sir.

16 Q So the affected operators are Elk and  
17 Yates, is that correct?

18 A That's correct, yes, sir.

19 Q And they both signed waivers saying they  
20 have no problem with this location.

21 A Right.

22 Q Do you have any idea as to what -- what  
23 that Wolfcamp might produce in that well?

24 A Yes, I do. I think it will probably  
25 produce 5-to-700,000 cubic feet per day, water free.

1 MR. CATANACH: No further  
2 questions.

3 The witness may be excused.

4 MR. KELLAHIN: Mr. Catanach,  
5 at this time I'd like to call Mr. Jack Ahlen. He's a  
6 petroleum geologist and has made a study of the geology of  
7 both the Abo and the Wolfcamp with regards to this parti-  
8 cular case.

9 His exhibits are marked Five  
10 through Nine.

11

12

JACK AHLEN,  
13 being called as a witness and being duly sworn upon his  
14 oath, testified as follows, to-wit:

15

16

DIRECT EXAMINATION

17 BY MR. KELLAHIN:

18 Q Mr. Ahlen, for the record would you  
19 please state your name and occupation?

20 A My name is Jack Ahlen and I'm a geolo-  
21 gist.

22 Q Mr. Ahlen, as a petroleum geologist have  
23 you on prior occasions testified before the Oil Conserva-  
24 tion Division?

25 A Yes, sir, I have.

1           Q           And are you a consulting geologist for  
2 Fred Pool Drilling, Inc.?

3           Q           Yes, I am.

4           Q           For what purpose were you retained, Mr.  
5 Ahlen?

6           A           For the purpose of giving testimony at  
7 this hearing concerning the Eastland State No. 4 Well and  
8 the immediate vicinity surrounding it.

9           Q           In preparation for the testimony today  
10 have you made a study of the Abo and the Wolfcamp forma-  
11 tions in the immediate vicinity of and within the spacing  
12 units for the Eastland State No. 4 Well?

13          A           Yes, I have.

14                           MR. KELLAHIN: We tender Mr.  
15 Ahlen as an expert petroleum geologist.

16                           MR. CATANACH: He is so qual-  
17 ified.

18          Q           Mr. Ahlen, let me direct your attention  
19 first of all, sir, to what is marked as Exhibit Number  
20 Five. Would you identify that display for us?

21          A           It's a map consisting of four sections,  
22 being Section 11, 12, 13, and 14 of Township 9 South, Range  
23 26 East. The essential purpose of this display is to show  
24 the productive interval in each of the wells. I have coded  
25 this map such that those letters -- those wells marked with

1 an "A" are shown to be producing from the Abo formation.  
2 Those wells with a "W" are producing from the Wolfcamp  
3 formation. Those wells with a "P" are producing from the  
4 PrePermian. And this -- this hearing concerns the Abo and  
5 the Wolfcamp designated wells. I have named those wells  
6 specifically such that in Section 11 the Abo producing well  
7 is the Yates Desert Rose No. 2.

8 Section 12 the Abo producing well is the  
9 Yates Whitworth No. 3.

10 Section 13, the Wolfcamp producing well  
11 is the Fred Pool drilling Eastland State No. 2.

12 And in Section 14 the Wolfcamp Producing  
13 Well is the Elk Oil Aikman State No. 2.

14 The proposed dual Abo/Wolfcamp well is  
15 located in the northwest corner of Section 13 and it is  
16 also the proposed Wolfcamp unorthodox location and it is  
17 doubly circled.

18 Q Were Exhibits Five through Nine prepared  
19 by you?

20 A Yes, sir.

21 Q And they were prepared based upon your  
22 study of the geology of both the Wolfcamp and the Abo for-  
23 mations within this immediate vicinity?

24 A Yes, sir.

25 Q Do you, Mr. Ahlen, have a geologic opin-

1 ion as to whether Mr. Pool's well in the Wolfcamp at the  
2 unorthodox location has given him a geologic advantage over  
3 any of the offset operators which therefore ought to result  
4 in a penalty on this well?

5 A No, sir. No penalty should be --

6 Q You've reached that opinion?

7 A I'm reached that conclusion, yes.

8 Q And that is your opinion?

9 A Yes, sir.

10 Q Let's examine first of all before we  
11 look at the Wolfcamp, let's examine the Abo.

12 A Yes, sir.

13 Q Exhibit Number Six is what?

14 A It's a structure map on the top of the  
15 Abo formation. You'll also note that I have circled those  
16 wells producing from the Abo and colored them red, as in-  
17 dicated in the legend.

18 You'll note that through this area dip  
19 is generally to the east and the northeast. The Abo forma-  
20 tion shows a slight nosing to the northeast in the common  
21 corner of the section.

22 Q What does the geology show you in rela-  
23 tion to the -- the structure map show you in relation to  
24 Mr. Pool's well to the offsetting Yates wells in the Abo?

25 A It shows that it's quite similar to the

1 offsetting Abo producing wells --

2 Q All right.

3 A -- in the structural connotation.

4 Q Have you also mapped the porosity in the  
5 Abo in this zone to show its relationship between the Pool  
6 well and the two Yates wells to the north and northwest?

7 A Yes, sir, I have, and I have done that  
8 utilizing the neutron density logs in the area. I have  
9 mapped the -- what I call the Abo porosity isolith based on  
10 neutron density crossover, which is quite commonly used in  
11 this area as a designation of the thickness of the poten-  
12 tial pay zone. It essentially gives you a net thickness of  
13 the porosity.

14 You'll note that the thickest well in  
15 the area is the Yates Desert Rose No. 2 with 29 feet of Abo  
16 porosity.

17 The next thickest is the other Yates  
18 well with 26 feet.

19 The Eastland State No. 24 had 24 feet of  
20 neutron density crossover, to essentially build a sand  
21 blend that -- sand blends that runs east-west in the area  
22 right at the common corner of the four sections. That is  
23 the best place to drill an Abo well geologically, where the  
24 porosity is thickest.

25 Q Looking at Exhibit Number Seven, which

1 is your isopach, is the Pool well, as well as the two Yates  
2 wells, are each of those wells at standard locations for  
3 the 160-acre Abo spacing?

4 A The Yates well appears to be slightly  
5 eccentric from a standard location, the Yates Desert Rose,  
6 but the Whitworth is at a standard location as is the  
7 Eastland State No. 4.

8 Q What was the sequence in which the three  
9 wells were drilled, do you remember?

10 A I do not remember.

11 Q Were the two Yates wells in place before  
12 the pool well was drilled?

13 A Significantly before, yes, sir.

14 Q Let's look at the Wolfcamp geology that  
15 you've examined and first turn to Exhibit 8 and identify  
16 that for us.

17 A This is a structure map on the top of  
18 the Wolfcamp marker. The Wolfcamp producing wells are  
19 marked with the circle colored red. You'll note that there  
20 is one well in the south half of 13 and one well in the  
21 east half of 14 producing from the Wolfcamp formation. The  
22 proposed Wolfcamp unorthodox location is slightly low to  
23 the other two producing wells.

24 Q In examining the Wolfcamp structure, is  
25 structure a factor in locating wells for Wolfcamp produc-

1 tion in this vicinity?

2 A So far it has not been but I suspect  
3 that in the future as development continues, you need to  
4 remain high.

5 Q Okay. Let's look at the Exhibit Number  
6 Nine. Would you identify that for us?

7 A That's an isopach of the Wolfcamp pay  
8 zone that is producing in the two wells where the porosity  
9 is greater than 5 percent. The porosity lens in this in-  
10 stance has a generally north/south trend and the heart of  
11 the porosity is in Section 12 and 13.

12 Q When we look at the Elk Aikman State No.  
13 2 Well to the west, what thickness have you assigned to  
14 that well?

15 A 10 feet.

16 Q When we go up into the southwest of 11,  
17 are there any wells in the south half of 11 that penetrated  
18 the Wolfcamp?

19 A No. The Yates well, the Desert Rose,  
20 did not drill deeply enough to penetrate the Wolfcamp.

21 Q When we look in Section 12, then, do we  
22 have any wells deep enough in that section to provide con-  
23 trol points --

24 A Yes, sir.

25 Q -- for your isopach?

1           A           Yes, sir, in the south half of 12, the  
2 Yates Whitworth No. 3 was drilled deeply enough and it had  
3 9 feet of porosity.

4           Q           When you integrate the isopach and the  
5 structure together, what does that tell you about the  
6 optimum location in which to drill for a Wolfcamp well in  
7 the north half of 13?

8           A           Well, an ideal location for a Wolfcamp  
9 well would be in the southeast of the northwest of 13 be-  
10 cause it would be structurally higher and in the middle of  
11 the porosity zone.

12          Q           Geologically do you see that Mr. Pool  
13 has gained any unfair advantage by his well location in the  
14 Wolfcamp over the offsetting operators?

15          A           No, sir.

16          Q           Why not, sir?

17          A           First of all he didn't choose the most  
18 ideal location.

19                       Secondly, Yates had an opportunity to  
20 produce in Section 12. They have still not perforated that  
21 zone to see if it's productive.

22                       The Whitworth, as well as the Aikman No.  
23 2, has been producing for approximately two years and it  
24 has recovered a significant portion of the reserves under  
25 its proration unit.

1           Q           At the time Mr. Pool elected to pene-  
2       trate the Wolfcamp, is there any doubt in your mind as a  
3       geologist that the optimum potential producing formation in  
4       this immediate vicinity was the Abo formation?

5           A           For that particular location it was  
6       (unclear), yes, sir.

7           Q           And there's no doubt that that was the  
8       primary objective.

9           A           Not in my mind.

10          Q           All right. The primary objective if the  
11       Wolfcamp had in fact been a primary objective, the location  
12       would have been elsewhere.

13          A           Yes, sir.

14                               MR. KELLAHIN: That concludes  
15       my examination of Mr. Ahlen. We'd move the introduction of  
16       his Exhibits Five through Nine.

17                               MR. CATANACH: Exhibits Five  
18       through Nine will be admitted as evidence.

19                               I have no questions of the  
20       witness.

21                               He may be excused.

22                               Anything further in Case 9679?

23                               MR. KELLAHIN: No, sir.

24                               MR. CATANACH: If not, it will  
25       be taken under advisement.

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C E R T I F I C A T E

I, SALLY W. BOYD, C. S. R. DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 9679, heard by me on May 24, 1977.

David R. Catant, Examiner  
Oil Conservation Division

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

June 2, 1989

POST OFFICE BOX 2085  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
LDS: 827-5800

Mr. Thomas Kellahin  
Kellahin, Kellahin & Aubrey  
Attorneys at Law  
Post Office Box 2265  
Santa Fe, New Mexico

Re: CASE NO. 9679  
ORDER NO. R-8942

Applicant:

Fred Pool Drilling, Inc.

Dear Sir:

Enclosed herewith are two copies of the above-referenced  
Division order recently entered in the subject case.

Sincerely,

*Florene Davidson*

FLORENE DAVIDSON  
OC Staff Specialist

Copy of order also sent to:

Hobbs OCD       x        
Artesia OCD       x        
Aztec OCD                   

Other: \_\_\_\_\_  
\_\_\_\_\_