

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO

20 May 1987

EXAMINER HEARING

IN THE MATTER OF:

Application of Anadarko Petroleum Corporation for amendment of the special rules and regulations of the Foster-San Andres Pool, Lea County, New Mexico. CASE 9137

BEFORE: Michael E. Stogner, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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OIL CONSERVATION DIVISION

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## I N D E X

JOHN H. BEAIRD III

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1

2

MR. STOGNER: This hearing

3

will come to order.

4

We will call next Case Number

5

9137.

6

MR. TAYLOR: The application of

7

Anadarko Petroleum Corporation for amendment of the specials

8

rules and regulations of the Foster-San Andres Pool, Lea

9

County, New Mexico.

10

MR. STOGNER: Call for

11

appearances.

12

MR. KELLAHIN: If the Examiner

13

please, I'm Tom Kellahin of Santa Fe, New Mexico, appearing

14

on behalf of the applicant, and I have one witness to be

15

sworn.

16

MR. STOGNER: Doesn't look like

17

there are any other appearances.

18

Will the witness please stand

19

at this time and be sworn?

20

21

(Witness sworn.)

22

23

MR. STOGNER: Mr. Kellahin.

24

25

1 JOHN H. BEAIRD, III,  
2 being called as a witness and being duly sworn upon his  
3 oath, testified as follows, to-wit:

4

5 DIRECT EXAMINATION

6 BY MR. KELLAHIN:

7 Q Mr. Beaird, for the record would you  
8 please state your name and occupation?9 A My name is John Beaird. I'm a senior re-  
10 servoir engineer with Anadarko Petroleum Corporation and  
11 have served in that capacity for five years.12 Q Mr. Beaird, as an engineer for Anadarko,  
13 have you made a study of the facts surrounding Anadarko's  
14 application to increase the gas/oil ratio for the Foster-San  
15 Andres Pool that's docketed as Division Case 9137?

16 A Yes, sir, I have.

17 Q And have you previously testified on  
18 other occasions before the Division Examiner as an expert  
19 witness?

20 A Yes, sir, I have.

21 MR. KELLAHIN: We tender Mr.  
22 Beaird as an expert witness, Mr. Examiner.23 MR. STOGNER: Mr. Beaird is so  
24 qualified.

25 Q Mr. Beaird, to orient the Examiner as to

1 what Anadarko is seeking to accomplish, let me ask you take  
2 what is marked as Exhibit Number One, and first of all lo-  
3 cate and identify each of the three wells that compose the  
4 producing wells in the pool.

5 A Exhibit Number One is a structure map on  
6 the Foster-San Andres Field. The scale of the map is 1-to-  
7 2000. The contour intervals are 25 feet.

8 The producing wells in the Foster-San An-  
9 dres Field are shown in the red dots and there are labels  
10 for each of the three, showing who the operator is.

11 Q Can you identify for us the order in  
12 which the wells were drilled?

13 A Martindale Petroleum's well, located in  
14 Section 5, was the first well drilled in 1957, the discovery  
15 well of the field.

16 Texas American drilled their well next  
17 and then Anadarko drilled their Harvard No. 1 in April of  
18 1984.

19 Q Would you identify for the Examiner the  
20 significance of the acreage that's outlined in yellow?

21 A That is the pool boundary as set by the  
22 Commission for the Foster-San Andres Pool. The red colored  
23 area is Anadarko acreage and then the cross hatched in black  
24 is the proration schedule for the Harvard No. 1 -- proration  
25 unit, I'm sorry.



1 der No. R-8113.

2 Q The order as depicted on Exhibit Number  
3 Two shows that the hearing was held on October 9th, 1985?

4 A Yes, sir, it does.

5 Q And the Commission approved the appli-  
6 cant's request to make the change in the gas/oil ratio limi-  
7 tation effective --

8 A July 1st.

9 Q -- on July 1st. So it was made retroac-  
10 tive for a few months.

11 A Yes, sir, it was.

12 Q What was the purpose of doing that, Mr.  
13 Beaird?

14 A To cancel out overproduction.

15 Q Okay. The current rules, then, commen-  
16 cing on July 1st of '85, provided for a 5000-to-1 gas/oil  
17 ratio.

18 A Yes, sir, they did.

19 Q Do you have an opinion as to whether that  
20 limitation on thke gas/oil ratio is still necessary or  
21 justified?

22 A I do not think it is. I believe that  
23 from the data that we've seen that you could produce the  
24 field at 10,000-to-1 limiting GOR without causing any waste  
25 and without violating correlative rights.

1 Q What is the basis upon which you've  
2 reached that opinion, Mr. Beaird?

3 A We've looked at the performance curve of  
4 the field, specifically the field producing GOR to the life  
5 of production, and the relationship between the old defined  
6 rates and the gas/oil ratio.

7 There's no indication that the field can-  
8 not produce at 10,000-to-1 without causing any waste or vio-  
9 lating correlative rights.

10 Q All right, let's turn to the specific  
11 reasons that cause you to reach that opinion. Let me direct  
12 your attention to the display that is marked as Exhibit Num-  
13 ber Three. Is this an exhibit that you caused to be pre-  
14 pared, Mr. Beaird?

15 A Yes, sir, it is.

16 Q Take a moment and simply identify for us  
17 how to read and understand the exhibit.

18 A Exhibit Number Three is a semilog plot of  
19 producing rates versus time.

20 Oil production is shown in green with a  
21 scale on the lefthand margin. The production in 1957 is  
22 roughly 420 barrels a month through that year.

23 Gas production is shown as GOR. It's  
24 shown in red and its scale is on the righthand margin of the  
25 graph with the production in 1959 being roughly 1700-to-1

1 GOR.

2 Q This is a three-well field summary?

3 A Yes, sir, it is.

4 Q Let' find the point on the display where  
5 we have production from the original discovery well up to  
6 the completion of the second well. What portion of the dis-  
7 play corresponds to production from the discovery well?

8 A Martindale's well was produced by itself  
9 as the only well in the Foster-San Andres Field from 1957  
10 until the middle of 1981, when Texas American drilled their  
11 Foster No. 1.

12 Q You've indicated on the display then the  
13 -- just above the red triangle, Texas American Foster 1?

14 A Yes, sir, I have.

15 Q And that corresponds to the approximate  
16 date at which we have production, then, from two wells in  
17 the field.

18 A Exactly.

19 Q How do we read the display to find out  
20 the point at which Anadarko Harvard No. 1 started contri-  
21 buting production that was credited to the field?

22 A Anadarko's well was completed in 1983 and  
23 it's labeled right above that year on the GOR curve.

24 Q The analysis of this information as de-  
25 picted on this display has caused you to reach the opinion

1 that an increase in the gas/oil ratio for the field to  
2 10,000-to-1 will not cause waste.

3 A Exactly.

4 Q Will you tell me how you read this and  
5 interpret it to support that conclusion?

6 A If you look at the initial performance of  
7 the field before Texas American drilled their well, there  
8 was no gas production in 1957 or '58. The first GOR repor-  
9 ted was about 1700-to-1 for the year 1959.

10 By 1962 the field was producing at over  
11 12,000-to-1 and the GOR increased through time up to over  
12 20,000-to-1 by 1979 and did not drop until Texas American  
13 and Anadarko drilled their wells.

14 The full decline rate through the time  
15 that Martindale produced their well at from 10-to-20,000-to-  
16 1, is a constant decline of roughly four to five percent.  
17 The increase from 1973 to 1979 GOR of 20,000-to-1, the de-  
18 cline rate didn't vary any as it did and was the same as the  
19 decline rate prior to that.

20 Q If we were seeing a reservoir that was  
21 responding to increased gas/oil ratios in a negative fash-  
22 ion, in other words the graph would show us something to  
23 cause us to believe that we could not increase the gas/oil  
24 ratios, how would the curves be displayed?

25 A If you were producing at a GOR that was

1 causing waste in the reservoir and it hadn't been before  
2 this, then your decline rate would steepen and you'd be able  
3 to see that you were leaving reserves in the ground.

4 Q The oil decline rate would steepen?

5 A Yes, sir, it would.

6 Q And do you see that in this reservoir?

7 A No, sir, you don't.

8 Q Would you give the Examiner some of the  
9 information you have with regards to the stage of life of  
10 this reservoir and what pressure information that you have?

11 A When Anadarko drilled their well our DST  
12 upon completion showed the field to have a bottom hole pres-  
13 sure of only 420 pounds.

14 Q This is in 1980.

15 A Yes, sir, it was 1980.

16 Q All right.

17 A There's no record of what the initial  
18 discovery pressure was but I'd assume it would be around  
19 1600 pounds for this depth.

20 So the field is in its late stages of de-  
21 pletion right now.

22 Q In comparing the historical gas/oil ratio  
23 used in the field to the requested 10,000-to-1 gas/oil  
24 ratio, can you draw any comparisons?

25 A The producing GOR that we're asking for

1 is less than what's been produced historically in the field.  
2 If you'll note at the curve, since Texas American and Ana-  
3 darko have been operating in the field, the oil production  
4 rate is the highest it's been since the field was discovered  
5 and the current producing GOR is only 12,500-to-1, which is  
6 the lowest it's been since 1966.

7 So it's not -- we're not asking for any-  
8 thing that hasn't been done previously.

9 Q All right, sir, let's turn now to Exhi-  
10 bits Four and Five and use them in relation to the informa-  
11 tion depicted on Exhibit Number Three, which is your display  
12 of field summary performance.

13 In looking at Number Three we see that  
14 there is, after the completion of the Anadarko well, a con-  
15 tinuing increase in the oil producing rates on a monthly  
16 basis. What is the reasons you have discovered that explain  
17 to you the increase in field oil producing rates from that  
18 period of time forward to the current date?

19 A All the increases seen on both Exhibit  
20 Three and on Exhibit Four, being the field summary curve and  
21 Anadarko's Harvard No. 1 performance curve, were due to  
22 mechanical changes in the operation of the well. Although  
23 the bottom hole pressure was only 420 pounds, the reservoir  
24 does have a high permeability and small changed in the way  
25 you operate as far as the kinds of units you have on the

1 well and how you get it pumped off, makes a significant dif  
2 ference in the amount of oil production you can have.

3 On Exhibit Four on the bottom of the  
4 graph you'll see one through six labels. It shows different  
5 points in time and what we've done, money that we've spent  
6 to try to increase the oil rate from the well.

7 Q Let's turn now, sir, to Exhibit Number  
8 Six, I believe, which is the production totals?

9 Would you identify and describe that ex-  
10 hibit for me?

11 A The production totals for the Foster-San  
12 Andres Field Harvard No. 1 from July of 1986 through April  
13 of 1987 showing production of both oil in barrels for the  
14 month, the gas production for that month, gas allowable,  
15 based on days, any overproduction we had based on a 5000-to-  
16 1 limiting GOR, and then the cumulative overproduction, and  
17 then the last colum shows the actual days the well was pro-  
18 duced for that month.

19 Q Have you caused the offset operators, the  
20 other interest owners in the pool to be notified of Anadar-  
21 ko's request to increase the gas/oil ratios in the pool and  
22 make those increases retroactive to a certain date?

23 A Yes, sir, we have.

24 Q In a response to that notice have you re-  
25 ceived any inquiries or correspondence from any of those

1 companies or individuals?

2 A Yes, sir, we have.

3 Q And what have you received?

4 A I received a letter from David Miller,  
5 the Manager of Operations for Texas American Oil Corpora-  
6 tion.

7 Q And that's marked as Exhibit Number  
8 Seven?

9 A Yes, sir, it is.

10 Q And what is Texas American's position  
11 with regards to the Anadarko application?

12 A They support the application submitted by  
13 Anadarko to increase the gas/oil limitation to 10,000-to-1.

14 Their -- they believe that the perfor-  
15 mance of their well indicates that this is also a mature so-  
16 lution gas drive reservoir that requires an increase in al-  
17 lowable GOR to maintain economic production.

18 Q Let's take a moment, Mr. Beard, and talk  
19 about the economics of production.

20 Have you given consideration to calcula-  
21 ting or trying to determine the effects on ultimate oil re-  
22 covery of a change from 5000 gas/oil ratio to a 10,000 cubic  
23 feet of gas to 1 barrel of oil?

24 A Yes, sir, I have.

25 Q And what have you concluded?

1           A           Just on the basis of the GOR alone the  
2 extra revenue generated by a 10,000-to-1 GOR would allow a  
3 25 percent reduction in the economic limit and that trans-  
4 lates, based on the operating cost and the product prices  
5 we're getting in this area, of over 6000 barrels of oil that  
6 would be left in the ground without 10,000-to-1 limiting GOR  
7 order.

8           Q           Based upon your calculations then, an in-  
9 crease in the gas/oil ratio in your opinion would allow the  
10 reservoir to produce an additional 6000 barrels of oil that  
11 would not otherwise be recovered at the 5000-to-1 rate?

12          A           Yes, sir, on a per well basis.

13          Q           Oh, that's on a per well basis?

14          A           Yes, sir.

15          Q           All right, so for the reservoir with the  
16 three wells we're looking at 18,000 barrels.

17          A           That's almost ten percent of the average  
18 expected ultimate recovery of the wells.

19          Q           All right. Let's talk about the prob-  
20 lems, if any, that may occur with the additional gas produc-  
21 tion from the reservoir.

22                        Do you have a market for the additional  
23 gas that would be produced if the gas/oil ratio is in-  
24 creased?

25          A           Yes, sir, I do.

1           Q           Let me direct your attention, Mr. Beard,  
2 to Exhibit Number Eight and have you identify that exhibit.

3           A           Exhibit Seven?

4           Q           I believe it's Eight.

5           A           Eight, Exhibit Eight is a letter from  
6 Phillips 66 from Christopher Wren, the Manager of Gas Con-  
7 tracts. I contacted him concerning our application and  
8 asked him if there'd be any problem with Phillips taking the  
9 gas that we produced. This is just a letter stating that  
10 they had -- didn't anticipate any problems at this time in  
11 purchasing, processing, and/or marketing additional gas pro-  
12 duction from that lease.

13          Q           The application requests that the Divi-  
14 sion Examiner recommend to the Director that the gas/oil  
15 ratio increase be made retroactive to a particular date.  
16 Have you made a determination of what the effective date of  
17 the rule change would be?

18          A           Yes, sir, I have.

19          Q           And what date would you recommend to the  
20 Examiner that the rule change be effective?

21          A           December 1st, 1986.

22          Q           And what is the basis for using December  
23 1st, 1986, as the effective date?

24          A           We had no opposition --

25          Q           Well, let me ask you, what does it accom-

1 plish? What is the effect of making the date December 1st?

2 A It will cancel out any overproduction  
3 from the Harvard No. 1.

4 Q All right. Is there any adverse conse-  
5 quences to any of the operators or interest owners if it is  
6 made retroactive to December 1st, to cancel the overproduc-  
7 tion?

8 A No, sir, there's not.

9 Q Why not?

10 A The -- from talking to Texas American,  
11 they feel the same way we do, that there will be no viola-  
12 tion of correlative rights. There has not been and there-  
13 fore there shouldn't be any reason for us to be penalized  
14 for that production.

15 We had a market for the gas so the gas  
16 wasn't wasted.

17 There was no reason to penalize us for  
18 that.

19 It's been done before. In fact in this  
20 pool on the previous order the limiting GOR was set retroac-  
21 tive to the date of first overproduction.

22 Q Is this reservoir the type of reservoir  
23 with a drive mechanism necessary that you must preserve and  
24 conserve the gas produced, so that you have to leave the  
25 gas/oil ratio limitation at 5000-to-1?

1           A           No, I don't believe that this field is  
2 that sensitive.

3                       I think we could produce it at 10,000-to-  
4 l without causing any damage to the reservoir.

5           Q           Except for the correspondence which you  
6 have identified, were Exhibits One through Eight prepared  
7 under your direction and supervision?

8           A           Yes, sir, they were.

9                       MR. KELLAHIN: In addition, Mr.  
10 Examiner, Exhibit Number Nine represents a certificate which  
11 we have attested to the fact that we have notified all the  
12 offset operators and the working interest owners and opera-  
13 tors within the pool boundary.

14                      We would at this time, Mr. Exa-  
15 miner, with your approval move the introduction of Exhibits  
16 One through Nine.

17                      MR. STOGNER: Exhibits One  
18 through Nine will be admitted into evidence.

19                      I notice on Exhibit Number Nine  
20 that you show that the hearing was set for May 21st, 1987.  
21 I suggest we keep the record open until tomorrow just in  
22 case something does come up.

23                      MR. KELLAHIN: Let me see if  
24 that is a typo or if we really intended to say the 21st as  
25 opposed to the 20th, Mr. Examiner.

1                   That's a typographical error on  
2 my part, Mr. Examiner. If you'll allow me to initial a  
3 change I will correct that on the original.

4                   The certificate was simply  
5 signed by me yesterday to indicate that on the 28th of April  
6 that we had these notices sent out to all parties. The 28th  
7 will correspond to fall within the required 20-day period  
8 with the hearing set on today's date.

9                   MR. STOGNER: Okay. Was -- do  
10 you have a copy of that actual notice that was sent out to  
11 all these people?

12                   MR. KELLAHIN: Yes, sir, I  
13 believe I do. What they received was a cover letter, copy  
14 of the cover letter to the Commission filing the case along  
15 with a copy of the actual application.

16                   MR. STOGNER: Let's mark this  
17 Exhibit Number Ten and have you submit that.

18                   MR. KELLAHIN: All right.

19                   MR. STOGNER: Let the record  
20 show that Exhibit Number Nine has been amended to reflect  
21 the correct date of the hearing and at this time we will  
22 enter into evidence Exhibit Number Ten, which is a copy of  
23 the cover letter sent to all the working interest owners, a  
24 letter that's described in Exhibit Number Nine.

25

## 1 CROSS EXAMINATION

2 BY MR. STOGNER:

3 Q Mr. Beaird, as far as the perforations  
4 and the production interval with your Harvard Well No. 1 as  
5 compared to the other two wells in the pool, is there any  
6 difference or are they all from the same zone?

7 A We have San Andres perforated and we also  
8 have some perforations in the Premier, which is the bottom  
9 zone in the Grayburg.

10 Q You have some perforations in the  
11 Grayburg?

12 A In the Premier, yes, sir.

13 Q What is the vertical limits of the  
14 Foster-San Andres Pool?

15 A I do not know. The perforations were --  
16 the well was tested in the end of 1984 and when we came to  
17 the Commission for the 5000-to-1 hearing, it was brought out  
18 then, so I didn't think there was any problem with the two  
19 being produced at the same time.

20 We tested that interval and there was no  
21 indication of any fluid entry into the wellbore from the  
22 Premier and we got verbal approval not to squeeze those  
23 perforations off, Mr. Examiner.

24 Q Who did you get verbal from?

25 A I could not tell you who it was. That's

1 just from the transcript of the last hearing. That's the  
2 only way I know that.

3 Q And you're referring to the hearing held  
4 in Case Number 8726?

5 A Yes, sir, the 5000-to-1. It was entered  
6 as testimony there. That's the only way I know that.

7 MR. STOGNER: I'm going to take  
8 administrative notice of Case Number 8726.

9 MR. KELLAHIN; Mr. Examiner, I  
10 hand you a copy of the log for the Anadarko Foster No. 1, in  
11 which are identified the perforations in the San Andres and  
12 then those perforations in the Premier that are not contri-  
13 buting production.

14 MR. STOGNER: When you say  
15 they're not contributing production, are they -- is anything  
16 coming out of it --

17 A No, sir.

18 Q -- salt water or anything?

19 A No, sir. We perforated the San Andres  
20 and then we set a bridge plug above those perforations; per-  
21 forated the Premier, acidized, swabbed it back, and we're  
22 getting no fluid entry. We removed the bridge plug and then  
23 produced the San Andres and the Premier open, knowing that  
24 the Premier wasn't produce anything, and like I said, we got  
25 verbal approval of it. I can't tell you who from, from the

1 Commission not to squeeze those perforations off.

2 MR. STOGNER: Mr. Kellahin,  
3 this log you give me, is that a part of the record in Case  
4 8726?

5 MR. KELLAHIN: Just a moment and  
6 I'll tell you.

7 A Is that the previous hearing?

8 Q Yeah.

9 A Yes, sir, it is.

10 MR STOGNER: It is. Okay.

11 A The same type log.

12 MR. STOGNER: I'll let you have  
13 that log back then.

14 MR. KELLAHIN: It will appear  
15 as Exhibit Two in Case 8726, heard on October 9th, 1985.

16 MR. STOGNER: Thank you. As I  
17 said previous, I'll take administrative notice of that.

18 Q So all the production attributed to your  
19 Harvard Well is from the lower perforations.

20 A Yes, sir, from the San Andres formation.

21 Q Okay, and how are those perforations --  
22 do they correspond with the other perforations in the --

23 A Yes, sir, they do. They do.

24 Q Okay. Are these the only three wells that  
25 have ever produced from this pool?



1 but their oil rate is not such that they have a overproduc-  
2 tion problem at that limiting GOR.

3 Q Now I see from 1981 that there was -- I'm  
4 looking at the green line --

5 A Yes, sir.

6 Q -- that there -- this field experienced  
7 an increase in the production.

8 A Yes, sir, from 1983 to 1986.

9 Q And the Texas American Foster Well No. 1,  
10 of course, I assume was the result then of an increase in  
11 production until your Harvard Well No. 1 came along.

12 A Yes, sir. When Texas American drilled  
13 their well it was -- it was in the middle of the year, so  
14 you get a half a year of its production, so it stayed into  
15 that average.

16 The next year you have a full year of its  
17 production. That's why it looks like a step up, so it's  
18 actually, if it had been plotted on a month by month basis,  
19 there would have been a wedge in the middle of 1981 and then  
20 a decline down till our well was drilled.

21 Q Oh, I see, okay. But any actual increase  
22 in production after the mid-year of '83 was a resultant  
23 (sic) of your well.

24 A Yes, sir, due to mechanical things that  
25 we've changed in the well, the way we've operated it.

1           Q           Now is this well, the Harvard Well, pre-  
2           sently producing?

3           A           Yes, sir, it is.

4           Q           And hasn't been shut in to make up any  
5           overproduction?

6           A           No, sir, not yet.

7           Q           What kind of reservoir is this? What  
8           kind of drive mechanism?

9           A           Solution gas drive reservoir?

10          Q           In a solution gas drive such as this one  
11          in here, do you expect that we'll see more gas production or  
12          less?

13          A           Through time you'd expect to see a higher  
14          GOR but it appears that the field is itself stabilized at  
15          around 20,000-to-1 through the mid-seventies and you can  
16          tell now that the additional wells were down to around  
17          12,500-to-1.

18          Q           Do you expect whenever this 20,000-to-1  
19          is reached that the oil production will have decreased by  
20          then or do you -- how long do you expect to see this in-  
21          crease in the oil production?

22          A           I don't think -- I don't know of anything  
23          that we can do mechanically to the well to get more oil out  
24          of it.

25          Q           So you --

1           A           We have --

2           Q           You're expecting to see a decline?

3           A           Yes, sir.

4           Q           At this point. What effect would it have  
5 on this well if the December 1st retroactive date was not  
6 granted?

7           A           We would have to make up overproduction  
8 of 17.6-million cubic feet of gas.

9           Q           And how long do you think this well would  
10 have to be shut-in so that make-up could occur?

11          A           Is that based on 5000 or 10,000-to-1?

12          Q           Oh, let's go with 10,000-to-1.

13          A           10,000-to-1 you can produce 24-million in  
14 one month, so it would take about half a month shut-in to  
15 cancel off that overproduction.

16          Q           And how about at 5000-to-1?

17          A           It would take twice as long, a month; a  
18 little over a month.

19          Q           How much oil production would you lose if  
20 it was shut-in either half a month or a month and a half?

21          A           500 barrels.

22          Q           And would that be a half a month shut-in  
23 or --

24          A           Yes, sir. The last production we're  
25 showing is about 1000 barrels in March.

1 Q So if we shut down for a month and half  
2 at 5000-to-1 that would be about 1500 barrels?

3 A For a month and a half, yes, sir.

4 Q Okay. I notice on the advertisement that  
5 we advertised the retroactive date of September 1st, 1986,  
6 and at this time you're requesting December 1st, 1986.

7 A Yes, sir, that was an error on my part.

8 Q Okay. There won't be no problem since  
9 the advertisement requested more than what is being requested  
10 today.

11 MR. STOGNER: I have no further  
12 questions of Mr. Beaird.

13 Are there any other questions  
14 of this witness?

15 MR. KELLAHIN: No, sir.

16 MR. STOGNER: Does anybody  
17 else have anything further of Mr. Beaird?

18 If not, he may be excused.

19 Mr. Kellahin, do you have any-  
20 thing further in this?

21 MR. KELLAHIN: No, sir.

22 MR. STOGNER: Case Number 9137  
23 will be taken under advisement.

24

25 (Hearing concluded.)

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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 the foregoing Transcript of Hearing before  
the Oil Conseration 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 Examinor hearing of Case No. 9137,  
heard by me on 10 May 1987.

Michael E. Stogard, Examiner  
Oil Conservation Division