

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

15 July 1987

EXAMINER HEARING

IN THE MATTER OF:

Application of Phillips Petroleum	CASE
Company for a special (oil) allow-	9177
able and downhole commingling,	
Lea County, New Mexico.	

BEFORE: Michael E. Stogner, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Division:

For the Applicant:

W. Thomas Kellahin
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I N D E X

RICHARD JO

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1 MR. STOGNER: This hearing will
2 come to order.

3 We'll call next Case Number
4 9177, which is the application of Phillips Petroleum Company
5 for special (oil) allowable and downhole commingling, Lea
6 County, New Mexico.

7 Call for appearances.

8 MR. KELLAHIN: Mr. Examiner,
9 I'm Tom Kellahin of Santa Fe, New Mexico, appearing on
10 behalf of the applicant and I have one witness to be sworn.

11 MR. STOGNER: Are there any
12 other appearances?

13 Will the witness please stand
14 and be sworn?

15

16 (Witness sworn.)

17

18 MR. STOGNER: Mr. Kellahin.

19 MR. KELLAHIN: Thank you, sir.

20

21 RICHARD JO,

22

23 being called as a witness and being duly sworn upon his
24 oath, testified as follows, to-wit:

25

DIRECT EXAMINATION

1
2 BY MR. KELLAHIN:

3 Q Mr. Jo, for the record would you please
4 state your name?

5 A My name is Richard Jo.

6 Q And your last name is spelled J-O?

7 A J-O.

8 Q Have you previously testified before the
9 Division?

10 A No, sir.

11 Q Would you describe for the Examiner what,
12 if any, professional degrees you hold?

13 A Okay, I've got Bachelor of Science in
14 petroleum from University of Missouri, Rolla, in December of
15 1984.

16 Q Subsequent to graduation, Mr. Jo, have
17 you worked in the field of petroleum engineering?

18 A I'm currently working for Phillips
19 Petroleum Company as a reservoir engineer.

20 Q As a reservoir engineer, Mr. Jo, have you
21 made a study of Phillips' wells that are the subject of
22 Phillips' application for a special (oil) allowable and
23 downhole commingling in the Eunice-Monument-Grayburg-San
24 Andres Pool?

25 A Yes, sir, I have.

1 MR. KELLAHIN: We tender Mr. Jo
2 as an expert reservoir engineer.

3 MR. STOGNER: Mr. Jo is so
4 qualified.

5 Q Mr. Jo, let me direct your attention to
6 Exhibit Number One. First of all, sir, would you identify
7 for us what we are looking at?

8 A Exhibit Number One is lease plat.

9 Q Within the lease plat could you identify
10 for us how you have located the Phillips acreage and the
11 Phillips wells that are the subject of this application?

12 A Okay. Our Phillips New No. 1 and No. 2
13 are located in Section 26, Township 20 South, Range 36 East.
14 It's 80-acre spacing and it's located in Unit A and Unit H,
15 respectively.

16 Q And it's that area outlined in blue?

17 A Yes, sir.

18 Q When we look to the east of that, there
19 is an area outlined in yellow. What is that?

20 A It's a Eunice-Monument South Unit, a
21 waterflood project operated by Chevron.

22 Q When we talk about the two Phillips
23 wells, the No. 1 Well and the No. 2 Well, what formations
24 are we discussing?

25 A We're discussing Eumont and Eunice-Monu-

1 ment-Grayburg.

2 Q Okay. Within this area we have the Eu-
3 mont Gas Pool, do we not?

4 A Yes, sir.

5 Q And immediately below the Eumont Gas Pool
6 we have the Eunice-Monument Oil Pool.

7 A Yes, sir.

8 Q Excluding Chevron's Eunice-Monument South
9 Unit, when we look at the Phillips acreage what is the for-
10 mation that designates a separation between the gas pool and
11 the oil pool?

12 A The Grayburg.

13 Q The top of the Grayburg, then, separates
14 the two.

15 A Yes, sir.

16 Q Is there a different definition applied
17 to the Chevron operated unit to the east when we talk about
18 whether or not a well is within a particular pool or not?

19 A Would you mind repeating the question?

20 Q Yes, sir. When we look at the Chevron
21 acreage, they have different nomenclature or different de-
22 scription of how they handle the vertical limits for the
23 disposal wells.

24 A Okay.

25 Q Is that not true?

1 A Yes, sir.

2 Q Has Chevron commenced the waterflood of
3 the Grayburg and San Andres intervals in their waterflood
4 project?

5 A To the best of my knowledge, yes, sir,
6 they have.

7 Q What are you seeking to accomplish on
8 behalf of your company for the two wells located on the
9 exhibit?

10 * A First, we'd like to produce our New No. 2
11 with perforations in Eumont-Queen dry gas zone from 3540 to
12 3670 in conjunction with the open hole interval from 3701
13 feet to 3880 feet, which encompasses Lower Queen and
14 possibly Upper Grayburg.

15 Q Okay. Let's look at the New No. 2 again.
16 There is an open hole interval in the Eumont Gas Zone and
17 approximately what is that distance, 3540 to what?

18 A No. 1 or --

19 Q I thought you said it was the No. 2.
20 Yes, sir, we were looking at the No. 2 Well.

21 A Oh, I'm sorry. Yes, sir, it's No. 2.
22 It's from 3540 to 3670.

23 Q All right, and when we get into the oil
24 zone what are we talking about? What are the distances?

25 A The top of Grayburg, when Chevron uni-

1 tized their --

2 Q No, sir, you -- I didn't make myself
3 clear.

4 A Okay.

5 Q In the No. 2 Well we have talked about
6 the perforated interval in that wellbore.

7 A Yes, sir.

8 Q You've identified for us the Eumont Gas
9 Zone.

10 A Uh-huh.

11 Q You've given me a distance, vertical feet.

12 A Uh-huh.

13 Q What -- in that wellbore what is the
14 lower vertical distance for the oil zone? You just read it.
15 What was the first --

16 A 3701 to 3880.

17 Q All right, 3880, all right.

18 First thing you're seeking to do is to
19 commingle those two zones.

20 A Yes, sir.

21 Q What is the situation with the Eumont Gas
22 Zone, is that productive?

23 A No, sir. It's been depleted and --

24 Q All right, what about the oil zone? Does
25 it --

1 A We --

2 Q -- produce?

3 A Yes, it does. We deepen it back in May
4 of 1987. It's currently making 49 barrel of oil and 124 MCF
5 per day.

6 Q Okay. When we look at the New No. 1
7 Well, the well in Unit letter A, --

8 A Uh-huh.

9 Q -- what is the situation on that well in
10 terms of its perforated interval?

11 A This was completed back in 1938 and at
12 that time it was completed in the Eunice-Penrose Pool, and
13 back in 1955 Commission ordered and they contracted a Eunice
14 -- they divided Eunice Queen from the -- from the Grayburg.
15 They put everything above Queen, they call it Eumont and
16 then below, including Grayburg, they call it Eunice-
17 Grayburg.

18 Q In the New No. 1 Well are we dealing then
19 with any of the gas zone?

20 A Yes, sir.

21 Q All right. We have a portion in that
22 wellbore that's also open in what the Commission defines as
23 the Eumont Gas Zone.

24 A That's correct.

25 Q Or the gas pool, as well as the lower

1 portion of it which is in the Eunice-Monument Oil Pool.

2 A Yes, sir, about 20 feet of it.

3 Q You want approval to downhole commingle
4 those?

5 A Yes sir.

6 Q All right, in addition what else do you
7 want, Mr. Jo?

8 A We'd like to ask for capacity allowable
9 for New No. 2 and New No. 1 should either well respond to
10 the Chevron's water project currently being initiated.

11 Q Do you have an opinion as to whether or
12 not either one of those wells is beginning to experience a
13 response from the waterflood?

14 A Yes, sir.

15 Q Under the downhole commingling rules, is
16 your production from each well limited to 20 barrels a day?

17 A That's correct.

18 Q Currently your No. 2 Well has the capa-
19 city to produce in excess of that allowable?

20 A Correct.

21 Q And it produces about 49 barrels a day?

22 A Yes, sir.

23 Q Let's begin to examine now, Mr. Jo, some
24 of the data that you have compiled that supports your opin-
25 ion with regards to the application.

1 Let me direct you now to Exhibit Number
2 Two. Would you identify that for us, please?

3 A Yes, sir. This is the current monthly
4 production as of March, 1987.

5 Q When we look at the Phillips wells
6 outlined in blue, there are some zeros on the No. 2 Well.
7 Would you give us the information to replace the zeros with?

8 A Yes, sir, it's 49 barrels of oil and 4
9 that is water and 124 MCF per day.

10 Q And that will be as of what month?

11 A As of June, 1987.

12 Q Okay. All the rest of the information is
13 taken from records and represents the March '87 monthly
14 production?

15 A Yes, sir.

16 Q The first number is the oil production?

17 A Yes, sir.

18 Q The second number is what?

19 A Water.

20 Q Water, and then the last is the gas.

21 Having tabulated this information now,
22 Mr. Jo, what use have you made of this exhibit in analyzing
23 whether or not your No. 2 Well is receiving any flood
24 response?

25 A To the best of my knowledge, we are

1 seeing a waterflood response --

2 Q All right.

3 A -- at this time.

4 Q What -- what information on this exhibit
5 supports that opinion?

6 A If you go down to Section 36, that's Unit
7 G, which is Well No. 144, that is producing the largest oil
8 and water at this time.

9 Q All right, sir, and what does that tell
10 you?

11 A It tells -- it tells me that they are
12 getting some kind of water response from the injection.

13 Q How does that production level on the
14 144 Well compare to the production levels you are seeing on
15 your No. 2 Well?

16 A Would you mind repeat that question?

17 Q Yes, sir. You've drawn us a comparison
18 between --

19 A Yes, sir.

20 Q -- the No. 2 Well and the 144 Well.

21 A Yes, sir.

22 Q You have said the 144 Well is showing a
23 flood response within the unit.

24 A Yes, sir.

25 Q How does the volume of that response in

1 144 compare to what you're seeing in your No. 2 Well?

2 A I would say it's real compatible as far
3 as the response that we're getting. I guess I'm not quite
4 understanding.

5 Q All right. The volume of response
6 between the No. 2 Well and the 144 Well, is that a direct
7 comparison or are they dissimilar?

8 A It's a direct comparison.

9 Q What is the closest injection well in the
10 Chevron Waterflood to your wells?

11 A Right east of us there's 106 is an
12 injector that's the closest to our New No. 2.

13 Q All right. All right, Mr. Jo, let's turn
14 to Exhibit Number Three, which is the cross section.

15 Was this exhibit prepared by you or under
16 your direction and supervision?

17 A Yes, sir.

18 Q What is the purpose of the exhibit?

19 A We're just trying to show our Phillips
20 No. 1 and No. 2, comparing this to the unit, the unitized by
21 Chevron.

22 Q Let's talk again now, using this as an
23 illustration, Mr. Jo, of some of the definitions that we've
24 been using and will continue to use.

25 Let's take the second wellbore from the

1 left, which is the Phillips No. 2 New Well.

2 A Yes, sir.

3 Q At the bottom there's a dashed line
4 that's labeled in green. It says "Grayburg".

5 A Yes, sir.

6 Q All right. Is this the formation top for
7 the Grayburg?

8 A Yes, sir, according to the logs.

9 Q And does this separate, then, the Eumont
10 gas pool from the Eunice-Monument Oil Pool?

11 A Yes, sir.

12 Q When we ^{get} ~~got~~ to the unit, the Chevron
13 Unit, you have on the various logs shaded a -100 foot subsea
14 interval in yellow. What is the purpose of doing that?

15 A That yellow highlighted -100 subsea is
16 the unit they propose under Eunice-Monument South Unit,
17 either -100 subsea or the Grayburg formation, whichever is
18 higher. In this case it comes out to be -100 feet subsea
19 was the higher.

20 Q When we move outside of the unit and look
21 at the two logs for the Phillips wells we see a crossover
22 between the two pools, do we not?

23 A Yes, sir.

24 Q Is this an unusual occurrence in these
25 two pools?

1 A No, sir. According to their -- their
2 testimony, I was able to gather there were about 150 --
3 between 150 to 170 wells that overlap between Queen and
4 Grayburg in that unit.

5 Q Rather than shift the pool vertical
6 limits Chevron selected the utilization of a different defi-
7 nition.

8 A Yes, sir.

9 Q So that they get all their flooded inter-
10 val within one definition.

11 A That's true.

12 Q So they've crossed over in the pool, have
13 they not?

14 A Yes, sir.

15 Q All right. How do you propose to solve
16 the problem, that similar problem for the two Phillips wells
17 in terms of this crossing over in the two pools?

18 A We'd like to ask for a -- as I mentioned
19 before, we'd like to ask for a downhole commingling in No. 2
20 and let us produce at our capacity.

21 Q Okay. Let's talk about whether or not
22 there is any risk attributable to the downhole commingling.
23 All right, looking at the No. 2 Well --

24 A Yes, sir.

25

1 Q -- do you see any reason to isolate or
2 squeeze off the gas interval in the Eumont Gas Zone?

3 A No, sir. I don't see any -- any risk of
4 not squeezing off this. This zone was depleted and the
5 structure dips as you go to the west, west field, and why
6 squeeze it off when later on you might be able to seeing
7 some kind of waterflood response from offset projects, and
8 the Eumont on the west side is known to have including oil
9 rather than Eumont gas.

10 Q Do you propose to allocate any of the
11 production to the Eumont Gas Zone?

12 A No, sir.

13 Q So it would be 100 percent allocation,
14 then, to the oil zone?

15 A That is correct.

16 Q Do you see any risk to adversely affect
17 any of the correlative rights of anyone by doing that?

18 A No, sir.

19 Q Let's talk about the Exhibit Number Four
20 simply so we can keep the Examiner straight on the type log
21 used on Exhibit Three.

22 If you'll still keep Exhibit Three out
23 and then refer to Exhibit Four.

24 A Okay.

25 Q What's the purpose of Exhibit Four?

1 A Exhibit Four was what they used to create
2 their pool, which was -100 subsea for the top of Grayburg.
3 This case it was -- the unitized interval was 3666 feet to
4 the bottom of San Andres, which is 5283 feet, and Exhibit
5 Number Three is just a type log they prepared for their
6 technical report.

7 Q All right, if the Examiner wants to use
8 the Continental Oil Well log on 4, he may simply substitute
9 that as a type log.

10 A That's correct, sir.

11 Q All right. Let's go to Exhibit Number
12 Five now, Mr. Jo.

13 Would you summarize for us the informa-
14 tion on Exhibit Number Five?

15 A Okay. This Exhibit Five is just a well
16 history on our New No. 1 and New No. 2. As I mentioned be-
17 fore, New No. 1 was completed in Eunice-Penrose-Grayburg
18 back in 1938 and with the Commission's order they placed our
19 New No. 1 into the Eumont Pool simply because majority of
20 our perforations was open in Eumont, the Queen Zone.

21 Q Have you changed those perforations in
22 the No. 1 Well?

23 A No, sir.

24 Q Okay. Let's look at the No. 2 Well and
25 have you discuss for us the history of that well.

1 A Okay. No. 2 was completed in 1938 in
2 Eunice-Penrose and then we plugged it back 1946 to Eumont
3 Queen dry gas zone. At that time before -- the production
4 before was 4 barrels oil per day, in 1987, May of '87 we
5 deepened it to 3880.

6 We may or may not be in Grayburg but we
7 IP'ed at 51 barrels of oil per day.

8 Q Let's see if I understand how this was
9 done.

10 On the No. 2 Well it was produced out of
11 the Eunice-Monument Oil Pool.

12 A Yes, sir.

13 Q It was abandoned when the oil got down to
14 about 4 barrels a day.

15 A Correct.

16 Q And then went back up into the Queen Gas
17 Zone and produced that?

18 A Yes, sir.

19 Q You now have come back in in 1987, deep-
20 ened the well back into the Eunice-Monument Oil Pool.

21 A Yes, sir.

22 Q And instead of getting 4 barrels a day
23 you now get how much, 49?

24 A 49, sir.

25 Q 49 barrels a day. What conclusion do you

1 reach as an engineer from doing that?

2 A The only conclusion that I can derive to
3 would be some kind of pressure support or waterflood
4 response.

5 Q When we look at Exhibit Number Three and
6 in fact Exhibit Number Two, are there any other waterfloods
7 in the area or salt water disposal wells in this formation
8 to which you could attribute the waterflood other than the
9 Chevron waterflood?

10 A No, sir.

11 Q We don't have any offsetting salt water
12 disposal wells in this formation?

13 A Not that I know of.

14 Q Okay, and there are no other floods in
15 the area?

16 A No, sir.

17 Q Let's turn now, sir, to Exhibit Number
18 Six and have you identify that exhibit.

19 A Okay. This is just a history of our pro-
20 duction plot for New No. 1.

21 Q All right, sir, and if we look at Exhibit
22 Number Seven, would you identify that for us.

23 A Okay, it's a history of our New No. 2.
24 As you note, this Queen was depleted down to less than 2 MCF
25 a day.

1 Q Do you have a recommendation to the Exam-
2 iner as to what levels of production you might anticipate
3 you would have if the Commission gives you a special capac-
4 ity allowable for the wells?

5 A At this time the offset waterflood pro-
6 ject, they expect their peak production to be about 100 bar-
7 rels per day per well and I think we will be able to produce
8 that.

9 Q Currently you're seeking an allowable at
10 capacity?

11 A Yes, sir.

12 Q And do you need that allowable because of
13 the limitations on the existing allowables that would be as-
14 signed?

15 A Yes, sir, existing allowable only lets us
16 produce at 20 barrels per day and we're producing 48 at this
17 time.

18 Q Were Exhibits One through Seven prepared
19 by you or compiled under your direction and supervision, Mr.
20 Jo?

21 A Yes, sir.

22 Q Do you have an opinion, sir, as to
23 whether or not the approval of this application will prevent
24 waste?

25 A Would you mind repeating the question?

1 Q Yes, sir. Do you have an opinion as to
2 whether or not the approval of this application will prevent
3 waste of hydrocarbons?

4 A Yes.

5 Q All right. Do you have an opinion as to
6 whether or not approval of this application will protect
7 correlative rights?

8 A Yes.

9 Q Okay. With regards to the correlative
10 rights, Mr. Jo, if Phillips' request for a capacity
11 allowable and downhole commingling is not approved, what
12 will happen to your share of the oil?

13 A It will be swept away and would never be
14 recovered. As you note at Exhibit Two, our offset wells are
15 P&A'd and the oil that's going to be swept will probably
16 will never be recovered and would be a waste.

17 MR. KELLAHIN: I have no
18 further questions of Mr. Jo, Mr. Stogner.

19 We would move the introduction
20 of Phillips' Exhibits One through Seven.

21 MR. STOGNER: Exhibits One
22 through Seven will be admitted into evidence at this time.

23 Thank you, Mr. Kellahin.

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CROSS EXAMINATION

BY MR. STOGNER:

Q Mr. Jo.

A Yes, sir.

Q Do some housekeeping here a little bit, now, you show an 80-acre proration unit, do you not?

A Yes, sir.

Q That's for the Eumont, I would assume. Do you know when that nonstandard 80-acre proration unit was given and to what well was it given to and was there ever simultaneous dedication or was there ever a moment when both wells produced from the Eumont?

A I can't recall the information at this time, sir.

MR. KELLAHIN: Let me take a moment to see if I can figure that out.

We'll get that information for you, Mr. Stogner. I think we have it in the hearing room.

MR. STOGNER: Okay.

MR. KELLAHIN: If you'll permit Mr. Mueller to respond, Mr. Stogner, I think he can tell you the sequence or the historical spacing for the -- for the unit. He perhaps remembers better than anyone here.

MR. STOGNER: Okay.

1 MR. MUELLER: I'm the oldest.

2 MR. KELLAHIN: He's the oldest.

3 MR. STOGNER: Why don't you
4 state your name and since this will just be on the record, I
5 won't consider it as testimony but will you state your name
6 and who you work for?

7 MR. MUELLER: Yeah, my name is
8 William J. Mueller, M-U-E-L-L-E-R, I pronounce it Miller.
9 I'm the Reservoir Engineering Supervisor for Phillips Petro-
10 leum Company over southeast New Mexico.

11 And I would like, in reference
12 to your question here as to the nonstandard unit for the New
13 No. 2, that I believe had to be obtained at the time we re-
14 completed it into the dry gas zone in 1947 -- 46, and as to
15 your point was there ever simultaneous dedication, I'd have
16 to say yes because I think in 1955, when the Commission went
17 through here and took all the Queen out of the Eunice Pool
18 and put it up into the Eumont Pool, they had to go to wells
19 like our New No. 1 that had Queen open and Grayburg and call
20 it something and they elected to call it Eumont-Queen be-
21 cause that's what most of the interval was even if there was
22 some Grayburg there.

23 So there was simultaneous dedi-
24 cation.

25 MR. STOGNER: I'll also take

1 note of Order R-520 and the well files that we have here in
2 our office to get that straightened out.

3 I believe 520, I know,
4 grandfathered in a whole bunch of 160 acres but I can't
5 recall whether it grandfathered in a whole bunch of some of
6 the smaller ones.

7 But I'm sure we'll get that
8 straightened out. At this time, however, subsequent to to-
9 day, is it your contention that the Eumont in both wells be
10 simultaneously dedicated to an 80-acre proration unit?

11 MR. MUELLER: Yes.

12 MR. STOGNER: Okay. And of
13 course the Eunice-Monument is 40 acres so we'll have simul-
14 taneous dedication of the Eumont and each of the Eunice-Mon-
15 ument wells will be dedicated to 40.

16 Okay, you want downhole com-
17 mingling on both wells for both zones and the special allow-
18 able for the Eunice-Monument in both wells.

19 Now the special allowable, is
20 it like your previous case where you want an unlimited top
21 allowable?

22 MR. KELLAHIN: Yes, sir, we'd
23 like to request that.

24 A Yes, sir.

25 Q All right, let's talk about allocations

1 for each well for both zones.

2 Do you have a proposal for production al-
3 location at this time?

4 A I would like to ask for at its capacity,
5 whatever it can produce.

6 Q Okay, I'm talking about the allowable, so
7 much percentage of oil coming from the Eumont and so much
8 percentage from the --

9 A Oh, we'd like to allocate zero percent to
10 the Queen and 100 percent to the Eunice-Monument-Grayburg.

11 Q That's oil.

12 A Oil, yes, sir.

13 Q Okay, how about gas?

14 A Yes, sir, all 100 percent gas goes to --
15 also goes to the Eunice-Monument.

16 Q You mean the Eumont.

17 MR. KELLAHIN: No, sir, it
18 would have to be the Eunice-Monument. The Eumont won't pro-
19 duce.

20 A It's depleted, sir.

21 Q Oh, well, why are we downhole comming-
22 ling, then?

23 MR. KELLAHIN: Because we
24 couldn't figure out any other administrative or procedural
25 way to get us out of the bind over these two pools other

1 than changing the vertical limits. I guess it was suggested
2 by the District that commingling was a way to get us out of
3 the problem, so it's not a typical commingling case.

4 MR. STOGNER: This goes back --
5 okay.

6 MR. KELLAHIN: This is one of
7 those strange wells.

8 MR. STOGNER: Okay, things are
9 becoming clear now.

10 MR. KELLAHIN: Well, it's dif-
11 ficult to make it clear.

12 Chevron fixed this problem by
13 simply having the vertical limits changed so that they got
14 either the higher of two factors. One, a subsea interval of
15 100 feet, or the top of the Grayburg, whichever is
16 shallower. They fixed 100 wells that way.

17 We unfortunately are right next
18 to it and can't utilize that unitization for the fix, and so
19 to get us out of the predicament of being in two pools only
20 one of which is productive in the wellbore, we're saying,
21 well, maybe downhole commingling procedure is the way to
22 solve the problem.

23 At this point, though, the Dis-
24 trict won't give us an allowable on a permanent basis until
25 we figure out something to call it.

1 MR. STOGNER: Oh, I understand
2 now. Believe it or not, I understand that.

3 Okay, in that case I have no
4 further questions.

5 Are there any other questions?

6 If not, he may be excused.

7 Mr. Kellahin, do you have
8 anything further?

9 MR. KELLAHIN: No, sir.

10 MR. STOGNER: All right. Case
11 Number 9177 will be taken under advisement.

12

13 (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 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. 9177,
heard by me on 15 July 1987.

M. H. [Signature], Examiner
Oil Conservation Division