

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

8 June 1983

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Company  
for salt water disposal and an unortho-  
dox location, Union County, New Mexico.

CASE  
7869

BEFORE: Michael E. Stogner, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation  
Division:

W. Perry Pearce, Esq.  
Legal Counsel to the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87501

For the Applicant:

Clyde Mote, Esq.  
Amoco Production Company  
Houston, Texas

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I N D E X I

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LARRY W. SHEPPARD

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STATEMENT BY MR. WILLIAM P. HECKEL

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1  
2 MR. STOGNER: We'll call next  
3 Case Number 7869.

4 MR. PEARCE: That case is on the  
5 application of Amoco Production Company for salt water  
6 disposal and an unorthodox location in Union County, New  
7 Mexico.

8 MR. MOTE: Mr. Examiner, I'm Clyde  
9 Mote, attorney, who, in association with Bill Carr, represent  
10 Amoco Production Company, and we'll have one witness.

11 MR. PEARCE: Are there other appearances  
12 in this matter?

13 MR. HECKEL: I'd like to -- I'd  
14 like to make a brief statement.

15 MR. PEARCE: Okay. Would you  
16 prefer to make that now or at the close of the testimony  
17 in this case?

18 MR. HECKEL: I think at the close  
19 will be satisfactory.

20 MR. PEARCE: Okay, thank you.

21 (Witness sworn.)

22 MR. MOTE: Mr. Examiner, Rule  
23 104-B-III of the Regs of this Division provide that if  
24 a wildcat well in Union County "may reasonably be presumed  
25 to be productive of gas" then a well should be located  
on 160-acre unit, consisting of a quarter quarter section,

1  
2 which well shall not be located closer than 660 feet to  
3 any outer boundary, or closer than 330 feet from any inner  
4 boundary.

5 Now, the well which is the subject  
6 of this application is 500 feet from the northern boundary  
7 of the section; however, we do not believe that this would  
8 require, this application to be considered an unorthodox  
9 location for two reasons: First of all, we don't believe  
10 the proposed well will be reasonably presumed to be productive  
11 of gas; therefor, statewide rules would only require a  
12 40-acre location on which the proposed well would be a  
13 standard location. Number two, the Bravo Dome CO<sub>2</sub> Unit  
14 has been unitized and it is our opinion that an interior  
15 well such as this, further than 660 feet from the outer  
16 boundary and further than 330 feet from any interior  
17 line would be at a standard location.

18 Now, if the Division agrees with  
19 us in this interpretation wholly or in part, and determines  
20 that an unorthodox well location application is unnecessary,  
21 they we'd move to dismiss that portion of our application  
22 dealing with an unorthodox location; however, should  
23 the OCD disagree with us in this regard, then we request  
24 that this case be readvertised for the June 23rd, 1983,  
25 hearing, because the advertised location is incorrect  
as the east/west description is correctly stated as being  
765.7 feet from the west line as compared to the advertised  
location of 565 feet from the west line of Section 26,

Township 19 North, Range 34 East.

In any event, we wish to proceed with the merits of our application at this time.

MR. STOGNER: Mr. Mote, the non-standard location portion of this case will be dismissed, since it has been the practice in the past by the New Mexico Oil Conservation Division to dedicate 40-acre spacing to a disposal well, and since this application meets those guidelines for a standard location for a well dedicated 40 acres, the nonstandard location portion of the application will be dismissed; however, in the unlikely event that this case happens to be productive of natural gas or CO<sub>2</sub>, we would expect Amoco then to apply for a nonstandard location for a 160.

MR. MOTE: Okay, good.

LARRY W. SHEPPARD,  
being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. MOTE:

Q Mr. Sheppard, would you please state your name, by whom employed, in what capacity and location?

A My name is Larry W. Sheppard. I'm employed by Amoco Production Company as a Staff Petroleum Engineer. I work in our Houston West Region, Proration Section.

1  
2 Q Have you previously testified before the  
3 Division and are your credentials as an expert in the  
4 field of petroleum engineering a matter of public record?

5 A They are.

6 Q Are you familiar with the subject matter  
7 of this application?

8 A Yes, sir, I am.

9 MR. MOTE: Is there any question  
10 concerning the witness' qualifications?

11 MR. STOGNER: He is qualified.

12 Q You'll be asked to testify concerning certain  
13 exhibits. Were these exhibits either prepared by you  
14 or under your supervision and direction?

15 A Yes, sir, they were.

16 Q All right, I'll ask you to first turn to  
17 what has been marked as Amoco's Exhibit Number One, and  
18 please identify this exhibit for the record.

19 A Exhibit Number One is a map which shows  
20 the entirety of the unit encompassed by the Bravo Dome  
21 Carbon Dioxide Gas Unit.

22 Q What are the various colored arrows shown  
23 on this map for?

24 A As shown on the legend in the upper lefthand  
25 corner of the map, the red arrow depicts our proposed  
disposal well; the blue arrow depicts the locations from  
which we obtain fresh water samples in accords with the  
Commission Form C-108, to provide as evidence in this

1  
2 case; the green arrow depicts the well from which we obtained  
3 a sample of Glorieta water, which will be entered as evidence  
4 in this case; and the orange arrow depicts the well from  
5 which we obtained a sample of Tubb water, which also will  
6 be entered into evidence in this case.

7 Q All right, would you please locate for  
8 the Examiner the approximate location of the AmeriGas  
9 Property, please?

10 A Amerigas property is located to the west  
11 of our proposed disposal site and, in fact, is located  
12 west of the well in which we have produced water from  
13 the Glorieta, that being in Township 19 North, Range 32  
14 East. It is approximately 20 to 25 miles to the west  
15 of our proposed disposal site.

16 Q The AmeriGas property is 20 to 25 miles  
17 west, is that correct?

18 A To the best of my knowledge, that is correct;  
19 somewhere in the range.

20 Q And the Glorieta salt water well is somewhere  
21 in between those two locations, is that correct?

22 A That is correct.

23 Q All right, if you will, please, turn to  
24 what has been marked Amoco's Exhibit Number Two and identify  
25 this for the record.

A Exhibit Number Two is a map of the portion  
of the Bravo Dome Carbon Dioxide Unit in the immediate  
vicinity of the proposed disposal well.

R.

Q All right, and why do you have a 1/2 mile radius shown on this exhibit?

A This exhibit was prepared in order to fulfill the requirements as set forth in Commission Form C-108, which states that we must show all leases within two miles of the disposal well. It also states that we are to draw a 1/2 mile radius around the proposed disposal well. The area circumscribed by that radius is an area of review and that is an area in which any well that has penetrated the proposed disposal horizon will be reviewed.

Q Are there any wells that have penetrated that formation located within the 1/2 mile area?

A No, sir, the nearest well is located in Section 23, and as the Examiner can see, that falls just outside the boundary of the 1/2 mile radius.

Q Just to the north of the proposed location, the northeast of the proposed location, you show a well 1934 251-K. Are you going to discuss this well later on in your testimony?

A Yes, sir. Seeing as how there are no wells in the section where we propose the disposal well, we're going to use 1934 251-K as a type log in order to show the approximate depths at which we expect to encounter the various formations.

Q All right, go to your Exhibit Number Three and identify this exhibit for the record.



1  
2 A Exhibit Number Three is a copy of the  
3 Commission Form C-102, which is the acreage dedication and  
4 well location plat. This shows the staked location of the  
5 proposed well, that being 500 feet from the north line,  
6 765.7 feet from the west line, Section 26, Township 19  
7 North, Range 34 East. That is in Union County, New Mexico.

8 Q This constitutes a change from the west  
9 line of the position of the well as advertised. Why was  
10 this change made?

11 A The first location that was staked was  
12 too far to the west to suit the purposes of Amoco. The well  
13 is to be located on our compression facility site and the  
14 first location staked was too far removed from that site in  
15 order to easily facilitate the disposal of water from that  
16 plant.

17 Q And will this proposed facility site be  
18 the subject of a later exhibit in your testimony?

19 A It will.

20 Q Turn to your Exhibit Number Four. Would  
21 you please identify this for the record?

22 A Exhibit Number Four is a copy of the  
23 Commission Form C-108. This exhibit, with attachments, has  
24 already been submitted to the Division; however, we are  
25 entering it as a separate exhibit and in order to show that  
we are complying with the various requirements of this.

Q All right, would you discuss any items

1  
2 of particular significance on this completed application for  
3 the Examiner?

4 A If the Examiner would turn to the  
5 attachment portions of this exhibit, the first attachment is  
6 an injection well data sheet in which I have shown both in  
7 tabular and schematic form the planned configuration of the  
8 injection well, if it is authorized.

9 As the Examiner can see, both strings of  
10 casing, the surface and the long string, will be cemented to  
11 surface. The injection will be through plastiatic-coated  
12 tubing beneath a packer. Inert fluid will be on the back  
13 side and the well will be monitored in compliance with all  
14 the UIC rules of the Commission as set forth in Rule 701.

15 Q All right, is there anything else you'd  
16 like to discuss with the Examiner?

17 A On the next page I would like to briefly  
18 discuss the information that's required by other sections of  
19 the C-108.

20 First of all, as required by Section 7,  
21 is statements concerning the proposed operations.  
22 Initially, when this well begins disposing, we anticipate it  
23 disposing only between 100 and 150 barrels a day. That's  
24 because we'll only have a small portion of the wells on line  
25 when we initiate the project; however, once the full scale  
project is underway, we anticipate average daily injection  
of around 500 barrels a day. The maximum anticipate  
injection should never exceed 900 barrels a day. The

1  
2 system is entirely closed. The average pressure of the  
3 injection well we estimate to be approximately 100 psi at  
4 the average daily rate; however, we are asking the  
5 Commission to grant us a maximum limit of 330 psi. This is  
6 in accords with the Commission's criteria that has been  
7 historically used of .2 psi per foot of depth, and it has  
8 also been justified in previous hearings regarding disposal  
wells in this area.

9 The source of the injection water will  
10 be from the Tubb formation.

11 Next I would like to discuss the geology  
12 of the proposed disposal horizon and the fresh water sands  
13 within the area.

14 The Glorieta in this area is a fine to  
15 coarse grained sandstone, which are composed of clean, semi-  
16 round quartz, which are well cemented by calcareous  
17 material. The gross thickness of the horizon is  
18 approximately 155 feet and the net pay is approximately 60  
19 feet. We anticipate that we'll encounter the top of the  
20 Glorieta at 1605 feet and that the mid-point of our  
perforations will be approximately 1650 feet.

21 Fresh water sands in the area, the  
22 deepest of which is the Morrison Exeter sand, which is of  
23 Jurassic age, it has been bound based on areal hydrological  
24 and geological studies to have a base of approximately 550  
25 feet, and as we will show on a later exhibit, we believe in  
this particular area that the base of that sand is approxi-

1  
2 mately 530 feet.

3           Next, as required by Section 9 of the C-  
4 108, if indeed the Glorieta requires stimulation prior to  
5 injection, we anticipate that it would only require a small  
6 volume acid job that would be in the range of 1000 gallons  
7 and we would utilize 7-1/2 percent hydrochloric acid, and  
8 of course, the log for this well will be submitted to the  
9 Commission once the well is drilled.

10           On the next page, as required by the C-  
11 108, Section 11, we must obtain water samples from all fresh  
12 water wells that are within a mile radius of the proposed  
13 disposal well. We have done that. There are two wells on  
14 the Amoco property, that being the facility plant site,  
15 which are immediately adjacent to the proposed disposal  
16 well, and there are two other wells located on the Bolts  
17 property (sic). The first well in the northeast quarter of  
18 Section 25, and at a depth of approximately 125 feet, and  
19 there is a well in the southeast quareter of Section 25 at a  
20 depth of approximately 150 feet.

21           On the last page of this exhibit we have  
22 a summary of the water analyses for the Glorieta and the  
23 Tubb. The wells from which we obtained these water samples  
24 are highlighted on Exhibit Number One, as shown by the  
25 arrows.

26           First of all, the Glorieta water sample  
27 shows total dissolved solids of approximately 29,000 parts  
28 per million and the Tubb formation shows total dissolved

solids of approximately 45,000 parts per million.

Q Mr Sheppard, is it your testimony that this facility, if permitted by the Division, will be constructed, operated, and monitored in compliance with UIC rules and regulations?

A Yes, sir, it will.

Q Have you examined all available geological and engineering data and find no evidence of open faults or any other hydrological connection between the proposed disposal horizon and any underground source of drinking water?

A Yes, sir, I have, and there is no evidence of such.

Q Has notice by certified mail been given to the surface owners?

A Yes, sir, it has.

Q Do you have evidence of this receipt in your possession if the Examiner wishes to see it?

A I do have.

Q All right, turn to what's been marked as Amoco's Exhibit Number Five and identify that for the record.

A Exhibit Number Five is a copy of the water analyses from the four fresh water wells within the mile radius of the proposed injection well.

Q Would you please explain what's

1 shown by this exhibit?

2 A The exhibit shows a detailed water ana-  
3 lysis from the water from each of the four wells. Also, to  
4 the righthand portion of the exhibit I show the approximate  
5 depth of each well and the location of each well.

6 The, all four wells show to have good  
7 quality water, which is fit for human consumption.

8 Q All right, and how far from the  
9 Glorieta, where the injection is to be had, if this applica-  
10 tion is granted, how far on a vertical scale is the fresh  
11 water sands from this water analysis in feet?

12 A In excess of 1000 feet vertical separa-  
13 tion.

14 Q All right, go to your Exhibit Number Six  
15 and identify this for the record, please.

16 A Exhibit Number Six a well log from the  
17 Bravo Dome Carbon Dioxide Unit Well 1934 231K.

18 Q All right, and would you please explain  
19 what you've shown on this exhibit?

20 A Marked on the exhibit are the tops of  
21 all the major formations which have been identified in the  
22 Bravo Dome area. Of particular importance, I'll work from  
23 the top to the lower section of the log, you can see that I  
24 have the top of the Triassic marked at approximately 530  
25 feet. The top of the Triassic would be the bottom of the  
Jurassic, which contains the Morrison Exeter sand, which we  
have already made reference to as being the deepest sand

1 which has potential for bearing fresh water.

2 The next top that I would like to  
3 mention would be the Glorieta. We have shown it at 1605  
4 feet, and as you can see, the interval between 1620 and 1680  
5 feet has sufficient porosity to facilitate the injection  
6 that we are proposing in this well.

7 Lastly, I'd like to mention the Tubb  
8 formation, which we have shown at approximately 2150 feet.  
9 The Tubb is the horizon which is productive of CO2. It is  
10 also the horizon from which the produced water would  
11 originate that would be disposed into the Glorieta.

12 MR. MOTE: With regard to the next  
13 exhibit, we only have one copy. We'd like to put it on the  
14 wall to discuss it.

15 Q Mr. Sheppard, you only have one copy of  
16 this, but if the Division needs more than one copy we'll be  
17 glad to furnish it, will we not?

18 A Yes, that is correct.

19 Q All right. If you would, please -- this  
20 is -- please identify what is shown by this exhibit.

21 A This exhibit is an overall plot plan for  
22 the first Amoco combination of dehydration and compression  
23 facility plant that will be located in the Bravo Dome. The  
24 plant will be utilized for the purpose of dehydrating the  
25 gas to the point that it can be placed into a transmission  
line. It will compress it up to line pressure and at which

1  
2 time it will be placed in a transportation line to be  
3 transported to the tertiary oil recovery projects that will  
4 utilize it, the CO2.

5 Q All right, point out the proposed  
6 disposal well as it would lay on this subject site.

7 A The proposed disposal well is just out-  
8 side the western portion of the main body of the facility  
9 plant itself. It is going to be approximately 300 feet out-  
side the fence encompassing the facility site.

10 Q All right, point out the two fresh water  
11 wells which you've either drilled or will drill on the  
12 facility site.

13 A The first fresh water well is within the  
14 facility site itself, located approximately in the center of  
15 the facility site. The other fresh water well is located on  
16 the very far eastern portion of the land on which the faci-  
lity will be located.

17 Q And are those two of the wells on which  
18 you've shown fresh water samples?

19 A Yes, sir, those were included in our ex-  
20 hibits shown separately.

21 Q All right, if you would, just discuss  
22 briefly this facility and what you expect it to do.

23 A On this exhibit the facilities that are  
24 currently under construction are shown by the darkened  
25 lines. All of the dashed lines are future facilities that



1  
2 will be installed as we require them. Initially, the only  
3 dehydration compression will be for the gas that Amerada is  
4 going to take, which we estimate to be approximately 85-  
5 million a day. The gas will enter from the north into the  
6 facility. It will go to an initial separation phase where  
7 most of the produced water will be separated from the gas.  
8 The gas will then be brought through three stages of  
9 compression. On the compression, all of the prime movers  
10 for the compression will be electrically driven. We will  
11 have, as I mentioned, three stage compression, 6000 horse-  
12 power per compressor, and all of the coolant for those com-  
13 pressors, jacket water coolant, will be in a closed system  
14 and that coolant water will be cooled by an air to liquid  
15 system.

16 As we come in, the only other water that will  
17 be derived from the plant will be on the second stage of our  
18 compression we will have a glycol dehydration unit, which  
19 will separate the remainder of water from the gas in order  
20 to ready it for transmission.

21 Q Would you say that primarily and almost  
22 exclusively, the only water which will be injected into this  
23 proposed salt water disposal well is produced water?

24 A Yes, sir, it will be produced water,  
25 either knocked out on the initial separation phase or the  
glycol dehydration phase on our second stage of compression,  
and that will make up virtually 100 percent of the water  
that will be disposed into the proposed injection well, if

1  
2 so granted.

3 Q Can you testify, then, that in your  
4 opinion as an engineer, that there will actually be no ef-  
5 fluent water injected into this well?

6 A By and large, I guess, if you take the  
7 strict definition of effluent water, no, it will virtually  
8 all be produced water.

9 Q All right, now, are you going to test  
10 the water coolant from the compressor periodically?

11 A Yes, sir, we will. As I mentioned, the  
12 only water that will be utilized in the compression facility  
13 itself, or the operation of those facilities, is jacket  
14 water coolant for the compressors, and that will be tested  
15 on a regular basis.

16 Q And where you going to get the fresh  
17 water for this coolant?

18 A That fresh water is really of a small  
19 quantity, but the amount that we do need will be obtained  
20 from the fresh water wells that we have on our plant site.

21 Q Have you obtained a permit from the  
22 Water Control Commission?

23 A No, sir, we have not.

24 Q Is that because in your opinion you  
25 don't believe it's effluent?

A Yes, sir, we believe that the Oil  
Conservation Division, both in their rules and regulations  
and according to the rules and regulations of the Water

1  
2 Quality Control Commission has jurisdiction over this  
3 matter.

4 Q And your request is to obtain an order  
5 permitting disposal of all water discharged from the  
6 facility shown on this exhibit?

7 A Yes, sir, that is correct.

8 MR. MOTE: We offer Exhibits  
9 One through Seven into evidence.

10 MR. STOGNER: Exhibits One  
11 through Seven will be admitted into evidence.

12 MR. MOTE: We have no further  
13 questions for this witness.

14  
15 CROSS EXAMINATION

16  
17 BY MR. STOGNER:

18  
19 Q Mr. Sheppard, I have a few questions.  
20 I'll start with your Exhibit Number Seven there, so you can  
21 go sit down over there.

22 The coolant water that will be coming  
23 out of the jacket, what will -- will there be any possible  
24 contaminants in that water, and if so, what would they be?

25 A The only thing that will be contained  
in that water, it will be fresh water, it will be high

1  
2 quality because it's going to be used in a jacketing system  
3 in the compressor, and so the only, I guess what you could  
4 classify contaminant in that water, will be a corrosion in-  
5 hibitor to inhibit corrosion of the jacket coolant system of  
6 the compressor.

7 Q Do you know what type of corrosion in-  
hibitor that you will be using?

8 A No, sir, I've not been able to  
9 determine that yet. I do not think the decision has been  
10 made yet. As soon as I am able to get that decision, I  
11 would be more than happy to -- to submit that in separate  
12 correspondence to you all.

13 I can state, though, that as a company  
14 policy that we do not use chemicals in our operations in our  
15 coolant waters, which are potentially hazardous  
16 contaminants. We would not be using a chromate type addi-  
tive to the water.

17 Q I would appreciate it if you would sub-  
18 mit that information when it becomes available.

19 That's all the questions I have con-  
20 cerning Exhibit Seven. At this time is there any other  
21 questions concerning this exhibit before we take it down?  
22 If not, I'll have some other questions for Mr. Sheppard.

23 Mr. Sheppard, to the best of your  
24 knowledge, has any CO2 been encountered in the Glorieta  
25 within, say, six miles of the proposed salt water disposal  
well?

1  
2 A No, sir, if you would make reference to  
3 your Exhibit Number One, I've shown on Exhibit Number One  
4 a well located in Section 4, Township 19 North, Range 32  
5 East. That well is currently designated as Bravo Dome  
6 Carbon Dioxide Unit 1932 041-D, and it is shown by the  
7 green arrow on the map. That well was tested in the  
8 Glorieta when it was originally drilled. I don't know the  
9 specific date, but I believe it was prior to 1974, because  
10 in 1974 our company made a study of Glorieta potential  
11 within the Bravo Dome Unit, and based on the results of  
12 the testing in this well, we determined that there was  
13 little or no potential for Glorieta production east of  
14 that well or north of the well. The well tested 100 per-  
15 cent water in the Glorieta, and that is -- analysis of  
16 that water was presented on our Exhibit Number -- in our  
17 Exhibit Number Four.

18 MR. STOGNER: I have no  
19 further questions for Mr. Sheppard. Is there any further  
20 questions of this witness?

21 MR. MOTE: None.

22 MR. STOGNER: If not, he may  
23 be excused.

24 Mr. Mote, do you have any  
25 statement at this time?

MR. MOTE: No, sir.

MR. STOGNER: Mr. Heckel?

1  
2 MR: HECKEL: AmeriGas leases  
3 approximately 75,000 acres in an area that's to the south  
4 and west of the Bravo Dome Unit, 65,000 acres of those which  
5 are actually outside the limits of the Bravo Dome. 10,000  
6 are within the limits of the Bravo Dome but are not included  
7 in the (inaudible).

8 We had two CO2 plants operating from  
9 those wells in the Tubb formation for approximately 20  
10 years.

11 In 1982 we commissioned H. J. Gruy to do  
12 a reserves estimate at the three potential formations in  
13 that area, the Tubb, the Glorieta, and the Santa Rosa. In  
14 Gruy's study they have determined there was a potential for  
15 considerable production of CO2 from the Glorieta zone. The  
16 formation changes there and it's my understanding that it's  
17 substantially different from the formation in the location  
18 of the injection well.

19 AmeriGas has no objection to the  
20 proposal that Amoco and the unit has to make injection at  
21 the wellsite that they're proposing, but we would at least  
22 like to go on record saying that if injection rates are  
23 increased dramatically over the 900 barrels of water a day,  
24 or if there are injection wells considered closer to the  
25 AmeriGas acreage, that we would like to be a party to a dis-  
cussion and would like to have the Commission fully explore  
the potential dangers to the Glorieta zone in the area of  
our leases.

1  
2 Is there MR. STOGNER: Thank you, Mr.  
3 Heckel. Is there anything further to come before Case  
4 Number 7869?

5 It has come to my attention that the  
6 advertisement has already gone out to June 23rd, so this --  
7 therefor, this case will remain open until the June 23rd  
8 hearing.

9 MR. PEARCE: It is our  
10 intention when that case is recalled on our docket to take  
11 the portion of the case that is still in existence under ad-  
12 visement at that time and to dismiss the nonstandard loca-  
13 tion portion of this case. I do not suspect that any  
14 appearance is necessary at that time.

15 MR. MOTE: Okay. Thank you.

16 MR. PEARCE: One thing  
17 further, if I might, Mr. Mote. I noticed that on Amoco's  
18 Exhibit Number Three, the copy of Form C-102, that form was  
19 filed prior to the determination of the acreage dedication  
20 as a 160-acre dedicated unit. I'd request that Amoco file  
21 an amended C-102 on this well.

22 MR. MOTE: All right.

23  
24 (Hearing concluded.)  
25

## 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 was reported by me; that the said Transcript of Hearing 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. 7869, heard by me on June 8, 1983.

Michael E. Stoyner, Examiner  
Oil Conservation Division