

## NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARINGSANTA FE, NEW MEXICOHearing Date SEPTEMBER 19, 1990 Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION
LOUIS J. NAZZARO	Newbury Prod. Co.	Midland
PAUL D MOLLO	GAS CO NM	ALB
ALAN W BOHLING	CHEVRON USA	MIDLAND
SCOTT EVANSON	CHEVRON USA	MIDLAND
Marine Trimmer	Byram	SF
Paul M. Kautz	OCD	HOBBS
Dean Hodge	Harvey E. Gates Co	Roswell
JRC HODGE	CHEVRON USA	MIDLAND
W. J. Helbert	Xelluband Helbert & Aubrey	Santa Fe
Zed L. Parik	Parilla & Snyder	Santa Fe
William L. San	Campbell & Black, P.A.	Santa Fe
Michael E. Cuba	Amoco Production Co.	Denver
K. Glenn Carter	Texaco	Hobbs
Ghain Hamilton	Yates Energy Corp	Roswell
Bruce Baker	YATES ENERGY CORP	Roswell
James R. ...	Humble Oil Firm	Albuquerque

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NAME	REPRESENTING	LOCATION
Gary Green	Santa Fe Energy	Midland
Joanne Reuter	Doyle Hartman	Midland/Santa Fe
Vic Fryon	OCD	Santa Fe
DARRELL ROBERTS	SANTA FE ENERGY	MIDLAND
Scott Hall	MILLER LAW FIRM	SANTA FE
W. Perry Pearce	Montgomery Andrews, P.A.	Santa Fe
Mark Nearburg	Nearburg Producing Co.	Midland
Emily Downs	OCD	Hobbs
Lawrence D. Lamin	MARATHON OIL CO	HOUSTON
W. N. Philby	TEXACO INC.	Midland
Nanette Crawford	Texoco Inc.	DENVER
R. B. Beardsley	El Paso Natural Gas	El Paso, TX
Don Dutton	Com. Engr	Santa Fe
Robert Hart	TEXACO INC.	Hobbs
MIKE STEWART	D. HARTMAN	MIDLAND
Mike Zimmerman	CONOCO	Midland

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

EXAMINER HEARING

IN THE MATTER OF:

Application of Yates Energy  
Corporation for compulsory pooling, Case 10090  
Eddy County, New Mexico.

TRANSCRIPT OF PROCEEDINGS

BEFORE: DAVID R. CATANACH, EXAMINER

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO

September 19, 1990

**ORIGINAL**

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A P P E A R A N C E S

FOR THE DIVISION:	ROBERT G. STOVALL Attorney at Law Legal Counsel to the Division State Land Office Building Santa Fe, New Mexico 87501
OCD CHIEF ENGINEER:	JIM MORROW Chief Engineer to the Division State Land Office Building Santa Fe, New Mexico 87501
FOR THE APPLICANT:	ERNEST L. PADILLA, ESQ. PADILLA & SNYDER Post Office Box 2523 Santa Fe, New Mexico 87504-2523
FOR EXPLORERS PETROLEUM and SPIRAL, INC.:	WILLIAM F. CARR, ESQ. CAMPBELL & BLACK, P.A. Post Office Box 2208 Santa Fe, New Mexico 87504-2208

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## 1 P R O C E E D I N G S

2 HEARING EXAMINER: We'll call the hearing to order  
3 this morning for Docket No. 26-90. And before we start I'll  
4 call the continuances and dismissals.

5 (Off the record)

6 HEARING EXAMINER: And at this time we'll call Case  
7 No. 10090.

8 MR. PADILLA: Mr. Examiner, Ernest L. Padilla, Santa  
9 Fe, New Mexico, for the applicant in this case. I have two  
10 witnesses.

11 MR. STOVALL: Hold on just a second, Ernie.

12 HEARING EXAMINER: Go back off the record again.

13 (Off the record)

14 HEARING EXAMINER: Okay. At this time we'll call  
15 Case 10090.

16 MR. STOVALL: Application of Yates Energy  
17 Corporation for compulsory pooling, Eddy County, New Mexico.

18 HEARING EXAMINER: Are there appearances in this  
19 case?

20 MR. PADILLA: Yes, sir, Mr. Examiner. Ernest L.  
21 Padilla, Santa Fe, New Mexico, for the applicant. I have two  
22 witnesses.

23 MR. CARR: May it please the Examiner, my name is  
24 William F. Carr. I represent Explorers Petroleum Corporation  
25 and Spiral, Inc. I do not intend to call a witness.

1 HEARING EXAMINER: Any other appearances?

2 Please swear in the witnesses, Mr. Stovall.

3 MR. STOVALL: I'll be glad to.

4 SHARON R. HAMILTON,

5 the witness herein, after having been first duly sworn upon her

6 oath, was examined and testified as follows:

7 MR. PADILLA: At this time we'll call Shari

8 Hamilton.

9 Mr. Examiner, I'd like to take Exhibits 5 through 8  
10 out of -- 4 through 8 out of order. This is our land exhibits.

11 HEARING EXAMINER: Okay.

12 EXAMINATION

13 BY MR. PADILLA:

14 Q. Ms. Hamilton, for the record please state your name.

15 A. My name is Sharon R. Hamilton.

16 Q. Who do you work for?

17 A. I work for Yates Energy Corporation as a landman.

18 Q. Have you previously testified before the Oil  
19 Conservation Division as a petroleum landman and had your  
20 credentials accepted as a matter of record?

21 A. Yes, I have.

22 Q. Are you familiar with the title of the proration  
23 unit under consideration here today?

24 A. Yes, I am.

25 Q. Ms. Hamilton -- Mr. Examiner, we tender Ms. Hamilton

1 as a petroleum landman.

2 HEARING EXAMINER: She is so qualified.

3 Q. (BY MR. PADILLA) Ms. Hamilton, would you first  
4 please tell the Examiner what this hearing is about, in a  
5 general way.

6 A. We're proposing to drill a Bone Springs test in the  
7 Southwest Quarter Southwest Quarter of Section 1, 18 South, 31  
8 East, Eddy County, New Mexico.

9 Q. Let's turn now to your Exhibit No. 1 and have you  
10 identify that for the record, please.

11 A. I believe it's a land plat of the acreage, the  
12 40-acre tract involved in this drilling proposal. It's colored  
13 in yellow.

14 Q. What offset acreage does Yates Energy own in the  
15 area?

16 A. We own an interest in the remaining acreage in  
17 Section 1.

18 Q. Ms. Hamilton, do you have an exhibit which shows the  
19 ownership of the tract under consideration here today?

20 A. Yes, sir. There is an ownership summary that would  
21 be Exhibit No. 5.

22 (Thereupon, Exhibits 4 and 5 were  
23 marked for identification.)

24 Q. I believe I called that Exhibit No. 1 originally.  
25 That should be Exhibit No. 4, the land plat.



1           Let me show you now what we have marked as Exhibit  
2 No. 5 and have you identify that, please.

3           A.     It's an ownership listing of the owners involved in  
4 this 40-acre tract.

5           Q.     Who are the owners of the proration unit?

6           A.     Yates Energy Corporation, HEYCO Development  
7 Corporation, HEYCO Employees, Ltd., Explorers Petroleum  
8 Corporation, Spiral, Inc., W. T. Wynn, and Chevron, U.S.A.,  
9 Inc.

10          Q.     Ms. Hamilton, can you go through the right-hand  
11 column. You have certain notations on the right-hand column  
12 attributable to those various interest owners and explain to  
13 the Examiner what your notations are.

14          A.     This indicates that Yates Energy is willing to  
15 participate in the drilling of the well. That HEYCO  
16 Development Corporation, HEYCO Employees, Ltd. and W. T. Wynn  
17 are under a current operating agreement. And that the  
18 remaining three owners are requested for forced pooling. We've  
19 had no response to the well participation.

20          Q.     Who are those three owners?

21          A.     Explorers Petroleum Corporation, Spiral, Inc., and  
22 Chevron U.S.A., Inc.

23          Q.     Have you sent any correspondence to these three  
24 interest owners, and have you had any results from that  
25 correspondence or communications with them?

1           A.     We have sent the well proposal with the AFE and  
2     operating agreement. We've also sent a farm-out request. But  
3     we've had no response.

4           Q.     Let me hand what you we have marked as Exhibit 6 and  
5     7. Please identify those and tell the Examiner what they are  
6     and what they contain.

7                     (Thereupon, Exhibits 6 and 7  
8                     were marked for identification.)

9           A.     No. 6 is just a summary of correspondence and  
10    telephone calls made to those three entities. And Exhibit  
11    No. 7 are copies of the correspondence that's been sent.

12          Q.     Let's go to Exhibit No. 6 and please identify with a  
13    little bit more specificity what communications you have had  
14    with the entities described in that exhibit.

15          A.     With Chevron U.S.A., Inc. on August 3rd we submitted  
16    a letter proposing the well with the AFE and the operating  
17    agreement. On the 6th of August we spoke with their production  
18    office that was processing the AFE. Then on the 12th we sent a  
19    farm-out proposal. And on the 17th we have a telephone call  
20    where I was discussing the proposal with them.

21          Q.     You have received no -- what result, what's the  
22    ultimate result of your communications with Chevron?

23          A.     They were just not in -- they had not made a  
24    decision regarding their participation at all.

25          Q.     Has Chevron participated in any wells that you have

1 drilled in the area?

2 A. No, sir. We force pooled them twice before.

3 Q. How about the second grouping?

4 A. Spiral, Inc. and Explorers Petroleum we have sent  
5 the letter with the well proposal. We also sent a letter on  
6 the 12th with a farm-out proposal. And we've had no response  
7 from them.

8 Q. Ms. Hamilton, let me hand you what is marked as  
9 Exhibit No. 8 and have you identify that, please.

10 (Thereupon, Exhibit 8 was  
11 marked for identification.)

12 A. It's the copy of the AFE that was submitted with our  
13 well proposal.

14 Q. To your knowledge and information is that well, the  
15 AFE a reasonable AFE for the area for the projected well?

16 A. Yes, sir, I believe it is.

17 Q. Have you received any adverse comments regarding  
18 that AFE from any one of the working interest owners?

19 A. No, sir, we've had no comment at all.

20 Q. Ms. Hamilton, should the Oil Conservation Division  
21 be inclined to approve your application does Yates Energy  
22 desire to be named the operator of the well?

23 A. Yes, we do.

24 Q. What type of overhead charges do you -- does Yates  
25 Energy recommend to the division for drilling and producing

1 well rates?

2 A. We request 5,500 drilling rate and 550 monthly  
3 producing rate.

4 Q. Where did you obtain these figures?

5 A. Those are the figures stated in our operating  
6 agreement covering all of Section 1 dated September 1 of 1989.

7 Q. And are those figures reasonable, in your opinion?

8 A. Yes, sir.

9 MR. PADILLA: Mr. Examiner, we tender Exhibits 5  
10 through -- correction, 4 through 8, and we pass the witness for  
11 cross-examination.

12 HEARING EXAMINER: Exhibits 4 through 8 will be  
13 admitted as evidence.

14 Any questions, Mr. Carr?

15 MR. CARR: No questions.

16 EXAMINATION

17 BY THE HEARING EXAMINER:

18 Q. Ms. Hamilton, you are not pooling HEYCO Development  
19 Corporation, HEYCO Employess, Ltd. or W. T. Wynn; is that  
20 correct?

21 A. Yes, sir, that's correct. They are under an  
22 operating agreement.

23 Q. They are subject to --

24 A. The nonconsent provisions of an operating agreement.

25 Q. And you've had no response from Chevron?

1           A.     Just to visit with them over the telephone when I  
2     called them. But they gave no indication one way or the other.

3           Q.     And what was the response from Explorers Petroleum  
4     and Spiral?

5           A.     I haven't been able to contact them and have any  
6     direct discussion with them.

7                   HEARING EXAMINER: That's all the questions I have.  
8     The witness may be excused.

9                   MR. PADILLA: Mr. Examiner, at this time we'll call  
10    Bill Baker.

11                               BILL BAKER,  
12    the witness herein, after having been first duly sworn upon his  
13    oath, was examined and testified as follows:

14                               EXAMINATION

15    BY MR. PADILLA:

16           Q.     Mr. Baker, please state your name, please.

17           A.     Bill Baker.

18           Q.     You work for Yates Energy Corporation?

19           A.     Yes, sir, I do.

20           Q.     In what capacity?

21           A.     I am his chief geologist.

22           Q.     Do you have other duties besides being the  
23    geologist?

24           A.     Well, I basically handle all exploration efforts and  
25    completion efforts for Yates Energy.

1 Q. Have you testified before the Oil Conservation  
2 Division as a geologist?

3 A. Yes, sir, I have.

4 Q. And are you familiar with the geology of the Bone  
5 Springs formation in the area?

6 A. Yes, sir, I am.

7 Q. And how about other shallower formations?

8 A. Yes, sir. I've made numerous studies on shallow  
9 formations in this area.

10 Q. Have you testified before the Oil Conservation  
11 Division in hearings regarding this same area?

12 A. Yes, sir, I have.

13 MR. PADILLA: Mr. Examiner, we tender Mr. Baker as  
14 an expert in geology.

15 HEARING EXAMINER: He is so qualified.

16 Q. (BY MR. PADILLA) Mr. Baker, first of all I'd like  
17 for you to give us a brief description of the geology in the --  
18 for the Bone Springs in this area of the proposed well.

19 A. Well, the Bone Springs in this particular area is  
20 located just on the floor reef side of the Abo reef complex in  
21 Eddy County from Eddy/Lea County line.

22 In this particular area there is a complex series of  
23 sands and carbonates that are extremely productive from the  
24 Bone Springs formation in here. They are all stratigraphic in  
25 nature and are basically formed by stratigraphic pinchouts of

1 porosity loads within both the sand and carbonate facies.

2 Q. Mr. Baker, would you now turn to Exhibit No. 1 and  
3 identify that for the Examiner, please.

4 (Thereupon, Exhibit 1 was  
5 marked for identification.)

6 A. Yes, sir. Exhibit No. 1 is a structure map on the  
7 top of the second Bone Springs carbonate. This is a very good  
8 structural marker mapping datum for the area in here.

9 This particular map shows our proposed location with  
10 relationship to the other Bone Springs producers in the  
11 immediate area, namely HEYCO's wells in Section 2 and Section  
12 11. It also shows a cross-section, which is Exhibit 3 that  
13 I'll get to in a little bit on here, which is structured  
14 cross-section A to A prime.

15 Q. Does that show the land controlled by Yates Energy?

16 A. Yes, sir. It also shows the acreage that's  
17 controlled by Yates Energy. All of Section 1 is outlined in  
18 yellow.

19 Q. Is that all you have concerning Exhibit No. 1?

20 A. Yes, sir.

21 Q. Let's go on to what we have marked as Exhibit No. 2  
22 and have you identify that for the Examiner.

23 (Thereupon, Exhibit 2 was  
24 marked for identification.)

25 A. Exhibit No. 2 is a net interval isopach of the

1 second Bone Springs what I call lower bench sand. This is the  
2 primary objective of Thornbush Federal No. 2. And basically  
3 this particular isopach here shows that the proposed location  
4 should be encountered approximately 50 feet of net Bone Springs  
5 lower bench sand greater than ten percent porosity.

6 I've also indicated in red, where the red dots are,  
7 the second Bone Springs lower bench producers there in Section  
8 2.

9 Q. Mr. Baker, tell us about the well which is directly  
10 east of the proposed well.

11 A. The well directly east of this proposed location is  
12 our Thornbush Federal No. 1. It was also a Bone Springs test,  
13 but it was later recompleted in San Andres formation. This  
14 particular well here encountered the second Bone Springs lower  
15 bench sand, but had porosity in the neighborhood of five to six  
16 percent porosity and was basically tight and nonproductive.

17 Q. How about the well offsetting the proposed location  
18 to the south?

19 A. Okay. This is HEYCO's Taylor 12 five well. It was  
20 also a Bone Springs well. It encountered the second Bone  
21 Springs lower bench sand as well. But it only had one foot of  
22 porosity greater than ten percent, and it was made  
23 non-commercial producer, so therefore it was a dry hole.

24 Q. Okay. Is that all you have concerning Exhibit  
25 No. 2?



1 A. Yes, sir.

2 Q. Let's go on to Exhibit No. 3, please.

3 (Thereupon, Exhibit 3 was  
4 marked for identification.)

5 Q. Please tell the Examiner what that is and what it  
6 shows.

7 A. Exhibit No. 3 is a stratigraphic cross-section A to  
8 A prime. And this basically goes through two of the producers,  
9 two of HEYCO's producers located in Section 2 there on the far  
10 left-hand side of the cross-section. As you move from left to  
11 right you go through our proposed location down to Harvey E.  
12 Yates Taylor 12 five that I just talked about. Then on the far  
13 right-hand side of the cross-section is the Yates Energy  
14 Thornbush Federal No. 1.

15 What I have done here is I have labeled the top with  
16 some of the primary zones in here, the first Bone Springs  
17 sands, what is called the main pay interval. This is  
18 terminology that Harvey E. Yates Company uses. Top of the Bone  
19 Springs sands, the top of the second Bone Springs upper bench,  
20 and the top of the second Bone Springs lower bench.

21 And then on here I've indicated in the lower bench  
22 sand the productive interval, productive amount of sand greater  
23 than ten percent porosity.

24 Q. Now what well are you showing that?

25 A. Okay. There are two wells on the far left-hand side

1 of the cross-section, HEYCO Mesquite 2 State No. 1, which was  
2 produced from the lower bench sand as well as what I call the  
3 upper bench sand. This particular well tested three zones in  
4 here, each one of them were stimulated separately. It IPF'd at  
5 102 barrels of oil per day, made 75,000 barrels of oil,  
6 currently producing 19,000 barrels of oil per day. It had  
7 approximately 36 feet of lower bench sand right on the ten  
8 percent line. This is indicated where I've colored the lower  
9 bench sand in red, the lower part.

10 Q. That's the deeper color red?

11 A. Yes, sir, it's the deeper color red.

12 As you move to the right the next well is Harvey E.  
13 Yates Mesquite 2 State No. 2. This is strictly a second Bone  
14 Springs lower bench sands producer. This particular well had  
15 approximately 70 feet of sand with greater than ten percent  
16 porosity in it. It was also frac'd and stimulated and it had  
17 an IPF of 227 barrels of oil per day. It is currently cum'd  
18 approximately 64 MBO and is producing at a rate of 22 barrels  
19 of oil per day.

20 Next you move on the right it shows the Yates Energy  
21 Thornbush Federal No. 2. We expect to have approximately 50  
22 feet of second Bone Springs lower bench sand with porosity  
23 greater than ten percent in here.

24 As you move on from there you go to the Taylor 12  
25 Federal 5 well. As you can see here it had the entire second

1 Bone Springs lower bench complex, but no sand or basically one  
2 foot of sand greater than ten percent porosity and was  
3 therefore tight and nonproductive.

4 As you move to the far right-hand side you see the  
5 Yates Energy Thornbush Federal No. 1. Again we have the entire  
6 lower bench sand complex, but no porosity greater than ten  
7 percent, and it was a dry hole in the Bone Springs.

8 Q. Mr. Baker, as a result of your study what  
9 recommendation do you have to the division for respective  
10 penalty?

11 A. The maximum.

12 Q. Which is what?

13 A. What the well cost, plus 200 percent.

14 Q. Is that all you have concerning Exhibit No. 3?

15 A. Yes, sir, it is.

16 Q. Mr. Baker, how about the shallower formations in  
17 this area?

18 A. There is also potential for the San Andres dolomite  
19 in here which was productive in our Yates Energy Thornbush  
20 Federal No. 1 located due east of us. This is a dolomite  
21 formation, it is extremely stratigraphic in nature. We just  
22 most recently offset it to the south one location and it was a  
23 dry hole in the San Andres. So it has substantial risk as  
24 well. But it is a potential pay horizon.

25 Q. You would recommend the same amount of penalties?

1           A.     Yes, sir, I do, stratigraphic risk is extremely  
2     risky here.

3 Q. Mr. Baker, would approval of this application be in  
4 the best interest of conservation of oil and gas and production  
5 of correlative rights?

6 A. Yes, sir.

7 Q. In your opinion?

8           A.     Yes, sir, it would.

9 MR. PADILLA: Mr. Examiner, I have nothing else of  
10 this witness. I offer Exhibits 1 through 3.

11 HEARING EXAMINER: Exhibits 1 through 3 will be  
12 admitted as evidence.

## EXAMINATION

14 BY THE HEARING EXAMINER:

15 Q. Mr. Baker, the primary target is the Bone Springs?

16           A.     Yes, sir, it is.

17 Q. Where is the San Andres production located in this  
18 area?

19           A.     Approximately 4,600 feet.

20 Q. I am saying where in relation to your proposed well  
21 location is there San Andres production?

22           A.       There is two wells, if you look at the very top,  
23   look on Exhibit No. 1.  Right above Section 2 and Section 1  
24   you'll see two little oil wells up there.  Those two wells up  
25   there are San Andres producers.  They were completed back in

1 the early '60's if I am not mistaken. Then if you will look at  
2 the Thornbush Federal well, which is on the far right-hand  
3 cross-section of the well due east of our proposed location, is  
4 our San Andres discovered well.

5 Q. And in terms of the San Andres completion can you  
6 give a little more detail as to the risk in that type of  
7 completion?

8 A. Well, basically it's just a matter of finding the  
9 carbonate facies with greater than 12 percent porosity in here.  
10 It's an extremely highly risky stratigraphic play out here. We  
11 just recently drilled, like I said, the Prickly Pear No. 1  
12 which is drilled in Section 12. It's not on my map because of  
13 how recent it was. It was just 700 feet due south of the  
14 Thornbush Federal well. It had the carbonate facies, but not  
15 any porosity in it at all. It was just extremely tight.

16 This is a relatively new pay zone that no one has  
17 really attempted to chase out in this area. And for the,  
18 basically for the reasons of how risky it is out in here.  
19 We're still a little undetermined as far as how economic the  
20 pay zone will be, which adds some more risk to it since it  
21 hasn't been pursued in this area.

22 Q. And the risk in the Bone Springs is that you step  
23 out too far from the porosity?

24 A. Yes, sir. And that was basically pretty well seen  
25 in HEYCO's Taylor 12 five well. That particular well there

1 shows how quickly the porosity can go. And it's basically if  
2 you don't have greater than ten percent porosity in any of  
3 these Bone Springs sands you will not make a commercial  
4 producer.

5 Q. Are there any potential for any other zones of  
6 interest?

7 A. Well, there is always the potential for the Queen  
8 and Grayburg here. Our Prickly Pear 1 well that was dry in the  
9 San Andres dolomite looks like we're going to make a little  
10 Queen well out of it. The studies that I have done indicate  
11 that the Queen will probably be tight at our proposed location.  
12 But there is always that potential for a Queen or Grayburg to  
13 stumble in here.

14 HEARING EXAMINER: I have no further questions.  
15 Anymore questions of the witness?

16 You may be excused.

17 Anything further in this case?

18 MR. PADILLA: Mr. Examiner, I have what I have  
19 marked as Exhibit No. 9, which is the correspondence out of our  
20 office.

21 (Thereupon, Exhibit 9 was  
22 marked for identification.)

23 HEARING EXAMINER: Exhibit No. 9 will be admitted as  
24 evidence.

25 MR. PADILLA: I have nothing further.

1 (Off the record)

2 HEARING EXAMINER: There being nothing further in  
3 this case, Case 10090 will be taken under advisement.

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I do hereby certify that the foregoing is  
a complete and correct presentation of  
the Examination of Case No. 10090,  
heard by me on September 8, 1980.

David R. Catant, Examiner  
Oil Conservation Division

## 1 CERTIFICATE OF REPORTER

2

3 STATE OF NEW MEXICO )  
4 ) ss.  
5 COUNTY OF SANTA FE )

6

7 I, Diane M. Winter, Certified Shorthand Reporter and  
8 Notary Public, HEREBY CERTIFY that the foregoing transcript of  
9 proceedings before the Oil Conservation Division was reported  
10 by me; that I caused my notes to be transcribed under my  
11 personal supervision; and that the foregoing is a true and  
12 accurate record of the proceedings.

13 I FURTHER CERTIFY that I am not a relative or  
14 employee of any of the parties or attorneys involved in this  
15 matter and that I have no personal interest in the final  
16 disposition of this matter.

17 WITNESS MY HAND AND SEAL September 28, 1990.

18

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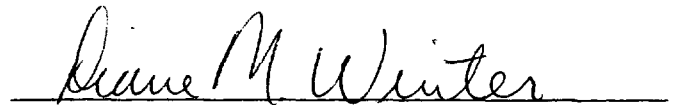
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My commission expires: December 21, 1993



DIANE M. WINTER  
CSR No. 414

