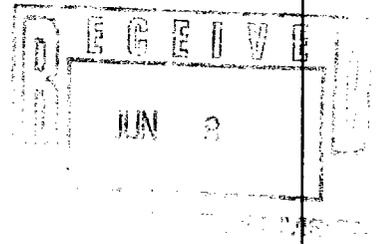


STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



IN THE MATTER OF THE HEARING)
CALLED BY THE OIL CONSERVATION)
DIVISION FOR THE PURPOSE OF)
CONSIDERING:)
)
APPLICATION OF DEVON ENERGY)
CORPORATION (NEVADA))
)

CASE NO. 11,305

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

June 15th, 1995

Santa Fe, New Mexico

This matter came on for hearing before the Oil Conservation Division on Thursday, June 15th, 1995, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, before Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

* * *

I N D E X

June 15th, 1995
 Examiner Hearing
 CASE NO. 11,305

	PAGE
APPEARANCES	3
APPLICANT'S WITNESSES:	
<u>KEN GRAY</u> (Landman)	
Direct Examination by Mr. Bruce	4
Examination by Examiner Catanach	7
<u>DICK MORROW</u> (Engineer)	
Direct Examination by Mr. Bruce	9
Examination by Examiner Catanach	18
REPORTER'S CERTIFICATE	25

* * *

E X H I B I T S

Applicant's	Identified	Admitted
Exhibit 1	6	7
Exhibit 2	6	7
Exhibit 3	7	7
Exhibit 4	11	18
Exhibit 5	11	18
Exhibit 6	14	18
Exhibit 7	15	18
Exhibit 8	16	18

* * *

A P P E A R A N C E S

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By: JAMES G. BRUCE

* * *

1 WHEREUPON, the following proceedings were had at
2 8:29 a.m.:

3 EXAMINER CATANACH: At this time we'll call Case
4 11,305.

5 MR. CARROLL: Application of Devon Energy
6 Corporation (Nevada) for special pool rules, Eddy County,
7 New Mexico.

8 EXAMINER CATANACH: Are there appearances in this
9 case?

10 MR. BRUCE: Mr. Examiner, Jim Bruce from the
11 Hinkle law firm in Santa Fe, representing the Applicant.

12 I have two witnesses to be sworn.

13 EXAMINER CATANACH: Any additional appearances?
14 Will the witnesses please stand to be sworn in?
15 (Thereupon, the witnesses were sworn.)

16 KEN GRAY,
17 the witness herein, after having been first duly sworn upon
18 his oath, was examined and testified as follows:

19 DIRECT EXAMINATION

20 BY MR. BRUCE:

21 Q. Will you please state your name for the record?

22 A. My name is Ken Gray.

23 Q. Who do you work for and in what capacity?

24 A. I work for Devon Energy Corporation as district
25 landman.

1 Q. Have you previously testified before the
2 Division?

3 A. No, I have not.

4 Q. Would you please outline your educational and
5 work background?

6 A. Well, for the past three years I've worked for
7 Devon as the district landman for the southeast New Mexico
8 district, obviously Lea and Eddy County. Prior to that, I
9 worked for ten years for Sun Oil Company/Oryx Energy.
10 Worked previously to that as an independent landman. Most
11 of that time was in the mid-continent area.

12 I have an undergraduate degree from the
13 University of Oklahoma in language arts, a master's degree
14 in secondary education. I graduated in 1973.

15 Q. And your area of responsibility does include
16 southeast New Mexico?

17 A. Yes, it does.

18 Q. And are you familiar with the land matters
19 involved in this case?

20 A. Yes, I am.

21 MR. BRUCE: Mr. Examiner, I tender Mr. Gray as an
22 expert petroleum landman.

23 EXAMINER CATANACH: Mr. Gray is so qualified.

24 Q. (By Mr. Bruce) Briefly, Mr. Gray, what does
25 Devon seek in this case?

1 A. We're asking the Commission to establish or
2 assign a temporary allowable of 150 barrels of oil per day,
3 a special depth-bracket allowable of 150 barrels of oil per
4 day for the East Catclaw Draw-Delaware Pool.

5 Q. What is the current pool allowable?

6 A. Current allowable is 80 barrels per day.

7 Q. Would you refer to Exhibit 1 and identify it for
8 the Examiner?

9 A. Exhibit 1 is a land plat of the pool, the current
10 pool, which consists of all of Section 9, the west half and
11 the southeast quarter of Section 16. It also includes the
12 location of the wells surrounding the pool within one mile
13 and the operators of all wells surrounding the pool.

14 Q. Who are the only operators within the pool
15 boundaries?

16 A. The only other operator of Delaware wells is in
17 Section 9, and that's Chi Operating.

18 Q. And was notice of this Application given to all
19 operators in the pool and all operators of wells within a
20 mile of the pool?

21 A. Yes, it was.

22 Q. And is Exhibit 2 my affidavit of notice
23 containing the letter to the offsets?

24 A. Yes, it is.

25 Q. Have you had any contact with the other operators

1 in the area?

2 A. We've had only contact with the only other
3 operator in the pool, which is Chi Operating, and I think
4 one of our exhibits reflects their support of the
5 Application.

6 Q. Is that Exhibit 3?

7 A. Exhibit 3, yes.

8 Q. Okay. And you haven't had any contact with or no
9 one has called you, any of the offset operators?

10 A. No, they have not.

11 Q. Were Exhibits 1 through 3 prepared by you or
12 compiled from company records?

13 A. Yes, they were.

14 Q. And in your opinion, is the granting of this
15 Application in the interests of conservation and the
16 prevention of waste?

17 A. Yes, it is.

18 MR. BRUCE: Mr. Examiner, at his time I would
19 move the admission of Devon's Exhibits 1, 2 and 3.

20 EXAMINER CATANACH: Exhibits 1, 2 and 3 will be
21 admitted as evidence.

22 EXAMINATION

23 BY EXAMINER CATANACH:

24 Q. Mr. Gray, Devon and Chi are the only two
25 operators in the pool?

1 A. Yes.

2 Q. Is there any acreage in the pool that does not
3 contain wells on it, that's leased by somebody else, that
4 you know of?

5 A. Well, there are other -- there are nonoperators
6 that own leases within the pool, yeah. Is that what --

7 Q. There are leasehold owners that -- within the
8 pool --

9 A. Yes.

10 Q. -- that don't have wells on their leases?

11 A. Well -- Yeah. But contractually in both
12 sections, due to joint operating agreements and things of
13 that nature, we've got -- everybody owns a contractual
14 interest in all the leases.

15 Does that answer your question?

16 Q. Well, is it just Chi and Devon that have the
17 right to drill in the pool?

18 A. Yes. Well, to drill as operator, to operate the
19 wells, operate -- Chi operates the wells in Section 9, and
20 we operate the wells in Section 16.

21 Q. All that area is covered under a JOA?

22 A. Section 9 is a separate JOA, Section 17 is a
23 separate JOA, yes.

24 Q. Section 16?

25 A. What did I say?

1 Q. 17.

2 A. 16, yeah.

3 EXAMINER CATANACH: Okay. Okay, that's all I
4 have of the witness.

5 MR. BRUCE: Call Mr. Morrow to the stand.

6 DICK MORROW,

7 the witness herein, after having been first duly sworn upon
8 his oath, was examined and testified as follows:

9 DIRECT EXAMINATION

10 BY MR. BRUCE:

11 Q. Please state your name for the record.

12 A. My name is Dick Morrow.

13 Q. Who do you work for and in what capacity?

14 A. I work for Devon Energy Corporation as a
15 reservoir engineer.

16 Q. At Devon does your area of responsibility include
17 southeast New Mexico?

18 A. Yes, it does.

19 Q. And are you familiar with the engineering matters
20 related to this pool?

21 A. Yes, I am.

22 Q. And have your credentials -- You have previously
23 testified before the Division, haven't you?

24 A. Yes, I have.

25 Q. And were your credentials as an engineer accepted

1 as a matter of record?

2 A. Yes.

3 MR. BRUCE: Mr. Examiner, I tender Mr. Morrow as
4 an expert engineer.

5 EXAMINER CATANACH: Mr. Morrow is so qualified.

6 Q. (By Mr. Bruce) Mr. Morrow, what type of
7 reservoir are we dealing with in this pool?

8 A. From the data we've gathered so far, it appears
9 that the reservoir is producing by solution gas drive.

10 Q. At this time do any special rules apply to the
11 East Catclaw Draw-Delaware Pool?

12 A. Yes, there's a 6000-to-1 GOR under Order Number
13 R-9952-C.

14 Q. When was the increased GOR instituted?

15 A. The GOR was increased by an order dated November
16 10th of 1993 and made permanent on June 5th, 1995.

17 Q. And did you testify at those hearings?

18 A. Yes, I did. We presented substantial testimony
19 at those hearings on the drive mechanism of the pool.

20 Q. And what are you requesting today specifically?

21 A. We are requesting a 150-barrel-of-oil-per-day
22 testing allowable, and we request that it be granted for a
23 three-month period so that we can collect data on the long-
24 term effect, if any, of the higher production rates.

25 Q. Let's move on to your first exhibit, Exhibit 4.

1 Would you identify that for the Examiner and briefly
2 discuss the geology of this pool?

3 A. Exhibit Number 4 is a structure map on the Cherry
4 Canyon marker within the pay section. These are Cherry
5 Canyon sands at a depth of about 3000 feet.

6 You can see that there's a structural high
7 centered on Sections 9 and 16 with about 160 feet of relief
8 from the highest well to the lowest known producer. We
9 have up to about 100 feet of net-pay sand in this pool.
10 And as I stated earlier, it produces by a solution gas
11 drive.

12 Q. Let's move on to your Exhibit 5. What does that
13 represent?

14 A. Exhibit 5 is a three-page exhibit on the three
15 currently flowing wells on our lease, Wells Number 1, 2 and
16 7, and I've entitled this exhibit the Cactus State Well
17 Productivity.

18 In most cases it's excessive drawdown which
19 causes harm to the reservoir, and I intend to show from
20 this exhibit that it would take very little drawdown to
21 increase the production of these wells to 150 barrels a
22 day.

23 There's a lot of data on these three pages, and
24 I'll try to go through it as logically as I can.

25 On each page I have a table and also an

1 accompanying chart for a specific well. The table shows
2 the daily production, as well as flowing tubing pressure,
3 flowing casing pressure and choke size. The shaded areas
4 in the table indicate representative tests at the different
5 choke settings.

6 In the case of Well Number 1, which is the first
7 page here, we took tests on a 12/64 choke, 10/64 and 8/64.
8 And as you reduce the choke size, naturally, you reduce the
9 oil production and you increase the flowing pressures.

10 So on the right-hand side of each page, I have
11 made a plot of the daily oil rate versus flowing casing
12 pressure. Now, I've used flowing casing pressure because
13 it is more indicative of downhole conditions than the
14 tubing pressure, because you have friction losses up the
15 tubing. As you flow up the tubing you get friction losses
16 and you can't really tell what the downhole pressure is.
17 The casing pressure is a very good indicator of downhole
18 pressures.

19 So what I did was extrapolate the data to
20 determine what the flowing casing pressure would be at our
21 requested allowable of 150 barrels a day.

22 As shown by the dashed red lines in the case of
23 Well Number 1, you could extrapolate this two different
24 ways, but they indicate that we could produce 150 barrels a
25 day with a flowing casing pressure of between about 880 and

1 940 pounds. Even if you take the lesser of those, 880
2 pounds, we would only be decreasing the flowing pressure by
3 about 80 pounds, out of over 900, which is less than ten
4 percent. Thus, we could achieve our 150-barrel-a-day rate
5 with very little drawdown on this well.

6 Page Number 2 is also Well Number 2, and this
7 well we only tested at two different choke settings. But
8 if you extrapolate those two data points, it gives a
9 flowing casing pressure of about 690 pounds at 150 barrels
10 a day, and this is still over 80 percent of the flowing
11 casing pressure at the current allowable, at the lower
12 rates.

13 The third page, Well Number 7, this is our newest
14 well. It's only been on production about a month. And
15 we've used numerous chokes in an attempt to reduce this
16 production to the current allowable of 80 barrels a day.
17 It's a very strong well. We initially tested the well at
18 over 300 barrels a day, and we've been continually reducing
19 the choke size, as I said, to get it down to the current
20 allowable. So we know what the flowing casing pressure
21 will be at 150 barrels a day because we've already flow-
22 tested the well, and it shows it to be about 920 pounds.

23 So if you consider all three of those plots, we
24 would induce very little drawdown on this reservoir to
25 produce at the requested rate of 150 barrels of oil a day.

1 This would impose very little danger of damaging the
2 reservoir, and thus we would not be causing waste of any
3 reserves.

4 Q. Do you have any other indications of productivity
5 of the wells? And I refer you to your Exhibit Number 6.

6 A. Yes, Exhibit Number 6 is the data collected from
7 a bottomhole pressure buildup test we conducted just last
8 week on this Cactus State Number 7, and this is another
9 example of the productivity of the Delaware sands in this
10 field.

11 There's a lot of data on these three pages, and I
12 would just like to point out the two numbers that I have
13 highlighted.

14 At times equals zero, which is just prior to
15 shut-in, we were flowing the well at about 125 barrels a
16 day, with a bottomhole flowing pressure of 1054 pounds.

17 We then shut the well in, recorded the pressure
18 buildup, and on page 3, at the end of 72 hours, we recorded
19 a reservoir pressure of 1131 pounds.

20 So taking those two pieces of data, we were only
21 drawing the well down about 80 pounds to produce 125
22 barrels a day. And that 80-pound drawdown is less than
23 seven percent of the reservoir pressure.

24 Q. And --

25 A. We are --

1 Q. Go ahead.

2 A. Excuse me. We're continuing to collect data like
3 this to ensure that we are properly managing this
4 reservoir.

5 Q. Thank you. Finally, what does your Exhibit --
6 Excuse me, we have two more. What does your Exhibit 7
7 show?

8 A. Exhibit Number 7 shows the current status of each
9 well on our Cactus State lease and the latest test data.

10 We have six wells that are currently producing,
11 two wells that have been drilled and cased, that have not
12 yet been completed. In fact, we started completion on
13 Number 5 just this week.

14 We only have one well, which is the Number 4,
15 that is not capable of making the current allowable of 80
16 barrels a day.

17 Wells Number 1, 2 and 7 are flowing and need to
18 be choked back to 80 barrels a day. In fact, Well Number 1
19 has been flowing its allowable for over two years.

20 Well Number 3 is pumping, but we're not running
21 the pumping unit at full capacity, so that production could
22 be increased.

23 And Number 6 is pumping, but you can tell by the
24 casing pressure of 200 pounds that it's also flowing up the
25 casing. So we have to restrict production on this well

1 also.

2 This exhibit is intended to point out that we're
3 requesting this allowable not based solely on one or two
4 extraordinary wells in the pool, but basically all the
5 wells. Five out of our six wells, we feel, are capable of
6 making substantially more than the 80-barrel-a-day current
7 allowable.

8 Q. Now, with respect to your GOR cases, you did some
9 -- or Devon had some computer modeling done on the
10 reservoir, did it not?

11 A. Yes, we did --

12 Q. Okay, and --

13 A. -- and we presented that in the previous hearing.

14 Q. Did you have some additional modeling done for
15 this hearing?

16 A. Yes, we did. Exhibit Number 8, there are four
17 graphs that I'd like to discuss.

18 This last exhibit are the results of some
19 computer modeling work performed by a consulting firm in
20 Dallas named the Scotia Group. That's S-c-o-t-i-a.

21 We used data from logs, cores, PVT analysis and
22 special core analysis to model a single 40-acre well in
23 this pool.

24 The first plot there is the daily rates, oil and
25 gas and GOR, for a well constrained by the current 80-

1 barrel-a-day allowable, and it shows that the 80-barrel-a-
2 day rate is sustained for several years prior to going on
3 decline.

4 The second page is a plot of the same well under
5 a constraint of 150 barrels a day. You can see it
6 maintains 150 barrels a day for a period of about a year
7 prior to going on decline.

8 The third page is a plot of cumulative oil versus
9 time, comparing these two different rate cases. And
10 although it shows that the rate of recovery depends on how
11 you produce the well, the ultimate recovery is essentially
12 the same for both cases. In other words, we would still
13 recover over 70,000 barrels, whether we produce the well at
14 80 barrels a day or 150 barrels a day.

15 And finally, the last plot is cumulative gas
16 production versus time, comparing the two cases, again
17 showing that we would not lose any ultimate recovery by
18 producing the well at a higher rate.

19 Thus, this computer modeling indicates that
20 producing the well at a higher oil rate would not cause
21 harm to the reservoir or any waste.

22 And we feel that granting a 90-day test period at
23 an oil allowable of 150 barrels a day would allow us to
24 gather additional data to verify these mathematical
25 computations.

1 Q. In your opinion, will the granting of this
2 Application be in the interest of conservation and the
3 prevention of waste?

4 A. Yes, I do.

5 Q. And were Exhibits 4 through 8 prepared by you or
6 under your direction?

7 A. Yes, they were.

8 MR. BRUCE: Mr. Examiner, I move the introduction
9 of Devon's Exhibits 4 through 8.

10 EXAMINER CATANACH: Exhibits 4 through 8 will be
11 admitted as evidence.

12 EXAMINATION

13 BY EXAMINER CATANACH:

14 Q. Mr. Morrow, the figure you've arrived at, 150
15 barrels a day, is that significant in any way?

16 A. Well, it's not a directly computed number, let me
17 put it that way.

18 We really considered three factors in arriving at
19 that number.

20 One, we looked at the productivity plots that I
21 showed you and tried to determine a rate which would not
22 cause excessive drawdown in the reservoir. We felt that a
23 10- to 20-percent drawdown was reasonable, it would not
24 cause harm. So the 150-barrel-a-day rate kind of fit that
25 criteria.

1 Number two, we wanted a rate that was sustainable
2 for a period of time. We didn't feel there was any reason
3 for us asking for such a high allowable that we couldn't
4 make it after a month or two. We wanted a rate that we
5 could sustain for a period of time.

6 Number three, we looked at some of the other
7 Delaware pools that are being developed in Eddy County, and
8 although most are deeper Brushy Canyon wells, which have a
9 depth-bracket allowable of between 140 to 190 barrels a
10 day, we felt these wells had similar productivity, so that
11 we thought 150 barrels a day was a reasonable request for a
12 Delaware pool.

13 So we looked at those three pieces of data to
14 arrive at the 150-barrels-a-day rate.

15 Q. Okay. You have tested the wells at rates of over
16 150 barrels a day?

17 A. Yes, sir, we have.

18 Q. And you --

19 A. Not -- Excuse me, not all of the wells.

20 Q. And you -- The results of those tests got you out
21 of the 10- to 20-percent drawdown?

22 A. I'm not sure I understood the question.

23 Q. The drawdown after -- at rates higher than 150
24 barrels a day got you out of the range of 10- to 20-percent
25 pressure drawdown?

1 A. Well, in the case of Well Number 7, no, we could
2 still go higher on Well Number 7. As I said, we produced
3 that well at almost 300 barrels a day, within that 10 to 20
4 percent.

5 The other wells we never really tested much
6 beyond that, so I can't answer for those wells.

7 Q. During the three-month test period, what kind of
8 tests do you plan on conducting and results -- What kind of
9 results do you think you'd get to?

10 A. We -- Some of the main tests we want to take are
11 some pressure tests. We have taken probably half a dozen
12 bottomhole pressures in this pool as we've been developing
13 it, and we will continue to do that.

14 We will also increase these wells stepwise. In
15 other words, we won't jump from 80 to 150 barrels a day;
16 we're going to step them up gradually and watch the GOR and
17 water-cut performance of the wells, to make sure we're
18 not -- I hate to use the word "coning", but bringing
19 additional gas or water into the wells.

20 So we hope to get additional data on these
21 productivity plots as we step the wells up in rate.

22 Q. On your -- On the modeling that you did, that was
23 based on a single 40-acre tract within the pool?

24 A. Yes, it was. It wasn't intended to be a history
25 match of a specific well or the modeling of a specific

1 well. We kind of took all the data and put it together to
2 come up with a composite or an average, to see what a
3 typical well would do in that pool. And it was a single
4 40-acre well, yes.

5 Q. Now, did it include -- Well, let me ask you this:
6 These wells that we've been discussing here, these are the
7 wells that you operate in Section 16?

8 A. Yes, it did, yes.

9 Q. Was any data from the wells in Section 9
10 incorporated into your study?

11 A. Basically, the only data we have on those wells,
12 since we don't operate them, were well logs, which we've
13 incorporated into our net-pay maps, and production data.
14 We did not have any pressure data on those wells to speak
15 of.

16 Q. Do you know if any of those wells are capable of
17 producing in excess of the allowable?

18 A. I don't believe they are.

19 Q. Do you intend to do any more reservoir modeling?

20 A. Right now we have no specific plans, but I can
21 see us as we develop this pool, we will need to do some
22 more reservoir modeling in terms of history matching and
23 future predictions, yes.

24 Q. Is that something that can be done in the near
25 future, in the short term, to help you -- If we grant the

1 three-month test period, is that something that can be done
2 in the next three months to support your Application?

3 A. I really don't think a study could be completed
4 in that period of time. We hope to use the data gathered
5 in that three months to input into our model and go from
6 there.

7 So I don't think it can be done concurrently,
8 getting the data and running the models. I think we'll
9 have to do the modeling after we gather the data from the
10 three-month test period.

11 Q. You say you used an average for the model. Do
12 the producing characteristics of all these wells -- are
13 they pretty similar to where you feel comfortable with
14 using an average?

15 A. Yes, I do. We have taken cores on a number of
16 wells and run some pressure buildup tests on several wells,
17 and all of the data seems to fit, as far as permeability
18 and productivity. Naturally, the -- I mean, some wells are
19 going to be better, some wells are going to be worse.

20 And it also depends on the completion procedure.
21 We've been learning as we've been developing this field,
22 and that's why I think some of the -- Specifically, Well
23 Number 7 is one of the better wells. We've kind of
24 tailored our stimulation procedure as we've learned.

25 But I think overall, the productivity of the

1 wells is very similar.

2 Q. Are any of your wells overproduced at this time?

3 A. I don't believe so.

4 Q. On your pressure-buildup test, do you feel like
5 72 hours was sufficient to get a good representation?

6 A. We have run tests longer, and in fact we've run
7 up to seven-day buildup tests, and the amount of buildup
8 you get past that 72 hours is fairly insignificant. 72
9 hours is a pretty good buildup time for wells of this
10 productivity, yes.

11 Q. Is it Devon's intention to come back in three
12 months and present the results of their tests? Is that the
13 purpose, to gather the data, to come back in three months
14 and ask -- seek permanent rules?

15 A. Whether it's three months or slightly longer,
16 depending on how much additional time we need to analyze
17 the data, yes, it is our intention to come back and ask
18 that that be made permanent rules, if that is appropriate
19 for the reservoir.

20 Q. But you're -- Right now you're just seeking the
21 allowable for the three-month period, you're not -- Do you
22 intend to come back at the end of three months and present
23 the data, or --

24 A. Well, yes, we do.

25 EXAMINER CATANACH: Okay. I have nothing

1 further, Mr. Bruce. The witness may be excused.

2 Is there anything further in this case?

3 MR. BRUCE: No, sir.

4 EXAMINER CATANACH: There being nothing further,
5 Case 11,305 will be taken under advisement.

6 THE WITNESS: Thank you.

7 EXAMINER CATANACH: Thank you.

8 (Thereupon, these proceedings were concluded at
9 8:56 a.m.)

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I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 11305,
heard by me on June 15 1998.
David R. Catanach, Examiner
Oil Conservation Division

CERTIFICATE OF REPORTER

STATE OF NEW MEXICO)
) ss.
 COUNTY OF SANTA FE)

I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

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

WITNESS MY HAND AND SEAL June 17th, 1995.



STEVEN T. BRENNER
 CCR No. 7

My commission expires: October 14, 1998

