

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:)

CASE NO. 12,666

APPLICATION OF TEXLAND PETROLEUM-HOBBS,)
L.L.C., FOR APPROVAL OF A WATERFLOOD)
PROJECT FOR ITS HOBBS UPPER BLINEBRY)
POOL COOPERATIVE WATERFLOOD AREA AND)
QUALIFICATION OF SAID PROJECT FOR THE)
RECOVERED OIL TAX RATE PURSUANT TO THE)
ENHANCED OIL RECOVERY ACT, LEA COUNTY,)
NEW MEXICO)

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

June 14th, 2001

Santa Fe, New Mexico

01 JUN 28 AM 8:38
OIL CONSERVATION DIV

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, June 14th, 2001, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South Saint Francis Drive, Room 102, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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I N D E X

June 14th, 2001
 Examiner Hearing
 CASE NO. 12,666

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<u>JAMES H. WILKES, JR.</u> (Engineer; president, Texland Petroleum)	
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A P P E A R A N C E S

FOR THE DIVISION:

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FOR THE APPLICANT:

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P.O. Box 2208
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By: WILLIAM F. CARR

ALSO PRESENT:

RICHARD EZEANYIM
Chief Engineer
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, NM 87501

* * *

ALSO PRESENT:

NAGI SOAS, Hobbs, New Mexico
Texas Resources of Houston
Paul Bliss
RM&S Enterprise of Hobbs, New Mexico

1 WHEREUPON, the following proceedings were had at
2 10:14 a.m.:

3 EXAMINER CATANACH: All right, at this time I'll
4 call the hearing back to order and call Case 12,666, which
5 is the Application of Texland Petroleum-Hobbs, L.L.C., for
6 approval of a waterflood project for its Hobbs Upper
7 Blinebry Pool Cooperative Waterflood Area and qualification
8 of said project for the Recovered Oil Tax Rate pursuant to
9 the Enhanced Oil Recovery Act, Lea County, New Mexico.

10 Call for appearances in this case.

11 MR. CARR: May it please the Examiner, my name is
12 William F. Carr with the Santa Fe office of Holland and
13 Hart, L.L.P. We represent Texland Petroleum-Hobbs, L.L.C.,
14 and I have one witness.

15 EXAMINER CATANACH: Call for additional
16 appearances.

17 There being none, can I get the witness to stand
18 and be sworn in?

19 (Thereupon, the witness was sworn.)

20 JAMES H. WILKES, JR.,
21 the witness herein, after having been first duly sworn upon
22 his oath, was examined and testified as follows:

23 DIRECT EXAMINATION

24 BY MR. CARR:

25 Q. Would you state your name for the record, please?

1 A. James Howard Wilkes, Jr.

2 Q. Mr. Wilkes, where do you reside?

3 A. In Fort Worth, Texas.

4 Q. By whom are you employed?

5 A. Texland Petroleum, Inc.

6 Q. And what is your position with Texland Petroleum,
7 Inc.?

8 A. I'm the president and chief operating officer of
9 Texland Petroleum, which is the managing member of Texland
10 Petroleum-Hobbs, L.L.C.

11 Q. Have you previously testified before the Oil
12 Conservation Division?

13 A. No, I have not.

14 Q. Would you summarize your educational background
15 for Mr. Catanach?

16 A. I have a bachelor of science degree in petroleum
17 engineering from Texas A&M University in 1978.

18 Q. And since graduation, for whom have you worked?

19 A. I worked six years with Sun Exploration and
20 Production Company and 17 years for Texland Petroleum.

21 Q. At all times have you been employed as a
22 petroleum engineer?

23 A. Yes, I have.

24 Q. Are you familiar with the Application filed in
25 this case on behalf of Texland Petroleum-Hobbs?

1 A. Yes, I am.

2 Q. Are you familiar with Texland's plans to
3 implement a cooperative waterflood project in the Hobbs-
4 Upper Blinebry Pool in Lea County, New Mexico?

5 A. Yes, I am.

6 Q. Are you familiar with the status of the lands in
7 the area which is the subject of this Application?

8 A. Yes, I am.

9 Q. And have you made an engineering study of the
10 area which is the subject of this case?

11 A. Yes, I have.

12 Q. Are you prepared to share the results of that
13 work with Mr. Catanach?

14 A. Yes, I am.

15 MR. CARR: We tender Mr. Wilkes as an expert
16 witness in petroleum engineering.

17 EXAMINER CATANACH: Mr. Wilkes is so qualified.

18 Q. (By Mr. Carr) Initially, would you summarize for
19 the Examiner what it is that Texland Petroleum-Hobbs seeks
20 with this Application?

21 A. Texland is seeking authorization to implement a
22 cooperative waterflood project by the injection of water
23 through 15 new 20-acre infill injection wells in the
24 Blinebry formation of the Hobbs-Upper Blinebry Pool, which
25 is -- it contains 12 leases, located in Township 18 South,

1 Range 38 East, Lea County, New Mexico, and it's on the
2 western boundary of the City of Hobbs, New Mexico.

3 Q. Do you also seek the adoption of procedures for
4 administrative approval of additional injection wells
5 within the project area?

6 A. Yes, we do.

7 Q. And are you seeking to qualify this project for
8 the Recovered Oil Tax Rate pursuant to the New Mexico
9 Enhanced Oil Recovery Act?

10 A. Yes, we are.

11 Q. I think it would be helpful if initially you
12 would explain to the Examiner who Texland Petroleum is.

13 A. Texland Petroleum is an independent exploration
14 and production company, privately held, headquartered in
15 Forth Worth, Texas. We operate 23 waterflood projects in
16 the Permian Basin, this being the first one in New Mexico;
17 the rest are in Texas.

18 We have approximately 410 producing wells and 250
19 water injection wells in our various floods. Our gross oil
20 production rate that we operate is approximately 6500
21 barrels per day.

22 Q. What success have you had with cooperative
23 waterflood projects?

24 A. We have done a number of cooperative waterflood
25 projects. The largest one that we have conducted is in the

1 Fullerton field, which is in Andrews County, Texas. We
2 purchased from Shell Oil Company in 1994 seven different
3 leases which we have drilled 115 new wells on and have
4 increased the oil production rate from 700 to 2300 barrels
5 per day. This success was achieved without unitizing any
6 of the properties. It's involved five different operators,
7 42 leaseline injection wells and 19 different leases.

8 Q. Why is Texland proposing a cooperative waterflood
9 project in this case instead of coming forward and
10 unitizing a project area?

11 A. We have several reasons. The main reason is, we
12 want to expedite the installation of this project. We have
13 worked with two other operators in the field, Occidental
14 Permian and Apache, and have negotiated cooperative
15 injection agreements that provide for cost-sharing of
16 leaseline water injection wells as well as cost-sharing on
17 the expense of operating those wells.

18 Our development plan is an infill plan where
19 we're drilling 20-acre infill injection wells to develop
20 40-acre fivespot waterflood patterns, and is identical to
21 the plan that we would do if we unitized this field. We
22 feel this plan will protect correlative rights and the
23 injection wells will fall very near leaseline boundaries,
24 between the leases, so there will be no oil migrating from
25 one lease to another.

1 Also, in this case, there are more than 300
2 different royalty owners in this field. It has been handed
3 down through a number of generations, because they're
4 1930s-vintage leases and it would be very difficult to
5 contact and have all these royalty owners ratify. In the
6 case of the cooperative waterflood, we don't need to get
7 any approval from the royalty owners.

8 Q. You'll just be paying the royalty owners based on
9 the terms of their leases for production from their leases;
10 is that right?

11 A. That's correct.

12 Q. Generally, Mr. Wilkes, how will Texland assure
13 the production from the cooperative waterflood project is
14 accurately attributed to each lease?

15 A. We will have -- Individual tank batteries that
16 are existing now will remain active on each lease, and
17 those tank batteries will meter all the oil sales, and so
18 it will be attributed just to that lease.

19 Q. Texland is the lessee under how many of the
20 leases which are involved in this Application?

21 A. Texland is the lessee of 10 of the leases, Apache
22 Corporation has one lease, and Occidental Permian, Ltd.,
23 has one lease.

24 Q. Will Texland actually be the operator of the
25 leaseline injection wells pursuant to your agreement with

1 Apache and Occi?

2 A. Yes, it will.

3 Q. And have those agreements been finalized and
4 executed?

5 A. Those agreements have been ratified by all three
6 parties.

7 Q. Let's go to what has been marked Texland Exhibit
8 Number 1, and using this exhibit I'd like you to explain to
9 Mr. Catanach what it is that you're proposing to do with
10 these individual tracts.

11 A. This map is a map of the Hobbs-Upper Blinebry
12 Pool in Lea County, New Mexico. It's on a scale of one
13 inch to 1000 feet. It shows the cooperative waterflood
14 area outlined in red. This cooperative waterflood area
15 contains 1580 acres.

16 The yellow leases on the exhibit are operated by
17 Texland Petroleum, the blue is Apache, and the green is
18 Occidental Permian.

19 The status of the existing wells are shown by
20 colored circles around each well. We have the active
21 Blinebry wells outlined in green, the Drinkard production
22 is in blue, lower Blinebry is in orange, Grayburg-San
23 Andres is in purple, and the Yates-Queen is in red.

24 Also shown are the 15 proposed water injection
25 wells. They are shown in blue with blue triangles around

1 them.

2 Q. Are these all the injection wells at this time
3 you are proposing for this waterflood?

4 A. Yes.

5 Q. And do you request that an order that results
6 from this hearing provide for or adopt a procedure whereby
7 additional wells may be added without the need for an
8 additional hearing?

9 A. Yes, we do.

10 Q. Have your plans to implement a waterflood project
11 been reviewed with the State Land Office?

12 A. Yes, they have.

13 Q. And what was the reaction from the State Land
14 Office?

15 A. They have been very favorable and indicated that
16 they do not have anything to approve or disapprove in this
17 regard.

18 Q. And they thanked us and asked us to let them know
19 when it was done; is that right?

20 A. Yes.

21 Q. Okay. What is Exhibit Number 2? Is this our
22 affidavit confirming that notice of this Application has
23 been provided to all affected owners in accordance with Oil
24 Conservation Division Rules?

25 A. Yes, it is.

1 Q. And to whom was notice provided?

2 A. Notice was provided to all of the offset
3 operators within two miles of the injection wells and the
4 surface owners within -- well, surface owners of the tracts
5 where we're drilling the water injection wells.

6 Q. And all offset operators within a half mile of
7 each injection well have been notified?

8 A. Yes, they have.

9 Q. Let's go now to the geological portion of the
10 case, and I would ask you initially to describe the general
11 characteristics of the Blinebry formation in the area of
12 the proposed cooperative waterflood project.

13 A. The Blinebry formation is a productive interval
14 that -- in this field between the depths of 5700 and 6100
15 feet, produces from dolomite with a gross thickness of
16 about 200 feet. These units are part of a complex sequence
17 that was deposited in a broad, flat, shallow shelf setting,
18 which persisted on the Central Basin Platform through
19 Leonardian time. Fluctuating sea-level conditions probably
20 controlled the deposition. The productive dolomites were
21 deposited in an intertidal to subtidal marine environment.
22 The average pay thickness is about 58 feet, with an average
23 porosity of 10.6 percent.

24 Q. And there is a geological summary contained in
25 Exhibit 5 at page 110, is there not?

1 A. Yes.

2 Q. Let's go now to Texland Exhibit Number 3, and I'd
3 ask you to identify this and review the information on the
4 exhibit for Mr. Catanach.

5 A. Exhibit Number 3 is an east-west cross-section
6 that cuts across the entire productive portion of the
7 Hobbs-Upper Blinebry field. Below the cross-section
8 there's a map with cumulative production that shows the
9 section A-A', going from west to east. The wells are
10 identified at the top by the original operator name, the
11 lease name and well number, the KB elevation is shown, and
12 then below that in green the cumulative production of each
13 well is shown.

14 Each well is presented with three separate
15 tracks, a gamma ray on the left-hand side, a calculated
16 porosity in the middle track, and a calculated water
17 saturation in the right-hand track. The perforations in
18 each well are marked in black.

19 It's a structural cross-section. We have three
20 stratigraphic markers that we have picked throughout the
21 field. The top one we call just the top of the upper
22 Blinebry, the middle one we call the top of the lower
23 portion of the upper Blinebry, and then the bottom one we
24 call the base of the upper Blinebry.

25 The cross-section shows that -- The hotter colors

1 between wells are calibrated to the porosity, so the hotter
2 colors are high porosity, the cold colors, the blues, are
3 low porosity.

4 Going from west to east across the field, the
5 westernmost well has a lot of calculated high porosity, but
6 there's a lot of shaly porosity in there, and it really
7 doesn't have very much permeability. That well only made
8 64,000 barrels. But as you go east of that, the Bowers "A"
9 Federal 38 is in the best portion of the field, and you can
10 see how much of the section is very high porosity.

11 And continuing to the east, the good portion of
12 the field goes through the Standard Oil Company of Texas
13 State Number 1. You can see some changes as you go across
14 the field, in that most of the porosity development is in
15 the lower portion of the upper Blinebry in that State of
16 Texas Number 1, but it is the best cumulative production
17 well in the field.

18 And then east of that there's an area that has
19 very poor, low porosity development, very tight
20 permeability, and the cumulative production from the State
21 B Number 5 is 44,000 and the State B Number 6 is 6000.

22 And then there's another area to the east of that
23 where it gets better again, and it's mainly in the lower
24 portion of the Blinebry. As you can see, the Grimes B
25 Number 7 has a cum of 205,000 barrels.

1 And then the well on the far right is a very low
2 quality well.

3 Q. How were the boundaries for the project area
4 determined?

5 A. We have prepared an Exhibit Number 4, which shows
6 the cumulative production from the field. We have again
7 outlined the cooperative waterflood area in red, and the
8 cumulative production from each well is shown.

9 And it's very evident from the cumulative
10 production where the good part of the field is. There's a
11 sweet spot that lies in Sections 29 and 30 and 32, and
12 those -- the bulk of that area has produced over 200,000
13 barrels per well on primary.

14 And we have also shown there the placement of the
15 20-acre infill water injection wells, and that is the area
16 that we're targeting for the waterflood development plan.

17 Q. Let's go back to the orientation map, and I'd ask
18 you to review the current status of the project area and
19 the wells producing.

20 A. Okay, we have -- in the area, the current status
21 of the wells, we have 15 proposed water injection wells
22 that we want to drill. There are eight existing Blinebry
23 wells that still produce from the upper Blinebry, that are
24 outlined in green. And the rest of the wells have all been
25 recompleted. Many of them produced from the Blinebry but

1 have been recompleted to the other horizons.

2 You can see that the Grayburg-San Andres, there's
3 a lot -- a number of wells that produce from it, because
4 the North Hobbs Unit overlies the entire area. They've
5 been recompleted back to the Grayburg-San Andres.

6 Q. Now, you intend to commence injection. How soon
7 do you plan to move into the phase where you'll be drilling
8 additional development wells or producing wells?

9 A. We plan to -- as soon as we get an order, to
10 begin development of the water-injection wells. We have a
11 rig committed to us that we have had drilling for us all
12 year, and the plan is to move it over here and to begin the
13 drilling program on the injection wells.

14 Q. When will you start drilling producing wells?

15 A. After we complete the injection well drilling
16 program, we will watch for response in the existing
17 producing wells.

18 We have very low bottomhole pressure,
19 approximately 300 p.s.i., from pressure buildup tests that
20 we've conducted, and we think that there's a considerable
21 fill-up volume, so we don't think that the response will
22 happen immediately, so when we begin to get response in the
23 existing producing wells, then we will begin drilling the
24 -- either recompleting or redrilling replacement producing
25 wells.

1 Q. And it makes no sense to drill producing wells
2 until you start getting a response in the wells that are
3 there; is that correct?

4 A. That is correct, because if you drilled a well
5 today you'd have a very marginal well.

6 Q. What is the total cumulative production from the
7 area encompassed by this cooperative flood to date?

8 A. We have produced 6.4 million barrels of oil in
9 the area outlined in red.

10 Q. And what is the anticipated additional recovery?

11 A. We anticipate that we will produce an incremental
12 4.8 million barrels of oil.

13 Q. Why does Texland seek to implement the
14 cooperative waterflood project at this time?

15 A. We have a significant sum of money invested in
16 this field through acquisitions, and we feel that the
17 economics are very favorable for this project. We have old
18 wellbores that are approximately 30 years old, and these
19 wellbores, as you can see, many have been recompleted.
20 Some of them are TA and no longer useable. We're concerned
21 about the longevity of those wellbores.

22 We also believe that in order to maximize the
23 recovery, that the sooner that we begin this project the
24 better, because of shrinkage of the crude oil and
25 increasing viscosity of the crude oil with continued

1 primary depletion.

2 Also, the economics are favorable because the oil
3 prices are very high right now.

4 Q. What you've got is, you've got a fairly
5 substantial fill-up period you're looking at --

6 A. Yes, we do.

7 Q. -- perhaps, at the front end; is that right?

8 A. That is correct.

9 Q. Why don't we move to Exhibit Number 5, the Form
10 C-108, and I'd ask you to refer to that. And initially I
11 think it would be helpful to point out the last six pages
12 that are attached to this exhibit.

13 A. Okay. Beginning with page 114, we have submitted
14 in the package -- this is in addition to the original
15 package that we submitted -- two injection well data
16 sheets, one for the State I-29, Number 9; it's an alternate
17 location. And on the Exhibit Number 1 we have shown that
18 alternate location, which is further to the north of the
19 blue triangle.

20 The second one that we have submitted is the
21 State A Number 9, and that well is an alternative to the
22 original State 1-29 Number 8, and it is shown in the
23 northeast corner of the Apache lease. We feel that both of
24 these locations are better than the original proposed
25 locations.

1 Q. And what we have in Exhibit 5 is the original
2 C-108 as filed with the Oil Conservation Division?

3 A. That's correct.

4 Q. And what you have just reviewed are two new
5 really replacement wellbore diagrammatic sketches and
6 wellbore data sheets for two injection wells?

7 A. That is correct.

8 Q. And you've enclosed those because we're proposing
9 to move the location slightly?

10 A. Right.

11 Q. Behind that are additional well data sheets, and
12 these are revised data sheets for documents that are in the
13 original C-105?

14 A. That is correct, they are updated data sheets for
15 some additional information that we discovered after our
16 original filing.

17 Q. And these are just correcting things like cement
18 tops and things of that nature?

19 A. Yes, they are.

20 Q. So as to not create confusion, we have the
21 original C-108 as filed, and then starting at the back we
22 have two amended data sheets for injection wells, and then
23 some --

24 A. And we have four different wells starting on page
25 116, where we have corrected wellbore schematics and well

1 histories.

2 Q. Mr. Wilkes, this is not an expansion of an
3 existing project, this is a new project; is that correct?

4 A. That is correct.

5 Q. Does the Exhibit Number 5 Form C-108 contain all
6 information required by this form and the rules of the OCD?

7 A. Yes, it does.

8 Q. Could you turn to page 18 of this exhibit and
9 just identify what that is?

10 A. Page 18 is a Midland Map Company plat of the
11 Hobbs field, particularly the Hobbs-Upper Blinebry portion
12 of the field. It shows, on a scale of one inch is equal to
13 4000 feet, the 15 proposed water injection wells, with the
14 half-mile radius showing the area of review, as well as a
15 two-mile radius. And on the left-hand side of the figure
16 we have a tabular listing of all of the offset operators by
17 field, operator and lease name.

18 Q. And these are the individuals to whom notice of
19 the Application was provided; is that correct?

20 A. That is correct.

21 Q. Does this exhibit contain all of the information
22 required for a full C-108 review of each of the wells which
23 penetrate the injection interval in any of the areas of
24 review?

25 A. Yes, it does.

1 Q. And the data is organized by section?

2 A. Yes, it's organized by section, and at the last
3 section we have all of the plugged and abandoned wells
4 separate. There are seven of those.

5 Q. Okay, so the well data sheets are from pages 20
6 to 109, correct?

7 A. That is correct.

8 Q. The data on plugged and abandoned wells is found
9 at pages 94 through 109?

10 A. That is correct.

11 Q. Have you reviewed the information on each of the
12 wells that has been plugged and abandoned?

13 A. Yes, I have.

14 Q. In your opinion, are all of them plugged so as to
15 prevent the migration of injection fluids from the
16 injection interval?

17 A. Yes, they are.

18 Q. What volumes does Texland propose to inject?

19 A. We propose to inject an average rate of 500
20 barrels per day per well, with a maximum rate of 1500
21 barrels per day per well.

22 Q. And what is the source of the water your propose
23 to inject?

24 A. We will reinject all produced water from the
25 Blinebry, Drinkard and Queen formations that we operate, as

1 well as using fresh water for makeup.

2 Q. Have you reviewed your plans with the State Land
3 Office for the use of freshwater as makeup water for this
4 project?

5 A. Yes, we have.

6 Q. And what has been the response from the State
7 Land Office?

8 A. They have no problem with the use of that water.

9 Q. Can you review for Mr. Catanach the efforts of
10 Texland to obtain a water supply for this project?

11 A. Yes, we began our search for water with -- the
12 most obvious candidate was the Occidental Permian North
13 Hobbs Unit, which their central facility is located within
14 this area. They informed us that all of their produced
15 water was reinjected in their project and they had none
16 available.

17 We contacted the City of Hobbs concerning their
18 city re-use water from the sewage treatment plant, which
19 Occidental had at one time used for makeup water. That
20 water was all committed to a farmer under contract, and it
21 was all completely utilized.

22 We talked to the city manager about the use of
23 Hobbs' potable water which was -- in terms of well capacity
24 was available, but delivery capacity and their distribution
25 system was a problem. And he directed us to a farmer in

1 the area that was using water for agricultural purposes,
2 and we have secured that as our source, and we believe it's
3 the only viable source, the Ogallala formation.

4 Q. And who are you acquiring the water from?

5 A. We're acquiring it from the Grimes Land Company.

6 Q. And have applications been filed with the State
7 Engineer's Office to convert the use to commercial use from
8 agricultural?

9 A. Yes, they have been.

10 Q. And you're going to be using this fresh water as
11 the makeup water for the project?

12 A. That is correct.

13 Q. And as you go through the project do you
14 anticipate that the produced water volumes may increase
15 over time?

16 A. Yes, we anticipate that early on, during the
17 fill-up period, we'll use larger volumes of water that will
18 gradually decrease. And then as we begin to get produced
19 water breakthrough from the producing wells, then we'll
20 gradually reduce the amount of makeup water.

21 Q. In your efforts to find a source of water for
22 this cooperative waterflood project, you also talked to
23 Occidental and others about sort of standing in a second
24 position behind them, so if there was some other source of
25 water available you could access that and then not have to

1 rely on the freshwater supply?

2 A. That is correct.

3 Q. Were any of those sources available?

4 A. There are none of those available at this time,
5 but in the future Occidental mentioned the possibility of
6 CO₂, at which time they would have some excess produced
7 water.

8 Q. But at this time there is no guarantee?

9 A. That is correct.

10 Q. Will this system be an open or a closed system?

11 A. It will be closed.

12 Q. What is the injection pressure that Texland will
13 be seeking?

14 A. An average injection pressure of 2000 p.s.i. and
15 a maximum pressure of 2875 p.s.i.

16 Q. And this equates to how many pounds per foot of
17 depth?

18 A. That is .5 p.s.i. per foot of depth.

19 Q. Will Texland limit the injection pressure to .2
20 pound per foot of depth to the top of the injection
21 interval until the requested pressures are justified by
22 step-rate tests?

23 A. Yes, we will.

24 Q. And you would request that the order so provide?

25 A. Yes.

1 Q. Have you reviewed the data available on the wells
2 within the areas of review for this cooperative waterflood
3 project, and have you satisfied yourself that there is no
4 remedial work required on any of these wells so that you
5 can safely operate the project?

6 A. We have identified three wells that we have a
7 concern about. Each one of these lacks a bridge plug
8 between the Blinebry and the Drinkard when they were
9 plugged back, according to our research. And we proposed
10 that we meet with the Director of the Hobbs OCD District,
11 Chris Williams, as well as the operators of these three
12 wells, to discuss what cause of action we should do.

13 Q. Can you identify those wells to Mr. Catanach?

14 A. Yes, I can. We have the North Hobbs Unit 30-412,
15 which is operated by Occi, Occidental Permian. That well
16 is located in the northeastern corner of Section 30. It's
17 identified there as NHU-412, and it was originally the
18 McKinley Number 11.

19 The second one is the McKinley Number 9, which is
20 also in Section 30. It's southwest of that 412 that I just
21 identified. This well is a TA producing well that is
22 operated by Texaco. It's on our acreage, but we do not
23 have that wellbore.

24 The third well is in Section 33. It's called 33-
25 112, North Hobbs Unit, operated by Occidental Permian.

1 This well was originally the State B Number 5. And those
2 are the three.

3 Q. Mr. Wilkes, what is the status of the wells you
4 propose to utilize for injection?

5 A. We have not drilled any of those wells.

6 Q. When you drill these wells, how are you going to
7 monitor them to assure the integrity of the wellbore?

8 A. We will -- First of all, we plan to cement both
9 strings of casing back to the surface, both the surface and
10 the production string. We will fill the annular space with
11 an inner packer fluid and monitor the pressure on that.

12 Q. Are there freshwater zones in the area?

13 A. Yes, there are.

14 Q. And what are they?

15 A. The Ogallala formation is the only freshwater
16 zone. It produces from about 50 feet to approximately 200
17 feet of depth, and that's the only one in the area.

18 Q. Are there freshwater wells within a mile of any
19 of the proposed injection wells?

20 A. Yes, there are.

21 Q. And does Exhibit Number 5, the Form C-108,
22 contain water analyses on wells -- on some of these sampled
23 water wells?

24 A. Yes, it does, on page 111 of the C-108 package we
25 have identified the location of two domestic-type water

1 wells that are in the area. One is at 1717 Gary Street,
2 and the other is called the Ayers Number 1. These are both
3 in Section 30.

4 And below that is the chemical analysis showing
5 the constituents plus the total dissolved solids, which are
6 in the range of 606 to 486 parts per million, and those are
7 typical of the Ogallala formation.

8 Q. Do you anticipate any compatibility problems,
9 utilizing the fresh water and mixing it with the produced
10 water?

11 A. No, I do not. We treat the Ogallala formation
12 water for oxygen, to remove oxygen, to prevent corrosion,
13 and we have no problems with the injectivity of that water.

14 Q. In your opinion, will the injection of water as
15 proposed by Texland pose any threat to fresh water supplies
16 in the area?

17 A. No, it will not.

18 Q. And have you examined the available geologic and
19 engineering data on this reservoir?

20 A. Yes, I have.

21 Q. As a result of that examination, have you found
22 any evidence of open faults or other hydrologic connections
23 between an injection interval and any underground source of
24 drinking water?

25 A. No, I have not.

1 Q. Let's now go to what has been marked as Exhibit
2 Number 6. Would you identify that?

3 A. Exhibit Number 6 is the application for the
4 Recovered Oil Tax Rate pursuant to the Enhanced Oil
5 Recovery Act for the Hobbs Upper Blinbry Cooperative
6 Waterflood Project.

7 Q. Does this application contain all information
8 required for an application of this nature by the rules of
9 the Oil Conservation Division?

10 A. Yes, it does.

11 Q. And to the best of your knowledge, is it
12 complete?

13 A. Yes, it is.

14 Q. What are the additional capital costs to be
15 incurred in this project?

16 A. We -- For facilities, we estimate that the cost
17 is \$1,080,000, and the total cost \$5.8 million.

18 Q. And how much additional production does Texland
19 expect to obtain from the cooperative waterflood?

20 A. We believe that there's 4.8 million barrels of
21 secondary -- incremental secondary reserves in this field.

22 Q. Will there be any significant contribution in
23 terms of gas production?

24 A. Not very significant.

25 Q. Have you been able to estimate the total value of

1 this additional production?

2 A. Yes, using an oil price of \$20 per barrel, that
3 would be a total value of \$96 million.

4 Q. Does Texland Exhibit Number 6 set out the
5 production history and contain production forecasts of oil,
6 gas and water from the project area as required by Division
7 rules for applications of this nature?

8 A. Yes, it does. I've got two exhibits, the last
9 two exhibits. The first one is a production history and
10 forecast curve of the active Texland Petroleum-Hobbs L.L.C-
11 operated wells in the Hobbs-Upper Blinebry Pool. This is
12 on logarithmic scale, and the oil production rate is
13 approximately 150 barrels per day. Currently we show the
14 forecast for that.

15 The next curve we have is for the Shell State A
16 Number 6, which is the only active well on the Occidental
17 Permian lease, and it makes approximately 11 barrels of oil
18 per day, and we show their forecast decline on that well.

19 And the Apache lease has no active Blinebry
20 production on it, so there's no curve for it.

21 Q. Mr. Wilkes, in your opinion, will approval of
22 this Application and the implementation of the proposed
23 cooperative waterflood project be in the best interest of
24 conservation, the prevention of waste and the protection of
25 correlative rights?

1 A. Yes, it will.

2 Q. Were Exhibits 1 through 7 prepared by you?

3 A. Yes, they were.

4 MR. CARR: Mr. Catanach, at this time I move the
5 admission of Texland Exhibits 1 through 7.

6 EXAMINER CATANACH: Exhibits 1 through 7 will be
7 admitted as evidence.

8 MR. CARR: And that concludes my direct
9 examination of Mr. Wilkes.

10 EXAMINATION

11 BY EXAMINER CATANACH:

12 Q. Mr. Wilkes, can we identify these separate
13 leases, please?

14 A. Yes.

15 Q. And you can start wherever you want.

16 A. Okay. Let's start at the northwestern part.

17 Q. Okay.

18 A. There's an 80-acre tract, which is the south half
19 of the northeast quarter, which we have identified as the
20 McKinley Lease. That is a tract we've acquired from
21 Texaco.

22 Q. Okay.

23 A. Okay, below that in the southeast quarter of
24 Section 30 as well as, say, the western quarter of Section
25 29 to the east of it is the Bowers A Federal Lease.

1 Going east of that, in Section 29 we have the
2 State A 29 Lease, which is 120 acres.

3 East of that is the State 1-29 Lease, which has
4 80 acres.

5 East of that in Section 28, the southwest
6 quarter, is the W.D. Grimes, which we have acquired from
7 Occidental Permian, and that is 160 acres.

8 Then starting in Section 33, on the easternmost
9 portion we have the W.D. Grimes NCT B Lease, which is 160
10 acres.

11 To the east of that we have an 80-acre State B
12 Lease, and below that an 80-acre State G Lease.

13 MR. CARR: That's to the west of --

14 THE WITNESS: That's to the west of the Grimes B.

15 Then going east of that, the blue Apache lease is
16 called the State A Lease.

17 MR. BROOKS: Again, west.

18 THE WITNESS: Going west, I'm sorry, I'm mixed
19 up. Yeah, going west.

20 South of that is the Shell State A Lease,
21 operated by Occidental Permian.

22 To the west of that is the Grimes NCT A Lease,
23 which we operate.

24 And then in Section 31 we have a 40-acre lease
25 called the Fowler.

1 Those are the 12 leases.

2 Q. (By Examiner Catanach) Okay, and the W.D. Grimes
3 is 320 acres?

4 A. It is 320 acres, but the productive part of it is
5 less than that.

6 Q. Okay. Now, some of these leases are state lands?

7 A. Yes, they are. There are six leases on the state
8 lands.

9 Q. Six state leases. And the rest are fee leases or
10 federal leases?

11 A. One federal lease, and the rest are fee leases.

12 Q. Okay. And you did talk to the Land Office about
13 your plan?

14 A. Yes, we did.

15 Q. And they didn't have any concerns about it?

16 A. No, they didn't express any concerns about it.

17 Q. Did you also talk to the BLM about your proposal?

18 A. We have not met with the BLM.

19 Q. Which is the federal lease that we have here?

20 A. The Federal lease is the Bowers A Federal, which
21 is in the southeast quarter of Section 30 and then the
22 western portion of Section 29.

23 Q. Do you have any plans to talk to BLM about your
24 proposal, Mr. Wilkes?

25 A. Well, at the current time we don't feel that they

1 really have anything to approve or disapprove in the way
2 that we're conducting this.

3 MR. CARR: Mr. Catanach, the reason they weren't
4 involved in the process is, they sort of fall through the
5 cracks. There is not federal surface there; the surface is
6 fee. And so as to injection wells we've talked with them
7 about it, and we've talked to the leasehold operators under
8 those tracts. There's going to be no migration, we
9 believe, from those properties under the adjoining tracts,
10 and so that's why they weren't brought into the process.

11 EXAMINER CATANACH: Fee surface on that tract?

12 MR. CARR: Yeah. Yes, sir.

13 Q. (By Examiner Catanach) Okay, Mr. Wilkes,
14 currently you have eight producing wells within this entire
15 area?

16 A. That is correct, in the upper Blinebry.

17 Q. And those are identified on Exhibit 1 as being
18 the green circles?

19 A. That is correct.

20 Q. Okay. Now, there are some of these leases that
21 obviously do not have a producing well on them at the
22 current time?

23 A. That's correct.

24 Q. Do you know at this point in what order producing
25 wells will be drilled within the unit?

1 A. I don't have a -- No, I don't have a particular
2 order of, you know, how the producing wells will be
3 drilled. That will really depend upon the response, you
4 know, the performance we see and the response in the
5 existing wells.

6 Q. Do you know at this point how many producing
7 wells will be drilled?

8 A. I'm estimating that there will be approximately
9 12 replacement wells drilled in this area, two of which
10 would be on the Apache, and the rest would be on the
11 Texland acreage.

12 Q. Two producing wells would be drilled on the
13 Apache tract?

14 A. That's correct. Either that or they would, you
15 know, would recomplete or re-work one of the existing
16 wells.

17 Q. Okay. At this point you see no additional wells
18 on the Occi tract?

19 A. No, because the easternmost well on the Occi
20 tract was basically a dry hole in the Blinebry, and there's
21 no pay there.

22 Q. Okay. Now, with regards to each of these leases,
23 the interest is not common among these leases; is that
24 your --

25 A. The royalty interest or the working interest?

1 Q. Well, the working or the royalty interest.

2 A. Okay, in the case of the working interest,
3 everything in yellow is 100 percent Texland Petroleum-
4 Hobbs, L.L.C. In the case of the Apache lease, I believe
5 it's 100 percent Apache and the same for the Occidental
6 Permian Lease, 100 percent Occidental Permian.

7 Q. Okay. Under the fee leases you obviously have
8 what, several different royalty interest owners?

9 A. Yes, the Grimes is the primary -- you know fee
10 leases, approximately 300 royalty owners under those
11 tracts.

12 Q. Underneath the Grimes lease?

13 A. Yes.

14 Q. Wow.

15 A. I believe that's correct. There are over 300 in
16 the total area, but most of those are on the Grimes.

17 Q. Okay. That's the W.D. Grimes, right?

18 A. It's -- Actually, I've got a number here. 272
19 are in the Grimes A and B, okay?

20 Q. Okay, Grimes A and B.

21 A. A and B.

22 Q. Okay.

23 A. I'm not certain -- There's another Grimes that we
24 have just acquired that's in Section 28, and I'm not
25 certain if that's common. There may be quite a few more in

1 that, I'm not sure how common that is. But in the Grimes A
2 and B it's 272.

3 Q. Mr. Wilkes, in order to protect the interest
4 owners within this cooperative unit, do you ultimately plan
5 on having a producing well, at least one producing well, on
6 each lease?

7 A. Yes, we do.

8 Q. So when it's all said and done, you might have a
9 total of 20 producing wells and 15 injection wells?

10 A. That's correct.

11 Q. Okay. Do you know when the producing wells are
12 going to be drilled?

13 A. I would just estimate that the injection well
14 drilling will take most of -- probably beyond the end of
15 this year, into probably the first quarter of next year.
16 If we get an order fairly quickly, we would begin our
17 program, and those are roughly two-week wells. So that's a
18 total of 30 weeks of drilling that we'd have just to drill
19 the injection wells.

20 And then we would possibly drill some producing
21 wells early on, but we might have a little bit of break
22 there, but I'd anticipate we would start drilling those
23 during 2002, again, just depending on the response that we
24 see.

25 Q. Okay. Now, the unit that you've outlined here,

1 is this just a portion of the Hobbs-Upper Blinebry Pool?

2 A. Well, it is probably 99 percent or nearly 99
3 percent of the cumulative production from the field. If
4 you refer to Exhibit Number 4, I think we show every well
5 that has produced from the Hobbs-Upper Blinebry Pool, with
6 the cumulative production from those wells, and there's
7 only -- it looks like four wells that produced any
8 significant amount of oil that are outside of the red
9 border. And those, it looks like maybe 300,000 barrels of
10 -- and we have 6.4 million barrels inside the red border.

11 Q. Is there a reason why that was excluded?

12 A. Since we weren't really focused on the area to
13 the east, we did contact one operator called Saga about the
14 Section 32 and about participation in that well, and their
15 well was a very poor producer and they weren't interested
16 in participating in our cooperative plan.

17 Q. I show a well, it looks like to the north of
18 Section 30. It's labeled Number 11. Was that a producing
19 well in the pool?

20 A. I show 2000 barrels of production out of that
21 well, so I believe it was a Blinebry producer, but just
22 pretty much a dry hole.

23 Q. Okay. What is the plan with regards to -- I see
24 where there's going to be an injection well drilled on the
25 Apache acreage?

1 A. Yes. That would be in lieu of drilling the State
2 1-29 Number 8, that's shown in the southeast portion of
3 that lease.

4 Q. Okay.

5 A. That's an alternative location that we want to
6 drill, rather than the original one we submitted.

7 Q. Okay. Now, is Texland going to drill that well?

8 A. Yes, we're going to drill and complete and
9 operate all 15 wells.

10 Q. Oh, you will operate that well, even though it's
11 on Apache acreage?

12 A. Yes, as well as the one -- There's another well
13 down there on the south line of the Apache acreage. That
14 one as well.

15 Q. Okay. Now, as far as the way that the production
16 is going to be allocated to each lease, is it just strictly
17 going to be on a per-well basis, whatever the well
18 produces?

19 A. We have existing batteries on each of those
20 leases, with the exception of some of the leases that don't
21 have any existing production, there's no active, you know,
22 tank battery, but for example, the Bowers A Federal we have
23 a battery, the State A 29 we have a battery, the State 1-29
24 we have a battery, and for the Grimes we have a battery.

25 Q. Uh-huh.

1 A. And we'll continue to, you know, meter the
2 production off of each lease individually.

3 Q. Okay, and when waterflood operations are fully
4 implemented, whatever production comes from the wells on
5 that lease, that's what all the interest owners will share
6 in --

7 A. That's correct.

8 Q. -- is that production?

9 A. Just the production off their lease.

10 Q. Okay. And I assume you've located the injection
11 wells to where you would give each lease the optimum
12 opportunity to recovery oil from their lease?

13 A. We do. In the case of wells that are on lease
14 lines, we attempted to locate them as close as we possibly
15 could. But in many cases there are roads, buildings,
16 pipelines, existing wells, there's a tremendous amount of
17 infrastructure out here in this area. And so we made the
18 best attempt we could to locate the wells as close to lease
19 lines as possible.

20 Q. The eight wells that are currently producing,
21 what's the average producing rate of those, Mr. Wilkes?

22 A. The rate is approximately 20 barrels a day per
23 well. However, two wells make the bulk of that production.

24 Q. So your rate would be -- average rate would be
25 about --

1 A. Average rate would be about 20, right.

2 Q. All right. Do you have an estimate at this point
3 on how much fresh water you'll be injecting into this unit?

4 A. As a total cumulative volume, or just -- well,
5 okay, I do -- In terms of daily rates, initially I'm
6 estimating that we can inject 1000 barrels per day per well
7 during the initial fill-up period. And then as we begin to
8 fill up and repressure the reservoir, that rate will drop
9 to approximately 500 barrels per day per well, and that's
10 what I'm predicting, you know, when we pretty much get
11 pressured up -- built up, pressured up.

12 And then after that it would gradually decline as
13 the produced water volumes increased.

14 Q. So you're looking at initially 15,000 barrels of
15 fresh water a day?

16 A. That's correct.

17 Q. Did Occi indicate to you at what point CO₂
18 operations would begin in the North Hobbs Unit?

19 A. We discussed, I guess, where they are in the
20 process. Right now it's an idea that hasn't even been
21 presented to their working interest owners. So they have
22 not -- you know, there was nothing firm there about -- He
23 just said that it could be -- he thought it would be
24 probably three years, minimum, before something would be
25 implemented there.

1 Q. At that point you would explore the options of
2 obtaining some of the produced Occi water?

3 A. That's correct.

4 Q. With regards to the three area-of-review wells
5 that you think there may be a problem with, can you tell
6 me, is there Drinkard production in this area?

7 A. Yes, there is.

8 Q. And there is currently not waterflood operations
9 going on in the Drinkard formation?

10 A. The Drinkard is on primary depletion, and it's
11 really not a waterflood candidate. It's a very high gas-
12 oil-ratio reservoir. Basically, most of the wells are
13 pretty much gas wells at this point. And those wells were
14 plugged back -- I think in most cases those zones were
15 commingled in those particular wells, and so when they
16 plugged them back, apparently they didn't see the need to
17 isolate the Drinkard with a bridge plug of its own.

18 Q. And it's your opinion that it's a good idea to
19 isolate that interval?

20 A. I think that there's a potential for crossflow
21 there. The three wells are all really edge-type wells in
22 the Blinebry. None of them were very good Blinebry wells.
23 But there is that potential, because the Drinkard is a
24 fairly low-pressure formation.

25 Q. So what you would propose is to meet with the

1 operators and see if either them or yourself could do the
2 work on the wells to --

3 A. That's correct.

4 Q. -- set a bridge plug in there?

5 A. In the case of the two Occidental Permian wells,
6 they're active producing wells in the Grayburg-San Andres.

7 Q. And the other one is what?

8 A. Is a TA, just a TA well now, temporarily
9 abandoned with bridge plugs in it.

10 Q. Okay, Mr. Wilkes, you identified some project
11 costs. You identified two different costs, and I want to
12 distinguish what those --

13 A. The facilities, which would be the injection
14 plant, the pump station, the distribution system and the
15 water supply system we estimate to be -- I believe it was
16 \$1,080,000. The rest of it is the cost of drilling the 15
17 injection wells.

18 Q. Okay, so the rest, you say the \$5.8 total cost --

19 A. That includes both the drilling of the injection
20 wells and the facilities.

21 Q. Okay. Now, that doesn't include drilling
22 producing wells?

23 A. No, it does not.

24 Q. Do you have any idea how much that would be?

25 A. Those are approximately \$300,000 per well, and

1 we've got 12 of those, so we're talking about in the
2 neighborhood of \$4 million additional dollars for producing
3 wells.

4 Q. So you're looking at a total cost of about \$10
5 million?

6 A. That's correct.

7 EXAMINER CATANACH: Okay, I think that's the only
8 questions we have, Mr. Carr.

9 MR. CARR: Thank, you, Mr. Catanach, that
10 concludes our presentation.

11 MR. SOAS: Mr. Catanach, I've got some questions.

12 EXAMINER CATANACH: And could you please identify
13 yourself, sir?

14 MR. SOAS: My name is Nagi Soas. I'm
15 representing Texas Resources of Houston.

16 EXAMINER CATANACH: Texas Resources?

17 MR. SOAS: Right.

18 EXAMINER CATANACH: And that is a --

19 MR. SOAS: -- operator.

20 EXAMINER CATANACH: Texas Resources. I'm sorry,
21 could you spell your name for me, sir?

22 MR. SOAS: N-a-g-i, last name is S-o-a-s.

23 EXAMINER CATANACH: And the company again, I'm
24 sorry?

25 MR. SOAS: Texas Resources --

1 EXAMINER CATANACH: Texas Resources.

2 MR. SOAS: -- of Houston.

3 EXAMINER CATANACH: Okay, and you're --

4 MR. SOAS: And Paul Bliss of Hobbs?

5 EXAMINER CATANACH: I'm sorry?

6 MR. SOAS: Paul Bliss of Hobbs?

7 EXAMINER CATANACH: And who is Paul Bliss?

8 MR. SOAS: He is part owner of W.D. Grimes Number

9 4.

10 EXAMINER CATANACH: He is a royalty interest

11 owner?

12 MR. SOAS: He has an interest in the well.

13 EXAMINER CATANACH: And you are on his behalf

14 also?

15 MR. SOAS: Yes, sir. And also I'm on behalf of

16 surface owner/operator of RM&S Enterprise of Hobbs, New

17 Mexico.

18 EXAMINER CATANACH: -- Enterprise. And what is

19 the interest of Texas Resources?

20 MR. SOAS: Texas Resources has two wells, which

21 is the W.D. Grimes Number 1 -- Excuse me, W.D. Grimes

22 Number 4 and Number 24.

23 EXAMINER CATANACH: Now, you say they have two

24 wells. Do they operate these wells or -- ?

25 MR. SOAS: Yes.

1 EXAMINER CATANACH: Okay. And -- Okay, you've
2 got some questions of this witness?

3 MR. SOAS: Right.

4 EXAMINER CATANACH: Okay, you may --

5 EXAMINATION

6 BY MR. SOAS:

7 Q. From the operator's standpoint, the production
8 zone on the Queen -- and that's a low-pressure zone -- and
9 their concern about the cementing technique, you would be
10 able to successfully cement across the Queen formation
11 since you're offsetting to those two wells would be an
12 injector well?

13 A. Okay, so the question is, can we successfully
14 cement across the Queen?

15 Q. Right.

16 A. Yes, we believe we can.

17 Q. Okay, at what -- you know, can you explain,
18 elaborate?

19 A. We plan to cement --

20 Q. -- stage tool or -- ?

21 A. No, we don't plan to use a stage tool at this
22 time. We think we can cement from the bottom and get
23 cement to the surface.

24 Q. The column of cement would not damage the
25 formation?

1 A. I'm not aware of the Queen formation breaking
2 down and taking cement.

3 Q. Okay, that's the only concern they had about
4 that, you know, the cement technique.

5 A. Okay.

6 Q. You know, if you're not going to -- and then also
7 to isolate, you know, because your injection is just -- in
8 one instant you have -- it would probably be about 50 feet
9 from the northeast line and about 250 from the northeast
10 line of the other well, so it's close. That's

11 A. Okay, so these are going to be kind of twin-well
12 situations --

13 Q. Right.

14 A. Okay.

15 Q. Right. That's the concern, since the Queen is a
16 low pressure zone --

17 A. Okay.

18 Q. -- that's the concern about that.

19 A. Okay. We -- I mean, I have not seen any evidence
20 that the Queen has broken down, and we had talked to
21 Occidental Permian extensively about their infill drilling
22 out there, and they cement from the bottom and they don't
23 have any problem getting cement to the surface as far as I
24 know.

25 Q. Okay, that's all, you know, as long as that would

1 be on the record.

2 A. Okay.

3 MR. SOAS: Okay, that's all. Thank you.

4 THE WITNESS: Thank you, sir.

5 EXAMINER CATANACH: Anything further in this
6 case, Mr. Carr?

7 MR. CARR: Nothing further, Mr. Catanach.

8 EXAMINER CATANACH: There being nothing further
9 in this case, Case 12,666 will be taken under advisement.

10 (Thereupon, these proceedings were concluded at
11 11:15 a.m.)

12 * * *

13
14
15 I do hereby certify that the foregoing is
16 a complete record of the proceedings in
the examiner hearing of Case No. 12666,
17 heard by me on June 10 192001.
18 David K. Catanach, Examiner
Oil Conservation Division

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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, 2001.



STEVEN T. BRENNER
 CCR No. 7

My commission expires: October 14, 2002