

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 NOS. 13,900
)	13,901
APPLICATION OF EL PASO E&P COMPANY,)	13,902
LP, FOR AN EXCEPTION TO NMAC)	13,903
19.15.3.104.C.(3) TO ALLOW INFILL)	13,904
DRILLING AND SIMULTANEOUS DEDICATION,)	13,905
COLFAX COUNTY, NEW MEXICO)	13,906
)	(Consolidated)

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

ORIGINAL

BEFORE: WILLIAM V. JONES, Jr., Hearing Examiner

July 26th, 2007

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, WILLIAM V. JONES, Jr. Hearing Examiner, on Thursday, July 26th, 2007, 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

July 26th, 2007
Examiner Hearing
CASE NOS. 13,900, 13,901, 13,902, 13,903,
13,904, 13,905 and 13,906 (Consolidated)

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A P P E A R A N C E S

FOR THE DIVISION:

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* * *

1 WHEREUPON, the following proceedings were had at
2 10:19 a.m.:

3 EXAMINER JONES: At this time let's call Case
4 Number 13,900, consecutively through Case 13,906. So that
5 should be about seven cases.

6 Any -- Call for appearances?

7 This is Application of El Paso E&P Company, LP,
8 for an exception to Division Rule Number 104.C.(3) to allow
9 infill drilling and simultaneous dedication, Colfax County,
10 New Mexico. All seven of those cases are styled in exactly
11 the same way.

12 Call for appearances.

13 MR. BRUCE: Mr. Examiner, Jim Bruce of Santa Fe,
14 representing the Applicant. I have two witnesses.

15 EXAMINER JONES: Any other appearances?

16 Will the witnesses please stand to be sworn?

17 (Thereupon, the witnesses were sworn.)

18 LAURA SMITH,

19 the witness herein, after having been first duly sworn upon
20 her oath, was examined and testified as follows:

21 DIRECT EXAMINATION

22 BY MR. BRUCE:

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

24 A. Laura Smith.

25 Q. And where do you reside?

1 A. I live in Denver, Colorado.

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

3 A. I'm a senior staff landman for El Paso Oil and
4 Gas.

5 Q. Have you previously testified before the
6 Division?

7 A. Yes, I have.

8 Q. And were your credentials as an expert petroleum
9 landman accepted as a matter of record?

10 A. Yes, they were.

11 Q. And does your area of responsibility at El Paso
12 include this part of northeast New Mexico?

13 A. Yes, it does.

14 Q. And are you familiar with the land matters
15 involved in this case?

16 A. Yes.

17 MR. BRUCE: Mr. Examiner, I'd tender Ms. Smith as
18 an expert petroleum landman.

19 EXAMINER JONES: Ms. Laura Smith is qualified as
20 an expert petroleum land manager.

21 Q. (By Mr. Bruce) Ms. Smith, could you identify
22 Exhibit 1 for the Examiner?

23 A. Sure. Exhibit 1 is just a large overview of the
24 Vermejo Park Ranch. As you can see, that's primarily
25 located in New Mexico, but there is a small portion up in

1 Colorado. And included within the large overview are two
2 inserts. One is labeled the A and E pods, and the second
3 is the B pod, and those are the two areas where we are
4 requesting the simultaneous dedication.

5 Q. Okay. Now it says 80-acre infill pilot areas.
6 What is the well spacing in this area?

7 A. The well spacing right now is 160-acre spacing,
8 and we are requesting simultaneous dedication for seven
9 wells, seven well units.

10 Q. Okay, and you're not seeking to downspace; this
11 80-acre just simply denotes that you're seeking two wells
12 per 160?

13 A. That is correct.

14 Q. Okay. And is Exhibit 1A simply a reiteration of
15 what wells are involved on each particular well unit?

16 A. That is correct.

17 Q. Okay. Now let's move on to your Exhibits 2 and
18 2A, which are blowups of the areas that you previously
19 discussed. What do they show?

20 A. It's just a more detailed version, showing the
21 wells that have been drilled already in these immediate
22 areas. The green diamonds indicate where we would like to
23 drill the second well in each unit.

24 Q. What is the ownership of the Vermejo Park Ranch?

25 A. Vermejo Park Ranch is a -- this is a landman's

1 dream. The surface is owned by Vermejo Park, LLC. El Paso
2 is the only working interest owner within the whole ranch.
3 The majority -- and the vast majority under the ranch, El
4 Paso is actually the oil and gas rights owner.

5 On Exhibit 2 you will see a yellow -- the yellow
6 color. That indicates Highway 555. And in that particular
7 case the County of Colfax owns the minerals under the
8 highway, but we have an oil and gas lease from them. So
9 there again, we're the only working interest owner within
10 the park outline.

11 Q. And so since there is only one mineral owner in
12 essence, and that is El Paso, there was no need to notify
13 anybody of the offset --

14 A. That is correct.

15 Q. -- any offsets of the Application?

16 A. Correct.

17 Q. Okay. Were Exhibits 1, 1A, 2 and 2A prepared by
18 you or under your supervision?

19 A. Yes, they were.

20 Q. And in your opinion is the granting of this
21 Application in the interests of conservation and the
22 prevention of waste?

23 A. Yes.

24 MR. BRUCE: Mr. Examiner, I'd move the admission
25 of Exhibits 1 through 2A.

1 EXAMINER JONES: Exhibits 1 through 2A will be
2 admitted.

3 MR. BRUCE: And I have no further questions of
4 the witness.

5 EXAMINATION

6 BY EXAMINER JONES:

7 Q. The surface owner restrictions, are they --

8 A. We have a very detailed surface agreement with
9 Vermejo Park, LLC. It's called the mineral extraction
10 agreement. It was prepared many years ago, it's been
11 amended and restated, and it's very specific as to what is
12 allowed. Within the mineral extraction agreement, it does
13 allow for 14 wells to be drilled on essentially this 80-
14 acre development, and so these will be our test cases for
15 that.

16 Q. Okay. So El Paso actually owns the minerals that
17 -- Did they buy these from Pennzoil; is that right?

18 A. Yes, through a series of ownership, but yes, from
19 Pennzoil. Really it was from Devon to El Paso, but Devon
20 acquired Pennzoil.

21 Q. Okay. And does it extend out of the park? I
22 mean, as far as the --

23 A. If you'll look on Exhibit 1, you'll see kind of a
24 strange little blob there to the -- directly west of the
25 ranch. That is also the ranch ownership.

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

2 A. I work for El Paso Oil and Gas as a senior staff
3 reservoir engineer.

4 Q. Have you previously testified before the
5 Division?

6 A. No, I have not.

7 Q. Would you please summarize your educational and
8 employment background?

9 A. I graduated from the Colorado School of Mines
10 with a degree in geological engineering. I've worked 38
11 years in the oil and gas. Since January of 2003, I've been
12 working the Vermejo Park CBM project as a reservoir
13 engineer, prior to that the previous seven years with
14 Coastal/El Paso and tight gas projects in Utah as a
15 reservoir engineer.

16 Q. What other companies have you worked for over the
17 years?

18 A. I've worked for Tenneco Oil and Gas for 18 years,
19 I've worked for EOG as a geological manager, and I've spent
20 four years consulting in Denver.

21 Q. Your degree is in geological engineering, and you
22 are a reservoir geologist, but do you have any
23 certifications?

24 A. I'm certified as a certified petroleum geologist
25 with the AAPG. I'm a member of the SPE, and I believe

1 that's it.

2 Q. And does your area of responsibility at El Paso
3 include this portion of New Mexico?

4 A. Yes, it does.

5 Q. And are you familiar with the reservoir
6 engineering matters involved in this Application?

7 A. I am.

8 MR. BRUCE: Mr. Examiner, I'd tender Mr. Musgrove
9 as an expert reservoir engineer.

10 EXAMINER JONES: Mr. Musgrove is qualified as an
11 expert reservoir engineer.

12 Q. (By Mr. Bruce) Mr. Musgrove, could you refer to
13 your first exhibit, El Paso Exhibit 3, and identify that
14 for the Examiner?

15 A. Exhibit 3 is an isopach map of the total Raton
16 coals that are perforated in the wells indicated and are
17 contributing production in those wells.

18 Q. And what is Exhibit 4?

19 A. Exhibit 4 is a total isopach of the Vermejo
20 coals, which are also perforated and contributing to
21 production in the indicated wells.

22 Q. Are the Raton and the Vermejo coals the two main
23 producing zones in this area?

24 A. That is correct.

25 Q. Is the Raton above the Vermejo?

1 A. The Raton is the shallowest of the two coal
2 intervals that are producing at Vermejo Park Ranch.

3 Q. And what is the approximate depth in this area of
4 this coal?

5 A. The TD of the wells are approximately 2300 feet.

6 Q. Okay. Now there have been a number of wells
7 drilled out there obviously over the years, correct?

8 A. As of January 1, we had 685 producing wells at
9 Vermejo Park, and we are drilling about 161 coalbed methane
10 wells this year.

11 Q. And so you do have a good production history on
12 these wells, correct?

13 A. We do.

14 Q. And what is Exhibit 5?

15 A. Exhibit 5 is a reference of the decline curve
16 showing both the monthly production figures and the water,
17 as well as our daily production rates and the forecasted
18 decline curve, which gives us the estimated ultimate
19 recovery for each of the wells.

20 Q. Now if you could go through just the very first
21 one. I know there's a lot of wells contained in Exhibit 5,
22 but if you could just do one well, what do these wells
23 normally -- Take this well. What is the initial producing
24 rate and what is a typical recovery out here?

25 A. We see the initial rate being somewhere around 25

1 to 40 MCF a day, which slowly inclines to a peak rate of
2 around 140 MCF a day. In about 36 months there's a period
3 of flat production, and then they go on terminal decline.

4 Q. And what is the approximate life of these -- Are
5 all the wells out there still producing?

6 A. Yes, they are.

7 Q. And so they do have relatively long lives?

8 A. These wells have generally about 35-year lives.

9 Q. And what is -- Like on the VPR E Number 19, what
10 would be the estimated ultimate recovery from this well?

11 A. About 848 million cubic feet of gas.

12 Q. Okay. And again, these are just --

13 A. -- just for the reference of how we get to the
14 estimated ultimate, which you'll see on the summary chart
15 in just a moment.

16 Q. Okay, let's move on to that summary chart,
17 Exhibit 6, and could you describe its contents for the
18 Examiner?

19 A. Exhibit 6 is a summary of the 20 wells indicated
20 on the exhibit. The feet of coal is from the Vermejo
21 isopach map, which was Exhibit 4. The bulk gas content,
22 the gas in place in the Vermejo. Likewise from the Raton
23 isopach the thickness of coal, bulk content in the original
24 gas in place in the Raton. The total gas in place for 160
25 acres and the decline curves then gave us the estimated

1 ultimate reserves from each of the wells listed.

2 Q. And after going through that data, what do you
3 estimate as the recovery factors in these wells?

4 A. You can see the individual recovery factors range
5 from about 12 percent to nearly 32 percent, with an average
6 of 23.8 percent recovery, which is extremely low in a
7 coalbed methane project.

8 Q. What is a normal recovery or average recovery in
9 a coalbed methane prospect?

10 A. We would expect to see somewhere in the 50- to
11 65-percent range recovery.

12 Q. And based on these numbers do you believe that by
13 drilling an additional well in these well units El Paso
14 will recover additional economic gas reserves?

15 A. I do.

16 Q. Now Exhibits 3 through 6 were for what you call
17 the A and E pods. Are the remaining exhibits with respect
18 to the VPR B pod?

19 A. It is.

20 Q. And are they similar to what you've just
21 presented?

22 A. They're exactly the same, starting with the Raton
23 isopach map, which is the shallowest coal producing
24 intervals, the Vermejo isopach map, the decline curves of
25 the wells in that area, as well as a summary sheet.

1 Q. Now in looking at the summary sheet, the average
2 recoveries here are even lower than in the other pods?

3 A. That is correct.

4 Q. And so again, based on this data you would expect
5 one additional -- at least one additional well per well
6 unit not to adversely affect the existing wells in those
7 well units?

8 A. That is correct.

9 Q. Were Exhibits 3 through 10 prepared by you or
10 under your supervision?

11 A. They were.

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

15 A. Yes, sir.

16 MR. BRUCE: Mr. Examiner, I'd move the admission
17 of El Paso Exhibits 3 through 10.

18 EXAMINER JONES: Exhibits 3 through 10 will be
19 admitted into evidence.

20 EXAMINATION

21 BY EXAMINER JONES:

22 Q. Okay, Mr. Musgrove, so the Vermejo is the
23 deepest; is that --

24 A. That is correct.

25 Q. Okay.

1 A. Vermejo formation is approximately 300 to 350
2 feet in this area, in thickness.

3 Q. Oh, okay.

4 A. So approximately 2000 feet to 2300 feet.

5 Q. Okay. And the Raton coals are on deeper --

6 A. They're shallower, and they're over --

7 Q. They're shallower.

8 A. -- about a 1000-foot interval.

9 Q. Okay. So the Vermejo is basically better -- it's
10 not quite as thick, it looks like, but it's got better gas
11 content?

12 A. That is correct.

13 Q. Pretty decent gas content, actually. Were those
14 all -- How often do you get your gas content numbers?

15 A. We have 43 coreholes on the ranch where we've
16 taken core and done desorption tests on all the various
17 coals.

18 Q. Were they wireline-retrievable whole cores?

19 A. They were whole cores, wireline-retrievable.

20 Q. On the other wells besides those, do you do any
21 sidewall coring or --

22 A. No, sir.

23 Q. How about ash content here? How's your density
24 log look?

25 A. Our density log looks pretty good as far as the

1 rugosity of the hole. We use a cutoff of 2.0 grams per cc.
2 bulk density on a high resolution curve.

3 Q. Okay.

4 A. Ash content in this general area is about 13 to
5 18 percent in range.

6 Q. Okay. So I've seen Fruitland that's higher than
7 that in some cases.

8 A. Correct.

9 Q. And you're using a pretty high cutoff, so you've
10 got -- I guess you're -- that's been determined that that's
11 -- it is producible up to that cutoff?

12 A. Yes, sir.

13 Q. The recovery factors are real low. And that's
14 based on the 160-acre spacing, I guess, the -- just the --

15 A. It's just the estimated ultimate recovery by
16 decline curve, divided by the volumetric on a 160-acre
17 basis.

18 Q. Okay. Now do you play around with a coalbed
19 simulator on this stuff, or did you use that to kind of
20 make a prediction on your --

21 A. We have matched on -- we have actually run fairly
22 large simulations on total of six wells with varying IPs
23 and varying recovery factors just to get a feel for how
24 they should behave, the permeability, *in situ* perm. We've
25 also used some fairly easy simulators to agree with it. We

1 also have out of the 685 probably, I believe the number is
2 somewhere in the -- 160-acre -- 160 wells that are on their
3 terminal decline.

4 Q. Okay, so you've got pretty much zeroed in on what
5 it looks like you're going to get now, except for your
6 economic limit. I guess that would be kind of a hard thing
7 to do.

8 A. With 93 percent NRI we're fortunate. We're
9 probably down around --

10 Q. Yeah.

11 A. -- the 10 MCF, maybe slightly lower on that --

12 Q. Yeah.

13 A. -- true incremental operating cost basis.

14 Q. What about water dropoff as your wells produce?
15 Are they dewatering pretty good?

16 A. It takes about three years to dewater these
17 wells, primarily due to the fact that we have so many
18 reservoirs commingled in a given well.

19 Q. Okay. So by that time your peak production -- so
20 is that totally dewatered, or is this the most -- the bulk
21 of the water is --

22 A. Bulk of the water.

23 Q. Okay. So they're always producing a little bit
24 of water?

25 A. Yes, sir.

1 Q. And are you frac'ing these two zones separately
2 down the casing, same-day-type deal?

3 A. What we will normally do on a completion, we will
4 frac coals to about a 120-foot straddle, both Vermejo and
5 Raton, and immediately commingle.

6 Q. So you're saying -- you're implying that you've
7 got several -- a bunch of little stringers then?

8 A. We have anywhere from four to 16 different coal
9 seams open in a given well.

10 Q. Okay.

11 A. That's why you'll see in several of the decline
12 curves a hyperbolic shape and then flattening to an
13 exponential. It's because of the stacked reservoirs.

14 Q. Okay. Well, I guess you've never tried -- of
15 course, with that situation there was no cavitation option
16 here at all, I guess.

17 What about CO₂ production, how it's behaving now
18 and how it's predicted to behave?

19 A. We are to a point where we start seeing an
20 increase in our CO₂, a percentage of our gas. Currently
21 we're well below our pipeline specs.

22 Q. Below 3 percent?

23 A. Yes, sir. And so we do monitor our gas content,
24 BTU, CO₂ across the field in every well on a monthly basis,
25 but we have not seen the increase in CO₂ yet, which you

1 would expect towards the tail end of a CBM life.

2 Q. Has there -- basically for as far as costs go,
3 you're extremely lucky, I guess, except for having to put
4 pumping -- little pumping units on these wells.

5 Q. Yeah, our average well cost is about \$580,000 a
6 well through to the actual hookup and sales. And so it's a
7 moderate price.

8 Q. Yeah. And you own the gathering system and all
9 the -- to the point? Where's the delivery point?

10 A. Delivery point is at the Rita station up in
11 Colorado, CIG, and we do own all the gathering and
12 compression up to that point.

13 Q. Okay. So this recovery factor based on 160
14 acres, what do you expect to get it down to on the 80
15 acres?

16 A. I would expect to see most of your 80-acre wells
17 be in the 50- to 60-percent range --

18 Q. Okay.

19 A. -- which agrees with our -- we have done drainage
20 area or calculations. Averaging the A pod area it's about
21 78 acres --

22 Q. Okay.

23 A. -- and so we'd expect to see higher recoveries,
24 more in line with what you get off a desorber test.

25 Q. Okay. Your desorption isotherm -- you probably

1 have it -- you know, you don't have to show us one of
2 those. Is that pretty typical? I mean, is it --

3 A. Well, the --

4 Q. -- is it saturated coal to start with or --

5 A. Slightly undersaturated initially. But as you
6 can see, we're -- you know, it depends. Again, we are
7 commingling many reservoirs.

8 Q. Yeah.

9 A. Some of them are slightly undersaturated, but on
10 the bulk of the Vermejo we're at saturation.

11 Q. Okay.

12 A. And we get most of our gas as we draw the
13 reservoir pressure down between 100 p.s.i. and on to zero.
14 Currently our system is at about a 7 to 13 p.s.i.
15 compression inlet pressure.

16 Q. Okay. So you're basically -- each well -- a
17 typical well, depending on where it's at on the ranch, I
18 guess, is pretty low. You've got it down to 7, 7 pounds?

19 A. In the D pod, yes, sir.

20 Q. Oh, wow, that's good.

21 A. 12 percent for most of our inlet pressures in
22 the --

23 Q. 12 pounds?

24 A. 12 pounds, p.s.i., yeah.

25 Q. So you're doing everything you can to get the

1 pressure down on it, so it doesn't seem like that's going
2 to -- there's much more room for that to -- improvement on
3 that?

4 A. No, I don't think at the wellbore we can change
5 very much. What we're trying to do, of course, is affect
6 the average reservoir pressure across the drainage area.

7 Q. Yeah. I think one of the operators in the San
8 Juan has -- they worked to get the allowable pressure down
9 below zero gauge pressure, you know, so --

10 A. On a vacuum.

11 Q. Yeah, so -- and of course you've got Powder
12 River, you know, that they're doing that. So are you guys
13 anticipating any of that, trying to draw it down?

14 A. Well, the two main differences between the Powder
15 River coals and the San Juan Basin is, we are a sub-
16 pressured area --

17 Q. Okay.

18 A. -- and our initial reservoir condition is about a
19 .30-p.s.i.-per-foot gradient --

20 Q. Okay.

21 A. -- whereas they're at a -- pretty much a normal.
22 We can't hold a freshwater column. And that's another
23 reason for our pumping units.

24 Q. Speaking of that, has that water got some kind of
25 bicarbonate or something, that you can't put it out on the

1 surface? Is that --

2 A. By agreement, our mineral extraction agreement
3 calls for subsurface disposal of water.

4 Q. And is that working out okay? You've got plenty
5 of capacity on your saltwater wells?

6 A. So far. As we add additional wells, obviously
7 we'll need additional injection capacity so we're on the
8 ranch.

9 Q. Yeah. Are you guys causing those earthquakes up
10 there?

11 A. I don't believe so.

12 Q. What about monitor wells? Are you going to put
13 any monitor wells here to --

14 A. We have --

15 Q. -- look at the different zones?

16 A. We have a series of monitor wells that are
17 actually operated and monitored by the ranch.

18 Predominantly they were concerned about us drawing down any
19 freshwater aquifers, but the data also suggests that we're
20 not seeing crossflow between the Raton nor the Vermejo, and
21 I -- off the top of my head I don't remember how many
22 monitor wells we have on the ranch.

23 Q. Okay, but your individual little coal seams, as
24 far as having a monitor well to look at the pressure
25 drawdown between your 160 -- have you ever done that, have

1 a well between your 160 that --

2 A. No, most of our monitor wells are basically set
3 up multiple wells on a single pad, one with the Vermejo
4 coals open in one monitor well, Raton coals open in the
5 other.

6 Q. So you do have some?

7 A. We do have some.

8 Q. And does that help on your decision to go for
9 this infill drilling?

10 A. Two things have influenced it. One is the fact
11 that we have a very low recovery of a 160-acre, gas-in-
12 place-type of mechanism.

13 The other is that, you know, even though we are
14 probably on vacuum at the wellbore, these wells are seven
15 years old, we haven't affected the full drainage area yet.
16 And we want to make sure that we can draw that down through
17 time into the 25-50 p.s.i. over the entire drainage area.

18 Q. So your permeability in your coals are decent; is
19 that --

20 A. In areas of the ranch they're from excellent to
21 decent.

22 Q. Okay. But --

23 A. We also have some when they get real thin are
24 very tight.

25 A. Very tight, they're going to take longer. What

1 about -- how does this relate to the Pioneer stuff up
2 north? Is it the same coals and same recoveries?

3 A. They have two advantages that we do not. They
4 actually have a higher thermal gradient, their coals are
5 thicker than ours. And so the way they produce their
6 wells, they generally drill two wells on a pad, one to the
7 Vermejo and pump it separately and frac it separately, and
8 then one to the Raton.

9 Q. Is it 160-acre spacing up there?

10 A. No, sir, it's 40-acre spacing.

11 Q. 40-acre spacing.

12 A. And most of their sections have anywhere from
13 five to eight wells.

14 Q. Wow. Well, they have surface owner disputes up
15 there, I understand.

16 A. They have also been doing surface disposal of
17 water up there and have a few problems.

18 EXAMINER JONES: Okay, that's -- thank you very
19 much for coming in. I appreciate it very much.

20 That's the end of that case, we'll take Cases
21 13,900 consecutively through 13,906 under advisement.

22 (Thereupon, these proceedings were concluded at
23 10:48 a.m.)

24 I do hereby certify that the foregoing is
25 a complete record of the proceedings in
* the Examiner hearing of Case No. _____,
heard by me on _____.

Oil Conservation Division
STEVEN T. BRENNER, CCR
(505) 989-9317

Examiner

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 July 29th, 2007.



STEVEN T. BRENNER
CCR No. 7

My commission expires: October 16th, 2010