

NEW MEXICO OIL CONSERVATION DIVISION
STATE LAND OFFICE BUILDING
STATE OF NEW MEXICO
CASE NO. 9854

IN THE MATTER OF:

In the matter of Case 9854
being reopened pursuant to
the provisions of Division
Order No. R-9131-A/R-5353-K.

BEFORE:

DAVID R. CATANACH

Hearing Examiner

State Land Office Building

April 2, 1992

REPORTED BY:

DEBBIE VESTAL
Certified Shorthand Reporter
for the State of New Mexico

ORIGINAL

A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

ROBERT G. STOVALL, ESQ.

General Counsel
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Santa Fe, New Mexico 87504

FOR THE APPLICANT:

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BY: ERNEST L. CARROLL, ESQ.

FOR THE PROTESTANT:

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BY: WILLIAM F. CARR, ESQ.

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1. DAVID F. BONEAU

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1 EXAMINER CATANACH: At this time we'll
2 call Case 9854.

3 MR. STOVALL: In the matter of the Case
4 9854 being reopened pursuant to the provisions of
5 Division Order No. R-9131-A/R-5353-K, which order
6 reclassified the Diablo-Fusselman Pool in Chaves
7 County, New Mexico, as an associated pool with
8 special rules and regulations, et cetera, et
9 cetera.

10 This case is being reopened to allow
11 interested parties to appear and show cause why
12 the Diablo-Fusselman Associated Pool should not
13 be reclassified as either a gas pool or oil pool.

14 EXAMINER CATANACH: Are there
15 appearances in this case?

16 MR. CARROLL: Yes, Mr. Catanach. I'm
17 Ernest Carroll of the Artesia law firm of Losee,
18 Carson, Haas & Carroll, and I'm here on behalf of
19 Yates Petroleum Corporation, and I do have one
20 witness.

21 EXAMINER CATANACH: Other appearances?

22 MR. CARR: May it please the Examiner,
23 my name is William F. Carr with the Santa Fe law
24 firm, Campbell, Carr, Berge & Sheridan. I
25 represent Hanson Operating Company, Inc. Hanson

1 is the successor operator of certain wells in
2 this pool to Stevens Operating Corporation.

3 And we're appearing here today in
4 support of the testimony that is going to be
5 presented by Yates and asking -- joining them and
6 asking that the temporary rules be made
7 permanent.

8 MR. STOVALL: The Division is not
9 appearing or presenting witnesses.

10 EXAMINER CATANACH: Thank you. There
11 are no other appearances? Will you please swear
12 in the witness.

13 MR. CARROLL: May I proceed, Mr.
14 Examiner?

15 EXAMINER CATANACH: You may.

16 DAVID F. BONEAU

17 Having been duly sworn upon his oath, was
18 examined and testified as follows:

19 EXAMINATION

20 BY MR. CARROLL:

21 Q. Would you, please, state your full name
22 for the record and occupation.

23 A. My name is David Francis Boneau. I
24 work as reservoir engineering supervisor for
25 Yates Petroleum in Artesia, New Mexico.

1 Q. Mr. Boneau, you have had occasion to
2 testify on Yates Petroleum's behalf as a
3 reservoir engineer before this Division, have you
4 not?

5 A. Yes, sir.

6 Q. And you've had your credentials
7 accepted?

8 A. Yes, sir.

9 MR. CARROLL: Mr. Catanach, I would
10 tender Mr. Boneau as an expert in the field of
11 reservoir engineering.

12 EXAMINER CATANACH: He is so qualified.

13 Q. (BY MR. CARROLL) Mr. Boneau, would
14 you, please, briefly state the purpose of Yates'
15 appearance today in this particular cause.

16 A. Yes. I'd like to make clear what Yates
17 is seeking: Yates, in concurrence with Hanson
18 Operating, who is the other operator in this
19 pool, seeks to have the temporary pool rules set
20 out in order 9131-A made permanent.

21 Order 9131-A and the related order,
22 5353-K, classified the Diablo-Fusselman Pool as
23 an associated pool with 80-acre oil proration
24 units and 160-acre gas proration units. The oil
25 allowable is 222 barrels of oil per day with a

1 limiting gas-oil ratio of 6500. The effective
2 gas allowable is 1.44 million cubic feet per day
3 for an 80-acre oil well and twice that, 2.88
4 million cubic feet per day, for a 160-acre gas
5 well.

6 Order 9131-A also requires that wells
7 be located at least 330 feet from any
8 quarter-quarter section line. Yates is asking
9 that these requirements of order 9131-A be
10 retained on a permanent basis. We're talking
11 about the associated pool, the 80-acre oil wells,
12 the 160-acre gas wells, the GOR of 6500, the oil
13 allowable of 222 barrels of oil per day for 80
14 acres and the well location requirements.

15 I'd like to continue by summarizing
16 that the evidence that we're going to present,
17 Finding 7 in Order 9131-A says that, and this is
18 a quote, "The pool consists of an excessively
19 thick and distinct gas cap with no oil saturation
20 in a thin oil column, and finally, a very active
21 water-drive mechanism underneath," end of quote.

22 That is still an accurate description
23 of the pool. Yates discovered the
24 Diablo-Fusselman in 1988, but Don Stevens first
25 realized that there is an oil egg in 1989. Since

1 that time our goal has been to produce the oil
2 economically if possible. To that end, we've
3 sought to maintain the position of the gas-oil
4 contact so that the oil does not get lost into
5 the gas cap. This part we've done successfully.
6 The other goals we haven't met as great as we'd
7 like. But this part we have done successfully.

8 Our other goals were to reduce the
9 coning of water into the oil wells and to study
10 whether gas reinjection and/or horizontal wells
11 could increase the economic recovery of oil.
12 You'll see that water coning has been delayed a
13 little but not really stopped.

14 You'll also see that gas reinjection is
15 just plain a bad idea that loses lots of money
16 since the gas cap is already so big. And you
17 also see, I think, briefly that horizontal wells
18 are too expensive, too risky, and really too
19 late. Thus the options have been reviewed with
20 the conclusion that no major improvements are
21 possible beyond the present situation and the
22 present rules.

23 Q. Mr. Boneau, you have prepared certain
24 exhibits to help illustrate the items that you
25 have just informed the Examiner about; is that

1 correct?

2 A. Yes, I have three short exhibits.

3 Q. Would you starting with Exhibit No. 1
4 identify the exhibit for the record and then
5 explain what that exhibit shows or depicts?

6 A. Exhibit 1 is a map showing the wells in
7 the Diablo-Fusselman Pool. The pool is
8 surrounded by faults. Actually, there's a fault
9 in the north that separates the Pathfinder AFT
10 No. 6 Well and also the No. 13 from the main part
11 of the pool.

12 Yates operates the wells in Section
13 21. The Pathfinder No. 9 is a gas well, and it
14 is -- has a proration unit that is the southwest
15 quarter of Section 21. The No. 6 gas well is
16 shut-in since it is on the same proration unit as
17 the No. 9. The Yates' Pathfinder 10, 11, and 12
18 Wells have proration units which are lay-down 80s
19 up the east side of Section 21.

20 Hanson operates the three wells in
21 Section 28 in the proration unit for their gas
22 well number -- McBride State No. 1 is the
23 northwest quarter of Section 28. And then there
24 are two oil wells, No. 2 and No. 3, have
25 proration units which are lay-down 80s in the

1 northeast quarter of Section 28.

2 Q. Is there anything else that you need to
3 discuss with the Examiner concerning Exhibit 1?

4 A. That reviews his memory on where those
5 wells are located.

6 Q. All right. If you'd turn, then, to
7 Exhibit 2 and identify for the record what this
8 exhibit is and then explain the significance.

9 A. Exhibit No. 2 is a listing of all the
10 wells in the Diablo-Fusselman Pool along with
11 their detailed location, who operates them, their
12 spud date, completion date, initial potential,
13 and cumulative production, and their present
14 status. I do not intend to go through all ten of
15 the wells.

16 But the discovery well is No. 4 on the
17 list, the Pathfinder AFT State No. 3. It was
18 completed in December of 1988. The McBride State
19 No. 1 was the first well in Section 28. It was
20 completed in November of 1989, about a year
21 later, and it's the one that discovered that
22 there was a small oil egg to the pool.

23 The other two wells I wanted to point
24 out briefly were -- No. 5 on the list is the
25 Pathfinder AFT No. 6. And it is located north of

1 the fault that separates it from the main pool.
2 And you may note as well, off to the right, it
3 has produced very much water. So it's produced
4 some oil and a lot of water. It's down-dip
5 across the fault from the main pool.

6 And No. 10 on the list is another
7 attempt up in that same area, the AFT State No.
8 13 that Yates drilled, which really was drilled
9 into the fault and is now used as a saltwater
10 disposal well. So we're circulating a lot of
11 water disposed in 13, reproduced in 6, et cetera,
12 which is not really a part of the real action in
13 the main part of the pool.

14 Q. Anything else you'd like to call to the
15 Examiner's attention with respect to Exhibit 2?

16 A. No, sir.

17 Q. All right. Would you turn to Exhibit
18 No. 3, then, and identify what it is and explain
19 the significance?

20 A. Exhibit No. 3 is a listing of all the
21 monthly production from all the wells in the
22 Diablo-Fusselman Pool. The third page has a pool
23 total, which sums up the individual well
24 performance.

25 The cumulative production from the pool

1 has been about 354,000 barrels of oil, about 3
2 Bcf of gas, and 1-1/2 million barrels of oil,
3 1-1/2 million barrels of water. About half that
4 water has come from that No. 6 well that's
5 outside the main reservoir.

6 Hanson is now producing 235 barrels of
7 oil a day, about a million of gas, and just over
8 2500 barrels of water per day. Yates' production
9 is relatively similar, 250 barrels of oil a day,
10 4.3 million gas per day, and about 2500 barrels
11 of water per day.

12 Q. Do you have any other issues that you'd
13 like to bring up with respect to Exhibit No. 3,
14 Mr. Boneau?

15 A. Exhibit No. 3, I think, gives a pretty
16 good idea of the production history, and the
17 numbers I've stated cover that fairly well in
18 summary.

19 Q. All right. Then, Mr. Boneau, would you
20 briefly then review the history and summarize how
21 that is applicable to and supports Yates'
22 application that the special pool rules and the
23 designation of this field as an associated pool
24 be continued or made permanent?

25 A. I'm sure the Examiner realizes that

1 there's a history to this field, he's been
2 somewhat involved in. In December of 1988 the
3 Pathfinder No. 3 was drilled by Yates, the
4 discovery well. And it was completed as a gas
5 well with perforations in the upper part of the
6 Fusselman Reservoir.

7 The second significant item is in
8 November of 1989, Stevens, Don Stevens, drilled
9 the McBride State No. 1 and perforated somewhat
10 lower and found that there was oil and gas in
11 this pool. And that's when it was realized that
12 the pool is a great big gas cap with a thin oil
13 zone and an underlying water drive.

14 In February of 1990 the Commission held
15 the first hearing on this pool, and at that time
16 Yates and Stevens had very different ideas of
17 what we should do with the pool. At that time
18 Yates asked that the allowable be set at 142
19 barrels of oil per day with a 2,000 GOR, which
20 were the standard statewide rules, while Stevens
21 asked for 600 barrels of oil per day and 10,000
22 GOR.

23 The resulting order, 9131, without any
24 A on it, set a GOR of 6500 with 160-acres
25 spacing, and that's how the pool was operated for

1 a few months.

2 Then in May of 1990, there was a second
3 hearing. And at that time Yates and Stevens
4 asked for the same thing basically, and that was
5 80-acre spacing with 222 barrels of oil per day
6 and a 6500 GOR. And the request also included a
7 mechanism whereby administrative approval of
8 horizontal wells could be granted.

9 The resulting order there, 9131-A,
10 which is the current order, denied the
11 administrative approval for the horizontal wells
12 and it set up the associated pool on a temporary
13 basis. And I've listed those rules, and those
14 are the rules we're seeking to be made
15 permanent.

16 The case was scheduled to be reopened
17 in August of 1991. And that was delayed by the
18 death of Don Stevens and postponed for six months
19 until now. So that's a brief summary of how we
20 got to where we are.

21 Where I think we are is I'd like to
22 relate to those goals that I set out in my
23 opening words. Our first goal was to maintain
24 the gas-oil contact so that oil did not get lost
25 up into the gas cap. And we have done

1 calculations on where the gas-oil contact was and
2 where it is now, and it has moved less than one
3 foot.

4 So the gas-oil -- we, by producing gas
5 and oil together, we have maintained that gas-oil
6 contact at, within engineering accuracies, the
7 same place. And I'd submit that continuation of
8 the present rules will continue to maintain that
9 gas-oil contact. So what we're doing has been
10 effective there.

11 We've had only partial success in
12 controlling the coning of water. Our two ideas
13 for controlling the coning of water were to
14 produce the wells slowly at relatively low
15 rates. And the second idea was to drill on the
16 edge of the fields where there is better
17 permeability and porosity in the oil egg.

18 The first idea was a little bit shot
19 down by Order 9131 which encouraged high
20 production rates. But there have been -- the
21 wells drilled on the east side of the field have
22 all been drilled with the idea of hitting that
23 big porosity zone in the oil egg rather than in
24 the gas leg.

25 The Hanson McBride No. 2 has been the

1 most successful oil well. It hit the, what the
2 orders call, the big porosity right in the middle
3 of the oil zone. And it's produced 111,000
4 barrels of oil. And the current rate -- 111,000
5 barrels of oil is very good. The current rate is
6 120 barrels of oil per day and 361 barrels of
7 water per day. So while quite a lot of oil has
8 been produced and coning has been delayed,
9 obviously now water is coming into that well.

10 The other McBride well, the No. 3, and
11 the Yates' Pathfinders 10, 11, and 12, up the
12 east side of the field, have been what I call
13 less successful at hitting the best part of the
14 field in the oil. They've come close, and
15 they've produced some oil and some water as shown
16 in that Exhibit 3.

17 The poorest Yates' well has really done
18 the best at stopping the coning of water. The
19 Pathfinder No. 12, from the numbers that we
20 looked at, has produced at a pretty current
21 rate -- a pretty constant rate of 50 to 70
22 barrels of oil per day with relatively little
23 water.

24 The "cums" for the well are 24,000
25 barrels of oil and 6,000 barrels of water. And

1 the current rate, there is 50 barrels of oil and
2 30 barrels of water per day. So that well has
3 been produced at relatively low rates basically
4 because that's all it would produce. The water
5 coning has been delayed, but the oil "cums" are
6 unimpressive. So it will be a slow process, but
7 maybe that -- maybe that idea made some sense,
8 but it's pretty much been passed by by events.

9 In terms of gas reinjection, Yates
10 spent some money with scientific software in
11 Denver to do a two-dimensional computer
12 simulation to look at gas reinjection. And we
13 documented very extensively that what happens was
14 that you doubled your cost by producing this gas,
15 paying money to reinject it, et cetera, and the
16 oil increased only by about 10 to 15 percent over
17 what we're getting as it is.

18 What happens clearly is that the gas
19 cap that's there is so big that the reinjected
20 gas adds almost nothing to the gas drive.
21 Anyway, we feel that we've looked at that issue
22 real close, and it's a clear loser.

23 In May of 1990, at the second of the
24 hearings, Don Stevens had planned a horizontal
25 well and he wanted to get approval of it, and he

1 actually got approval. And the horizontal well
2 was designed to be in the northwest of Section
3 28. His idea was to drill west out of the
4 McBride No. 1 wellbore.

5 The resulting order did allow that well
6 to be drilled, but he did not drill it. And I
7 think he came to the same kind of conclusion as
8 Yates. Yates did calculations at that time that
9 showed if we would drill a horizontal well, we
10 could get twice the reserves but the well would
11 cost at least twice as much. We really hoped it
12 would show that the costs would be twice as much
13 and we'd get five times the reserves. That's
14 what we were really looking for, but the oil egg
15 is just narrow enough that it didn't look like it
16 would work.

17 So we -- at the time we sat back and
18 waited for Mr. Stevens to drill his well. And I
19 think he came to the -- he never did do it
20 because it was not exciting to him either. Oil
21 prices are still poor and the field is fairly
22 well along in its life, and nobody is going to
23 drill a horizontal well now.

24 So we see that as something we really
25 would have liked to have tried or like to have

1 been able to justify, but the conditions in the
2 reservoir and the economic conditions just never
3 allowed it. It's really -- it's not going to
4 happen now, so let's just leave the rules like
5 they are.

6 We feel we have spent money on studies
7 and found that there are no clear winners. The
8 numbers for the pool are -- we think that there
9 are about 2 million barrels of oil in place and 8
10 Bcf or maybe a little more of gas. To date we
11 recovered 350,000 barrels of oil and about 3 Bcf
12 of gas.

13 My estimates are the total recovery
14 will be 500,000 barrels of oil and with the
15 chance for maybe 600,000 barrels of oil and 6.5,
16 or somewhat more, Bcf of gas. So we're looking
17 for 25 percent or maybe 30 percent of the oil in
18 place and over 80, 85, 90 percent of the gas to
19 be recovered.

20 Yates cannot justify drilling more
21 wells in preparation for this hearing. I went
22 over possible locations with our geologist and
23 our management, and we're not going to drill
24 any. I'm sure the Hansons -- I don't want to
25 speak for Hanson. I feel sure they cannot

1 justify drilling any more wells.

2 The best approach now is to continue
3 producing with the current rules, and that's what
4 I'm here to ask you to allow is that we make the
5 temporary rules in 9131-A to be the permanent
6 rules.

7 Q. Mr. Boneau, therefore in summation, do
8 you feel that Yates' request to make permanent
9 these special rules is in the interest of
10 conservation and would protect correlative rights
11 and the prevention of waste?

12 A. Yes, that's my feeling.

13 MR. CARROLL: Mr. Examiner, I would
14 move admission of Yates' Exhibit 1, 2, and 3.
15 And I would have no further questions of Mr.
16 Boneau at this time.

17 EXAMINER CATANACH: Exhibits 1, 2, and
18 3 will be admitted as evidence.

19 EXAMINATION

20 BY EXAMINER CATANACH:

21 Q. Mr. Boneau, the original 9131, what oil
22 allowable did that order contain?

23 A. I try not to remember all this stuff.
24 It's been a very painful experience. But my
25 memory is that the oil allowable was 444 barrels

1 per day, twice the 222 that's standard for an
2 80-acre spacing. That's my memory. I have not
3 looked that up in the last day or two, so it's --
4 not real sure. But it was a big number like
5 that. It was in the 4-, 5-, 600-barrel range.

6 Q. Is it your opinion that some of the
7 events that have taken place in terms of oil
8 allowables and gas allowables have effectively
9 reduced the ultimate recovery from this pool?

10 A. Since you ask, my opinion clearly is
11 that 9131 was a mistake and that events have
12 shown that what Yates asked for at that hearing
13 would have been wiser than what's granted.
14 That's my opinion. I sure don't want to reargue
15 all that, but that is my opinion, yes.

16 Q. The oil wells in the pool are currently
17 not even making allowable, are they? Or are
18 there any wells capable of making the oil
19 allowable?

20 A. No, there are no wells that can make
21 222 barrels of oil per day.

22 Q. Do the gas wells make their allowable
23 pretty easy?

24 A. The Yates' gas well makes its allowable
25 pretty easy. The McBride gas well, operated by

1 Hanson, has a lot of water coning into it along
2 with oil, and it's not making anywhere near its
3 allowable. But the Pathfinder No. 9, which is
4 the Yates' gas well that is producing in that
5 quarter-quarter section, is making its allowable
6 with essentially no water production.

7 Q. Have the gas allowables had a
8 detrimental effect on ultimate recovery?

9 A. A minor one. I mean, I don't want to
10 say no, but I don't want to say that they're a
11 big part of the problem. But most of the problem
12 is just that the oil allowable is set too high
13 and water was coned in too early.

14 Q. Mr. Boneau, have you made any kind of
15 study to look at whether or not the spacing is
16 justified in -- the 80-acre oil spacing is
17 justified and the 160-acre gas spacing is
18 justified?

19 A. Surely we have looked at that. I don't
20 want to get hung up on whether I've done a study
21 on that. But the current spacing is fine because
22 it's -- you see from the wells on the map that
23 the reservoir doesn't exist on the edges, and so
24 the 80-acre spacing units on the oil wells are
25 really draining 50, 60 acres and they're doing

1 that fine.

2 The gas wells are really draining 100
3 acres and they're doing that fine. There just
4 isn't reservoir on the edges, and so the
5 proration units cover some nonproductive acreage,
6 they just plain do.

7 Q. So it is safe to say that the oil wells
8 are effectively draining greater than 40 acres;
9 is that safe to say?

10 A. Yes, they're draining oil from that 40
11 acres, from the 40 acres that they're on, and
12 that's the majority of the oil in the pool.
13 They're just draining a lot of water too.

14 Q. (BY MR. STOVALL) The question is, Mr.
15 Boneau, are they draining more than the 40 acres
16 they're on? Are they reaching out a little bit
17 into -- other than the fact there's no oil out on
18 the edges?

19 A. Yes, the oil wells are draining the oil
20 in their spacing units as effectively as would be
21 drained if you had two wells on that spacing
22 unit, yes.

23 Q. (BY EXAMINER CATANACH) It's your
24 opinion you don't think any more wells are going
25 to be drilled in here?

1 A. No. That's clearly my opinion. I
2 thought that Yates would drill a well west of the
3 Pathfinder No. 9. And when we started thinking
4 about, talking about this hearing about a month
5 ago, my original thought was that we were going
6 to ask for some special rules so that we could
7 get an oil well to the west of No. 9.

8 And as I alluded to, I went over that
9 with our geologist in the area and the other
10 engineers and to some extent with management, and
11 they were unanimous in that that was a bad idea.
12 Boneau's idea was lousy and nixed by the rest of
13 the company. So we can keep the rules the way
14 they are.

15 Q. (BY MR. STOVALL) What you're saying,
16 you didn't like them then, but you don't want to
17 change them now; is that what you mean?

18 A. No. I clearly --

19 Q. (BY MR. STOVALL) Those are my words
20 not yours, Mr. Boneau.

21 A. They don't want to change them now.
22 There's nothing to be gained by changing them
23 now. The reservoir is producing like it is.
24 There's nothing better to do with it. It's able
25 to produce the way it is under the present

1 rules. I just don't see any reason to change the
2 present rules.

3 MR. CARROLL: If it ain't broke, don't
4 fix it.

5 EXAMINER CATANACH: That's what Dan
6 Nutter used to say.

7 MR. STOVALL: That's good enough
8 authority for me. Let's call this one to a close
9 and move right along.

10 EXAMINER CATANACH: I believe that's
11 all I have.

12 MR. CARROLL: That's all we have, Mr.
13 Examiner.

14 MR. CARR: Mr. Catanach, very briefly,
15 Hanson Operating Company, as I indicated earlier,
16 supports Yates in the request to make these rules
17 permanent. We believe that the evidence from the
18 prior hearings, particularly in August of 1990,
19 coupled with the presentation made by Mr. Boneau
20 here today, give you a sound basis for granting
21 an order making the rules permanent, and we ask
22 you to do that.

23 EXAMINER CATANACH: Thank you, Mr.
24 Carr.

25 There being nothing further, Case 9854

1 will be taken under advisement.

2 [And the proceedings were concluded.]

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13 I do hereby certify that the foregoing is
14 a complete record of the proceedings in
the Examiner hearing of Case No. 9854,
15 heard by me on April 2 1992.
16 David R. Catant, Examiner
17 Oil Conservation Division
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3 CERTIFICATE OF REPORTER4 STATE OF NEW MEXICO)
5) ss.
6 COUNTY OF SANTA FE)7 I, Debbie Vestal, Certified Shorthand
8 Reporter and Notary Public, HEREBY CERTIFY that
9 the foregoing transcript of proceedings before
10 the Oil Conservation Division was reported by me;
11 that I caused my notes to be transcribed under my
12 personal supervision; and that the foregoing is a
13 true and accurate record of the proceedings.14 I FURTHER CERTIFY that I am not a
15 relative or employee of any of the parties or
16 attorneys involved in this matter and that I have
17 no personal interest in the final disposition of
18 this matter.19 WITNESS MY HAND AND SEAL April 10,
20 1992.21
22 
23 _____
24 DEBBIE VESTAL, RPR
25 NEW MEXICO CSR NO. 3