

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. 13,706

APPLICATION OF YATES PETROLEUM)
CORPORATION FOR APPROVAL OF A PILOT)
PROJECT, INCLUDING AN EXCEPTION FROM)
RULE 4 OF THE SPECIAL RULES AND)
REGULATIONS FOR THE PECOS SLOPE-)
PENNSYLVANIAN POOL FOR PURPOSES OF)
ESTABLISHING A PROGRAM TO DETERMINE)
PROPER WELL DENSITY AND WELL-LOCATION)
REQUIREMENTS IN PENNSYLVANIAN WELLS,)
CHAVES COUNTY, NEW MEXICO)

2006 MAY 30 PM 2:31

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

May 11th, 2006

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, May 11th, 2006, 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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May 11th, 2006
 Examiner Hearing
 CASE NO. 13,706

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<u>DAVID F. BONEAU</u> (Engineer)	
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A P P E A R A N C E S

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By: OCEAN MUNDS-DRY

* * *

1 WHEREUPON, the following proceedings were had at
2 8:20 a.m.:

3
4 EXAMINER CATANACH: We're going to go a little
5 bit out of order on these cases today.

6 We're going to hear at this time two of the Yates
7 cases, 13,706 and 13,707.

8 So at this time I will call Case 13,706, which is
9 the Application of Yates Petroleum Corporation for approval
10 of a pilot project, including an exception from Rule 4 of
11 the special rules and regulations for the Pecos Slope-
12 Pennsylvanian Pool for purposes of establishing a program
13 to determine proper well density and well-location
14 requirements in Pennsylvanian wells, Chaves County, New
15 Mexico.

16 And at this time I will call for appearances.

17 MS. MUNDS-DRY: Good morning, Mr. Catanach. My
18 name is Ocean Munds-Dry with the law firm of Holland and
19 Hart, here representing Yates Petroleum Corporation this
20 morning, and I have one witness.

21 EXAMINER CATANACH: Are there any additional
22 appearances in this case?

23 There are none.

24 Can we swear in the witness, please?

25 (Thereupon, the witness was sworn.)

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DAVID F. BONEAU,

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

DIRECT EXAMINATION

BY MS. MUNDS-DRY:

Q. Good morning, Dr. Boneau. Would you state your full name for the record?

A. David Francis Boneau.

Q. Where do you reside?

A. Artesia, New Mexico.

Q. And by whom are you employed?

A. Yates Petroleum Corporation.

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

A. Yes, ma'am.

Q. And have your credentials an expert in petroleum engineering been accepted and made matter of record before this Division?

A. Yes, they have.

Q. Are you familiar with the Application filed in this case?

A. Yes, I am.

Q. Are you also familiar with the status in the portion of the Pecos Slope-Pennsylvanian Pool that is the subject of this hearing?

1 A. Yes, I'm familiar with that.

2 Q. And have you made an engineering study of the
3 area that is the subject of this Application?

4 A. Yes, I've made that study.

5 Q. Are you prepared to share the results of your
6 work with the Examiner?

7 A. You bet.

8 MS. MUNDS-DRY: Mr. Catanach, are his
9 qualifications acceptable?

10 EXAMINER CATANACH: They are.

11 Q. (by Ms. Munds-Dry) Dr. Boneau, have you prepared
12 exhibits for presentation here today?

13 A. Yes, approximately 10.

14 Q. Would you please turn first to Yates Exhibit
15 Number 1 and explain to the Examiner what Yates is
16 proposing in this case?

17 A. Yes, Exhibit 1 is a kind of introductory and
18 summary, together, page. Yates seeks authority to drill --
19 we really seek -- I'm not sure what your words say, but we
20 really seek authority to drill two additional wells in the
21 Pecos Slope-Penn Pool as an experiment, because it's time
22 to waterflood that pool, in my opinion.

23 Briefly, the history of this is, we discovered a
24 Cisco -- a Penn oil pool with a well called George Number
25 10 in 2001. In November, 2001, we came for temporary rules

1 for that pool, and they drain more than 40 acres, and --
2 anyway. Those rules were made permanent by a hearing that
3 I was at in March of 2003.

4 The pool rules allow 320-acre spacing units for
5 oil wells, with a second well allowed in the other quarter
6 quarter section, so one well in each quarter quarter
7 section, 660-foot setback in the -- this allowable for the
8 spacing unit is 694 barrels of oil per day. And actually,
9 the first well produced over 400 barrels a day at the
10 start, but they're not making anything like that now.

11 Q. And Dr. Boneau, we're not seeking to change the
12 allowable today; is that correct?

13 A. No, the allowable is plenty high.

14 Anyway, there are now four wells in this pool.
15 We've drilled about ten times trying to outline the pool,
16 but there are four wells. Two substantial oil wells,
17 George Number 9 and 10, with cumulative production of
18 130,000 and 220,000 barrels each, so really good oil wells
19 with substantial drainage.

20 Then updip there's a well, George Number 2Y,
21 that's sort of an oil/gas -- on the edge between the oil
22 zone and the gas cap.

23 And then there's a well called Powers 6 that's
24 updip in a tight location, and so it's a gas well, not that
25 great a gas well.

1 My calculations, which you can see in whatever
2 detail you want, say that we have drained about 420 acres
3 so far, and the better wells have clearly drained over 80
4 acres. And so the present spacing is not the problem.

5 Item number 6 gets to the -- Our pressure and
6 performance data suggest that -- to me, at least, that
7 there are two separate reservoirs, and I think it's time to
8 waterflood these. And the goal is to be sure that we have
9 at least two wells in each of these reservoirs, so that
10 there's one to put some water in and one to take some oil
11 out of.

12 Q. And you --

13 A. That's really the purpose of our experiment.

14 Q. And you'll have some additional pressure data, I
15 think we'll show in a little while, that --

16 A. We'll show you our data. You know, I'll tell you
17 my conclusions, and you can come to whatever conclusions
18 you think are appropriate. That's kind of an outline of
19 where we're going.

20 Q. And you mentioned that Yates seeks to drill two
21 new wells initially under this Application. What are the
22 names of those two wells, and where do you propose to
23 locate them?

24 A. Okay, the two wells that we seek authority to
25 drill are actually in items 7 and 8 on the first page. The

1 first well is called the George QJ Federal Number 13. It's
2 located 990 north and 660 west of Section 35, 6 South, 25
3 East in Chaves County.

4 And then depending on how that turns out, the
5 second well would be the George QJ Federal Number 12, 990
6 from the south and 660 from the west in Section 26.

7 Anyway, two specific locations that we're asking
8 to drill.

9 MS. MUNDS-DRY: And Mr. Catanach, we'd ask that
10 you take administrative notice of Case Number 12,751, which
11 was the original case establishing the pool in this matter.

12 EXAMINER CATANACH: Administrative notice will be
13 taken of that case.

14 Q. (by Ms. Munds-Dry) Dr. Boneau, would you please
15 then turn to Exhibit Number 2 and explain to Mr. Catanach
16 what it is and what it shows?

17 A. Well, Exhibit Number 2 is a map, an ownership-
18 type map and a well-location map. It shows 16 sections.
19 The yellow indicates leases where Yates is the operator.
20 The small amount of white is operated by Great Western for
21 the most part. There are lots of Abo wells in this area,
22 and they are not shown on this map. What are shown on this
23 map are the wells that penetrated deeper than 4800 feet and
24 so went into the Penn.

25 The four wells that we're talking about are in

1 black, in the middle, more or less in the middle. And the
2 two wells that we're seeking authority to drill have little
3 red circles that say -- in red writing that says George 12
4 and George 13 next to it in the middle of the page.

5 Q. All the yellow area, you said, is operated by
6 Yates; is that correct?

7 A. Yes.

8 Q. And if you'll please turn to Exhibit Number 3,
9 Dr. Boneau, and explain what you're showing here to the
10 Hearing Examiner?

11 A. Exhibit Number 3 is the same map, with the
12 addition that there are four standup 320-acre spacing units
13 outlined that are associated with the four wells in black,
14 the four wells that we're talking about. So those four
15 320-acre spacing units are really the Pecos Slope-Penn
16 Pool.

17 Q. So this gives them an idea of what the pool
18 boundaries are for the Pecos Slope-Penn Pool?

19 A. Yes, ma'am.

20 Q. Okay. If you'll please turn to Exhibit Number 4,
21 which is titled Deep Wells in Sixteen-Section Area, and
22 explain that Mr. Catanach?

23 A. Okay, Exhibit 4 is a table listing some
24 information about 25 wells. They are the 25 wells in this
25 16-section area that have been deeper than 4800 feet, that

1 basically have been drilled to test the Penn rather than
2 the Abo. Lots of them have ended up as Abo wells, but --
3 and it is our intention not to go over this in detail.

4 Q. And if we'll turn to Yates Exhibit Number 5, and
5 I see that you have four wells bolded here at the bottom,
6 if you'll please explain that to the Hearing Examiner.

7 A. Exhibit 5 is a subset of the 25 wells on the
8 previous page, and actually the items have the same numbers
9 at the left as I had on the previous page. These are wells
10 that have been completed in the Penn. Somebody found
11 something worth trying in the Penn.

12 The top four are of secondary interest here, and
13 they just say that there's been a few marginal wells found.

14 The four at the bottom are the four that we're
15 directly interested in, in this Pecos Slope-Penn Pool, the
16 George 10, 9, 2Y and Powers Deep Number 6.

17 Q. So do you think that these four wells really
18 represent where the formation is located?

19 A. Represent the reservoir -- we would call it a --
20 our geologist would call it a Cisco reservoir, but a Cisco
21 dolomite reservoir that -- more or less continuous in the
22 same general area, yes. So those four wells at the bottom
23 are the four wells that we've been talking about and the
24 ones that we want to offset with these additional wells,
25 for the reasons which I think are forthcoming.

1 Q. Thank you, Dr. Boneau. If you'll please turn to
2 Exhibit Number 6 and identify this for the Examiner.

3 A. Okay, Exhibit Number 6 is a two-page table of
4 monthly production from day one of these four wells in this
5 Cisco Pool, and I think it's worth going to the very bottom
6 and just looking through the numbers one time.

7 What I'd like to convey are the cumulatives and
8 the present production of the various wells, and that's a
9 little bit important. The wells are listed in more or less
10 alphabetical order.

11 So anyway, the George 2Y is the first well. It's
12 made 33,000 barrels of oil, .3 BCF and quite a bit of
13 water. It is now making about 15 barrels of oil a day and
14 150 MCF, so it's still a decent producer.

15 The George Number 9 has produced 132,000 barrels
16 of oil, and it's only making two or three barrels of oil a
17 day anymore, and about 30 MCF. So it has dropped the
18 furthest of the wells, it's the closest to the end of its
19 life.

20 The George 10 is the best well, the original
21 well, the one that was -- started out over 400 barrels a
22 day. It's made 224,000 barrels, and it's still making over
23 20 barrels a day, it's still a decent well.

24 And then the fourth well, the Powers 6, has made
25 5000 barrels of oil and .1 BCF, and it's making about 40

1 MCF a day. It's been a mediocre well all along.

2 So really my point is that one of the wells is
3 closer to death than the others, and that is one of the
4 things that leads me to believe that it may be in a
5 separate reservoir than the others.

6 Q. And I think we'll turn now to some other data
7 that helps show that. If you'll please turn to Exhibit
8 Number 7, this cross-section, and go over this for Mr.
9 Catanach.

10 A. Okay, I'm not a geologist, and I've done zillions
11 of these, but this is an exact duplicate of the cross-
12 section that Tim Miller presented in 2003, and so I hope
13 it's acceptable. It ought to be acceptable.

14 And it's simply -- It's an east-west cross-
15 section through the field with non-productive well on the
16 east and one non-productive well on the west, and it's just
17 -- its purpose is just to show that these four wells have
18 porosity in the same zone, and it's a way to get a little
19 -- a log of the individual wells into the record, if that
20 is any interest. We have a cross-section, if questions
21 come up involving the logs or the porosity or anything
22 else.

23 Q. Thank you, Dr. Boneau, if you'd please turn to
24 Exhibit Number 8.

25 A. Exhibit Number 8 is the engineer's version of

1 that, more or less done with crayons, and it is simply a
2 stick diagram of the structure of these four wells. And so
3 the perforated intervals are shown. And what it shows is
4 that the wells on the east, the George 9 and 10, the oil
5 wells, are downdip, and the reservoir goes updip to the
6 west.

7 Q. And this may help explain why the Number 6 and
8 Number 2Y wells produce more gas.

9 A. Why the Number 6 produces gas and the 2Y is sort
10 of on the boundary where it produces oil and gas.

11 Q. What does Exhibit 9 show you?

12 A. Exhibit 9 is a plot of bottomhole pressure, what
13 bottomhole pressure data we have, plus some extrapolations
14 I've made. So it's a plot of bottomhole pressure versus
15 time for each of the four wells.

16 The various colors correspond to the various
17 well. The blue is the George 10 -- and the initial
18 pressure in the reservoir is about 2300 pounds -- and the
19 George 10 drops down to 1000 pounds in 2003, and I drew it
20 as something like 500 pounds. It's still more or less the
21 present time, based on no data but based simply on that
22 it's still producing fairly well. And that's somewhat
23 arbitrary but...

24 The idea is to contrast it with the George 9
25 well, which is the pink, and its pressure dropped sharper

1 so that in 2003 it was already down to 500 pounds, and I
2 drew it now as down about 100 pounds, but very -- it's got
3 to have very low pressure now.

4 The other two wells are shown in yellow and in
5 what I would call green, and my take on it is that they're
6 kind of following the trend set by the George 10, rather
7 than the trend set by the George 9. And so my suspicion,
8 opinion, however you want to say it, is that the George 9
9 is probably in a separate pod, and the other three wells
10 are in the bigger pod. So there's -- it looks to me like
11 there are two pods of porosity.

12 Q. And what is Exhibit Number 10? It looks like
13 there's about five pages or so?

14 A. Yeah, Exhibit Number 10 are some details of
15 calculations of drainage areas of these four wells, and
16 those calculations involve analysis of the logs for each
17 well. And actually those details were in the 2003 hearing
18 and not reproduced here, but the outline of the calculation
19 is reproduced here.

20 The point is simply to give the Examiner some
21 idea of what size reservoir we're draining here, and my
22 answers are that the George 10, the best well, is draining
23 192 acres, is what I get. These numbers were listed on the
24 original -- on the first page, anyway.

25 The other well well [sic], 83 acres. The George

1 2Y is producing both oil and gas, and I would tend to add
2 those numbers together to get about 90 acres, and the
3 Powers 6 about 50 acres.

4 So all together those wells are draining about
5 400 acres, and really their drainage is in line with the
6 present spacing. That's not the point, is to change the
7 spacing or anything like that. The point is just that it's
8 time to do something to improve recovery here, which to me
9 means waterflood. And I'm just trying to get enough wells
10 in place to waterflood what I think are these two separate
11 little pods. That's the whole purpose of this hearing, as
12 far as I can tell.

13 Q. And I know you don't like this word, but we're
14 proposing here an infill well. The only really exception,
15 if I understand correctly, is that we need to have the well
16 in the same quarter section, which the current rules don't
17 provide; is that correct?

18 A. Yes, that's correct. The reservoir just turns
19 out to be smaller than we hoped with the original rules,
20 is, I think, the honest way to say it.

21 Q. Let's turn to Exhibit Number 11, and explain that
22 to Mr. Catanach.

23 A. Yes, Exhibit 11 is the same map we've seen
24 previously. I've drawn a shape on it that contains about
25 500 acres, which is my estimate of like the ultimate

1 drainage area of these wells. They're 410 acres now,
2 they'll drain a little more as they die.

3 And I drew -- I originally drew circles and
4 squares around each well about how big its drainage was --
5 anyway -- and I rounded those off into this shape. This
6 shape is, you know, an approximation of where I think the
7 reservoir is. And of course the oil is downdip, and
8 there's gas updip.

9 So I think that the well in 36, George Number 9,
10 looks like it's in a separate pod, and so I visualize a
11 southern pod that would include, you know, more or less the
12 reservoir in Sections 35 and 34, and then the wells in
13 Section 26 and 27 look to me like they're in a bigger pod.
14 Anyway, that's the picture I have of what's going on.

15 What it leads me to is that we need to drill that
16 Number 13 well in the northwest northwest of 35, in order
17 to get a second well in that smaller pod so that we can
18 waterflood it.

19 The idea would be, we drill that Number 13 well,
20 we run pressure measurements to try to determine if it's in
21 communication with Number 9 or Number 10 or Number 2Y, et
22 cetera. If it's in communication with Number 9 and not any
23 of the others, then my two-pod thing is holding and we
24 would just -- we would drill the well in 26 and have two
25 little waterfloods.

1 If that Number 13 well turns out to be in
2 communication with Number 10, we probably would not drill
3 the second well.

4 Anyway -- I've actually gone through those
5 scenarios, and it makes sense, I think, to drill the well
6 in 35, do some testing, and then maybe drill the well in
7 26, maybe not drill it, and start some water injection,
8 most probably in the two good oil wells, Number 9 and
9 Number 10, and have two little floods and -- We've got
10 primaries over 400,000, I think we can get 300,000 barrels
11 of oil. That's the whole purpose of this exercise, is set
12 up some way that we can get a little waterflood that I
13 think will make 300,000 barrels of oil or so.

14 Q. If the Division approves this project, do you
15 agree that it's not necessarily, then, based on your
16 testimony, accelerating production, preventing the loss of
17 those reserves?

18 A. Well, it's the only way to get -- I think that
19 it's the right way to go about waterflooding it. I mean,
20 you know, just to be clear, I want to drill this Number 13
21 well. I think that the Number 13 well will have almost
22 zero primary production. We're drilling in a place that
23 all the calculations say is already drained. It's not
24 necessary to accelerate production or -- It won't get very
25 much primary production.

1 And so it -- I don't like to call it infill, I
2 just don't like that word, because infill means
3 acceleration of reserves. It's simply there to have a
4 producer to go with the injector in that southern pod.

5 Anyway, it will not make much primary oil, that's
6 not the purpose. And so I -- anyway, for that point I
7 don't like the word infill. I don't like the word pilot,
8 because we -- pilot has the connotation that if this works,
9 you can expand it. Well, there's not very much -- you
10 know, there's not very far to expand it. This is the whole
11 deal, what we're showing here is the whole deal. And it's
12 a way that makes sense to me and to us, to get several
13 hundred thousand extra barrels out of this little
14 reservoir.

15 Q. And Dr. Boneau, I do understand your resistance
16 to the infill, but this doesn't violate the intent of the
17 rule, right, which allows for one well on 160-acre spacing
18 or two wells on 320-acre spacing?

19 A. No, this is a good idea and we should do it.

20 Q. Okay. Do you believe that these additional
21 wells, if approved, would overdrain the area, the spacing
22 units?

23 A. No.

24 Q. Would approval of this pilot project provide you
25 an opportunity to recover oil that might not otherwise be

1 produced?

2 A. Yes, it will.

3 Q. And in a fashion that does not violate
4 correlative rights?

5 A. No, I don't think correlative rights are an issue
6 here.

7 Q. Will the granting of this Application be in the
8 best interest of conservation, the prevention of waste --

9 A. Yes, ma'am.

10 Q. -- and the protection of correlative rights?

11 A. That too, yes, ma'am.

12 Q. There are no other operators in this pool as
13 defined; is Yates the only operator?

14 A. Correct.

15 Q. Are there any other operators of Cisco wells
16 within a mile of this pool?

17 A. No.

18 Q. So there's no one to notify of this hearing?

19 A. If we notify operators within one mile, there
20 aren't any to notify, yes, ma'am.

21 Q. And Dr. Boneau, is Exhibit Number 12 an affidavit
22 of publication showing that notice of this hearing has been
23 given pursuant to Division Rules?

24 A. It appears to be that to me, yes, ma'am.

25 Q. And were Exhibits 1 through 12 prepared by you or

1 compiled under your direction and supervision?

2 A. Yes, with the exception of the cross-section that
3 I explained.

4 Q. Which was previously --

5 A. Which was previously provided in a hearing where
6 Tim Miller and I appeared together.

7 MS. MUNDS-DRY: Thank you, Dr. Boneau. We would
8 offer Yates Exhibits Number 1 through 12.

9 EXAMINER CATANACH: Exhibits 1 through 12 will be
10 admitted.

11 EXAMINATION

12 BY EXAMINER CATANACH:

13 Q. Mr. Boneau, I believe you stated that you had
14 drilled 10 wells in this area, trying to define the
15 reservoir; is that correct?

16 A. Yeah, that's correct.

17 Q. Okay, so you've drilled wells that have been dry
18 holes in the past?

19 A. We've drilled wells that have been dry holes, or
20 they ended up as Abo wells.

21 Q. Okay.

22 A. The latest one is called George 11, just to the
23 -- in the north half of 26. We were sure that one would be
24 in the pool, and it wasn't.

25 Q. Okay, so you've pretty much defined the

1 boundaries of the reservoir?

2 A. Yes. I mean, if you look at the map, whatever,
3 George 11 is not in it, Cottonwood 5 is not in it,
4 Cottonwood Ranch 6 isn't in it to the east, Sacra 21 to the
5 south is not in it, Sacra 17 to the southwest is not in it,
6 Red Rock to the west is not in it. We put the wagons all
7 around it, and it wasn't there.

8 Q. All of those wells were drilled down to the Penn?

9 A. Yes.

10 Q. Okay. The intent is to drill the Number 13 well,
11 and you said -- are you going to produce that well for a
12 time?

13 A. I imagine so. I mean, my idea is that it turns
14 into the producer, and we inject into the Number 9 --

15 Q. Okay.

16 A. -- the down- -- we inject into the downdip well
17 and produce out of that new well. That's what I visualize
18 as happening.

19 Q. Which would be updip from the 9?

20 A. Yes, which would be updip from the 9.

21 Q. Same situation in Section 26? Would you produce
22 the 12 well and inject into the 10?

23 A. Yes, that's what I think. I don't think that the
24 -- Well, the 2Y was an Abo well that we deepened out of
25 small casing, so it's a tiny hole, a 3-inch hole. And I

1 don't know that the cement is that -- anyway, I don't like
2 -- I don't think it can serve as the only real producer in
3 that northern pod, assuming my idea of a northern pod is
4 right, and we need another producer there, which would be
5 the 12, and we would inject into the 10.

6 Q. Okay. Any plans for additional wells in Section
7 27 at all?

8 A. No, absolutely not.

9 Q. So do you think that these are going to be the
10 last two wells drilled in the pool?

11 A. I think so. I think there -- there's a tiny
12 chance that the northeast northeast of 34 would be worth
13 drilling at some point, but we don't visualize doing that.
14 The northeast northeast of 34 is the only reason for my
15 hesitating to say absolutely no more.

16 Q. Uh-huh. Do you know -- I know you're -- I don't
17 know if you're familiar with it or not, but is Yates the
18 only interest owner in these wells?

19 A. I think so, but I don't know absolutely. I did
20 not --

21 Q. Okay.

22 A. -- look at the ownership in those four sections.

23 Q. They're all -- I guess they're all federal
24 leases, it appears. I'm not sure about Section 34.

25 We're not -- You're not trying to change the

1 rules at all, you're just asking for approval for these two
2 additional wells to be drilled?

3 A. That is the way I would say it, yes, sir.

4 MS. MUNDS-DRY: And Mr. Catanach, the rules state
5 that the initial well -- the infill well cannot be located
6 on the same quarter section as the initial well, so we
7 would ask for an exception to that part of the rule.

8 Q. (By Examiner Catanach) Now you do realize you're
9 going to have to come back in when you start waterflood
10 operations to get approval for that?

11 A. Yes. Yes, we'd like to come back, telling you
12 that we think we're injecting into the right well. Or, you
13 know, we'd like to come back with more knowledge of what's
14 going on.

15 Q. Is the bottomhole pressure data the thing that
16 you're using to determine that there might be two separate
17 pods here? Is that your main evidence in that regard?

18 A. The bottomhole pressure data and the performance,
19 the Number 9 dying sooner than the others, the fact that
20 it's consistent with the pressure data. Those two little
21 bits of information are the basis of that opinion that
22 there are two pods.

23 Q. Do you think that that's -- they're totally
24 separated? Porosity pinchout or something?

25 A. I don't know. We're trying -- We have tried to

1 computer-model it, we're trying again. We haven't come up
2 with anything that fits everywhere. You know, this is my
3 best guess, is really the word. I don't know what else to
4 tell you, sir.

5 Q. Okay. And this is Cisco, right?

6 A. Cisco --

7 Q. The geologist would call it Cisco?

8 A. The geologist would call it Cisco, it's Cisco.

9 Q. Would you call it Cisco?

10 A. I would call it Cisco, yes. I follow the
11 geologist. But I mean, it's a -- it's called a Penn pool,
12 but it's the Cisco portion of the Penn, is what produces.

13 Q. Is there any other Penn -- I guess there's not
14 any other Penn-producing intervals in this area, Morrow or
15 Atoka or anything like that? Strawn?

16 A. Well, Morrow and Atoka don't exist here, but -- I
17 mean, we have been drilling to the basement in Chaves
18 County over a large area and found productive intervals in
19 Silurian, which pretty much doesn't exist here, Strawn,
20 Wolfcamp and Cisco. You know, there is some production in
21 those -- in Strawn, Wolfcamp and Cisco at various places,
22 in little reservoirs, and we've found lots of little
23 reservoirs and missed lots of little reservoirs, but
24 anyway...

25 Q. Are these -- The wells that you're producing

1 right now in the pool, are they just single completions in
2 the Penn? You're not completing the Abo and producing the
3 Abo in these wells, are you?

4 A. No, these four wells produce only from this Cisco
5 zone.

6 EXAMINER CATANACH: Okay. Okay, that's all I
7 have.

8 Do you have anything further?

9 MS. MUNDS-DRY: We have nothing further.

10 EXAMINER CATANACH: Okay. There being nothing
11 further, Case 13,706 will be taken under advisement.

12 (Thereupon, these proceedings were concluded at
13 8:54 a.m.)

14 * * *

15
16
17 I do hereby certify that the foregoing is
18 a complete record of the proceedings in
the Examiner hearing of Case No. 13706
19 heard by me on May 11, 2006

20 David R. Catanach, Examiner
Oil Conservation Division
21
22
23
24
25

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 May 26th, 2006.



STEVEN T. BRENNER
 CCR No. 7

My commission expires: October 16th, 2006