

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. 13,008
)
 APPLICATION OF YATES PETROLEUM)
 CORPORATION FOR SIMULTANEOUS DEDICATION,)
 CHAVES COUNTY, NEW MEXICO)

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

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

RECEIVED

March 27th, 2003

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Santa Fe, New Mexico

Oil Conservation Division

This matter came on for hearing before the New Mexico Oil Conservation Division, WILLIAM V. JONES, JR., Hearing Examiner, on Thursday, March 27th, 2003, 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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March 27th, 2003
 Examiner Hearing
 CASE NO. 13,008

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A P P E A R A N C E S

FOR THE DIVISION:

DAVID K. BROOKS, JR.
Attorney at Law
Energy, Minerals and Natural Resources Department
Assistant General Counsel
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

FOR THE APPLICANT and EOG RESOURCES OIL AND GAS, INC.:

HOLLAND & HART, L.L.P., and CAMPBELL & CARR
110 N. Guadalupe, Suite 1
P.O. Box 2208
Santa Fe, New Mexico 87504-2208
By: WILLIAM F. CARR

* * *

1 WHEREUPON, the following proceedings were had at
2 10:37 a.m.:

3 EXAMINER JONES: At this time we'll call Case
4 13,008, which is readvertised, continued from the March
5 13th Examiner Hearing, which is the amended Application of
6 Yates Petroleum Corporation for simultaneous dedication of
7 three wells, Chaves County, New Mexico.

8 Call for appearances.

9 MR. CARR: May it please the Examiners, my name
10 is William F. Carr with the Santa Fe office of Holland and
11 Hart, L.L.P. We represent Yates Petroleum Corporation in
12 this matter. I have two witnesses.

13 I would request that the record reflect that the
14 witnesses have previously been qualified as experts, and
15 they remain under oath.

16 EXAMINER JONES: Okay, let's let the record
17 reflect that the witnesses were previously qualified and
18 they remain under oath.

19 Any other appearances in this case? There being
20 none, Mr. Carr?

21 MR. CARR: And we also, Mr. Examiner, need to ask
22 that the record reflect that we are also entering an
23 appearance in this matter for EOG Resources Oil and Gas,
24 Inc. They have asked that we do that, they have stated
25 they do not oppose, so we've done it.

1 EXAMINER JONES: Okay, they do not oppose?

2 MR. CARR: No, they do not.

3 EXAMINER JONES: But they want to have an
4 appearance?

5 MR. CARR: Yes.

6 EXAMINER JONES: Okay, thank you.

7 CHARLES E. MORAN,

8 the witness herein, having been previously duly sworn upon
9 his oath, was examined and testified as follows:

10 DIRECT EXAMINATION

11 BY MR. CARR:

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

13 A. My name is Charles Moran, I live in Artesia, New
14 Mexico --

15 Q. By --

16 A. -- and I'm employed by Yates Petroleum
17 Corporation as a landman.

18 MR. CARR: There are days when it makes you feel
19 almost useless, when your witness just goes.

20 (Laughter)

21 Q. (By Mr. Carr) Are you familiar with the
22 Application filed in this case?

23 A. Yes, I am.

24 Q. Are you sure?

25 A. Yes.

1 Q. And are you familiar with the proposal of Yates
2 Petroleum Corporation to simultaneously dedicate two gas
3 wells in the northeast quarter of Section 5, Township 10
4 South, Range 26 East?

5 A. Yes.

6 Q. Mr. Moran, would you briefly summarize for the
7 Examiner what it is that Yates Petroleum Corporation seeks
8 in this case?

9 A. What Yates Petroleum is pursuing is, in the north
10 half of Section 5, we have currently drilled the Quiniela
11 AXQ State Number 2 well at a location of 660 from the south
12 and 1980 from the east on a north-half spacing unit in
13 Section 5.

14 We are pursuing, based on geological information
15 which will be presented by a geologist, a location for a
16 third well in the northeast quarter, as well as our Number
17 1 well in the northwest quarter of Section 5.

18 MR. CARR: Mr. Examiner, could we go off the
19 record for a minute?

20 EXAMINER JONES: Yes.

21 (Off the record)

22 Q. (By Mr. Carr) Mr. Moran, you've explained what
23 it is that Yates is seeking with this Application. The
24 result of that is that there will be three wells in the
25 north half of the section in the same formation --

1 A. Yes.

2 Q. -- is that correct?

3 A. Correct.

4 Q. And what formations are these wells actually
5 projected to or completed in?

6 A. The wells will be drilled to the basement, but we
7 anticipate the production in the Silurian-Devonian. That
8 is currently where the Number 2 well is producing out of,
9 and the Number 2's production is -- it's a below-average
10 well for what we had expected to obtain out here.

11 Q. And that is the principal objective in this case?

12 A. Yes.

13 Q. There are some secondary objectives, are there
14 not?

15 A. Yes, the secondary objectives would be the Strawn
16 and the Cisco and the Wolfcamp.

17 Q. Are all of the wells that are the subject of this
18 hearing drilled at standard locations and would be standard
19 locations in all horizons?

20 A. Yes, they are.

21 Q. What rules govern the development of this spacing
22 unit?

23 A. The statewide rules, that being Rule 104 -- let's
24 see --

25 Q. And that provides for --

1 A. -- 320-acre --

2 Q. -- 320-acre --

3 A. -- spacing for formations below the base -- or
4 below the top of the Wolfcamp formation.

5 Q. And they would provide for 660-foot setbacks from
6 the outer of a quarter section --

7 A. Correct.

8 Q. -- and they also pre-approve an infill well in
9 the quarter section other than the one in which the first
10 well is located?

11 A. Correct.

12 Q. And so what we're trying to do is have two wells
13 in the Siluro-Devonian, in the northeast quarter?

14 A. Correct.

15 Q. Have you prepared exhibits for presentation here
16 today?

17 A. Yes, I have.

18 Q. Would you refer to what's been marked for
19 identification as Yates Exhibit Number 1 and review the
20 information on this exhibit for the Examiners?

21 A. Exhibit Number 1 I've prepared is a plat centered
22 around Section 5 of Township 10 South, Range 26 East. It
23 is intended to show the current wells in that area and
24 shows that Yates Petroleum Corporation is the operator of
25 the wells to the north in Section 32.

1 Section 32 is an east-half/west-half spacing
2 unit.

3 Section 33, Yates Petroleum Corp. is the operator
4 of the well in the south half of Section 33.

5 Section 4 is the west-half spacing unit, and
6 Yates Petroleum Corporation is the operator of the wells in
7 that section.

8 The south half of Section 5 is also a south-half
9 spacing unit. Yates Petroleum Corporation is the operator
10 of that unit.

11 Section 6 is operated by third parties. It is
12 our belief that that McClellan Penjack Well Number 5 is the
13 only deep test in that section. I was not sure whether it
14 was a north half or -- I'm thinking it's a north-half
15 spacing unit, but I was not sure.

16 And Section 31, I was not sure what the spacing
17 was, so I -- but it's an offset operator to the adjoining
18 Section 5.

19 Q. All right, Mr. Moran, Yates operates the spacing
20 units north, south, east and northeast of the subject
21 spacing unit?

22 A. Correct.

23 Q. And Yates owns an interest but does not operate
24 in Section 31 and Section 6 to the west of the --

25 A. It is my understanding we have a very tiny

1 ownership interest in those sections.

2 Q. To whom was notice provided of this Application?

3 A. Notice was provided to all working interest
4 owners in Section 31 of 9-26 and Section 6 of 10-26,
5 because we did not operate and we notified every working
6 interest owner in there, including Chesapeake who operates
7 the Abo formation.

8 Also in Section 32, because we do not own 100
9 percent of that section, we notified the working interest
10 owners in that section because we were the operator. In
11 the other sections the Yates entities own 100 percent of
12 the working interest.

13 Q. So you have, in fact, notified all other working
14 interest owners in all affected tracts?

15 A. In all affected tracts, yes.

16 Q. And have you received any response to this
17 notification?

18 A. No response was received. The only thing I'm
19 aware of is that EOG Resources wanted an appearance
20 entered.

21 Q. And is Exhibit Number 3 a copy of an affidavit
22 confirming that this notice has been provided in accordance
23 with the Rules of the Division?

24 A. Yes, it is.

25 Q. Will Yates call a geological witness to review

1 the technical aspects of this case?

2 A. Yes, we will.

3 Q. Were Yates Exhibits 1 through 3 either prepared
4 by you or compiled at your direction?

5 A. They were partially prepared by me or compiled at
6 my direction.

7 MR. CARR: May it please the Examiners, at this
8 time we'd move the admission into evidence of Yates
9 Petroleum Corporation Exhibits 1 through 3.

10 EXAMINER JONES: Exhibits 1 through 3 are
11 admitted to evidence.

12 MR. CARR: That concludes my direct examination
13 of Mr. Moran.

14 EXAMINATION

15 BY EXAMINER JONES:

16 Q. Mr. Moran, in Section 33 what was the story
17 there? Is that all Yates --

18 A. Section 33 is a north-half and south-half-spaced
19 section.

20 Q. Okay.

21 A. In the south half the Yates entities own all
22 working interest in the south half.

23 Q. Okay. And in the west half of Section 4, that's
24 a standup?

25 A. That is a west-half-spaced section, and those are

1 the Nevada wells that we operate, and we own 100 percent of
2 those.

3 Q. You own 100 percent of all of these targets,
4 these formation targets in this case, in that section?

5 A. The ownership in the south half of 33 is common
6 all depths. In 4, the west half, it's common all depths.
7 In the south half of 5 it's common in all depths.

8 Section 32 is part of a working interest unit.
9 All the owners are the same, but there's a difference in
10 the ownership between the Abo and the deep rights. It's a
11 shallow-deep unit.

12 The ownership in Sections 31 and 6, I'm not as
13 familiar with the ownership, but I know we notified
14 everybody that we identified as a working interest owner in
15 whatever depths that were out there, because I know from
16 some other research that Chesapeake is the operator of most
17 of the Abo formation out there, but they have acquired some
18 of the deep rights. And since we were going deep I wanted
19 to make sure we notified the deep working interest owners
20 as well.

21 Q. Thank you very much for that. We've got that on
22 the record here, so I can read the record on that one.

23 The location of this Quiniela AXQ State Number 2
24 well --

25 A. Yes.

1 Q. -- you said earlier that it is from the -- Can
2 you tell me again the location?

3 A. I believe the footages of that well -- it's 660
4 -- excuse me, 1980 from the north line and 1980 from the
5 east line. I may have misspoken earlier.

6 Q. Yes, because it was different than our records.

7 A. Yeah, it is. I apologize, I was looking at the
8 dashed line in Section 5 and going 660 from --

9 Q. Oh, from the --

10 A. -- from the dashed line. I apologize. It is
11 1980 from the north and 1980 from the east. I need to
12 correct myself.

13 Q. Okay. And when you say Silurian-Devonian, do you
14 really mean Siluro-Devonian?

15 A. Siluro-Devonian. My geologist keeps changing the
16 name of the --

17 Q. Okay.

18 A. He's also called it Precambrian and --

19 Q. Okay.

20 A. I know the rules require it to be developed on a
21 320-acre spacing unit --

22 Q. Yes.

23 A. -- whatever he calls it. Okay, so we'll make
24 sure that -- and that is the -- You said the primary target
25 and the secondary targets are the Strawn, Cisco and

1 Wolfcamp?

2 A. Yes. And I guess you could have some Abo out
3 there as well.

4 Q. And you have no idea about -- is EOG -- can you
5 tell me their --

6 A. EOG is a working interest owner in Section 32.

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

8 Mr. Brooks?

9 EXAMINATION

10 BY MR. BROOKS:

11 Q. Is this all state land?

12 A. I believe it is all state land, as to Section 5.

13 Q. Yeah, Section 6 looks like it's federal.

14 A. Yes, 6 is federal, 31 is federal, 32 is state, 33
15 is state.

16 Q. I saw these little lots here, though, and I
17 wondered if any of those were fee?

18 A. No, I would presume that that whole section is
19 federal, based on the map. There's no distinction.

20 MR. CARR: All state.

21 Q. (By Mr. Brooks) All state in Section 5?

22 A. Yeah, down in Section 5, yes.

23 Q. Okay, and it looks like 4 is state as well?

24 A. Yes.

25 Q. And 32 is state also, right?

1 A. Correct.

2 Q. And 33 is also state?

3 A. Yes.

4 MR. BROOKS: Okay, thank you.

5 EXAMINER JONES: Thanks very much, Mr. Moran.

6 MR. CARR: At this time we call Tim Miller.

7 TIM MILLER,

8 the witness herein, having been previously duly sworn upon
9 his oath, was examined and testified as follows:

10 DIRECT EXAMINATION

11 BY MR. CARR:

12 Q. Mr. Miller, you testified in the previous case,
13 did you not?

14 A. Yes, I did.

15 Q. And at that time your credentials as an expert in
16 petroleum geology were accepted?

17 A. Yes, they were.

18 Q. Are you familiar with the Application filed in
19 this matter on behalf of Yates Petroleum Corporation?

20 A. Yes, I am.

21 Q. Have you made a geological study of the area
22 which is the subject of this case?

23 A. Yes, I have.

24 Q. Are you prepared to share the results of that
25 work with the Examiners?

1 A. Yes, I am.

2 Q. Let's just go back. What's the primary objective
3 in this property?

4 A. Primary objective in this property is the Siluro-
5 Devonian formation.

6 Q. If we look at what has been marked as Exhibit
7 Number 1, we're talking about three wells in the north half
8 of the section, are we not?

9 A. Correct, yes.

10 Q. The Number 2 well has been drilled?

11 A. Yes.

12 Q. It is in the southwest of the northeast?

13 A. Correct.

14 Q. We're proposing to drill an additional well in
15 the northwest of the northeast; is that correct?

16 A. That is correct.

17 Q. What about the well -- the Number 1 in the
18 northwest quarter? Has that well been drilled?

19 A. No, it has not.

20 Q. Okay, so we're talking about these three wells?

21 A. Yes.

22 Q. Let's go to what has been marked Exhibit Number
23 4, your structure map, and I would ask you to review the
24 information on this exhibit for the Examiners.

25 A. Okay, Exhibit Number 4 is a structure map on top

1 of the B pay zone interval in the Siluro-Devonian dolomite.
2 As you can see, this gives you a general feel for the
3 structure out there. Mainly, it is a north-to-south-
4 trending what we think -- an anticlinal feature. On the
5 west side there's one major fault that runs from the south
6 half of Section 32 down through Section 5 and down in
7 through Section 8, continuing down further south.

8 As the map has shown, down in Section 8 we feel
9 that this is -- this has two faults, this is basically a
10 downthrown fault which has the pay horizon structurally
11 low, and this has been very poor to this date, uneconomical
12 well.

13 Basically what you're seeing is, the crest of the
14 structure is running on the east half of Section 32, down
15 through the east half of Section 5 and snakes somewhat, at
16 least by the way I feel I've contoured it, into the
17 northwest quarter of Section 4.

18 Basically the highest part of the structure --
19 and it might be kind of hard to see -- is where the Program
20 Number 3 well is in the southeast quarter of the section.
21 That is -- The legal location for that is 1980 from the
22 south, 660 from the east.

23 The two Nevada wells, which are in the west half
24 of Section 4, are just down the flank of the structure, as
25 you can see. The structure top on the Nevada 1, which is

1 in the northwest quarter, is a minus 2072. The structure
2 top on this B interval pay zone down in the southwest
3 quarter on Nevada 2 is 2083.

4 The Program 3 well is 2034 over in Section 5.
5 The Program Number 1, which is hard to see because of the
6 contour interval right over that well, but you can see the
7 red number is a minus 2215, so you can see it drops off
8 sharply to the west.

9 Now, the Quiniela Number 2, which is the well in
10 Section 5 that is 1980 from the north and east, this B zone
11 in the Siluro-Devonian dolomite is not present in this
12 well. This well is producing out of a lower interval in
13 the Siluro-Devonian.

14 We feel that this well, shown on the map, and
15 these faults are placed in here because of 2-D seismic that
16 we have in the area is in an up -- is in a small upthrown
17 block by itself. And as I will show later in the cross-
18 section over here, the dolomite interval that it is
19 producing out of is in -- lower in the Siluro-Devonian
20 section than what produces out of the wells in the
21 southeast quarter of this section, which is the Program 1,
22 the Program Number 3, the -- over in the next section to
23 the east, Nevadas 1 and 2.

24 Down in Section 9, in the north half of that
25 section, you have the Expenditure 1 and the Exacta 1. If

1 you move up to Section 33, the Allied 1 and the Allied
2 State Number 2. And then in the east half of Section 32,
3 the Ultra State Number 2.

4 Those are all producing out of the Siluro-
5 Devonian dolomite, the B interval, and we think that with
6 our proposed Quiniela Number 3 -- which the legal location
7 on that is 660 from the north, 1650 from the east, and we
8 base this on seismic -- that that is not in the small
9 upthrown block which is in the Quiniela 2. We think where
10 we positioned it, it will have the B interval of the
11 Siluro-Devonian, which basically it is in another
12 reservoir. The Quiniela 2, even though it is in the same
13 formation, is producing what we think -- and we will show
14 that on the cross-section -- out of a lower reservoir in
15 the Siluro-Devonian.

16 Q. So what we've done is, we've drilled the Quiniela
17 Number 2?

18 A. Yes.

19 Q. And when we've drilled the Quiniela Number 2,
20 looking at the well information and the seismic data that
21 you have, it appears to be in a small feature, an uplift on
22 the east side of the main fault?

23 A. Yes, it does.

24 Q. And that well will not, in your opinion, drain
25 anything other than that small uplift in which it is

1 located?

2 A. Yes.

3 Q. And what we're trying to do is break that out and
4 then go forward and drill additional wells, one in each
5 quarter section, to drain the main Siluro-Devonian interval
6 that's being produced and offsetting properties?

7 A. Yes.

8 Q. Let's go to what has been marked as Exhibit
9 Number 5. Will you identify and review that?

10 A. Okay, Exhibit Number 5 is a gross isopach of the
11 total thickness of the Siluro-Devonian dolomite in the area
12 out here, and this just covers the thickness of the
13 dolomite whether you have the B zone, where you don't have
14 the B zone, just the total thickness of the Siluro-Devonian
15 formation in the dolomite.

16 And as you can see, the thicker part of the
17 dolomite runs basically from the northwest to the southeast
18 of Section 32, around 250-plus feet thick. This trend runs
19 down through the northeast quarter of Section 5 and
20 basically all of Section 4, and basically gets what I feel
21 by just data, increases up to around 300-feet-plus in
22 thickness down in Sections 8 and in Section 9. This just
23 gives you a general feel, the thickness of the dolomite.

24 And as you go to the west, as you can see on your
25 map, you basically run out of dolomite. And basically

1 you're going slightly updip.

2 The only two deep wells that we have any
3 information on to tell me that is in Section 6, which are
4 the two McClellan wells -- actually the well that is in the
5 northwest quarter of Section 6, which on this map is called
6 the Chesapeake Operating Penjack Number 1, which is 660
7 from the north and west -- it has 18 feet of gross dolomite
8 -- and McClellan's Penjack, which only has two feet.
9 That's all that's left of the dolomite over here.

10 These two wells, what McClellan did in the
11 Penjack 5, they deepened it. It was an old well. If I
12 believe right, it was an old Abo dry hole, and they
13 deepened it to find a Wolfcamp pay zone in this area. But
14 they took it all the way to the basement just to check the
15 lower horizons.

16 Q. Let's go to the cross-section, and then I'd ask
17 you to first review the index map and then the information
18 contained on the exhibit.

19 A. Okay, I apologize for the tablecloth cross-
20 section, but to be able to get all the information on it so
21 you can see it without shrinking it too small, this was
22 about the right scale to show this.

23 As you can see, this cross-section is named A-A'.
24 It starts up in the north in Section 33, in Yates
25 Petroleum's Ultra UA State Com Number 2, and ends up going

1 to the south, to the Nevada 1 well in Section 4, then over
2 to -- well actually, let me back up.

3 From the Ultra State Number 2 it goes through the
4 Allied State Number 2 in the southwest quarter of Section
5 33, then to the Nevada 1 well, which is in the northwest
6 quarter of Section 4, then through our proposed location,
7 then through the Quiniela Number 2, then over to the
8 Program 3, down to the Program 1, back over to the Nevada
9 2, giving you a feel for what the structure is doing here,
10 then down to the Expenditure 1, and finally ending up down
11 to the southwest, to the Hook Number 1 in Section 1.

12 And what is shown on the cross-section, I've
13 labeled the different formations. The highest formation,
14 at least on the -- or the shallowest formation that is on
15 the cross-section is the Cisco. Then you have the Strawn
16 formation. Again, this is structure cross-section hung on
17 a minus-2000-foot subsea.

18 Then the Mississippian formation is colored in
19 orange. And as you just look left to right across the
20 cross-section, you can see that the Mississippian formation
21 comes and goes in the area, and basically where you don't
22 have it, that the higher wells, the Mississippian was
23 either never deposited or was eroded or scrubbed off.

24 The next formation down below the Mississippian
25 is what I call the Siluro-Devonian. And then below that

1 the productive interval in the Siluro-Devonian is the B
2 interval, which is shaded in blue. And once again, as you
3 can see throughout the cross-section, the higher up
4 structurally in some of the wells, it is -- either that or
5 it was never -- been deposited, but probably more often it
6 was eroded off.

7 And what I am trying to depict here with this
8 cross-section is, you -- give you the reason why we think
9 -- that we are proposing the Quiniela 3 and why we think
10 it would still have the B interval, as opposed to the
11 Quiniela 2. As you can see in the Quiniela 2, where it is
12 producing right now, this is in the lower part of the
13 Siluro-Devonian.

14 If you compare it with the well, Program 3 to the
15 southeast, you see that -- which is basically white on the
16 cross-section -- that lower part. And then we have a B
17 interval up in the Program 3.

18 And if you come back up to the northwest in the
19 Quiniela 2, it is just gone. So we figure it's probably
20 been eroded off. And this reservoir in the Quiniela 2 is a
21 reservoir by itself, and this little upthrown block in the
22 B interval is just not present in the Quiniela 2. And we
23 feel where we're positioning in the Quiniela 3, that it is
24 still intact over there at 660 from the north, 1650 from
25 the east, and we will have a chance of being in the better

1 pay zone in this area.

2 As you could see if you start over on the left
3 again, the Ultra 2 is perf'd in this interval. It has
4 accumulated 296 million cubic feet of gas from June, 2000,
5 up through the present. And when I mean present, basically
6 that's through the end of January.

7 The Allied Number 2 again is perf'd in the same
8 interval. This made 190 million cubic feet of gas from
9 2001, it's been up till January, 2003.

10 The Nevada 1 is -- as you can see, is the best
11 well out there in the B interval. It has been on line
12 since July of 2001. It has already made 2.3 BCF of gas out
13 of this interval.

14 And moving on the cross-section, we figure we
15 have a chance to encounter this B interval in the Quiniela
16 3, either at the same thickness, maybe a little less,
17 because you're coming up -- somewhat updip from the
18 Quiniela -- from the Nevada 1.

19 The Nevada 2 -- or I mean the Quiniela 2, as you
20 can see, the B interval is not there. It is perf'd in the
21 lower part of the dolomite. It basically has accumulated
22 on 53 million cubic feet of gas, and basically what it does
23 today is around 200,000 a day of gas.

24 The Program Number 3, this is not perforated. We
25 have yet to move uphole and perforate the B interval, but

1 we have found that lower zone there is being very
2 productive right now. It has made 172 million cubic feet
3 of gas. We have plans and sometime in the future to come
4 uphole and add that B-interval perf.

5 The Program Number 1 was not productive in the B
6 interval. We in producing the uphole out of, as you can
7 see, some Strawn sands, which is on the cross-section, then
8 there's some Wolfcamp further uphole.

9 The Nevada Number 2 is probably the second best
10 well out there, and it's perforated in the B interval. And
11 as you can see, between the Program 1, which is lower
12 downstructure than the Nevada 2, we have a thick
13 Mississippian section, and then the Mississippian just
14 basically disappears in the Nevada 2 because it is higher
15 structurally. Anyway, that is perf'd in the B interval,
16 and it has made 1 1/2 BCF since July of 2001.

17 The Expenditure is a more recent well. It is
18 perforated -- Expenditure Number 1 is perforated in the B
19 interval, and with some upper Devonian dolomite, up- -- or
20 Siluro-Devonian dolomite. It has made 368 million since
21 June of 2002.

22 And the last well on the cross-section is the
23 Hook well. And if you just look back to your structure
24 map, it is in a very steep downthrown block, and basically
25 we have tried just about everything in this well, the B

1 interval and upper interval, Siluro-Devonian, even
2 Mississippian and even further uphole. And we're waiting
3 on a pumpjack to try to pump this well too, because the
4 dolomite down here is wet, the Mississippian has water in
5 it, and we figure if we put a pumpjack on it and try to
6 move water, we might eventually be able to move the water
7 faster and maybe bring the gas in.

8 But basically on this cross- -- what I'm trying
9 to show from the cross-section is what we believe why we
10 need to drill the Quiniela 3, because we think it will be
11 in the same reservoir the Nevadas 1 and 2, the Ultras, the
12 Allieds, and that the Quiniela 2 is producing out of a
13 different reservoir, that it's out of a different reservoir
14 and that doing only 200,000 a day it is -- of course at
15 these -- today's gas prices is not that bad of a well. But
16 we figure we could do better with a Quiniela 3 location.

17 Q. And without the Quiniela 3 location, the acreage
18 in the B interval is subject to drainage to offsetting
19 property?

20 A. Yes.

21 Q. All right, let's go to Exhibit Number 7, which is
22 a net porosity isopach from the Wolfcamp-Spear zone. And I
23 guess the first question I have is, why are we now talking
24 about the Wolfcamp?

25 A. Okay, the Wolfcamp -- what Mr. Carr just alluded

1 to as the Wolfcamp-Spear zone is another productive
2 interval in the area.

3 And just recently, within the last four to five
4 months, McClellan Oil Corporation to the west in Section 6
5 has deepened their old Penjack Number 5 to the basement,
6 and they have established production out of the Wolfcamp-
7 Spear zone. And from what I understand -- and this is just
8 through conversations with them, that that well -- I think
9 the thickness of the zone is only four feet thick and he's
10 doing about 1.2 million a day. That's another one of these
11 Wolfcamp-Spear zones.

12 We feel that this is a secondary objective out
13 there and that the west half of our Section 5 is probably
14 starting to be drained by the Penjack Number 5.

15 This zone also occurs in what you see on the plat
16 of this and -- I laid it back. This is net porosity
17 isopach thickness map of the porosity in these wells that
18 are 4 percent or better, and the Penjack -- which is --
19 Chesapeake operates Penjack Federal Number 1, which is 660
20 from the north and west, has four feet. It has this
21 interval in it, it was never tested. It is an Abo well
22 now.

23 I really don't know if Chesapeake and McClellan
24 has plans to go back in and test the zone. So I think
25 that's why McClellan, since they have the deep rights over

1 there with some other operators, decided to deepen this old
2 Abo dry hole. And their hunch was right, they do have a
3 Wolfcamp-Spear zone. And we just feel that for the
4 Quiniela Number 1, our northwest quarter is slowly probably
5 being drained by this new reservoir out there.

6 Q. And you would drill this well down through the
7 Siluro-Devonian?

8 A. Yes.

9 Q. Let's go to what is marked as Exhibit Number 8.

10 A. Okay, Exhibit Number 8 is a cross-section from
11 west to east, B-B'. And if you have your net porosity
12 isopach map in the Wolfcamp-Spear zone you can kind of get
13 an idea of where the -- how the cross-section is running,
14 basically from west to east.

15 We start off in the west side, in the extreme
16 northwestern quarter of Section 6, and I just alluded to
17 these two wells. The first well on the cross-section is
18 the old McClellan Oil's Penjack Number 1. What this cross-
19 section is showing is the -- this Wolfcamp-Spear zone
20 again, highlighted in blue with the neutron density
21 crossover colored in red. As you can see, they had just
22 four feet of this zone in the Penjack Number 1. And once
23 again, as I stated to in an earlier testimony, the gamma-
24 ray, as you could see, is very hot in here, and this means
25 we think that this just develops better permeability.

1 The second well on the cross-section is the one
2 McClellan just recently deepened, an old Abo dry hole.
3 They were successful, found this Wolfcamp-Spear zone. It
4 has accumulated so far since November up through February
5 135 million cubic feet of gas. As you can see, it's a very
6 thin interval, only four feet. But we feel it drains a
7 wider area, really do not have any handle on the area it
8 actually drains. But for being just four feet thick it is
9 producing right now at 1.2 million a day.

10 As we move to the east, we figure our Quiniela
11 Number 1, which is 660 from the north, 1980 from the west,
12 would encounter this interval, as would the Quiniela Number
13 3. And as Mr. Carr alluded to earlier, yes, we would drill
14 both of these wells down into the basement.

15 And basically, as you just work to the east you
16 could see where in some of the wells, like the Quiniela
17 Number 2, we had the carbonate zone but we did not have the
18 porosity in it. But in the Nevadas 1 and 2 and then the
19 Ultra, you could see that we have the porosity zone in it.

20 The only well where we have kept it to add
21 production right now is the Allied 2. It is perf'd in
22 there, and it has accumulated 490 million cubic feet of gas
23 since January of 2001 till February of '02. That is done
24 producing, and this is not a high-pressured zone. Initial
25 pressure on it was around 1200 pounds, bottomhole pressure.

1 And what you need to continue to produce this
2 well, we would have to have more compression out there in
3 the area on the pipelines to lower the line pressure,
4 because what happens when you have Siluro-Devonian wells
5 come on like Nevada 1 and 2, it knocks the lower-producing
6 wells off-line, so to be able to lower the line pressure
7 you need to add a compressor. But that's why this only has
8 production from January, 2001, to January, 2002.

9 And then the Ultra 2 you could see the zone is
10 sitting there, and we have yet to perf it, because we're
11 still producing out of Siluro-Devonian downhole.

12 Q. Mr. Miller, what conclusions can you reach from
13 your geologic study? And you might break these down by
14 formation. What conclusions have you reached about the
15 Siluro-Devonian?

16 A. The Siluro-Devonian over in Section 5 we believe
17 is in separate reservoirs. The Quiniela 2 is producing, as
18 you see by the structure cross-section, out of a lower
19 Siluro-Devonian reservoir in the dolomite. And we believe
20 that the Quiniela 3 would be in the B interval of -- which
21 is the most productive interval out there in the Siluro-
22 Devonian, which produces basically in all the other Siluro-
23 Devonian wells out there.

24 We do not think there is no communication between
25 these two zones, we feel that the spacing unit is being

1 effectively drained by the existing well located in the
2 northeast quarter of Section 5.

3 Q. What about the Wolfcamp?

4 A. We feel with the drilling of the Quiniela 1 that
5 we would be better off set to encounter that Wolfcamp-Spear
6 zone that McClellan has opened up to the west in Section 6.
7 We just feel that would be -- we would be in a better
8 drainage area, having it 660 from the north and 1980 from
9 the west in Section 5.

10 Q. In your opinion, are each of the tree wells which
11 you've discussed in the north half of Section 5 necessary
12 if you're going to be able to effectively compete for
13 reserves in the Siluro-Devonian formation?

14 A. Yes, I do.

15 Q. Basically what we have here is, you have a well
16 that's in an isolated fault block and isn't draining the
17 reserves from this formation; is that fair to say?

18 A. Yes.

19 Q. And these reserves are being drained from other
20 wells?

21 A. Right.

22 Q. If you drilled the Number 3 well first, you
23 wouldn't be in this situation --

24 A. No, we wouldn't --

25 Q. -- perhaps you'd have a well to compete with

1 offset properties?

2 A. No, if we drilled the Number 3 first, we would
3 not be in this situation.

4 Q. And so what you're trying to do is just be
5 allowed to continue to produce the Number 2, and at the
6 same time drill the additional two wells that would be
7 allowed under statewide rules in the B interval in the
8 Siluro-Devonian?

9 A. Yes.

10 Q. By doing this and as you propose, it will also
11 enable you to compete for Wolfcamp reserves?

12 A. Yes.

13 Q. How soon would Yates propose to spud the Number 3
14 well?

15 A. As soon as it is approved.

16 Q. In your opinion, will approval of this
17 Application and the drilling of the wells that are proposed
18 result in recovery of hydrocarbons that may otherwise not
19 be produced, or at least not available to Yates from this
20 acreage?

21 A. Yes, it will.

22 Q. Will approval of the Application otherwise be in
23 the best interest of conservation, the prevention of waste
24 and the protection of correlative rights?

25 A. Yes, it will.

1 Q. Were Yates Exhibits 4 through 8 prepared by you?

2 A. Yes, they were.

3 MR. CARR: At this time, Mr. Examiner, we move
4 the admission into evidence of Yates Exhibits 4 through 8.

5 EXAMINER JONES: Yates Exhibits 4 through 8 will
6 be admitted into evidence.

7 MR. CARR: And that concludes my examination of
8 Mr. Miller.

9 EXAMINATION

10 BY EXAMINER JONES:

11 Q. Tim -- I mean Mr. Miller, so you want to drill
12 the Number 3 first, even though Number 1 is maybe being
13 drained by that Wolfcamp-Spear zone?

14 A. Well, we feel the better reserves out here in
15 this area, even though the Wolfcamp-Spear zone is a good
16 reservoir, we figure the best wells out here for more
17 reserves are in the Siluro-Devonian.

18 Q. Okay.

19 A. Basically the Wolfcamp-Spear is a good backup
20 zone out here.

21 Q. Okay. I found a downhole commingle approval for
22 the Quiniela AXQ State Number 2 in the Four Ranch-Wolfcamp
23 and the Wildcat-Strawn, and the Strawn was permitted at 94-
24 percent gas and the Wolfcamp 6-percent gas. Is that really
25 perf'd in the Wolfcamp?

1 A. Yeah, we're producing out of what it -- and since
2 -- I don't a log, but it's a Wolfcamp sand further up the
3 hole.

4 Q. Okay. And the Strawn is the -- Actually, your
5 perfs on here show --

6 A. Well, what I showed on here, I was just showing
7 the perfs in the Siluro-Devonian. If I remember right on
8 the Quiniela 2, the perfs are basically from -- They're in
9 the interval of 5700 down to 5730. That's one of those
10 cherty-looking sands. That is a Strawn sand interval.

11 Q. Okay, what about that interval in these other
12 wells that you would drill?

13 A. That is a possible objective. We could have
14 production in that. It doesn't produce that well out there
15 -- It does produce that well out there, it comes and goes.
16 It is not primary target, it is more like it adds to
17 production if you have a show in it out there.

18 Q. Okay, even though it came in really well, it's --

19 A. It looks -- it -- you get shows on it in the mud
20 log. It looks, like you said, fairly decent on the log.
21 But you just perf and acidize it, it may be able to do
22 around 100,000 a day. If you try to frac it -- and we've
23 learned the hard way, you either make it worse or it
24 doesn't improve it, because basically I guess calling them
25 Strawn sands is sort of a misnomer.

1 What it is we found by taking a full-size core in
2 a well further away that is in the same age that this is, a
3 conglomerate or you can think of it as a junk basket. It
4 has chert in it, it has igneous fragments in it, you can
5 see granite fragments in it, you can see limestone/dolomite
6 fragments. It's just -- It's more like a debris zone.

7 A. Okay.

8 Q. And it's just very tightly cemented, so even
9 frac'ing it doesn't seem to help. But it's a poor
10 secondary objective.

11 Q. Okay, yeah, you do list the Strawn as one of
12 the --

13 A. Yeah.

14 Q. -- secondary formations in the -- and even though
15 a lot of the argument here, it looks to me like, is the
16 Siluro-Devonian is missing in the Number 2 well, so you
17 need two more wells to get your --

18 A. Yeah, we feel that the two more wells would be
19 back into the -- what is the B interval. But --

20 Q. This Strawn perforation in the Number 2 could
21 possibly be draining its fair share of the north half of
22 that Section 5?

23 A. It could.

24 Q. Okay. What about drilling a well right in the
25 southeast of 32? Did you say you're going to do that?

1 A. We have plans to do that.

2 Q. But not until you drill --

3 A. Yeah, not until we see what this Quiniela 3 does.

4 Q. Oh.

5 A. This would help us whether -- decide whether we
6 go ahead with that one that's -- and I can't remember the
7 exact footage. I think it's something like -- It might be
8 1250 or something from the east, 660 from the south, that's
9 in the ballpark. But we want to see what the Quiniela 3
10 tells us before we would go ahead with that one.

11 Q. Okay. So you would be -- as far as protecting
12 your other working interest owners in Section 32, if you
13 drilled the AXQ State Number 3, you would start draining
14 them until you get the other well drilled, wouldn't you?

15 A. I mean, you probably would. But you also have a
16 chance of maybe also getting some better secondary
17 objectives, maybe like the Wolfcamp-Spear, since it seems
18 to be prevalent in the area.

19 Q. Okay.

20 A. And I imagine the way our management works is, as
21 soon as we would see the logs on the Quiniela 3, if our
22 idea works and it is the B interval, that we would probably
23 already give the go-ahead to go ahead and drill that one up
24 in the southeast quarter of 32.

25 Q. Yeah. So it would be to Yates' advantage to have

1 both wells drilled if they --

2 A. Right.

3 Q. -- are good objectives? And do we have on
4 testimony how much Yates has interest in the south -- in
5 the -- let's see here, it's the -- I think we do, but --
6 how much they have in this Section 32 versus how much they
7 have in Section 5. That's --

8 MR. BROOKS: I don't recall if that's in the
9 record or not.

10 EXAMINER JONES: Mr. Moran, could you answer
11 that?

12 MR. MORAN: I'm speaking off the top of my head.
13 I don't remember the exact percentages, but in Section 32
14 it is a working interest -- inside what's called the
15 Bittersweet working-interest unit. And my memory is, Yates
16 has approximately 50 percent of that, and it could be even
17 higher, up to 60 percent.

18 The next biggest owner in that would be EOG, and
19 the -- if my memory is -- EOG has 37 1/2 and everybody else
20 had 12 1/2, and we had approximately 50.

21 EXAMINER JONES: And EOG has been noticed, and
22 they have not --

23 MR. MORAN: Yes, all the working interest owners
24 in 32 were noticed. I do know that the well in the
25 southeast is planned -- I've been told to get it ready to

1 proceed ahead too.

2 EXAMINER JONES: Okay.

3 MR. MORAN: Mr. Miller throws out locations left
4 and right.

5 Q. (By Examiner Jones) Mr. Miller, as far as the
6 volume on this Number 3 well, as actually recovery, do you
7 expect it to be a pretty good well, even though -- in other
8 words, it looks like it's only got a little bit of drainage
9 area in that Section 5, as far as the Siluro-Devonian.

10 A. Well, we feel that -- If I understand your
11 question, we feel that it would be draining obviously that,
12 but then across the line in the south half of 32.

13 Q. Yeah, okay. And just for my own -- the Siluro-
14 Devonian, is that the Fusselman or --

15 A. There's a lot of argument out here. You might be
16 aware of -- you may not be, but the Four Ranch field, a lot
17 of people still call it Ordovician.

18 The reason why we have changed to Siluro-
19 Devonian, we cut a full-size core -- This area is in
20 9-South-26, 10-South-26. The township to the north, which
21 is 8-South-26, a well we call the Horn Number 2, we cut a
22 full-size core through that dolomite. We had PGS out of
23 Houston date it with some fossils, and they deemed it that
24 -- what they dated it was Siluro-Fusselman, which was
25 more -- or Siluro-Devonian, which -- with some Fusselman

1 and some -- and everything.

2 So they feel that is the same thing down here,
3 even though you'll get into some arguments if it is or it
4 isn't, and we just feel because of that core we took and
5 from their study, that we're leaning to call it Siluro-
6 Devonian.

7 Q. Okay, back to the crux of the argument here, as
8 far as the B interval being gone in the Number 2 well, it's
9 based on the gamma-ray mainly?

10 A. Right.

11 Q. And not on any other methods, like any kind of
12 comparison of pressures between the B interval in another
13 well and the perforations in this well?

14 A. No, it's just by the log characteristics and
15 mudlog samples, what we find.

16 Q. Okay. Area you aware of the initial -- the
17 highest pressure you encountered after completion
18 operations in the Number 2 well --

19 A. Not right offhand.

20 Q. -- versus any of these others?

21 A. I'd have to -- If I remember right, the Nevada
22 wells, which are the -- you know, the two -- really the two
23 best Siluro-Devonian wells out there in the B interval,
24 which are just to the east, I think they have bottomhole
25 pressures to begin with about 2500, 2600. I know that --

1 the Quiniela 2 was less, but I can't give you really a
2 number on that.

3 Q. So it was less?

4 A. It was less.

5 Q. Okay.

6 A. And it does make -- and I don't think I've put it
7 on a cross-section, but like I said, it makes around
8 200,000 a day out of that interval, but it also makes some
9 water too, even though it is higher structurally, which we
10 feel -- again, it makes us think that just because of what
11 the seismic -- we think it's showing us, that it is in its
12 own little upthrown block, just separates it from
13 everything else to the -- be to the north and east out
14 there.

15 EXAMINER JONES: Okay, that's all I had. Okay.

16 EXAMINATION

17 BY MR. BROOKS:

18 Q. Are you asking to dedicate this in the Wolfcamp
19 as well as in the Siluro-Devonian?

20 A. The Quiniela 3 I think just would be from the
21 Siluro-Devonian.

22 Q. Okay, but you show the Wolfcamp as being --

23 A. Well, I didn't --

24 Q. -- continuous.

25 A. Oh, well, yeah, secondary objective, so I guess I

1 probably understand that we would want that too.

2 Q. Okay, but your logic really wouldn't apply to
3 that --

4 A. No.

5 Q. -- if it's continuous --

6 A. No.

7 Q. -- it really should -- So it seems to me you
8 really should -- unless you tell me a reason why, you
9 really should be limited to producing two wells out of this
10 -- in the Wolfcamp too, but --

11 A. Well -- Okay, I see what you're saying. We --
12 Our main objective was just -- was, you know, to address
13 the -- what, you know, the Siluro-Devonian --

14 Q. Yeah, I understand --

15 A. -- I know what you're saying there.

16 MR. BROOKS: Okay. Very good, no further
17 questions.

18 EXAMINER JONES: Okay, thanks a lot, Mr. Miller.

19 MR. CARR: That concludes our presentation in
20 this case.

21 EXAMINER JONES: Thank you, Mr. Carr.

22 Case 13,008 will be taken under advisement.

23 (Thereupon, these proceedings were concluded at
24 1:28 a.m.)

25

I do hereby certify that the foregoing
is a true and correct record of the proceedings
of the Examiner hearing of Case No. 13008
heard by me on 3/27/2005

STEVEN T. BRENNER, CCR
(505) 989-9817, 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 April 4th, 2003.



STEVEN T. BRENNER
CCR No. 7

My commission expires: October 16th, 2006