

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
CASE 9862

EXAMINER HEARING

IN THE MATTER OF:

Application of Mewbourne Oil Company for
for the Contraction of the Atoka-Pennsylvanian
Gas Pool and the Concomitant Extension of
the West Atoka-Morrow Gas Pool and for an
Unorthodox Well Location, Eddy County, New Mexico

TRANSCRIPT OF PROCEEDINGS

BEFORE: DAVID R. CATANACH, EXAMINER

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO

February 7, 1990

ORIGINAL

CUMBRE COURT REPORTING
(505) 984-2244

A P P E A R A N C E S

FOR THE DIVISION: ROBERT G. STOVALL
Attorney at Law
Legal Counsel to the Divison
State Land Office Building
Santa Fe, New Mexico

FOR THE APPLICANT: JAMES G. BRUCE, ESQ.
500 Marquette N.W., #740
Albuquerque, New Mexico 87102

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1 EXAMINER CATANACH: At this time we'll call
2 Case 9862, the Application of Mewbourne Oil Company
3 for the Contraction of the Atoka-Pennsylvanian Gas
4 Pool and the Concomitant Extension of the West
5 Atoka-Morrow Gas Pool and for an Unorthodox Gas Well
6 Location, Eddy County, New Mexico. Are there
7 appearances in this case?

8 MR. BRUCE: Mr. Examiner, my name is Jim
9 Bruce from the Hinkle Law Firm in Albuquerque,
10 representing the Applicant. I have three witnesses to
11 be sworn.

12 EXAMINER CATANACH: Are there any other
13 appearances? Would the witnesses please stand to be
14 sworn in.

15 (Thereupon, the witnesses were sworn.)

16 EXAMINER CATANACH: You may proceed.

17 D. PAUL HADEN

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

20 EXAMINATION

21 BY MR. BRUCE:

22 Q. Mr. Haden, please state your full name and
23 city of residence.

24 A. My name is Paul Haden. I'm from Midland,
25 Texas.

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

2 A. I work for Mewborne Oil Company as a
3 landman.

4 Q. Have you previously testified before the
5 Division as a landman and had your credentials
6 accepted as a matter of record?

7 A. Yes, I have.

8 Q. And are you familiar with the land matters
9 involving Case 9862?

10 A. Yes, I am.

11 MR. BRUCE: Mr. Examiner, are the witness's
12 credentials acceptable?

13 EXAMINER CATANACH: They are.

14 Q. Mr. Haden, would you please state what
15 Mewbourne seeks in this case.

16 A. First, Mewbourne seeks approval for an
17 unorthodox gas well location for its Gin #1 well.
18 This well is to be located 990 feet from the south
19 line and 660 feet from the west line of Section 9,
20 Township 18 South, Range 26 East in Eddy County, New
21 Mexico.

22 This well is to be drilled to approximately
23 9,100 feet to test the Morrow formation, with the west
24 half of Section 9 being dedicated to the well. Our
25 geologist will discuss this unorthodox location as

1 applied for further.

2 Second, Mewbourne seeks to contract the
3 Atoka-Pennsylvanian Gas Pool by deleting the west half
4 of Section 9 from that pool and extend the West
5 Atoka-Morrow Gas Pool to include the west half of
6 Section 9.

7 Q. Briefly, why does Mewbourne seek to move
8 the west half of Section 9 to the West Atoka-Morrow
9 Pool?

10 A. The Atoka-Pennsylvanian Pool is currently
11 prorated, and Mewbourne does not believe it can drill
12 a well in the prorated pool which will adequately
13 drain the west half of Section 9 in competition with
14 the Yates well in Section 8. This well is the
15 Chumbley well in the northeast quarter of Section 8.

16 Also, if the Gin #1 well is prorated, the
17 well will not meet Mewbourne's economic guidelines,
18 and this will be discussed by our engineer in further
19 testimony.

20 Q. Would you please now refer to Exhibits 1,
21 2A and 2B and describe the ownership of the acreage
22 offsetting the west half of Section 9 around
23 Mewbourne's ownership in this area?

24 A. Exhibit 1 is a land plat that shows the
25 west half of Section 9 as being our proposed proration

1 unit for the Gin #1. It also shows the location being
2 660 from the west and 990 feet from the south line of
3 Section 9.

4 Exhibit 2A shows the various tracts
5 offsetting our proposed Gin #1 well. Tract 1 is
6 currently owned by Yates Petroleum Corporation, as
7 Tracts 2, 3, 4, 5. Tracts 6, 7 and 8 are tracts in
8 which are currently unleased or as shown on Exhibit
9 2B, Arco and Yates Petroleum own a leasehold
10 interest. Tract 9 is owned by Harvey E. Yates
11 Company.

12 Q. So for the tracts which are most affected
13 by this, 4 and 5 are owned by Yates Petroleum Company,
14 is that correct?

15 A. Yes, that is correct.

16 Q. Tract 9, which is the north half of Section
17 16, is owned by Harvey E. Yates Company?

18 A. That is correct.

19 Q. And in Section 17, Exhibit 2B indicates
20 either the lessees or the unleased mineral interest
21 owners?

22 A. That is also correct.

23 Q. Would you outline for the Examiner the
24 boundary between the Atoka-Penn and the West
25 Atoka-Morrow?

1 A. Okay. Our interpretation is that the West
2 Atoka-Morrow includes the south half of Section 7, all
3 of Sections 8 and 18, and the west half of Section
4 19. The Atoka-Penn currently includes all of Sections
5 9, 16, 20, 21, and the east half of Section 19, among
6 other lands.

7 Q. This is according to the OCD's current
8 nomenclature orders, is that correct?

9 A. That is also correct.

10 MR. BRUCE: Mr. Examiner, I would point out
11 that the Atoka-Penn includes additional acreage, but
12 we're trying to point out the immediate area.

13 Q. And, Mr. Haden, Section 17 is apparently in
14 neither pool, is that correct?

15 A. That is correct.

16 Q. There is currently a well in the west half
17 of Section 9. Would you please describe the status of
18 that well?

19 A. This well is a Morrow gas well. It's
20 called the Spencer Com. Well #1 well, which is owned
21 by and operated by Mewborne Oil Company and is
22 producing at a very low rate out of the Morrow.

23 Q. If the west half of 9, or I should say, if
24 the Gin #1 well is drilled, what will Mewbourne do to
25 the Spencer well?

1 A. Mewbourne agrees to plug and abandon this
2 well if production is established in the Gin #1 well.

3 Q. Mr. Haden, was notice of this application
4 given to the offset interest owners or offset
5 operators?

6 A. Yes, they were.

7 Q. Are copies of the notice letters and the
8 certified return receipts submitted as Exhibit 3?

9 A. Yes, that's correct.

10 Q. Have any of the offset operators given you
11 written waivers?

12 A. Yates Petroleum Corporation, Harvey E.
13 Yates Company, Horace F. McKay, Jr. and Elmyra K.
14 McKay Trust. Also Arco Oil and Gas Company. However,
15 they say they do not own offsetting acreage. However,
16 I believe that they do.

17 Q. One thing, Mr. Haden, and that is,
18 according to Exhibit B, some acreage in Section 17 is
19 owned by Nancy Tonkin and Allan Tonkin?

20 A. Yes, that is correct.

21 Q. And that is in Tracts 6 and 8, is that
22 correct?

23 A. Yes, that's correct.

24 Q. I believe they have not consented to this
25 well, is that correct?

1 A. Apparently they have sent a letter to the
2 Commission stating that they objected to our
3 location. However, apparently they have not appeared
4 to tell us about their objections.

5 Q. Okay. Were Exhibits 1 through 4 prepared
6 by you or under your direction?

7 A. Yes, they were all prepared by myself.

8 Q. In your opinion, is the granting of this
9 application in the interest of conservation, the
10 prevention of waste and especially the protection of
11 correlative rights?

12 A. Yes, that's true. Correct.

13 MR. BRUCE: Mr. Examiner, I move the
14 admission of Exhibits 1 through 4.

15 EXAMINER CATANACH: Exhibits 1 through 4
16 will be admitted as evidence.

17 EXAMINATION

18 BY MR. CATANACH:

19 Q. Mr. Haden, let's go over the pool
20 boundaries again, the West Atoka gas pool again, a
21 little slower this time.

22 A. The West Atoka-Morrow gas pool includes the
23 south half of Section 7, all of Section 8, Section 18,
24 the west half of Section 19. The Atoka-Penn, in the
25 immediate area, includes all of Sections 19--hold it.

1 Sections 9, 16, 20, 21, and the east half of Section
2 19, among other lands.

3 Q. East half of Section 19?

4 A. Right.

5 Q. Okay.

6 A. Section 17 is not dedicated to either pool,
7 as there is no production.

8 Q. As I understand it, the Atoka-Pennsylvanian
9 pool is a prorated gas pool?

10 A. Yes, that is correct.

11 Q. Mr. Haden, the Spencer Com. Well #1, how
12 long has that been producing?

13 A. I believe since 1977. I believe that's
14 correct. Our geologist or engineer will verify that.

15 Q. Has that well been in the
16 Atoka-Pennsylvanian pool since that time?

17 A. Yes, it has. I might add that Yates
18 Petroleum will be joining in the drilling and
19 completion of this Gin #1 well. They own a small
20 working interest.

21 EXAMINER CATANACH: For the record, Mr.
22 Bruce, I feel compelled to read this letter into the
23 record that the Division has indeed received from
24 Allan M. Tonkin, Jr., and Nancy Tonkin, address in
25 Albuquerque, New Mexico. We received this February 2,

1 1990, addressed to Michael Stogner.

2 "Dear Mr. Stogner: We are the owners of
3 the northeast quarter of Section 17, Township 18
4 South, Range 26 East, Eddy County, New Mexico. We
5 object to the granting of an unorthodox location for
6 the drilling of a gas well as requested by Mewborne
7 Oil Company in Case Number 9862.

8 "We feel this unorthodox location will
9 cause drainage of our hydrocarbons located under our
10 acreage," and it's signed Allan M. Tonkin and Nancy
11 Tonkin.

12 That's all the questions I have of the
13 witness at this time.

14 MR. BRUCE: I would next call David Overton
15 to testify.

16 J. DAVID OVERTON

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

19 EXAMINATION

20 BY MR. BRUCE:

21 Q. Mr. Overton, would you please state your
22 full name and your city of residence.

23 A. James David Overton. I reside in Midland,
24 Texas.

25 Q. What is your occupation and who are you

1 employed by?

2 A. I'm a petroleum geologist employed by
3 Mewbourne Oil for the last six years.

4 Q. Are you familiar with the geological
5 matters involved in Case 9862?

6 A. Yes, sir, I am.

7 Q. Have you previously testified before the
8 OCD as an expert petroleum geologist?

9 A. Yes, sir, I have.

10 MR. BRUCE: Mr. Examiner, are the witness's
11 qualifications acceptable?

12 EXAMINER CATANACH: Yes, they are.

13 Q. Mr. Overton, please refer to your Exhibit 5
14 and discuss its contents for the Examiner.

15 A. Exhibit 5 is a combination structure
16 contour with a Morrow, Lower Morrow "A" sand net
17 porosity isopach. The structure in the area dips
18 regionally to the southeast and really isn't
19 significant to the prospect.

20 The channel sand colored in orange is the
21 primary objective of this prospect. If you'll note,
22 the well in the southwest of the northeast of Section
23 8 is productive out of this interval, with 12 foot of
24 net porosity. And that is essentially the only one
25 within a mile of our proposed location that has that

1 top porosity development out of this sand interval.

2 Q. Referring again to your exhibit, your
3 interpretation shows that there is little, if any, of
4 the Lower Morrow "A" reservoir underlying Section 17,
5 is that correct?

6 A. That is true.

7 Q. So, in your opinion--

8 A. I don't believe this channel runs across
9 them more than maybe just a piece of the corner there
10 in the northeast.

11 Q. In your opinion, would there be any adverse
12 effect for this reservoir as to the Tonkin interests
13 in Section 17?

14 A. Very marginal, if any.

15 Q. Looking at this example or this exhibit,
16 Mr. Overton, even though you may believe it's a good
17 prospect, is there substantial geologic risk of
18 hitting a well in this reservoir?

19 A. Yes, sir. In all Morrow prospects I feel
20 like there's a substantial risk. The wells around in
21 the area, outside of a few in the immediate area of
22 our proposed location, have not been real strong
23 producers.

24 Q. We'll get to this in your cross-sections
25 shortly, but in your opinion, is this really strictly

1 a one-reservoir well? In other words, there's only
2 one target reservoir or one potentially productive
3 reservoir for this well?

4 A. Yes, sir, I believe that's true at this
5 location.

6 Q. Would you then please move on to Exhibit 6,
7 the A to A' cross-section, and discuss its contents?

8 A. Cross-section A to A' is an Atoka-Morrow
9 stratigraphic cross-section trending down the trend of
10 the map channel or interpreted channel that we have.
11 That Lower Morrow "A" channel sand is colored in
12 orange. It is not present in the well in the
13 northwest of the southeast of Section 8, the
14 Yates-Torrington.

15 You can see the development in the
16 Yates-Chumbley as we come across. The Harvey E. Yates
17 Dayton State in Section 16 has very little in it, the
18 three foot that we've mapped, and it has also perf'd
19 numerous other intervals of the hole, small porosity
20 developments.

21 The last well in the cross-section is the
22 standard of Texas-Martin in Section 15, which is the
23 largest deposit of the sand in this interval that we
24 had found.

25 Q. Now, the Yates-Chumbley well in the north

1 half of Section 8, what is its current producing rate,
2 to the best of your knowledge?

3 A. To the best of my knowledge, which was May
4 of 89 and is on one of the other exhibits, it was a
5 million and a half a day.

6 Q. How long had it been producing at that
7 time?

8 A. About a year and a half.

9 Q. Thank you. Let's move on to Exhibit 7, the
10 B to B' cross-section.

11 A. The B to B' is, again, an Atoka Morrow
12 stratigraphic cross-section covering the Chumbley into
13 the Maddox, or Mewbourne now, Spencer Com. in Section
14 9, and the dry hole in the southeast of Section 9.
15 The thing to note on it is that the Lower Morrow "A"
16 channel sand has only a very thin two-foot remnant
17 which is probably a flood stage deposit. We see that
18 also in other wells in the area, but it's a
19 non-productive remnant.

20 Q. The well in the southeast quarter of
21 Section 9 is dry, is that correct?

22 A. Dry and abandoned. It tested a couple of
23 porosity developments, and it was tight and
24 nonproductive.

25 Q. Please move on to Exhibit 8 and discuss

1 pressures in this general area.

2 A. Exhibit 8 is the engineering committee
3 reported pressure data which is shown on Exhibit 8,
4 the shut-in pressure study, in part, to define the
5 various reservoirs we see in the area.

6 If you will look at the pressures reported
7 in the time frame 77 to 79, those pressures will
8 define three distinct regimes of reservoir quality in
9 the area. The one to the south that runs along the
10 south tier of sections is also colored in red. There
11 is a green trend to the west that was middle Morrow
12 sands, and then the channel sand that we're looking
13 for coming down from the northwest or the southeast.

14 Q. So the pressures found in the wells in,
15 say, Sections 19 through 22, are quite a bit different
16 from the pressures found in the Lower Morrow "A"
17 reservoir which you have sketched out on Exhibit 5, is
18 that correct?

19 A. Right. If you look at this 77 to 79
20 pattern, those pressures in 19 through 20 ran from a
21 high of 640 to a low of about 193. That's distinctly
22 different from the pressure we find in Section 15 for
23 that period of about 1,000 pounds to 1,200, 1,100 to
24 1,200 pounds, which is distinct from the pressure that
25 was found in the Yates-Chumbley when they originally

1 drilled it, of almost 2,800 pounds.

2 Q. So in effect what you're saying, Mr.
3 Overton, is that the wells in the Lower Morrow "A"
4 reservoir are producing from a different reservoir
5 than the other wells in the Atoka-Penn pool?

6 A. Right.

7 Q. I would also point out, Mr. Overton, if I
8 read your exhibit correctly, there are actually five
9 pools in this area all producing from the Morrow, and
10 it's kind of hard to tell one from the other, at least
11 from the surface?

12 A. Right. Actually, on this map that we have
13 here, the area covered, we have Eagle Creek Atoka
14 Morrow East pool. We have the West Atoka-Morrow pool,
15 we have the Kennedy Farms Morrow pool, Atoka-Penn
16 Morrow pool.

17 Q. And the Eagle Creek Strawn, right?

18 A. And the Eagle Creek Strawn, right.

19 Q. Thank you. Please move on to the
20 production study marked Exhibit 9.

21 A. The production study is current up through
22 June of 89--

23 EXAMINER CATANACH: I don't seem to have
24 Exhibit 9. Okay.

25 A. The production study is current up through

1 June of 89 for gas and March of 89 for oil. Each
2 well's given cums for that time in both gas and oil.
3 The significant thing on the map is in the immediate
4 area around the proposed location, that Chumbley is
5 the highest producing well, other wells being
6 uneconomic at cumulative production of to
7 approximately a quarter of a Bcf.

8 Q. And in particular, the wells in Sections 4,
9 5, 9 and 16 are all uneconomic?

10 A. Right.

11 Q. Mr. Overton, why, in your opinion, is the
12 unorthodox well location necessary?

13 A. I feel like the unorthodox location gives
14 Mewbourne an opportunity of encountering better than
15 10 foot of this Lower Morrow "A" channel sand, which I
16 feel like is necessary to have a productive, economic
17 well.

18 Q. Do you believe that not only the unorthodox
19 well location but moving the proration unit to the
20 unprorated pool is necessary to give your well a fair
21 chance at competing against the Yates-Chumbley well in
22 Section 8?

23 A. Yes, sir, I do. I believe that by allowing
24 us to move it to the West Atoka-Morrow pool, we will
25 have the advantage of the well's capabilities of

1 producing, setting its allowable, and not the
2 arbitrary stipulations found in the prorated unit, and
3 that would allow us to protect our correlative rights
4 and to produce an equitable share of the reservoir and
5 the gas found in that reservoir.

6 Q. Were Exhibits 5 through 9 prepared by you
7 or under your direction?

8 A. Yes, sir, they were.

9 Q. In your opinion, is the granting of this
10 application in the interest of conversation, the
11 prevention of waste and the protection of correlative
12 rights?

13 A. Yes, sir, it is.

14 MR. BRUCE: Mr. Examiner, I move the
15 admission of Exhibits 5 through 9.

16 EXAMINER CATANACH: Exhibits 5 through 9
17 will be admitted as evidence.

18 EXAMINATION

19 BY MR. CATANACH:

20 Q. Mr. Overton, is it my understanding that
21 the wells in the Atoka-Penn pool are all producing
22 from the middle Morrow? Is that correct?

23 A. No, sir, they don't all produce from the
24 middle Morrow. There are various reservoirs in that
25 area which we can define by pressure. We've

1 interpreted this one to the south as being a barrier
2 bar system, which wraps around and carries quite a
3 large aerial extent to the east/northeast of this
4 area. That has been a very prolific reservoir.

5 Q. So there are some wells in the Atoka-Penn
6 pool producing from the Lower Morrow "A" channel sand?

7 A. Well, not the channel sand but the Lower
8 Morrow sand equivalent with that "A" sand. It's not
9 the channel sand.

10 Q. Is it connected?

11 A. No, sir, I believe the pressure data shows
12 they aren't connected. They're isolated reservoirs.
13 We're showing discontinuities from these pressures as
14 we see, say, comparing Section 15 and Section 20 to
15 the pressure in 1978. And those wells, those cannot
16 be connected. When that pressure regime stays the
17 same, carry them back across to the west of Section
18 22. I feel like we have a reservoir discontinuity
19 which separates these two and creates two different
20 reservoirs across those two sections--between those
21 two sections.

22 Q. You're saying that--

23 A. You can see that again carried up into
24 Section 10, the 77 pressure in Section 10 is about
25 less than 50 percent of the 78 pressure in Section 15.

1 They're stratigraphically equivalent deposits, but I
2 don't feel like they're the same reservoir.

3 Q. In the Division's nomenclature, there's no
4 differentiation between different zones in the Morrow
5 or, in fact, different zones in the Pennsylvanian, is
6 that correct? It's all the same reservoir as far as
7 the Division is concerned?

8 A. Right.

9 Q. What you're saying is, the Lower Morrow "A"
10 channel is a distinct or should be classified as a
11 distinct reservoir from the Atoka-Penn?

12 A. Right.

13 Q. Is that connected to the West Atoka-Morrow,
14 in your opinion?

15 A. That Atoka channel?

16 Q. Right.

17 A. I believe that that deposit trends down
18 through, across the boundary between the two pools
19 that falls on that west line of Section 9, or Section
20 9 and Section 8 abut each other. I think that, yes,
21 it does carry across that boundary of the two fields.
22 But I think you would have to again isolate Section 8
23 from 15 currently because of the high pressure they've
24 gotten after these wells in Section 15 have been there
25 for several years. So you've got another

1 discontinuity in the reservoir, possibly coming across
2 in Section 16.

3 Q. How many wells in the West Atoka-Morrow
4 pool are actually producing from that Lower "A"
5 channel sand?

6 A. The one well in Section 8, the Chumbley.

7 Q. Just the one well?

8 A. Right.

9 Q. As far as competing, that would be the only
10 well you would be competing with to produce the
11 reserves out of that channel, is that one section?

12 A. That's correct.

13 Q. The operator of that well is who, again?

14 A. Yates Petroleum.

15 Q. And Yates is a participant in your well?

16 A. Correct.

17 Q. And they've consented to the unorthodox
18 location?

19 A. That's correct.

20 Q. I notice that on your cross-sections you do
21 show some--an area. Let's go to this other one.

22 At the proposed well site there is some pay
23 in the middle Morrow, is that correct, potential for
24 pay?

25 A. There's a slight potential for that.

1 However, the production from the well that we're
2 comparing that to hasn't been high enough to really be
3 economic, to make anybody's money back on what they
4 spent to drill the well.

5 Q. That zone will obviously be looked at?

6 A. It will obviously be looked at.

7 Q. Is that the same zone that's producing from
8 the Atoka-Penn?

9 A. It's hard to say any of them are the same.
10 The zones are producing in several of the fields.
11 That well is listed in the Atoka-Penn field and it
12 does produce from those zones. However, that's not
13 one of the most prolific wells in the Atoka-Penn.

14 Q. The east half of Section 9 is potentially
15 nonproductive, is that correct?

16 A. That's correct, in my opinion.

17 Q. Mr. Overton, do you have any idea why the
18 Atoka-Penn is prorated, or when was that prorated? I
19 can probably research that.

20 A. No, sir, I really don't.

21 MR. BRUCE: Mr. Examiner, we looked in the
22 books yesterday but could not find the exact date.

23 Q. Is this a very old pool?

24 A. Yes, sir.

25 UNIDENTIFIED SPEAKER: The Atoka-Penn?

1 Probably about 58 or 59, about 320-acre spacing.

2 A. It was probably 58 or 59 when all these
3 wells were drilled. If you'll look at your production
4 map, it gives the years producing on most of those
5 wells in the south, 23 to 29 years, 28 years up to 31
6 years.

7 Q. In your investigation, did you find any
8 good producing wells remaining in that pool?

9 A. No, sir, not currently. They're all pretty
10 well depleted. Not in the pool, total, but in the
11 area that we're dealing with here. I can't say for
12 the whole pool. I didn't research the whole pool. I
13 researched what we're looking at in this map.

14 Q. Would you say in this general area that
15 most of these wells are marginal or classified as
16 marginal in the proration schedule, or--

17 A. I might leave that for the engineer. He'd
18 have a better handle on it than I do.

19 Q. What's the current producing capability of
20 your well in the west half of Section 9, do you know?

21 A. It would probably be 30 Mcf a day or so.

22 Q. As I understand it, Mewbourne will agree to
23 plug that well if the proposed well should come in as
24 a producer?

25 A. Yes, sir, we will.

1 Q. Are there any guidelines that you guys are
2 going to have as to how much you need to be producing
3 out of one well to plug the other well?

4 A. If we can make this one produce anything
5 and run hot, we will plug the other well.

6 Q. What if it's less than 30 Mcf a day? Never
7 mind. To be sure I have this clear in my mind, I
8 understand that the Morrow "A" channel sand that
9 you're going for and is producing in the well in
10 Section 8, do you think that that's effectively
11 isolated from the other wells?

12 A. Yes, sir, I do.

13 Q. Do you think there's any potential for any
14 other wells to produce from that sand?

15 A. That are currently in it? or--

16 Q. Yes, or can be drilled?

17 A. Well, there's a possibility. In Section
18 16, the southeast quarter, the well there has been
19 plugged but it probably had a little potential to
20 produce out of that zone and was not perf'd in it.
21 That was an old Marathon well, I believe, plugged in
22 69.

23 Q. And does the reservoir pressure you've
24 shown along the well in Section 8, can you tell if
25 that's virgin reservoir pressure?

1 A. I think our engineer may be able to testify
2 to that better than I am. That was the pressure that
3 was reported to the engineering--or through the
4 engineering committee book as a surface shut-in
5 pressure.

6 EXAMINER CATANACH: I believe that's all I
7 have for right now, but I may have something else
8 later on.

9 KELLY RYAN

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

12 EXAMINATION

13 BY MR. BRUCE:

14 Q. Would you please state your name and city
15 of residence?

16 A. My name is Kelly Ryan; I live in Tyler,
17 Texas.

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

19 A. I'm operations manager for Mewbourne Oil
20 Company.

21 Q. Have you previously testified before the
22 Division?

23 A. No, I have not.

24 Q. Would you please briefly discuss your
25 education and employment background.

1 A. I obtained a B.S. in petroleum engineering
2 from Oklahoma University and have worked for Mewbourne
3 Oil Company for seven years, five in the field and two
4 in Tyler in my present position.

5 Q. What do your areas of responsibility
6 include?

7 A. Operations, in all three of our districts.

8 Q. As part of that, does that include
9 calculating well economics and matters of that nature?

10 A. That's correct.

11 Q. Are you familiar with the engineering
12 matters related to Case 9862?

13 A. Yes, sir, I am.

14 MR. BRUCE: Mr. Examiner, is the witness
15 acceptable?

16 EXAMINER CATANACH: Yes, sir.

17 Q. Mr. Ryan, following up on some of the
18 Examiner's last questions, would you refer to Exhibits
19 10A and 10B and discuss the pressures in the reservoir
20 of interest?

21 A. These exhibits are area maps with the
22 different colors denoting the different fields the
23 wells are in. The orange wells are the Atoka-Morrow
24 west, and the red is the Atoka-Penn. We have one map
25 that shows initial or first-reported pressures. These

1 are either reported bottom-hole pressures or reported
2 shut-in tubing pressures where I calculated a
3 bottom-hole pressure.

4 You'll see to the southeast of Section 9
5 around 3,600 pounds, 3,650, is about as high as you
6 get, and also to the southwest of Section 9. Current
7 pressures, or the last-reported pressures before the
8 well was plugged, to the southeast, range anywhere
9 from less than 200 to 500, indicating severe drainage
10 in that area, extensive drainage.

11 We have two wells in Section 8 that were
12 put on production in 1988, that show close to 3,600
13 pounds. This area looks to be close or virgin
14 pressure.

15 Q. What does that indicate to you regarding
16 Section 8?

17 A. There's some type of barrier to the
18 southwest and southeast that has prevented
19 communication between the wells.

20 Q. Referring now to Exhibits 11 and 12, would
21 you please discuss the areas drained by the wells
22 which Mr. Overton has described as being within the
23 Lower Morrow "A" channel sand?

24 A. The volumetric calculations were based on
25 well data and production. The map is assuming a

1 homogeneous, almost blanket sand, where you've got
2 radial drainage, which we know we don't have it here,
3 but we're assuming that.

4 As you can see, there are several wells
5 that will drain in very, very small areas. The two
6 wells in 6 and 14 which will cum close to 20 Bcf
7 together, are obviously going to drain a very, very
8 large area. The Chumbley well in Section 8 will also
9 drain a large area, approximately 722 acres,
10 ultimately.

11 Q. Based on the drainage of the Chumbley well,
12 do you believe that Mewbourne, number one, needs the
13 unorthodox location, and, number two, needs relief
14 from the restrictions of prorationing in order to
15 drill a well which can effectively compete against the
16 Chumbley well?

17 A. Yes, I do.

18 Q. Exhibit 12 is just the calculations upon
19 which you transferred to Exhibit 11, is that correct?

20 A. That's correct.

21 Q. One thing on that well, the Dayton State
22 well on the northwest quarter of Section 16, what is
23 the current status of that well?

24 A. The last report I had, it was an inactive
25 well. It made 258 million at that point, which would

1 give a drainage of about 56 acres. On this map I went
2 ahead and I extended its production at a 10-percent
3 decline from where it left off, to get what's shown on
4 the map which is 112 acres, or 513 ultimately, which
5 is being generous with it, assuming it would come back
6 on at a very low rate.

7 Q. Have you reviewed production allowables in
8 the Atoka-Penn pool for the year 1989?

9 A. Yes, I have.

10 Q. Referring to Exhibit 13, what was the
11 average allowable in that pool for a nonmarginal well?

12 A. 7,833 Mcf per month.

13 Q. Roughly, what does that work out to per
14 day?

15 A. About 257 Mcf.

16 Q. How many nonmarginal wells were in that
17 pool?

18 A. There are only about two or three
19 nonmarginal out of approximately 23.

20 Q. Would you please now move on to Exhibit 14
21 and discuss the area which will be drained by the Gin
22 #1 well, if it's drilled and completed in the
23 Atoka-Penn and assuming it is a top-allowable well?

24 A. What I've done is project the production
25 from this point onward, assuming the Gin #1 is drilled

1 and connected, and the first production occurs in 6 of
2 90.

3 The first map labeled A would be for,
4 again, radial drainage. Comparing the Gin #1 and the
5 Chumbley, as you can see the two areas are not really
6 in competition at that time. In 1 of 94, the Chumbley
7 will have drained approximately 482 acres, the Gin #1
8 about 70 acres, and that's where the Gin #1 will start
9 feeling effects from the Chumbley. That will be at
10 the latest.

11 Q. In your opinion, could the Gin #1 well, if
12 it's prorated, then compete with the Chumbley well?

13 A. No, it cannot.

14 Q. If the west half of Section 9 is not
15 transferred to the unprorated pool, in your opinion
16 will Mewbourne's correlative rights be adversely
17 affected?

18 A. Yes, they will.

19 Q. If the Gin #1 well is prorated, and
20 assuming it has a top allowable, approximately what
21 amount of reserves would it recovery?

22 A. It would recover approximately 1.1 Bcf if
23 it's in the prorated field.

24 Q. What would be the approximate payout
25 period?

1 A. In excess of five years.

2 Q. Do these figures meet with Mewbourne's
3 economic guidelines?

4 A. No, they do not. They fall short.

5 Q. Does the geological risk attendant to this
6 well also affect your economic calculations, to some
7 extent?

8 A. That's correct.

9 Q. Now, in your opinion, if the Gin #1 well is
10 not prorated, will it adversely affect the correlative
11 rights in the offsetting units, in particular the east
12 half of Section 9, Section 16 and Section 17?

13 A. No, it will not. The only three interests
14 or wells that it could possibly affect would be one
15 well in Section 9, of which has virtually recovered
16 all its going to, and the two Yates wells in Section
17 8, the Chumbley well which we would be competing with,
18 and Section 16 in which Yates has offered no
19 opposition.

20 Q. Have you also estimated areas of drainage
21 based upon nonradial drainage?

22 A. Yes, I have.

23 Q. Is that shown graphically in Exhibits 15A
24 and 15B?

25 A. Yes, it is.

1 Q. Would you discuss them briefly, please?

2 A. Assuming thge drainage is along the access
3 of the channel of which you would expect there is good
4 porosity and permeability, you can see at this point
5 the Chumbley has drained approximately 300 acres,
6 which is draining into Section 9 and is close to our
7 proposed location. In 1 of 94, estimated drainage
8 would be about 475 acres along that axis, which would
9 go all the way in to Section 9.

10 Q. Does this nonradial drainage aggravate or
11 accentuate the drainage of the west half of Section 9
12 by the Yates-Chumbley well?

13 A. Yes, it does.

14 Q. One final question, Mr. Ryan. To your
15 knowledge, has any operator in the Atoka-Penn pool
16 been having problems with any pipeline connections?

17 A. No, they're not.

18 Q. Were Exhibits 10A through 15B prepared by
19 you or under your direction?

20 A. Yes, they were.

21 Q. In your opinion, is the granting of this
22 application in the interests of conservation, the
23 prevention of waste and, most importantly, the
24 protection of correlative rights?

25 A. Yes, it is.

1 MR. BRUCE: Mr. Examiner, I move the
2 admission of Exhibits 10A through 15B.

3 EXAMINER CATANACH: Exhibits 10A through
4 15B will be admitted as evidence.

5 EXAMINATION

6 BY MR. CATANACH:

7 Q. Mr. Ryan, as I understand it, the wells in
8 Section 15 are producing from the same interval and
9 have been producing for some time. Would you expect
10 to see a pressure drop in Section 8 from those wells
11 if they were connected?

12 A. Yes. With producing 20 Bcf, you're going
13 to be draining a very, very large area.

14 Q. As far as you can tell, you have not seen
15 any pressure drop, it's virtually reservoir pressure
16 that's virgin pressure in Section 8?

17 A. That's correct. You see the well in
18 Section 16, Dayton-Com. that was drilled in 82, and it
19 had close to virgin pressure. You see the well in
20 Section 16 in the southeast quarter, which is, I
21 believe, an error in reporting. It shows 4,200 pounds
22 bottom-hole, but I believe that is an error. You
23 certainly don't see any drainage in it.

24 Q. So you believe that that Morrow Lower "A"
25 channel in Sections 8 and 9 is effectively isolated

1 from anything else?

2 A. Yes. Either by the sand thinning out
3 totally, or possibly by some permeability barrier.

4 EXAMINER CATANACH: I have no further
5 questions of this witness. He may be excused.

6 MR. BRUCE: That's all I have, Mr.
7 Examiner.

8 EXAMINER CATANACH: If I may get Mr.
9 Overton back up here?

10 J. DAVID OVERTON

11 the witness herein, having been previously duly sworn
12 upon his oath, was examined and testified further as
13 follows:

14 EXAMINATION

15 BY MR. CATANACH:

16 Q. Mr. Overton, in your examination, do you
17 find any geologic evidence of a barrier?

18 A. Only from the pressure data.

19 Q. It was your testimony, I believe, that you
20 needed at least 10 feet of net sand in the Morrow "A"
21 to make an economic well?

22 A. Well, essentially the economic well in that
23 area is the Chumbley at 12 feet. Three foot is not
24 economic. The four foot in 16 was not tested. The
25 other one producing out of that interval in Section 5

1 in the southwest quarter is uneconomic.

2 Q. At a standard location in Section 9, about
3 approximately how many feet of sand would you
4 encounter?

5 A. Approximately seven feet.

6 Q. It's your opinion that that would be an
7 uneconomic well?

8 A. I don't believe that would be enough to
9 really afford us a good opportunity. There's a lot of
10 risk, I think, in a reservoir like this; and to drill
11 it we should attempt to get the most we can get, drill
12 it in the thickest section possible.

13 EXAMINER CATANACH: That's all I have. The
14 witness may be excused. Anything further in this
15 case? If not, Case 9862 will be taken under
16 advisement.

17 I'm sorry. I meant to ask you, Mr. Bruce,
18 to provide me a rough draft order for this case,
19 specifically addressing some geological findings.

20 MR. BRUCE: Will do.

21

22

23

24

25

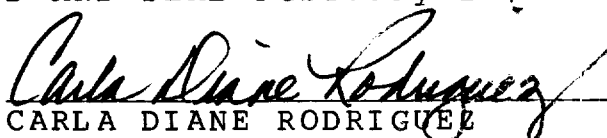
1 CERTIFICATE OF REPORTER

2
3 STATE OF NEW MEXICO)
4) ss.
5 COUNTY OF SANTA FE)

6 I, Carla Diane Rodriguez Certified
7 Shorthand Reporter and Notary Public, HEREBY CERTIFY
8 that the foregoing transcript of proceedings before
9 the Oil Conservation Division was reported by me; that
10 I caused my notes to be transcribed under my personal
11 supervision; and that the foregoing is a true and
12 accurate record of the proceedings.


13 I FURTHER CERTIFY that I am not a relative
14 or employee of any of the parties or attorneys
15 involved in this matter and that I have no personal
16 interest in the final disposition of this matter.

17 WITNESS MY HAND AND SEAL February 20, 1990.

18 
19 CARLA DIANE RODRIGUEZ
20 CSR No. 91

21 My commission expires: May 25, 1991

22
23 I do hereby certify that the foregoing is
24 a complete record of the proceedings in
the Examiner hearing of Case No. 9862,
heard by me on February 7 19 90.

25 , Examiner
Oil Conservation Division