

1 NEW MEXICO OIL CONSERVATION DIVISION

2 STATE LAND OFFICE BUILDING

3 STATE OF NEW MEXICO

4 CASE NO. 10426

5
6 IN THE MATTER OF:7
8 The Application of BTA Oil
9 Producers for simultaneous
10 dedication and to amend
11 Division Order No. R-9009,
12 Lea County, New Mexico.13
14 BEFORE:15
16 MICHAEL E. STOGNER

17 Hearing Examiner

18 State Land Office Building

19 December 19, 1991

20
21
22 REPORTED BY:

23 DEBBIE VESTAL

24 Certified Shorthand Reporter
25 for the State of New Mexico**ORIGINAL**

A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

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Santa Fe, New Mexico 87504

FOR THE APPLICANT:

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BY: WILLIAM F. CARR, ESQ.

I N D E X

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Appearances

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WITNESSES FOR THE APPLICANT:

1. KEITH LOGAN

Examination by Mr. Carr

4

Examination by Examiner Stogner 17, 28

Examination by Mr. Stovall 23

Certificate of Reporter

32

E X H I B I T S

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Exhibit No. 1

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Exhibit No. 2

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Exhibit No. 3

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Exhibit No. 4

15

Exhibit No. 5

16

1 EXAMINER STOGNER: Call the next case,
2 No. 10426, at the bottom of page 1.

3 MR. STOVALL: Application of BTA Oil
4 Producers for simultaneous dedication and to
5 amend Division Order No. -- I think that's
6 R-9009, Lea County, New Mexico.

7 EXAMINER STOGNER: Call for
8 appearances.

9 MR. CARR: May it please the Examiner,
10 my name is William F. Carr with the law firm of
11 Campbell, Carr, Berge & Sheridan, P.A., of Santa
12 Fe. We represent BTA Oil Producers, and I have
13 one witness.

14 EXAMINER STOGNER: Are there any other
15 appearances in this matter?

16 Will the witness, please, stand and be
17 sworn.

18 KEITH LOGAN

19 Having been duly sworn upon his oath, was
20 examined and testified as follows:

21 EXAMINATION

22 BY MR. CARR:

23 Q. Will you state your name for the
24 record, please.

25 A. Keith Logan.

1 Q. Where do you reside?

2 A. Midland, Texas.

3 Q. By whom are you employed and in what
4 capacity?

5 A. BTA Oil Producers as a reservoir
6 engineer.

7 Q. Mr. Logan, have you previously
8 testified before this Division and had your
9 credentials as a reservoir engineer accepted and
10 made a matter of record?

11 A. Yes, I have.

12 Q. Are you familiar with the application
13 filed in this case on behalf of BTA Oil
14 Producers?

15 A. Yes, I am.

16 Q. Are you familiar with the wells that
17 are involved in this case and the subject area?

18 A. Yes, I am.

19 MR. CARR: Are the witness'
20 qualifications acceptable?

21 EXAMINER STOGNER: They are.

22 Q. (BY MR. CARR) Mr. Logan, would you
23 briefly state what BTA Oil Producers seeks with
24 this application.

25 A. We are seeking amendment to Division

1 Order R-9009, which would allow simultaneous
2 dedication to two wells in the south half of
3 Section 34 of 22 South, 34 East, Lea County, New
4 Mexico.

5 Q. What pool will these wells be
6 completed?

7 A. Antelope Ridge-Atoka.

8 Q. What spacing is currently in effect for
9 that pool?

10 A. 320-acre spacing.

11 Q. So you're proposing to simultaneously
12 dedicate a standard unit?

13 A. Correct.

14 Q. This spacing unit and section has been
15 the part of previous Oil Conservation Division
16 hearings, has it not?

17 A. Yes, it has.

18 Q. Could you briefly review for Mr.
19 Stogner the background or the recent history of
20 the efforts to develop Section 34.

21 A. Well, we had a hearing to drill the
22 Maxus "B" No. 3 well, which is in the northeast
23 quarter of Section 34. Originally all that were
24 producing was the Maxus "B" No. 1, the Maxus "B"
25 No. 2 well on the south half of Section 34.

1 At that time the proration units were
2 running, being the east half dedicated to the No.
3 1 well and the west half dedicated to the No. 2
4 well.

5 We asked for re-orientation of the
6 proration units where it would be the north half
7 dedicated to the No. 3 well and the south half
8 dedicated to the No. 2 well. And that was
9 approved, but we did abandon the No. 2 well. So
10 there would only be two wells producing within
11 that section.

12 Q. That case was heard in September of 89,
13 was it not?

14 A. Correct.

15 Q. It was presented to Mr. Stogner?

16 A. That is correct.

17 Q. The order that resulted from that case
18 required that when the No. 3 well in the
19 northeast quarter was completed that the No. 2
20 well be plugged and abandoned; is that right?

21 A. That is correct.

22 Q. Has the No. 2 well been plugged and
23 abandoned?

24 A. It has been temporarily abandoned.

25 Q. Could you explain to Mr. Stogner how it

1 is that the well is not plugged and abandoned but
2 just temporarily abandoned?

3 A. Well, at the time we were looking at
4 possible recompletions, and people from our
5 production department discussed it with Jerry
6 Sexton out of the Hobbs' office asking if a
7 temporary abandonment would be acceptable.

8 He discussed that with Santa Fe, and he
9 called us back and said that would be all right
10 at this time as long as we did not produce the
11 Atoka or the Morrow formation.

12 Q. Since that time has either the Atoka or
13 the Morrow formation been produced at any time?

14 A. No.

15 Q. Has the well been produced at all?

16 A. No.

17 Q. Let's go to what has been marked as
18 Exhibit No. 1, which is a plat dated 12/9/91, and
19 I would ask you to identify that and review it
20 for the Examiner.

21 A. This is a production map showing Atoka
22 and Morrow production in the area of the subject
23 acreage. And what it's showing is, of course, A
24 being the total depth; B being the completion
25 date; you've got C that is the perforated

1 interval, either in the Atoka or in the Morrow;
2 D, current rate; and E being cumulative
3 production.

4 Q. This is basically the map that was
5 presented in the last hearing concerning this
6 section, is it not?

7 A. Right. It's just been updated for new
8 wells drilled in the area.

9 Q. The yellow acreage on Section 34 is the
10 acreage currently dedicated to the No. 1 well?

11 A. That is correct.

12 Q. And that well is at an unorthodox
13 location?

14 A. The No. 1 well?

15 Q. Yes.

16 A. Yes, it is.

17 Q. That was previously approved by the
18 Division?

19 A. Correct.

20 Q. If we look at the No. 1 well, how does
21 it compare in terms of its producing capabilities
22 with wells that are located to the south and the
23 east of it?

24 A. Okay. The No. 1 well is really -- it's
25 not a great producer compared to what we're

1 seeing in the area. If you look to the south,
2 the Maxus "A" No. 1, which is in the north half
3 of Section 3, it has already made 4 Bcf of gas,
4 but it's currently producing 1.2 million a day as
5 compared to the 766 Mcf per day from the Maxus
6 "B" No. 1 in the southeast quarter of 34.

7 Q. If we go to the east in Section 35, how
8 are those wells in comparison to the No. 1?

9 A. Okay. The Maddox Federal No. 1 in the
10 south half of 35, its current rate is only about
11 500 Mcf per day, but it has made 5 Bcf.

12 The best well out here from a current
13 rate standpoint is the "B" No. 2 in the north,
14 northwest quarter -- well, the southwest quarter
15 of the northwest quarter of Section 35. It's
16 currently making two-and-a-half million a day.

17 Q. Let's move to Exhibit No. 2, your
18 structure map, and I would ask you to review that
19 for Mr. Stogner.

20 A. This is, again, very similar to what
21 was presented in the previous hearing, just
22 taking into account new wells in the area.

23 And as I stated before, what we have
24 seen in here, this being a map on the base of the
25 Atoka limestone, is really that the better

1 producers tend to be along the flanks, because
2 the Maxus "B" No. 2 in the southwest quarter of
3 Section 34 is one of the higher wells out there
4 and has been a poor producer when it did
5 produce. But, again, it's been shut in for well
6 over two years.

7 Q. Does structure play a major role in
8 making a successful well in this area?

9 A. No, it does not.

10 Q. Let's go to Exhibit No. 3. Identify
11 that and review it for the Examiner.

12 A. This is a cross-section. Again, all
13 I've done is added new wells in the area.

14 A. Really what I'm trying to show here is
15 you've got the well on the left side of the
16 cross-section, which is the one we are proposing
17 to put back on production.

18 Pay quality, if you look at the
19 perforated interval, porosity was not that
20 great. We think at best it's going to be a
21 marginal well overall.

22 If you continue to the east, you have
23 better pay quality developed in the Oryx Fed.
24 Com. well, which is in the south half of Section
25 27. That well came on pretty strong, but we

1 believe it had one stringer which produced and
2 has not been a very good producer.

3 If you continue to the east to the
4 Maxus "B" No. 3, which was the subject of the
5 last hearing, we had a little bit of porosity
6 developed towards the base of that zone. And,
7 again, it's been a marginal well at best.

8 EXAMINER STOGNER: I'm sorry. Which is
9 the Maxus "B" No. 3.

10 THE WITNESS: 3 is in the north half.
11 It's going to be the third well on the
12 cross-section.

13 EXAMINER STOGNER: No. 3, okay.

14 THE WITNESS: But, see, it just
15 developed in the base and really at this point
16 has been a fairly marginal well.

17 The next well, being the Maxus "B" 1,
18 in the southeast quarter of Section 34 which is
19 currently making 760 Mcf per day, had more
20 porosity developed. It will be, by far, of the
21 three the best well in that section, but it is --
22 it's not a great producer or has not been.

23 Continuing east, the best well we're
24 seeing from a current-rate standpoint is the
25 Maddox Federal "B" No. 2. That's the one in the

1 north half of Section 35. And it is currently
2 making two-and-a-half million a day and has
3 already made 4 Bcf.

4 Then the Maddox Federal No. 1 in the
5 south half of 35, it has been a good Atoka
6 producer, but its rate has dropped off quite a
7 bit but has already made 5 Bcf of gas. As you
8 can see, where the perforated interval is, the
9 porosity was very well developed there.

10 The Maddox Federal "B" No. 1 was never
11 produced out of the Atoka formation. We've
12 already got the Maddox "B" 2 in that north half
13 of 35. It is the Atoka producer in the Maddox
14 "B" 1. It really did not have any porosity
15 developed.

16 Okay. A new well that's been drilled
17 since that last hearing has been the Ojo Chiso
18 No. 2, which is in the south half of Section 26,
19 and it did have some porosity developed. It's
20 going to make -- I haven't made an estimate yet,
21 but it's making 1.2 million a day and had a
22 fairly thick Atoka limestone developed.

23 And what we're seeing, as you continue
24 east to the Phillips Merchant well, again in the
25 south half of Section 26, really had very little

1 limestone developed. It appeared to have more
2 shale than anything in the correlative interval
3 and just was not -- it was a dry hole.

4 Q. (BY MR. CARR) Mr. Logan, what does
5 this cross-section tell you about the producing
6 strings across this portion of the reservoir?

7 A. Well, they can vary dramatically. But
8 what I'm seeing is when you get on the western
9 side of this and high, they are not -- they don't
10 develop the porosity. That's why I feel like the
11 Maxus "B" 2 at best will be a marginal producer.

12 Q. Why are you now coming to the Oil
13 Commission and requesting authority to come back
14 and put the No. 2 well back on production?

15 A. Well, because what I'm seeing in the
16 area, for example, in the Maxus "B" No. 1 has a
17 shut-in tubing pressure in the neighborhood of
18 1400 pounds. And what we've seen, the Maxus "B"
19 2, when we shut it in upon completion of the B
20 No. 3, after eight days of shut-in, it had 2900
21 pounds. And in October we got some more
22 information on that, and it had built up to 40-,
23 almost 4900 pounds.

24 Q. What does this pressure tell you about
25 the No. 2 well?

1 A. Well, it makes me think there's a good
2 possibility there are additional reserves that
3 will not be recovered unless we're allowed to
4 produce the Maxus "B" No. 2.

5 Q. In your opinion will being able to
6 return this well to production therefore prevent
7 waste of hydrocarbons?

8 A. Yes.

9 Q. Do you believe it will impair the
10 correlative rights of any interest owner in the
11 area?

12 A. No.

13 Q. Have you approached the individual
14 interest owners that offset you concerning this
15 proposal?

16 A. Yes.

17 Q. Could you identify what has been marked
18 as BTA Exhibit No. 4?

19 A. Exhibit No. 4 is the application and
20 waiver form sent to the offset operators.

21 Q. And you've got how many of them, four
22 of them?

23 A. Four of them.

24 Q. Do you have a copy of each of the
25 letters there?

1 A. Yes, I do.

2 Q. Have all of the operators that offset
3 this spacing unit waived objection to this
4 proposal?

5 A. Yes, they have.

6 Q. There is one condition on one by
7 Pacific Enterprises, is there not?

8 A. Pacific Enterprises has stipulated
9 approval if we do not produce more than 500 Mcf
10 per day in any one month.

11 Q. Now, where is Pacific Enterprises'
12 acreage located in regard to your wells?

13 A. They've got acreage in Section 4.

14 Q. And is it agreeable to BTA to impose
15 that sort of production limit on the No. 2 well
16 if it is returned to production?

17 A. Yes, it is.

18 Q. And you're recommending that?

19 A. Yes, I am.

20 Q. And this field is not a prorated field,
21 is it?

22 A. No, it is not.

23 Q. Is Exhibit No. 5 a copy of an affidavit
24 with attached notice letters and return receipts
25 confirming that notice of today's hearing has

1 been given to all offsetting operators?

2 A. Yes, it is.

3 Q. In your opinion will approval of this
4 application result in recovery of hydrocarbons
5 that otherwise may not be recovered?

6 A. Yes, it will.

7 Q. Will it otherwise be in the best
8 interest of conservation and the protection of
9 correlative rights?

10 A. Yes.

11 Q. Were Exhibits 1 through 5 either
12 prepared by you or have you reviewed them and can
13 you testify as to their accuracy?

14 A. Yes, I can.

15 MR. CARR: At this time, Mr. Stogner,
16 we would move the admission of BTA Exhibits 1
17 through 5.

18 EXAMINER STOGNER: Exhibits 1 through 5
19 will be admitted into evidence at this time.

20 MR. CARR: That concludes my direct
21 examination of Mr. Logan.

22 EXAMINATION

23 BY EXAMINER STOGNER:

24 Q. What kind of stimulation work was done
25 on both these wells in the south half of this

1 section?

2 A. They have all had approximately 5,000
3 gallons of acid.

4 Q. Is that the normal stimulation
5 procedure out there in this Atoka area?

6 A. That's typically what we've done. And
7 we, of course, have operated a lot of wells in
8 this field, in the Atoka and also in the Morrow.

9 Q. Forgive me on my history here. The
10 first well in Section 34 was the No. 2 well?

11 A. No. The No. 1 well.

12 Q. The No. 1 well?

13 A. Southeast quarter.

14 Q. That was drilled in 1987?

15 A. Right.

16 Q. And then the No. 2 was the second one;
17 right?

18 A. Right. Originally the proration units
19 were the south half and the north half. And
20 Diamond Shamrock or Maxus drilled the No. 1 well,
21 and then -- it being an unorthodox location. And
22 then they asked that the proration units be run
23 north, the east half and the west half, so that
24 would allow them to drill the No. 2 well.

25 And then before we drilled the No. 3

1 well, we asked that the proration units be the
2 north half and the south half.

3 Q. During the short time in which the No.
4 1 and No. 2 well produced at the same time, was
5 there any indication as far as production history
6 that there was communications between the two
7 wells?

8 A. I have not seen any.

9 Q. Okay. Now, you mentioned some
10 pressure, initial pressures earlier, and I'm
11 sorry, I wasn't following through on that.

12 A. Well, I mentioned some current
13 pressures. What we're seeing in the "B" No. 1 in
14 the southeast of 34, this year the pressure we
15 got was approximately 1400 pounds shut-in tubing
16 pressure.

17 And when the "B 2" was shut-in, I don't
18 know the approximate date of that, but it would
19 have been the same time that the No. 3 was
20 completed, so early 1990. After eight days of
21 shut-in, it had built up to 2900 pounds. And
22 later this year we've seen the pressure of almost
23 4900 pounds.

24 Q. What was the virgin reservoir pressure
25 out here; do you know?

1 A. The virgin reservoir pressure was in
2 the neighborhood of 7,000 pounds. It was well
3 over-pressured out here.

4 Q. What would the effect be out there in
5 this well or in the south half of this section if
6 both wells were produced but not simultaneously,
7 maybe one producing one month and the next
8 producing the next month? Would that be
9 economically feasible, which is allowed at this
10 point?

11 And I refer to -- I forgot the
12 memorandum number, Mr. Carr, but you're familiar
13 with the one I'm thinking about.

14 MR. CARR: Yes.

15 THE WITNESS: I guess that would be a
16 consideration at this point.

17 Q. (BY EXAMINER STOGNER) This is the
18 first application since that memorandum has come
19 out back in 1989?

20 A. Yes, sir.

21 Q. And, I'm sorry, I don't have the
22 memorandum number. That essentially said only
23 one well in a nonstandard -- I'm sorry, in a
24 non-prorated proration unit.

25 Do you know if there's any other

1 proration units within this pool that has had --
2 that has had or has two wells producing from it
3 grandfathered in before that memorandum came out?

4 A. I don't know of any, and I've looked at
5 this area for quite some time.

6 MR. STOVALL: I'll go get that memo and
7 incorporate it into the record.

8 MR. CARR: We may have a copy of that
9 memo here in the file somewhere.

10 EXAMINER STOGNER: Does Citation
11 propose any perforations or any additional
12 stimulation for either of these wells?

13 MR. STOVALL: BTA you mean?

14 EXAMINER STOGNER: What did I say?

15 MR. STOVALL: Citation.

16 EXAMINER STOGNER: Oh, that was the
17 last case.

18 MR. STOVALL: Here's the memo to which
19 you have referred, dated August 3, 1990, I
20 believe, Mr. Examiner.

21 Q. (BY EXAMINER STOGNER) Am I to
22 understand that the perforated intervals between
23 the No. 1 and the No. 2 are slightly different,
24 or are we talking about lenses out here that are
25 noncontiguous, or what's the profile?

1 A. Well, you do see definitely different
2 porosity zones developed. It just happens the
3 No. 2 well had that very clean limestone
4 developed, but it had very little porosity. And
5 in the "B" 1, you really had more porosity
6 developed.

7 It's, I'd say, roughly the same
8 interval but within this field you do see
9 different porosity zones developed that are not
10 in communication.

11 Q. Give me a geological profile of what
12 causes that. I'm just not grasping it here
13 today.

14 MR. STOVALL: Spent too long in
15 Florida, Mr. Stogner.

16 THE WITNESS: Well, I think it really
17 depends on how much limestone is developed. If
18 you go from the "B" No. 1 and you go to the Sun
19 Fed. Com., you see that the overall interval of
20 limestone has thickened. And in that you do have
21 porosity developed within different stringers of
22 that limestone.

23 Now, you do have the interval on the
24 "B" 1 at 12 -- well, 12-120 that's very clean
25 and that looks correlative to what was perforated

1 in the Sun Fed. Com. that's going from No. 1 to
2 No. 2.

3 But then as you see, you had other
4 limestone intervals developed that were not
5 developed at all in the "B" 1, I mean had no
6 porosity whatsoever, and really looked slightly
7 dirty in places.

8 MR. STOVALL: Mr. Stogner, do you mind
9 if I ask Mr. Logan a question?

10 EXAMINER STOGNER: Please.

11 EXAMINATION

12 BY MR. STOVALL:

13 Q. To get real direct, the focus of the
14 memo, there's provision in the memo in which
15 we've referred to and taken notice of that
16 provides in these unprorated gas pools if there
17 are two wells, they'll be produced in alternate
18 months; that two wells won't produce at the same
19 time.

20 And then it has a provision which says
21 that after notice and hearing, which of course
22 we've satisfied, they can be produced
23 simultaneously and continuously with a showing
24 that correlative rights would be impaired if they
25 are not allowed to do so.

1 Do you feel that BTA's correlative
2 rights, that is the right to produce the gas
3 underlying your tract, may somehow be impaired if
4 you're not allowed to continuously and
5 simultaneously produce both wells in this
6 proration unit?

7 A. No, I really don't.

8 Q. In other words, you could produce them
9 alternately and still get all the gas under the
10 unit; is that what you're saying? I mean is that
11 your opinion, that you could?

12 A. I believe we probably could.

13 Q. Okay.

14 A. The point I was wanting to make was
15 with the limitation on production of 500 Mcf per
16 day, I don't see us producing more than 1.3
17 million a day out of that unit. And I see wells
18 on 320-acre spacing making more than that
19 offsetting it. That was really the point I was
20 trying to make with the production limitation.

21 Q. I'm not challenging you. What you're
22 saying is you don't want to impair anybody else's
23 correlative rights by producing both wells;
24 right? That's more the thrust of that particular
25 analysis?

1 A. Right.

2 Q. And I guess I'm asking you the other
3 side. Is it necessary -- and I think you've
4 answered it -- to produce them both to protect
5 your own? What about economically, what about
6 the cost of operation? What would the effect be
7 on operational cost to produce them alternately,
8 in alternate months?

9 A. Well, what we've seen in the area, and
10 in fact I would make a point of the well in the
11 south half of 35, the Maddox Federal No. 1, in
12 1987 we got approval to exempt that from
13 reporting shut-in pressures because the recovery
14 to put the well back on line in its stage of
15 depletion was difficult. And it took, you know,
16 well over a week or two to even get it back to
17 where it was before, you know, after you shut it
18 in.

19 Q. Have you had the opportunity to test or
20 experience similar problems in the two wells
21 involved here, the 1 and the 2?

22 A. Well, we have not done any -- we are
23 not testing the No. 2 well.

24 Q. I mean, you've had it shut in for a
25 long time.

1 A. Correct. We don't know what it will
2 do.

3 Q. Have you shut in the No. 1 at any time
4 and had any problem getting it back on?

5 A. Not that I'm aware of.

6 Q. You're saying that by comparison or
7 analysis it could exist because it has happened
8 in other wells in the field nearby?

9 A. Correct. I mean the due east offset of
10 the "B" 1 in the southeast of 34.

11 Q. What are the pressures in that well; do
12 you know? Are they in the similar range?

13 A. They are in the similar range as the
14 "B" 1.

15 Q. So conceivably there could be a problem
16 in recovering your reserves if you have to
17 alternately shut these wells on and off?

18 A. Correct.

19 Q. I take it from what you're saying,
20 there's not a real water problem?

21 A. It's not a water problem, no. It's
22 just the stage of depletion that we're seeing,
23 just taking time to recover back to where you
24 were before you shut it in.

25 Q. At the risk of getting into engineering

1 that's way beyond my -- and I've been known to do
2 that before -- would it be true that it would, in
3 effect, if you produced one well more than the
4 other, that what you're asking that gas to do is
5 go back and forth like this, if there's any
6 communication?

7 A. If there is any communication, yes, or
8 direct communication.

9 Q. And you say you don't know whether
10 there's any?

11 A. No, I don't. I'm just going by the
12 information I have, and it tells me there's a
13 good chance that there are reserves from the "B"
14 2 that will not be recovered from the "B" No. 1.

15 Q. So if I -- again, please tell me if I'm
16 making some incorrect assumptions based upon what
17 you're saying -- but one of two things could be
18 occurring. They could be producing from different
19 porosity zones, in which case there wouldn't be
20 the communication, but neither well would recover
21 all the gas. Or if they're producing from the
22 same porosity zone which is connected
23 geologically, they could act against each other
24 if they had to go on and off alternately?

25 A. Correct.

1 MR. STOVALL: Okay. I think I'm in
2 deep enough. I'll quit now while I'm ahead.

3 FURTHER EXAMINATION

4 BY EXAMINER STOGNER:

5 Q. You said the No. 1 well on the south
6 half of 35, you had permission to waive the
7 pressure test?

8 A. Yes.

9 Q. How long has that been in effect?

10 A. It was 1987 that it was approved.

11 Q. So 1987 was the last time the well has
12 been shut in for any kind of test or production?

13 A. Well, if it was shut in, it was due to
14 a pipeline or compressor problem, but I don't
15 have that data with me. I'm not sure when it has
16 been shut in since that time. But I was unable
17 to get any additional information pressure-wise
18 on that well.

19 Q. Do you have any waivers on any of the
20 other wells for this pressure testing?

21 A. No. That is the only one out of the
22 Atoka anyway, and that's what we're addressing
23 here, of course.

24 Q. Do you have any specifics as far as the
25 Atoka because you mentioned your slow recovery

1 rate. Any other specific examples in the
2 offsetting wells of the Atoka?

3 A. Not that I know of.

4 MR. STOVALL: In other words, the other
5 Atoka wells you've been able to shut them in and
6 take the pressure tests and put them back on
7 production.

8 THE WITNESS: Right.

9 Q. (BY EXAMINER STOGNER) On the No. 2
10 well what was the last production rates before
11 that was shut in?

12 A. It was 325 Mcf per day.

13 Q. Do you remember what the initial rate
14 was?

15 A. No, I really don't. Of course, we
16 didn't operate that well at the time.

17 Q. Have you had any interruption in the
18 No. 1 well since it's been producing or know of
19 any or have any records?

20 A. I know it's had a shut-in tubing
21 pressure every year as required by the
22 Commission. And the last one I saw was about
23 1600 pounds.

24 Q. But the production rate came back
25 on-line --

1 A. Yes, it did.

2 Q. -- without any interruption?

3 Is there any condensate production from
4 either of these wells or history of it?

5 A. A lot of those wells out there started
6 out with a fairly high condensate-to-gas ratio,
7 but as time went on, of course, it has dropped.
8 Condensate is not -- as you see the current rate
9 on "B" No. 1 is 766 Mcf a day and 5 barrels of
10 oil.

11 Q. And you haven't seen any instances of
12 watering out in this gas pool?

13 A. No, I have not, not until you get far
14 east here and you're really down-structure, and
15 then you can have water problems. But I don't
16 see that being a problem in here.

17 Q. Has there been any dry Atoka wells or
18 holes to the west? I see this as probably the
19 furthest west producing well in this pool or --

20 A. As far as Atoka goes, really going
21 west, you don't have any Atoka production in this
22 area. You have to go southwest if you're to find
23 any Atoka production, and there's very little. I
24 mean that -- I don't know if this map would --

25 Q. I guess, what's the furthest west

1 extension of this reservoir?

2 A. It would have to be quite a bit south
3 of here to have anything to the west. I think
4 there's a well down in Section 28 that produced
5 from the Atoka.

6 If you go due south, you have wells in
7 Section 10 that produced, or one that produced.
8 And then in Section 15 that's off the map, you
9 have two Atoka producers.

10 EXAMINER STOGNER: Are there any other
11 questions of this witness? If not, he may be
12 excused.

13 Anything further in this case?

14 MR. CARR: Nothing further.

15 EXAMINER STOGNER: Does anybody else
16 have anything further in Case No. 10426?

17 This case will be taken under
18 advisement.

19 (The proceedings were concluded.)

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I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 10426,
heard by me on 19 December 1991.

 , Examiner
Oil Conservation Division

CERTIFICATE OF REPORTER

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

I, Debbie Vestal, Certified Shorthand Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I caused my notes to be transcribed under my personal supervision; 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 DECEMBER 26,
1991.


DEBBIE VESTAL, RPR
NEW MEXICO CSR NO. 3