

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:)
APPLICATION OF PENWELL ENERGY, INC.,)
FOR COMPULSORY POOLING, EDDY COUNTY,)
NEW MEXICO)

CASE NO. 11,992

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

June 25th, 1998

Santa Fe, New Mexico

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OIL CONSERVATION DIV

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, June 25th, 1998, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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 Examiner Hearing
 CASE NO. 11,992

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* * *

1 you live.

2 A. Mark Wheeler, Midland, Texas.

3 Q. And by whom are you employed?

4 A. Penwell Energy, Incorporated.

5 Q. What do you do for Penwell?

6 A. I'm land manager.

7 Q. Have you previously testified before this
8 Division?

9 A. Yes, I have.

10 Q. When you previously testified, were your
11 credentials as a petroleum landman accepted and made a
12 matter of record?

13 A. Yes, they were.

14 Q. Are you familiar with the Application filed in
15 this case on behalf of Penwell?

16 A. Yes, I am.

17 Q. Are you familiar with the status of the lands in
18 the subject area?

19 A. Yes.

20 MR. OWEN: Mr. Examiner, are the witness's
21 qualifications acceptable?

22 EXAMINER CATANACH: They are.

23 Q. (By Mr. Owen) Mr. Wheeler, why don't you tell us
24 what Penwell seeks with this Application?

25 A. Penwell seeks an order pooling all minerals from

1 the surface to the base of the Wolfcamp formation
2 underlying the southeast quarter, southwest quarter of
3 Section 19, Township 18 South, Range 31 East, Eddy County,
4 New Mexico, forming a standard 40-acre oil spacing and
5 proration unit.

6 Q. Which well are you going to dedicate this acreage
7 to?

8 A. Penwell's West Shugart 19 Federal Number 1 well,
9 which is to be drilled at a standard location 1980 feet
10 from the west line and 660 feet from the south line of said
11 Section 19.

12 Q. All right, Mr. Wheeler, let's go ahead and take a
13 look at Penwell Exhibit Number 1. The sticker is on the
14 back of the exhibit there. Why don't you review this
15 exhibit for the Examiner?

16 A. This is an ownership map of the area, enlarged to
17 show the 40-acre proration unit, which we seek the order
18 for in the southeast quarter, southwest quarter of Section
19 19, showing the well location, showing the ownership in the
20 area, and also outlined in diamond shapes to the south in
21 Section 33, wells that Penwell has drilled in Section 30.

22 Q. Are those also Wolfcamp wells?

23 A. Two of the wells -- The two in the west half are
24 Wolfcamp, the well in the east half is a Morrow producer.

25 Q. Okay. What is the primary objective of the

1 proposed well in this case?

2 A. A 10,300-foot Wolfcamp producer.

3 Q. Is the Wolfcamp the primary objective in this --

4 A. Yes, it is.

5 Q. Okay. Let's go ahead and turn to the ownership
6 breakdown requested on Exhibit Number 2. Would you please
7 review that exhibit for the Examiner?

8 A. This shows the working interest ownership of the
9 southeast southwest of Section 19, as to right below 3900
10 feet subsurface. Penwell and partners have 27 percent of
11 this 40 acres, and Canadian Kenwood company owns the
12 remaining 73 percent.

13 Q. Does Penwell have 27 percent by itself?

14 A. No, we have two other working interest owners
15 with us.

16 Q. Is 27 percent the total amount -- percentage of
17 ownership that you have voluntarily committed to the well?

18 A. Yes, it is.

19 Q. All right. Are you going to call an engineering
20 witness to review the AFE charges for the proposal?

21 A. Yes, I will, Mr. Bill Pierce.

22 Q. Okay. Why don't we turn to -- Well, why don't
23 you just briefly summarize the efforts made by Penwell to
24 obtain a voluntary joinder?

25 A. We forwarded an AFE on April the 9th to Tina Hall

1 at Canadian Kenwood Company. We've heard nothing from
2 Canadian Kenwood for approximately -- close to two months.
3 It was toward the end of May, the first part of June, that
4 I gave Mrs. Hall a call and asked what they were going to
5 do on the well.

6 She said they were not wanting to participate and
7 would possibly consider farming out, but the farmout terms
8 that they presented to us were too onerous for us to
9 consider.

10 Q. And is Exhibit Number 4 [sic] a copy of the
11 letter that you sent to Ms. Hall with the copy of the
12 actual AFE that you sent to her attached?

13 A. Yes, it is.

14 Q. Okay. And Mr. Pierce is going to review the
15 charges on that AFE for us?

16 A. Yes, he will.

17 Q. All right. Mr. Wheeler, in your opinion has
18 Penwell made a good-faith effort to locate and obtain the
19 voluntary joinder of all interest owners in the proposed
20 spacing unit?

21 A. Yes.

22 Q. All right. Have you made an estimate of the
23 overhead and administrative costs to be incurred while
24 drilling and operating the well?

25 A. Yes, we have. For a drilling well \$6562 per

1 month, and for a producing well \$659 per month.

2 Q. How did you arrive at these figures?

3 A. We used the Ernst and Young 1995 survey and
4 adjusted according to the percentages that have been handed
5 out by Ernst and Young since the 1995 publishing.

6 Q. Have those been updated through 1998?

7 A. Yes, they have.

8 Q. Okay. Are these costs in line with what is being
9 charged by other operators in the area?

10 A. Yes, they are.

11 Q. Do you recommend that these figures be
12 incorporated into the order --

13 A. Yes.

14 Q. -- which results from this hearing?

15 A. Yes.

16 Q. All right. Let's look at Penwell Exhibit Number
17 4. Is that exhibit an affidavit with an attached letter
18 confirming that notice of this Application and the hearing
19 has been provided in accordance with OCD rules?

20 A. Yes, it is.

21 Q. Is Penwell also going to call a technical witness
22 to testify about the risk associated with this well?

23 A. Yes, sir, Mr. John Thoma.

24 Q. All right, Mr. Wheeler, were Penwell Exhibits
25 Numbers 1 through 4 prepared by you or compiled under your

1 direction?

2 A. Yes, they were.

3 Q. And finally, do you have any deadlines on the
4 drilling of this well?

5 A. Yes, we're required under the farmout that we
6 have, term assignment that we have on the 27 percent, to
7 spud this well on or before August 30th of this year.

8 Q. Do you request that the order in this case be
9 expedited?

10 A. Yes, we do.

11 Q. Be placed ahead of all the other cases on the
12 docket this morning?

13 A. That would be great.

14 MR. OWEN: Okay. All right, Mr. Wheeler.

15 Mr. Examiner, I offer Exhibits Numbers 1 through
16 4.

17 EXAMINER CATANACH: Exhibits 1 through 4 will be
18 admitted as evidence.

19 MR. OWEN: That's all that I have for this
20 witness at this time.

21 EXAMINER CATANACH: Mr. Bruce?

22 EXAMINATION

23 BY MR. BRUCE:

24 Q. Mr. Wheeler, is Exhibit 3 the only letter you
25 sent to Canadian Kenwood Company?

1 A. Yes, it is.

2 Q. And how many times did you call Canadian Kenwood?

3 A. I believe we had two conversations after -- I
4 called her first. It may have been three. She called me
5 back, and I may have called her back a third time, but...

6 Q. Did you ever send a JOA to Canadian Kenwood?

7 A. No, we did not.

8 Q. Now, you said -- did they -- Did Canadian Kenwood
9 verbally propose farmout terms to you?

10 A. She said that they would consider selling a term
11 assignment or potentially a farmout to us, but -- The terms
12 that we had bought down in Section 30, on the acreage that
13 we've drilled in the west half of Section 30, we had bought
14 a term assignment from them previously, and this time they
15 were wanting significantly higher terms and significantly
16 lower net revenues for us, and we felt like the terms were
17 too onerous, given the results that we've had out there.

18 Q. So you did get a farmout from them, on what
19 acreage in Section 30 --

20 A. We had a term assignment from them on the west
21 half of -- I'm sorry, the southwest quarter of Section 30.
22 They don't have an interest in the northwest, just the
23 southwest.

24 Q. And you never countered their proposal --

25 A. We --

1 Q. -- on Section 19?

2 A. We talked about it on the phone a little bit, and
3 I told Ms. Hall that we would perhaps be interested in a
4 similar term assignment that we did in Section 30. She
5 said they would not be interested in doing that. So we
6 never were able to reach an agreement as far as any kind of
7 terms.

8 Q. Now, Canadian Kenwood has 73 percent of this
9 well, correct?

10 A. Yes, sir.

11 Q. And Penwell is willing to -- If Canadian Kenwood
12 does not join in this well, Penwell and its partners will
13 pay that 73 percent of the well costs?

14 A. Yes, sir.

15 MR. BRUCE: Okay. That's all I have, Mr.
16 Examiner.

17 EXAMINATION

18 BY EXAMINER CATANACH:

19 Q. Mr. Wheeler, you've already reached an agreement
20 with two other working interest owners?

21 A. Well, they are our partners in the prospect.
22 They've drilled the other three wells with us. They're not
23 like Canadian Kenwood; they don't have an outside
24 ownership. They've participated with us in all of the
25 wells, and they are committed to drilling this well with

1 us.

2 EXAMINER CATANACH: Okay.

3 MR. CARROLL: Who is that?

4 THE WITNESS: McNick Oil and Gas, which is a
5 subsidiary of MCN Corporation, who is our funding partner,
6 and S and P Company out of Shreveport, Louisiana.

7 Q. (By Examiner Catanach) You don't anticipate
8 being able to reach a voluntary agreement with Canadian
9 Kenwood?

10 A. Not at this time. The farmout and term-
11 assignment terms that have been discussed have been too
12 onerous, in our opinion, to pursue, and they are not
13 willing -- or according to conversations I've had, they are
14 not willing to participate with their interest. So I don't
15 anticipate being able to reach voluntary agreement.

16 EXAMINER CATANACH: Okay, I have nothing further.

17 FURTHER EXAMINATION

18 BY MR. OWEN:

19 Q. Mr. Wheeler, did you receive a written farmout
20 proposal from Canadian Kenwood?

21 A. No, I did not.

22 Q. Okay. Do you anticipate receiving signed AFEs
23 from your partners in this well?

24 A. Yes.

25 MR. OWEN: Okay. I have nothing further for this

1 witness and ask that he be excused, Mr. Examiner.

2 EXAMINER CATANACH: Okay.

3 MR. OWEN: At this time I'd like to call John
4 Thoma.

5 JOHN THOMA,

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

8 DIRECT EXAMINATION

9 BY MR. OWEN:

10 Q. Mr. Thoma, why don't you tell us your name and
11 spell your last name for the record?

12 A. John Thoma, T-h-o-m-a.

13 Q. And where do you live?

14 A. Midland, Texas.

15 Q. And where do you work?

16 A. Penwell Energy.

17 Q. What do you do for Penwell?

18 A. I'm a -- the geological manager.

19 Q. How long have you been with Penwell?

20 A. Approximately two and a half years.

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

23 A. Yes, I have.

24 Q. At that time were your credentials as a petroleum
25 geologist accepted and made a matter of record?

1 A. Yes, they were.

2 Q. Are you familiar with the Application filed in
3 this case on behalf of Penwell?

4 A. Yes.

5 Q. Have you made a geologic study of the area
6 surrounding the proposed well?

7 A. Yes, I have.

8 Q. Are you prepared to share the results of that
9 study with the Examiner?

10 A. Yes.

11 MR. OWEN: Mr. Examiner, are the witness's
12 qualifications acceptable?

13 EXAMINER CATANACH: Mr. Thoma is so qualified.

14 Q. (By Mr. Owen) Mr. Thoma, have you prepared any
15 exhibits for presentation in this case?

16 A. Yes, four exhibits.

17 Q. Okay.

18 A. Actually five.

19 Q. I think your first exhibit is a Wolfcamp
20 structure map, Exhibit Number 5, with the exhibit sticker
21 again on the back. Would you review that exhibit for the
22 Examiner, please?

23 A. Yeah, Exhibit Number 5 is a structure map drawn
24 on the top of the Wolfcamp formation.

25 Shown in yellow with the blue diamond is the

1 proposed proration unit and location for the subject well
2 of this hearing.

3 The wells that Penwell has drilled to date in
4 this area are shown with the green circles just south of
5 the proposed location in Sections 30 and 29 of 18 South, 31
6 East.

7 The two wells in the west half, as Mr. Wheeler
8 indicated, are Wolfcamp producers. The first well was
9 drilled in the southeast of the northwest quarter. That
10 was drilled to the Morrow. The Morrow was not commercial,
11 and we plugged back to the Wolfcamp and are currently
12 producing the Wolfcamp.

13 The well in the northeast of the southwest
14 quarter was drilled to the Wolfcamp and completed in the
15 Wolfcamp and is currently producing there.

16 The well in the southeast of the northeast
17 quarter was drilled to the Morrow formation, is completed
18 and producing from that zone. The Wolfcamp is potentially
19 behind pipe in that well.

20 The well in the northeast of the southwest of
21 Section 29 was drilled to the Morrow formation. The Morrow
22 was nonproductive. We tested the Wolfcamp in that well; it
23 was also noncommercial. And we are currently production-
24 testing in the Bone Spring section in that well.

25 The two arrows or red lines that you see

1 traversing the map from the north to the south across
2 Section 30 and the west half of 29 are two -- the two
3 directions of deposition in the lower Wolfcamp formation.

4 The contour interval on this map is 100 feet and
5 shows dip from the north to the south, with a fairly
6 substantial syncline drawing up through the proposed
7 location and the productive locations in Sections 19 and
8 30, respectively.

9 Q. Based on that geologic study, is it your opinion
10 that structure is important in determining whether or not
11 you're going to make a productive well in this location?

12 A. It's not critical in terms of water production,
13 as the two wells we have in Section 30 produce no water
14 currently from the Wolfcamp. So we have not encountered a
15 water leg in the Wolfcamp from the producing zones in
16 Section 30.

17 I'll show a cross-section in a moment that
18 includes the well in 29. The well in 29 does not have the
19 same zones present that are producing in Section 30. It
20 had an upper Wolfcamp carbonate zone in it that was wet.
21 It was largely wet. And possibly development off of that
22 well would require getting upstructure.

23 But as you'll see in the subsequent exhibits,
24 that particular reservoir is not prospective at the
25 proposed location.

1 The relevance of this structure map, in my
2 interpretation, is that I believe the syncline that you're
3 seeing, drawing up through Section 30 and 19, focused the
4 deposition of the reservoirs in that area. It provided a
5 pathway for deposition.

6 These are -- The reservoirs, productive
7 reservoirs, that is, are basinal slope carbonate turbidite
8 deposits, and as such they're going to be seeking the path
9 of -- well, the deepest paths into the basin. The lowest
10 areas, they'll be preferentially deposited in those areas.

11 And so the low that we see illustrated by this
12 map, to me, is in part what I'm using to orient and project
13 the geometry of the reservoir that we're chasing.

14 Q. All right, let's go ahead and go to the cross-
15 section that you're referring to, which is marked as
16 Penwell Exhibit Number 6. You've got these others --
17 producing Wolfcamp wells in the area. Are those wells
18 reflected on this cross-section?

19 A. Right, the exhibit -- Yeah, Exhibit 6, cross-
20 section C-C', is a structural cross-section through each of
21 our wells. It starts off in the southwest quarter of
22 Section 30, in the 30 Federal Number 9 well, runs one
23 location, one 40-acre proration unit, north into the 30
24 Federal Number 1, from there turns east into the 30 Federal
25 Number 10, and from there southeast into the 29 Federal

1 Number 1.

2 And there are several points of illustration on
3 this cross-section.

4 One, the structure map is drawn on the top of the
5 Wolfcamp formation, as noted with the brown shading at the
6 top of the cross-section.

7 The cross-section is a structural cross-section
8 hung on a datum of 6000 feet.

9 It also depicts, further down into the Wolfcamp,
10 the various reservoir sections as I've correlated them
11 through these wells.

12 There are five different reservoir sections in
13 the Wolfcamp, starting at the base with the 'AF' carbonate.
14 That is the zone which is productive in the Number 9 and in
15 the 30 Federal Number 1 well.

16 The 'AE' carbonate is not productive in the area
17 as yet. There's clean carbonate that's been deposited, but
18 no true reservoir has been developed within that section.

19 The 'AC' is very similar to the 'AE'. It's a
20 separate depositional unit, but to date no production has
21 been established from it.

22 You'll notice on the 29 Federal Number 1, we did
23 perforate that section and test it, along with the zone
24 above it, the 'AB'. The 'AB', we have had shows in both
25 the 30 Federal Number 10 and the 29 Federal Number 1.

1 We tested both the 'AB' and the 'AC' in the 29
2 Federal Number 1. You'll notice at the bottom of the
3 cross-section the results of that testing are listed where
4 it says "perfed Wolfcamp" down at the bottom. We swabbed
5 the well for ten days after treating it and recovered a
6 total of 46 barrels of oil and 500 barrels of water over
7 load, which was noncommercial.

8 We set a cast-iron bridge plug, which is shown in
9 the wellbore, just above that upper Wolfcamp detrital zone
10 which is colored purple, and we've come up to the Bone
11 Spring, as I indicated.

12 That zone has not been tested in the 30 Federal
13 Number 10, however the 30 Federal Number 10 is only about
14 15 feet high to the 29 Number 1 in that section, and so
15 we're -- I'm not really sure at this point whether or not
16 that's going to be a viable reservoir in the area or not,
17 from a oil-production standpoint. Certainly it appears to
18 have reservoir quality, but whether or not it's trapping
19 effectively in the area has yet to be determined.

20 Backing up to the 30 Federal Number 1, you see
21 the perforations down in the 'AF' zone. That well was
22 completed, looking toward the bottom of the section, in
23 March of 1997. And that well has cumulatively produced to
24 date 26,000 barrels, just in excess of 26,000 barrels of
25 oil and 62 million cubic feet of gas. And you can see very

1 little water, 912 barrels.

2 The well IP'd for approximately 400 barrels --
3 I'm sorry, about 200 -- 300 barrels of oil a day, three
4 barrels of water and 900 MCF per day. MMCF, I'm sorry,
5 MMCF per day.

6 That well is currently producing at a rate of
7 about 22 barrels a day. It's experiencing very significant
8 production decline. Gas is approximately 50 to 100 MCF per
9 day, and there is no water.

10 Moving upsection in that wellbore, we did drill
11 stem test the upper Wolfcamp detrital section, which is
12 colored purple, and recovered predominantly water with a
13 show of gas. That zone does not appear to be commercially
14 prospective in the area.

15 Moving over into the 30 Federal Number 9, again
16 we're completed in that basal 'AF' carbonate. The well was
17 completed in July of 1997 from that interval with an IP of
18 80 barrels of oil per day, 170 MCF gas, no water. It's
19 cumulatively produced to date 12,164 barrels of oil, 117
20 million cubic feet of gas and 130 barrels of water. That
21 well is currently producing about 33 barrels of oil a day
22 and about the same gas as the Number 1, approximately 50 to
23 100 MCF per day.

24 Q. All right, which -- In your proposed well, which
25 zones are you anticipating?

1 A. The primary objective of the proposed location is
2 the 'AF' carbonate.

3 Q. Do you feel like you've got a pretty good handle
4 on the Wolfcamp zones in the area?

5 A. To this point, not really. I've got two
6 additional exhibits, which I'd like to get into.

7 Q. Well, let's go ahead and do that. Why don't we
8 turn to Penwell Exhibit Number 7?

9 A. Exhibit Number 7 is an isopach map of the 'AF'
10 carbonate, and I'm using a 40 API cutoff, gamma-ray cutoff
11 for the isopach, and a porosity cutoff as well. I believe
12 it's eight percent porosity. The porosity is shown as the
13 number on the left, the API cutoff is the number shown on
14 the right associated with each well.

15 You can see right now we've got basically two
16 wells in the area that have penetrated reservoir section in
17 this particular interval, those being the 30 Federal Number
18 9 and the 30 Federal Number 1.

19 The proposed location, we anticipate, will be
20 structurally high and a little bit thicker, possibly, than
21 the two wells we've drilled to date. And we are
22 anticipating that if we can pick up a thicker section, that
23 the production will be improved by the thicker reservoir.

24 But there really is no documentation evidencing
25 thickening to the north at this point. That is, it's

1 really a wildcat location, a wildcat stepout.

2 If the two wells to the south, particularly the
3 Number 1, had held up a little bit more strongly over the
4 long haul, we'd certainly feel stronger about the 'AF'
5 being a viable, a highly viable, development objective in
6 this area.

7 But since those wells have declined fairly
8 rapidly, what I believe is probably happening is that these
9 reservoirs are somewhat lenticular. And while I'm
10 correlating these zones as being continuous, they may, in
11 fact, be much less continuous than I'm illustrating with
12 this series of maps.

13 And the only way we're going that out is to
14 continue drilling. And that's why I believe the well has
15 wildcat-type risk to it, because the rapid declines on the
16 first two wells indicates that the reservoir probably isn't
17 as big as I'm showing it to be.

18 But given the nature of the reservoirs in this
19 lower Wolfcamp section, it's entirely possible that as we
20 move around this area if we are in a depositional -- a
21 depocenter for carbonate detritus coming off the shelf,
22 that we could stumble into either another lens that is
23 pressure -- separated pressurewise and reservoirwise from
24 the existing zones, or we could stumble into new reservoirs
25 that haven't been defined in the area. But that's where

1 the risk lies.

2 I think the analog to this area is South Corbin
3 Field, which is located about two townships east of here,
4 and it's a fairly large field. But in studying that field,
5 there is significant development risk in moving from one
6 location to the other in that field -- to another, on 40-
7 or 80-acre spacing.

8 The field was originally developed on 80-acre
9 spacing, and since has had some 40-acre-type offsets
10 drilled in it. I say "type" because I think the spacing is
11 still 80 acres, but by nature of the Commission rules on
12 that, it really only allows direct 40-acre locations to be
13 drilled.

14 But the continuity of reservoirs and the overall
15 distribution of reserves in that field is highly erratic
16 from one location to another.

17 And so while it's a fairly high risk development
18 play, the Wolfcamp detritals in that field, overall,
19 statistically, if you drill a fairly large number of wells,
20 like four or five at a time, you statistically find
21 economic reserves. And I believe that's what has to be
22 done in this area to make it economic.

23 The problem with that is that each well bears a
24 significant amount of risk. We really haven't gotten to
25 the point where we've drilled enough wells in this area to

1 demonstrate that we do, in fact, have the same kind of
2 conditions.

3 Right now we're projecting to our investors,
4 hence my management, that we have an analogous setting.
5 But we still haven't gotten there yet, because we've got
6 two uneconomic wells.

7 The two wells we drilled to date really aren't --
8 neither one of them has reached payout yet, and we're six
9 months, almost a year, into the production on one of the
10 wells. And so the economics, particularly in this market,
11 are somewhat marginal at best.

12 Q. If oil prices increase, will that increase the
13 economic viability of the prospect?

14 A. Certainly?

15 Q. Will that eliminate the risk from this well?

16 A. No. No, and it still wouldn't place the first
17 two wells we've drilled in what would be considered an
18 economic category where we are going to generate a two- or
19 three-to-one return on our investment.

20 If we can find the type well that I'm hoping to
21 find, which is roughly 150,000 barrels per well, then it
22 would make a substantial difference, and the wells would
23 become eminently more economic.

24 Q. Okay. Now, your two wells to the south, you're
25 also -- you've got some data on the Wolfcamp 'AB'; is that

1 right? Is that reflected on --

2 A. Right.

3 Q. -- Exhibit Number 8?

4 A. That's correct. Exhibit Number 8 is an isopach
5 map of the upper 'AB' zone that we've tested in the 29
6 Number 1, and it -- Also shown on this particular map is
7 the cross-section, the trace of the cross-section.

8 And the reason I included this map was to
9 document that this particular reservoir, I do not believe,
10 develops at the proposed location.

11 You can see the zone thins from the wells in the
12 east half of Section 30, west half, south half and north
13 half of Section 29. The zone thins to the west and
14 northwest into the two wells we drilled in the west half of
15 Section 30 and an older previously drilled Morrow well in
16 the east half of Section 19.

17 Q. So you're basically just anticipating production
18 out of the Morrow 'AF'; is that right? Out of the Wolfcamp
19 'AF'?

20 A. That's correct.

21 Q. Okay. What -- Have you reached some general
22 conclusions based on your geologic study of this well?

23 A. Yes, I believe we're drilling in the best
24 possible location for development of the objective
25 reservoir in the lower Wolfcamp.

1 Q. Now, have you -- Do you feel like you've
2 eliminated risk based on the production data from the other
3 wells in the area in your geologic study?

4 A. No.

5 Q. Why not?

6 A. Well, for the reasons I've stated on the record
7 already, which -- primarily, there's -- First and foremost,
8 there's no control, no positive control of reservoir
9 development north of the existing wellbores in Section 30.
10 In fact, the control we have to the north is all negative.

11 I do have -- And secondly, the production on the
12 current wells would indicate, really, that the reservoir we
13 are in is fairly small.

14 Q. Okay.

15 A. And that odds are, if we get into another zone to
16 the north, it will more than likely be in the same
17 position. If it is in the same position, it will more than
18 likely be a different reservoir than the one that's
19 producing in Section 30.

20 Q. Based on the issues you've discussed, are you
21 prepared to make a recommendation to the Examiner as to the
22 risk penalty that should be assessed against the
23 nonconsenting interest owners in the spacing unit?

24 A. Yes.

25 Q. What risk penalty do you recommend?

1 A. Two hundred percent plus cost.

2 Q. Do you think there's a chance that you could
3 drill a well at the proposed location that would not be a
4 commercial success?

5 A. Yes.

6 Q. Should this recommended risk penalty apply to all
7 formations that are being pooled? I think we've asked for
8 more than just the Wolfcamp in the Application.

9 A. Yes, it should.

10 Q. Does Penwell seek to be the designated operator
11 of the proposed well?

12 A. Yes.

13 Q. And in your opinion, will the granting of this
14 Application and the drilling of the proposed well be in the
15 best interests of conservation, the prevention of waste and
16 the protection of correlative rights?

17 A. Yes.

18 Q. Mr. Thoma, were Penwell Exhibits Numbers 5
19 through 8 prepared by you or compiled under your direction?

20 A. Yes, they were.

21 MR. OWEN: Mr. Examiner, I offer Exhibits 6
22 through 8 to the record -- 5 through 8.

23 EXAMINER CATANACH: Five through 8, yeah.

24 MR. OWEN: Correct.

25 EXAMINER CATANACH: Exhibits 5 through 8 will be

1 admitted as evidence.

2 MR. OWEN: And that's all I have for this witness
3 at this time.

4 EXAMINATION

5 BY MR. BRUCE:

6 Q. Mr. Thoma, let's look at your Exhibit 8, just for
7 a second.

8 A. Uh-huh.

9 Q. I just want to clear up some things. You have --
10 The wells to the northeast of Penwell's acreage, circled in
11 red, were those just deep enough to test the Wolfcamp, or
12 were they Wolfcamp producers?

13 A. Those are Morrow producers.

14 Q. They're Morrow producers?

15 A. Yes.

16 Q. Okay.

17 A. Existing Morrow producers. I say that -- some of
18 those wells -- Let me just make a clarification on that.

19 They were or are Morrow producers. Some of them
20 have been plugged out, have been abandoned.

21 Q. Okay. Have they tested the Wolfcamp?

22 A. No, they have not.

23 Q. And on Exhibit 7 -- let's -- I want to go through
24 some of the dates here. Let me get the well numbers right
25 here.

1 Okay, your Well Number 10, which is in the
2 southeast of the northeast, correct?

3 A. That's correct.

4 Q. When was that well completed?

5 A. That was completed in July of 1997.

6 Q. Okay. And that was targeted to the Morrow and is
7 producing from the Morrow?

8 A. Yes, it is.

9 Q. And that well still -- What are the current rates
10 on that well?

11 A. That well is currently producing about 2.1
12 million and approximately 70, 75 barrels of condensate a
13 day.

14 Q. And then moving over to the southwest quarter,
15 which is your Number 9 well?

16 A. That's correct.

17 Q. The northeast quarter of the southwest quarter?

18 A. That's correct.

19 Q. When was that completed?

20 A. July, 1997.

21 Q. Is it producing any longer from the Wolfcamp?

22 A. Yes, that well is currently producing about 33
23 barrels of oil a day.

24 Q. And I think you said 50 to 100 MCF of gas per
25 day?

1 A. That's correct.

2 Q. Does it appear to have Bone Spring or Delaware
3 behind pipe?

4 A. It had shows in the first Bone Spring sand and
5 the lower Brushy Canyon, but they are probably not
6 commercial because of the very low porosities, very thin
7 sands.

8 Q. They obviously haven't been tested yet, though?

9 A. No, they haven't been tested.

10 Q. Okay.

11 A. There is no Bone Spring or Delaware production in
12 this area. I think the nearest Bone Spring production that
13 would be comparable to this in terms of stratigraphic
14 horizon would be Querecho Plains, which is approximately
15 ten miles to the east.

16 Q. That's 18 South, 32 East, I think?

17 A. Correct, yes. And the nearest Delaware
18 production -- There is no Delaware production from the
19 zones we have that shows that.

20 There is Delaware production, I believe, in
21 Section 28, just offsetting this map, but it's from the
22 upper Cherry Canyon section, not the lower Brushy where we
23 had our shows. Our upper -- Our equivalent upper Cherry
24 section was tight.

25 Q. Okay. Now, getting back to your Number 10 well,

1 which is the one we discussed first, you said that one does
2 have -- it had shows in the Wolfcamp?

3 A. That's correct.

4 Q. Does it also have shows in the Bone Spring?

5 A. In the 'AB'. It did have shows in the first Bone
6 Spring sand. Again, they were very thin, the sands were
7 very thin, much thinner than the zones in the analog
8 fields.

9 And there is also -- The problem with the Bone
10 Spring that we had in this area is that in Querecho Plains
11 there's three or four sand members that produce, and
12 they're all charged. As you go downdip, they become wet as
13 a reservoir in this area, but there are no wet sands in
14 that field to deal with.

15 In this area what we've got in our wells are two
16 or three very thin sands in the upper first Bone Spring
17 section and a massive -- upwards of 60 foot -- highly
18 porous, very wet sand, immediately below that,
19 approximately 30 feet below the thin sands.

20 And so from a completion standpoint it is going
21 to be virtually impossible, because the Bone Spring
22 requires a fairly aggressive frac treatment to produce
23 economically. More than likely, that lower sand is going
24 to be communicated with the sands that we have.

25 And if the sands that we had were thick enough,

1 by chance, to produce commercially by themselves, odds are
2 that we're going to communicate with the water zone, and
3 it's going to overbear the oil production. We'll wind up
4 with a very small oil cut on these wells.

5 So the Bone Springs section is really not a
6 viable secondary objective.

7 The lower Brushy Canyon section, we did not have
8 any shows. The -- Let me back up. The lower Brushy Canyon
9 Section that we had shows on the Number 9 well was not
10 present in the Number 10 well. It's very tight. I think
11 we had eight percent porosity in the lower Brushy.

12 Q. And then moving on to your Number 1 well, which
13 is in the southeast quarter of the northwest quarter, when
14 was that completed?

15 A. That was completed in March of 1997.

16 Q. Okay. And again, did that have shows in the Bone
17 Spring or the Delaware?

18 A. Yes, it had the lower Brushy zone that the first
19 well -- that the -- I'm sorry, that the 30 Number 9 had.
20 It had the same lower Brushy zone. And it had the same
21 Bone Spring sands that the 30 Number 9 had. The big wet
22 sand with oil stringers above it.

23 Q. Now, it's been almost a year since all these
24 wells were completed. How come you didn't just drill a
25 direct north offset to the Number 1 well?

1 A. Why didn't we drill a direct north offset to the
2 Number 1 well? At this point I'm doing my best to keep
3 this property alive internally in our company, because the
4 economics of drilling 30-barrel-a-day, 10,000-foot wells
5 with ten-dollar gas are not very good.

6 We are producing -- Basically, our leasehold in
7 Section 30 is secure for the time being through the
8 production that we have. Our leasehold in Section 19 is
9 not. We have an obligation to drill a well by August 30th
10 or we lose that leasehold.

11 And so we are drilling this well, really, not so
12 much on the basis of everyone's desire to drill a
13 development well at this point. It's more a desire to
14 protect the leasehold that we have, because we have capital
15 invested in the leases to this point that we don't want to
16 lose.

17 Q. And in that Number 1 -- yeah, the Number 1 well,
18 it -- I mean, you're producing from the Wolfcamp 'AF'
19 carbonate, right?

20 A. In the Number 1?

21 Q. Number 1.

22 A. That's correct, that's correct.

23 Q. Is there any potential for perforating any of the
24 other Wolfcamp carbonates that you show on your cross-
25 section in that well?

1 A. No.

2 Q. Okay.

3 A. And I guess I might add, since we're talking
4 about reperforming, testing additional zones, we have
5 floated an AFE to our partners to add pay -- I believe it
6 was in the 30 Number 9 -- to set a retrievable over the
7 Wolfcamp and come up and shoot the Bone Springs sand. None
8 of our partners approved that AFE, because they were
9 concerned about making a lot of water.

10 We're not making water where we are. We have no
11 water disposal costs. And given the economics right now,
12 that combined with the probability of getting a high water
13 cut from the Bone Spring, our partners were not interested
14 in testing the Bone Spring.

15 Q. Now, in addition to the three wells in Section 30
16 that Penwell has drilled, has it staked other locations in
17 Section 30?

18 A. When we drilled the first well -- And we've done
19 this routinely on almost every prospect in southeast New
20 Mexico. If you look at our program, you'll see that it's
21 clearly evident.

22 We drill the first well. As we're drilling, if
23 we have significant shows -- And in the case of the 30
24 Number 1, we had drill stem tested this Wolfcamp carbonate
25 zone. The drill stem test is listed, details are listed on

1 -- It's a middle lower Wolfcamp carbonate.

2 Those two wells have been offset by two or three
3 other wells that were dry. That was the extent of
4 development around that particular field.

5 And then beyond that, you move another four or
6 five miles to the east in South Corbin, which is a fairly
7 substantial field. That's a 5.5-million-barrel field to
8 date.

9 Q. According to your Exhibit Number 7, this
10 reservoir, the 'AF' reservoir, maybe extends down further
11 than you have mapped here?

12 A. Yes possibly. There is virtually no deep --
13 There are no deep penetrations south of us. The nearest
14 deep penetration to the south is in Section 4 of 19-31 and
15 in Section 17 of 19-31. So you have to move -- before you
16 even have a penetration.

17 And in both of those wells -- We drilled the well
18 in 17, and there's no Wolfcamp in that well. And the well
19 in 4 was an older well drilled by Gulf; there's no Wolfcamp
20 in that well.

21 So there's no real positive control. I believe
22 it probably does continue to the south. But right now
23 there are no penetrations in it to the south.

24 The well --

25 Q. And --

1 A. I'm sorry. The wells you see on this map are
2 shallow wells, that do not have the red circles on. This
3 is -- I believe it's Shugart-Yates-Seven Rivers.

4 So there's an abundance of shallow production in
5 this area, and that's one of the reasons why we really
6 didn't want to let this lease go, because this is an area
7 that's very, very difficult to establish a position in,
8 because it's an old producing area that's been held for
9 many, many years by the shallow production.

10 And the leases -- The only leases you can get,
11 generally, are short-term assignments, as we've gotten from
12 Canadian Kenwood down in the southwest of 30.

13 Q. Okay, all of that Yates-Seven Rivers, you
14 wouldn't have an interest in this particular --

15 A. No. No, our rights -- I think our shallowest
16 rights are 3900 feet down. 3900 and 4500. We have two
17 different term assignments.

18 Q. Okay. At your proposed location you don't see
19 much in the way of secondary objectives, Bone Spring,
20 Delaware, at the location you're going to drill?

21 A. I think there's a possibility that we could
22 have -- The Bone Spring, no. I think the Bone Spring -- I
23 think we are downdip in the Bone Spring.

24 If you go northeast -- I'm sorry, northwest of
25 this area, up into the adjoining township, 18-30, into

1 Section 2 and 3, there's a field named Walters Lake field,
2 which is a first Bone Spring sand field. I believe that
3 field is at the updip end of this reservoir trend. Very
4 similar -- and I think we are down -- We are in the downdip
5 position of the Querecho Plains trend, basically, or
6 downdip of Querecho Plains.

7 Moving that field over to our area, Walters field
8 is the equivalent of Querecho plains. It's in the same
9 position structurally and basinally, relative to the shelf
10 edge. It's right up at the margin of the basin, at the toe
11 of the slope. Walters lake traps there, Querecho Plains
12 traps there, Old Millman Ranch traps there.

13 You go downdip from those fields and there's lots
14 of sand, but they become thin and lentic- -- The ones that
15 have oil become thin and lenticular. The big, thick,
16 reservoir-quality sands are filled with water. That's what
17 I'm seeing in Section 30.

18 And so I don't think in 19 we're going to be far
19 enough updip to get out of water in the Bone Springs.

20 In that basal Brushy section, there's one sand in
21 the basal Brushy Canyon that we took cores out of in the
22 Number 30 well, and it should be a viable producer in the
23 30 Number 1.

24 It has not been tested in any wells along this
25 trend. It is -- The Delaware fields that produce in this

1 stratigraphic position, in the position, relative to the
2 shelf edge, are upper Cherry Canyon and upper Brushy Canyon
3 fields, fields like Shugart East, Shugart, the field that
4 offsets us here, and Parkway.

5 We are in the lower Brushy Canyon section, which
6 is really the equivalent of the pay zones that are in Sand
7 Dunes field, in Engel wells, the fields that are much
8 further out into the Basin. And that particular reservoir
9 section has had shows in a lot of wells in this area, but
10 no one has ever tested it.

11 And it may produce and it may not. I don't know
12 at this point, because there is no production in this area
13 or anywhere in this vicinity from that reservoir.

14 I think we have a viable shot at picking that
15 reservoir up in Section 19, but again we're stepping out,
16 and I don't really know what it's going to produce at this
17 point.

18 Q. Okay. Is the Wolfcamp production in your two
19 wells -- Is that holding up pretty good at this point, or
20 is it still declining?

21 A. I'll tell you, I would prefer that our
22 engineering witness answer that, because I honestly don't
23 know what the extended recent history is. The current
24 rates I just pulled up before I left, so I -- But I know
25 that they've been -- they've declined rapidly. So I think

1 they've been producing at this low rate for a fairly
2 significant period of time. Bill can talk about that
3 further.

4 EXAMINER CATANACH: I've got no further
5 questions.

6 FURTHER EXAMINATION

7 BY MR. OWEN:

8 Q. All right, Mr. Thoma, given the uncertainty of
9 production from the Delaware and Bone Springs that you talk
10 about, do you think the possibility of production from
11 those zones decreases the risk associated with drilling the
12 proposed well?

13 A. No, I don't. If they were productive in the area
14 -- The Bone Springs is productive. As I said, I don't
15 believe that we're in the right position. We're not in the
16 trapping position.

17 In the Delaware, if it was productive in the area
18 and I could point to a well and say that someone has tested
19 it in this well, it looks just like ours, I would say,
20 yeah, it would marginally decrease the risk. But we're
21 still stepping out to the north, we're stepping two
22 locations away. And I don't really know what the ultimate
23 geometry of the sand is going to be in this area.

24 Q. Okay.

25 A. So I don't think that it substantially decreases

1 the risk at this point.

2 MR. OWEN: Okay. That's all that I have at this
3 time, Mr. Examiner.

4 EXAMINER CATANACH: Okay, this witness may be
5 excused.

6 MR. OWEN: At this time I call Mr. Bill Pierce.

7 WILLIAM PIERCE,

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

10 DIRECT EXAMINATION

11 BY MR. OWEN:

12 Q. Mr. Pierce, why don't you tell us your full name
13 and where you live?

14 A. William Pierce, and I reside in Midland, Texas.

15 Q. And who do you work for, Mr. Pierce?

16 A. Penwell Energy, Incorporated.

17 Q. What do you do for Penwell?

18 A. I'm the operations manager for Penwell.

19 Q. How long have you been with Penwell?

20 A. Two and a half years.

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

23 A. Yes, I have.

24 Q. At the time of that testimony, were your
25 credentials as a petroleum engineer accepted and made a

1 matter of record?

2 A. Yes, they were.

3 Q. Are you familiar with the Application filed in
4 this case on behalf of Penwell?

5 A. Yes, I am.

6 Q. Are you familiar with the costs associated with
7 the development of the Wolfcamp formation in this portion
8 of Southeast New Mexico?

9 A. Yes.

10 Q. All right, let's refer back to the AFE that was
11 attached to Penwell Exhibit Number 3. Can you review those
12 totals and the costs reflected on that AFE for the
13 Examiner, please?

14 A. Yes, in the first line which we have, "BCP" is
15 before casing point. As you can see, it's about \$456,000
16 in intangibles. Total tangibles would be \$53,000 --
17 approximately \$54,000. So we have arrived at a total
18 dryhole cost of \$523,000.

19 If you'll move over to the next column, which is
20 "ACP", after casing point, total intangibles are
21 approximately \$171,000, total tangibles are approximately
22 \$237,000, for a total after casing point cost of \$408,000,
23 which, if you'll total those two columns up, a completed
24 well -- a completed pumping Wolfcamp well costs
25 approximately 918,000.

1 MR. OWEN: Mr. Examiner, I don't think I asked
2 you if Mr. Pierce's qualifications were acceptable.

3 EXAMINER CATANACH: Mr. Pierce's qualifications
4 are acceptable.

5 Q. (By Mr. Owen) All right. Now, Mr. Pierce, have
6 you reviewed this AFE to determine whether the costs
7 reflected are unique to this well as far as being costs
8 that can't be attributed to equipment that could be used on
9 another location, for example?

10 A. Yes, this AFE was designed strictly for the
11 Wolfcamp wells that we have in the particular producing
12 area.

13 Q. Are there any other Wolfcamp producing wells in
14 the immediate area, other than the Penwell wells?

15 A. No, sir, not in the immediate area, there is not.

16 Q. Are there -- Is there anything unique about the
17 Wolfcamp formation in this particular area, as far as
18 drilling costs or producing costs?

19 A. As compared to other Wolfcamp areas in the
20 surrounding area, I would say no.

21 Q. Are the costs that are reflected on this AFE in
22 line with both the Penwell wells and the other Wolfcamp
23 wells in the general area?

24 A. As what I have seen, that is correct, they are.

25 Q. Okay. Now, I think you heard Mr. Thoma indicate

1 that he wasn't familiar with the history of production on
2 the other Wolfcamp wells. Can you review that history for
3 the Examiner?

4 A. Yes. I only went back the previous six months --

5 Q. Okay.

6 A. -- but those wells, as Mr. Thoma has alluded to,
7 have declined quite rapidly in the initial months after
8 completion. But since then, in the past six months, they
9 are fairly flat. They're experiencing less than a two-
10 percent decline at the current producing rates. That was
11 for the previous six months of production, is what I'm
12 looking at.

13 Q. And those were just drilled in July of 1997; is
14 that right? Or completed in July of 1997?

15 A. Completed in -- That's correct, in July.

16 Q. Okay. So you've basically got ten months of
17 production, 11 months of production history on those wells?

18 A. That is correct.

19 Q. Okay. And they were completed about the same
20 time; is that right?

21 A. Very close to the same time, that's correct. I'm
22 not sure of the exact dates, but fairly close of each
23 other.

24 MR. OWEN: Okay. That's all that I have of this
25 witness at this time, Mr. Examiner?

1 EXAMINER CATANACH: Mr. Bruce?

2 EXAMINATION

3 BY MR. BRUCE:

4 Q. I really only have one question, Mr. Pierce. Are
5 the two Wolfcamp wells flowing, or are they on pump?

6 A. No, sir, they have to be rod-pumped.

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

8 EXAMINER CATANACH: I have no questions of this
9 witness. He may be excused.

10 MR. OWEN: Those are all the witnesses that I
11 have, Mr. Examiner.

12 In conclusion, I'd like to first point out that
13 the Applicant in this case has an August 30th drill
14 deadline due to a farmout in this case. The Applicant
15 would like the order in this case expedited.

16 The structure in the area shows that the well is
17 a risky well in the Wolfcamp. There is limited Wolfcamp
18 production in the area, and there is virtually no certainty
19 of any production from any other formations.

20 Although we do have some history in the Wolfcamp,
21 the risk associated with this well, as the witnesses have
22 testified, is fairly high, certainly higher than the 200
23 percent which we're allowed under the statute, and we
24 request that the order be issued pooling the acreage to the
25 subject well, and that a 200-percent-plus-cost risk penalty

1 be assessed on this well.

2 EXAMINER CATANACH: Mr. Bruce, do you have
3 anything to say?

4 MR. BRUCE: Yeah, Mr. Examiner, first I'd like to
5 point out that I think maybe the bare minimum has been done
6 to get Canadian Kenwood's voluntary joinder in the well.
7 There's been one letter and one, maybe two, phone calls. I
8 think with a little more effort, perhaps some agreement
9 might have been reached.

10 As far as the risk penalty, as Mr. Thoma has
11 testified, the proposed location is structurally higher,
12 and it has a thicker section than the existing Wolfcamp
13 wells. Although it's stepping out two locations, that's
14 really just for leasehold-protection measures, not for any
15 other reason.

16 In fact, Penwell has staked seven wells in
17 Section 30, in addition to the three that they've already
18 drilled. And furthermore, it's willing to bear 100 percent
19 of the cost.

20 Canadian Kenwood is by far the largest interest
21 owner in this unit. They do not -- That company, as Mr.
22 Wheeler is aware, is not an operator in the state, and they
23 prefer to participate more on a farmout or term-assignment
24 basis.

25 But the fact, the mere fact that they're willing

1 to bear 100 percent of the well costs shows low risk, as do
2 Mr. Thoma's geologic plats.

3 We think that overall, that shows a low risk in
4 this area. The production from these wells is stable, and
5 they will probably continue to produce for a long time at
6 these rates, and we would ask that a maximum penalty of 100
7 percent be imposed on this Application.

8 EXAMINER CATANACH: Okay, is there anything
9 further in this case?

10 MR. OWEN: That's all that I have, Mr. Examiner.

11 EXAMINER CATANACH: Okay, there being nothing
12 further, Case 11,992 will be taken under advisement.

13 And this hearing is adjourned.

14 (Thereupon, these proceedings were concluded at
15 9:25.m.)

16 * * *

17
18
19 I do hereby certify that the foregoing is
20 a complete record of the proceedings in
the Examiner hearing of Case No. 11992,
heard by me on June 25 1998.

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

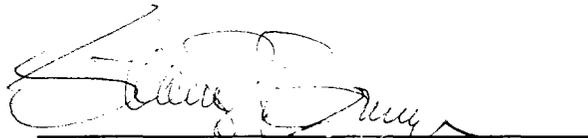
CERTIFICATE OF REPORTER

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

I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

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

WITNESS MY HAND AND SEAL June 28th, 1998.



STEVEN T. BRENNER
 CCR No. 7

My commission expires: October 14, 1998