## 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 YATES PETROLEUM CORPORATION FOR POOL CONTRACTION AND EXPANSION, EDDY COUNTY, NEW MEXICO CASE NO. 11,841

ORIGINAL

## REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner 121997

Oil Conservation Division

September 4th, 1997

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, September 4th, 1997, 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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## APPEARANCES

FOR THE DIVISION:

RAND L. CARROLL Attorney at Law Legal Counsel to the Division 2040 South Pacheco Santa Fe, New Mexico 87505

FOR THE APPLICANT:

CAMPBELL, CARR, BERGE and SHERIDAN, P.A. Suite 1 - 110 N. Guadalupe P.O. Box 2208 Santa Fe, New Mexico 87504-2208 By: WILLIAM F. CARR

\* \* \*

1 WHEREUPON, the following proceedings were had at 2 8:43 a.m.: EXAMINER CATANACH: All right, let's go on to the 3 second Yates case, Case 11,841. 4 5 MR. CARROLL: Application of Yates Petroleum 6 Corporation for pool contraction and expansion, Eddy 7 County, New Mexico. 8 EXAMINER CATANACH: Call for appearances in this 9 case. 10 MR. CARR: May it please the Examiner, my name is 11 William F. Carr with the Santa Fe law firm Campbell, Carr, 12 Berge and Sheridan. We represent Yates Petroleum 13 Corporation in this matter, and I have two witnesses. 14 EXAMINER CATANACH: Call for additional 15 appearances? 16 Will the witnesses please stand to be sworn in? 17 (Thereupon, the witnesses were sworn.) 18 BRENT MAY, 19 the witness herein, after having been first duly sworn upon 20 his oath, was examined and testified as follows: 21 DIRECT EXAMINATION 22 BY MR. CARR: 23 Q. Will you state your name for the record, please? 24 Α. Brent May. 25 Q. Where do you reside?

4

1	A. Artesia, New Mexico.
2	Q. And by whom are you employed?
3	A. Yates Petroleum.
4	Q. Mr. May, have you previously testified before
5	this Division?
6	A. Yes, I have.
7	Q. At the time of that testimony, were your
8	credentials as an expert witness in petroleum geology
9	accepted and made a matter of record?
10	A. Yes, they were.
11	Q. Are you familiar with the Application filed in
12	this case on behalf of Yates Petroleum Corporation?
13	A. Yes, I am.
14	Q. Have you made a geological study of the area
15	which is the subject of today's hearing?
16	A. Yes, I have.
17	Q. And are you prepared to share the results of that
18	study with Mr. Catanach?
19	A. Yes, I am.
20	MR. CARR: Are the witness's qualifications
21	acceptable?
22	EXAMINER CATANACH: Yes, Mr. May is so qualified.
23	Q. (By Mr. Carr) Could you briefly summarize what
24	Yates Petroleum Corporation seeks with this Application?
25	A. It seeks the contraction of the Indian Basin-

5

Upper Penn Gas Pool to delete Section 6 of Township 22 1 South, 24 East, in Eddy County, New Mexico. It also seeks 2 to expand the Indian Basin-Upper Penn Associated Pool to 3 include Section 6 of Township 22 South, Range 24 East. 4 And who operates Section 6? 5 ο. Yates Petroleum does. 6 Α. 7 ο. Are there other interest owners or partners in 8 this section? 9 Α. Yes, there are. Santa Fe Energy holds an 10 interest in this section. Could you just summarize the rules that govern 11 Q. 12 the development of the upper Pennsylvanian or Cisco/Canyon formation in the two pools we're talking about today? 13 Α. The Indian Basin-Upper Penn Gas Pool has special 14 15 pool rules that were adopted by Order R-2516 on July 9th, 16 They allow for 640-acre spacing for gas and with 1963. 17 1650-foot setbacks. 18 The Indian Basin-Upper Penn Associated Pool has 19 special pool rules adopted by Order R-9922, dated July 6th, 20 1993. It allows for 320-acre spacing. It allows for multiple wells on that 320-acre proration unit on every 80 21 22 and also has 660-foot setbacks. 23 Q. Let's go to Exhibit Number 1, the orientation 24 map, and I'd ask you to review this for the Examiner. 25 This map shows Section 6 of 22 South, 24 East, in Α.

the center, with the surrounding sections around it. 1 Section 6 is shown by the blue stipples. It shows the 2 operators of each section in the lower portion of each 3 It shows the current development around Section 6 section. 4 and within Section 6. 5 The different well spots have basically two 6 different color codes. The green color codes denote the 7 wells that are in the Upper Penn -- Indian Basin-Upper Penn 8 Associated Pool, and the red denote the wells that are in 9 10 the Indian Basin-Upper Penn Gas Pool. 11 Might note that in Section 6, which is Yates' 12 Brannigan lease, the Brannigan Number is shown in red. It 13 is currently in the Indian Basin-Upper Penn Gas Pool. The 14 Brannigan Number 2, which is down in the southeast guarter of Section 6, is currently in the Indian Basin-Upper Penn 15 Associated Pool. And then the Brannigan 4 in the southwest 16 17 quarter of Section 6, Yates feels like, should be put in 18 the associated pool. 19 ο. If we look at how the pool boundaries are defined in OCD records, Section 6, all of it, is included within 20 21 the gas pool; is that right? 22 Α. That's the way I understand it, yes. 23 And then if we go back and we look at the ο. 24 individual records that are kept on the pool by the OCD and 25 the pool code numbers that have been assigned to,

1particularly, the Number 2 when it was drilled and2completed, the Oil Conservation Division has indicated that3those wells are in the associated pool?4A. We feel like Yates feels like the Brannigan 25has been placed in the associated pool, even though there6is some confusion in the files at the Artesia office and7the Santa Fe office, but we do have documents that show8that it has been placed in the associated pool.9Q. And in fact, Mr. May, the records in Santa Fe10don't even match the records in Artesia; is that correct?11A. That's what I understand, yes.12Q. You reviewed this matter with Mr. Gum, did you13not?14A. Yes, I and Mr. McWhorter talked to Mr. Gum, oh,15maybe a month, month and a half ago, to talk to him about16placing the Brannigan 4 in the associated pool, and at that17time he said he would have to defer to Santa Fe. And later18we learned that we needed to come to hearing to settle19this.20Q. If we look at the two wells immediately21offsetting Section 6, south of you in Section 7, those22wells were operated by Santa Fe?23A. That is correct, the old Ranch Canyon lease in24Section 7.25Q. And they have been placed in the associated pool?		
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25 Q. And they have been placed in the associated pool?	24	Section 7.
	25	Q. And they have been placed in the associated pool?

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1	A. That's correct, both the Number 1 and the Number
2	2 are currently in the associated pool.
3	Might note, over by the Old Ranch Canyon "7"
4	Number 2, there is another an old gas well spot, which
5	is in red. That was an older well that has since been
6	plugged. It was originally in the Indian Basin Gas Pool,
7	and it's currently plugged at this time. The two
8	Q. And that section is defined by the OCD as being
9	in the associated pool?
10	A. That is correct, both all of the producing
11	wells in that section currently are in the associated pool.
12	Q. Could you generally describe the nature of the
13	Pennsylvanian reservoir in these two pools?
14	A. The upper Penn reservoir is a dolomite. It's
15	been The State term calls it upper Penn. I sometimes
16	call it Canyon, other people call it Cisco, some people
17	call it Cisco/Canyon, but we can call it upper Penn here.
18	Basically between the associated pool and the
19	Upper Penn Gas Pool, it is the same formation. It's
20	continuous from the associated pool up into the gas pool.
21	In general, in the gas pool, most of the wells
22	have been completed in the upper part of the dolomite,
23	whereas in the associated pool most of the wells have been
24	completed either in the middle and lower part of the
25	dolomite or all of the dolomite section.

9

1 Q. Why don't we go to Exhibit Number 2, the structural cross-section, and I'd ask you to refer to that 2 and then again review how these pools relate to one 3 another. 4 Α. I might point out that -- I believe it's Exhibit 5 3, has the trace of the cross-section on it. 6 7 Exhibit 2 is a structural cross-section, A-A'. 8 It's a north-south cross-section with north on the far left and south on the far right. It essentially shows the upper 9 10 Penn or what I term sometimes as the Canyon section. 11 I've got the top of the upper Penn or Canyon 12 limestone marked, along with the top of the Canyon or upper 13 Penn dolomite. I also have a datum, which is a minus 3900 14 subsea. And I also have the base of the upper Penn 15 dolomite marked. Note that the top and the base of the 16 dolomite has been highlighted in purple. 17 We also might note that I have correlated a 18 stratigraphic interval. It's the next line below the top 19 of the Canyon dolomite. And what I've tried to do with 20 this is show above that line within the dolomite is, in 21 general, where some of the older wells in the Indian Basin 22 Gas Pool have traditionally been perforated. And then 23 below that line, or all through the whole section of the 24 Canyon dolomite, the associated pool wells have been 25 perforated.

1 I've also, at the top of each well, designated which pool they're currently in. 2 3 Starting on the left-hand side of the crosssection is the Devon Winston Number 1 in Section 31 of 4 5 Township 21 South, 24 East. It's currently designated as a gas well. Note that it has a full section of Canyon 6 That has been perforated in the upper part of 7 dolomite. 8 the Canyon dolomite, on the upper Penn dolomite. And it is an Indian Basin-Upper Penn Gas Pool well. 9 10 At the base of the well log, down the cumulative 11 production, this well through the years has produced in 12 excess of 21 BCF, and that's a typical well in the Indian 13 Basin Gas Pool. The next well on the cross-section is the Yates 14 15 Brannigan "ANF" Federal Number 1 in Section 6 of 22 South, This well has also been designated as a gas well, 16 24 East. 17 and it's currently in the Indian Basin-Upper Penn Gas Pool, 18 so it is one of the wells that we're seeking to remove from 19 the gas pool and put into the associated pool. 20 This well was originally drilled in the 1960s and 21 perforated in the upper part of the Canyon dolomite only at 22 The perforations open at that time were that time. 23 basically from 7430 down to about 7555, and those were the only perforations open in that well at that time. 24 25 That well produced in excess of 28 BCF, again

11

very similar to the Indian Basin Gas Pool wells. 1 Back in, I think, 1993, Yates Petroleum re-2 entered this well after it had been plugged and opened up 3 several more perforations in the middle and lower part of 4 5 the dolomite, along with leaving the old perforations open. 6 So basically, we opened up a full section of the upper Penn 7 dolomite. That well to date, through the end of 1996, has 8 cum'd about 1.4 BCF and about 2000 barrels of oil or 9 10 condensate. 11 The next well on the cross-section is the Yates 12 Brannigan "ANF" Federal Number 2 in Section 6 of 22 South, 13 24 East. This well is currently in the associated pool. This well was drilled back around 1993 or 1994, I believe, 14 by Yates. Essentially, most of the Canyon section has been 15 16 perforated. You note that part of the upper dolomite is --17 it's actually lime; it was not dolomitized as compared to 18 the other wells. But essentially the vast majority of the 19 Canyon dolomite has been opened in this well. 20 This well has been designated as an oil well. It's cum'd about 1.2 BCF and 80,000 barrels of oil through 21 22 the end of 1996, and it is currently in the Associated 23 Pool. 24 The next well on the cross-section is the Yates 25 Brannigan ANF Federal Number 4, and I might point out there

1	is a problem with the location on this, on the cross-
2	section. It says Section 7 of 22 South, 24 East; it should
3	read Section 6. That's an error that I didn't catch.
4	Again, it's in the southwest quarter of Section
5	6, 22 South, 24 East.
6	This well was just recently drilled by Yates,
7	completed in June of this year. It has been designated as
8	a gas well, and this is a well that Yates thinks should be
9	put into the associated pool. It IP'd for 2.3 million
10	cubic feet of gas a day and 2 barrels of oil and gas a day.
11	Might note, comparing this log to the Brannigan
12	Number 2, which is in the associated pool, basically they
13	look very similar. That same Similar sections are open
14	and, with the exception of having a little more dolomite at
15	the top, they're geologically very similar.
16	The next well on the cross-section is an
17	associated pool well. It's been designated an oil well.
18	It's the Santa Fe Energy Old Ranch Canyon "7" Federal
19	Number 1 in Section 7 of 22 South, 24 East. It's in the
20	northeast quarter of that section. It was drilled by Santa
21	Fe back in around 1994, in that time period.
22	It's been completed basically in the basal part
23	of the Canyon dolomite, and it's cum'd through the end of
24	1996 about 1.5 BCF and 25,000 barrels of oil.
25	The last well on the cross-section, on the far

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right, is another associated pool well, again another Santa
Fe Energy well, the Old Ranch Canyon "7" Federal Number 2
in the northwest quarter of Section 7, 22 South, Range 24
East. This well has been designated as an oil well, and
note that most of the section has been perforated through
the Canyon dolomite.

Going down and looking at the production numbers, the cumulative production numbers, through the end of 1996 this well cum'd 1.3 BCF and 4000 barrels of oil. Even though this well was designated as an oil well, it's really a gas well. And it -- Compare this well to the Brannigan 4, and they're very similar in production and in the section, in the dolomite section.

14 The main thing I want to show with this cross-15 section is that the wells in Section 6, the Brannigan 16 wells, the 1, 2 and 4, the wells that we want to remove --17 well, some of the wells that we want to -- they're in the 18 section that we want to remove from the gas pool and place 19 into the associated pool. Comparing those to the current associated pool wells, they look very similar geologically 20 21 and very similar in the way they're completed.

And comparing those same wells to the Devon Winston Number 1 on the far left-hand side of the crosssection, one of the gas pool wells, geologically it's a little bit different, and completionswise it's vastly

different.

1

2 Q. Let's go to Yates Exhibit Number 3. I'd ask you 3 to identify and review that.

A. This is a structure map on the top of the upper
Penn dolomite. Again, the Section 6 is stippled in blue,
and it's in the center of the map. Again, the trace of the
cross-section is shown on this. The same color code as
Exhibit Number 1 is used.

9 I might also note that there is a thick green 10 line, and that is designating at the time -- before we 11 completed the Brannigan 4, of where the associated pool 12 boundary is at.

This is, again, a structure map. The contour 13 interval is 50 feet. In general, it's showing a closure, a 14 15 high closure, in the upper part of the map, which would be 16 in Sections 31 and 32 of 21 South, 24 East, and that is in 17 the Indian Basin-Upper Penn Gas Pool, the high, with the 18 structure in general dipping from the northwest to the 19 southeast as you go from the gas pool into the associated 20 pool.

21 So in general, most of the associated pool wells 22 are structurally lower than the gas pool wells.

Q. Mr. May, when we look at Exhibit Number 3, you've shown the pool boundary. That line reflects how wells have been classified; isn't that right?

1	A. That's correct.
2	Q. And the pool boundary, as defined in the pool
3	rules, would put all of Section 6 in the gas pool?
4	A. That's the way I understand it, even though
5	Q. And we're asking that the entire section now be
6	placed in the associated pool?
7	A. Right, even though the wells some of the wells
8	in Section 6 have been designated as associated pool wells.
9	Q. Let's go to Exhibit Number 4, the isopach. Would
10	you review that?
11	A. This is an isopach map of the upper Penn
12	dolomite, basically a thickness of the dolomite. Again,
13	the well spots and the outline of the pools are shown,
14	along with Section 6 being highlighted. 50-foot contours
15	are used on this.
16	In general, it shows a thick in the upper left-
17	hand corner of the map, which would be in Section 6 of 21
18	South, 23 East, and also in Section 31 of 21 South, 24
19	East, and also a little bit in Section I'm sorry,
20	Section 31 of 21 South, 23 East, and also Section 1 of 22
21	South, 23 East, and in general shows a thinning that
22	should Let me back up. Shows a thick in the area of the
23	Upper Penn Gas Pool. It shows a thinning as you move
24	towards in general, as you move towards the associated
25	pool, which would be to the south and to the southeast.

There is a localized thick over in Section -- in 1 the west half of Section 5 of 22 South, 24 East, but in 2 general it's thinning to the south and to the southeast. 3 4 ο. Mr. May, what conclusions have you reached from your geological study of this area? 5 Based on looking at the wells that are currently 6 Α. 7 producing in Section 6 and comparing them to the wells that 8 currently produce in the associated pool and the wells that produce in the Upper Penn Gas Pool, the wells in Section 6 9 look more like and act more like the wells in the 10 associated pool. 11 12 Q. Were Exhibits 1 through 4 either prepared by you, 13 or can you testify as to their accuracy? 14 Α. Yes. MR. CARR: At this time, Mr. Catanach, we would 15 16 move the admission into evidence of Yates Petroleum 17 Corporation Exhibits 1 through 4. 18 EXAMINER CATANACH: Exhibits 1 through 4 will be admitted as evidence. 19 20 MR. CARR: And that concludes my direct 21 examination of Mr. May. 22 EXAMINATION 23 BY EXAMINER CATANACH: 24 Mr. May, the Brannigan Number 1, that was, you Q. 25 said, drilled in the Sixties and produced for a

10
considerable amount of time?
A. I'm not sure exactly when it was plugged, but I
think it was around in the Eighties, but it was it
produced long enough to make over 28 BCF of gas.
Q. 28 BCF?
A. 28 BCF.
Q. Do you know how much oil it made?
A. I'm showing 194,000 barrels of condensate.
Q. And that well was initially just completed in the
upper part of the reservoir?
A. That is correct. It was initially completed in
those perforations, basically from about 7430 down to about
7555, and then all other perforations were added later when
Yates re-entered the well.
Q. So since your re-entry of the Number 1 well
back in 1993, did you say?
A. I believe it's somewhere around that period.
Q. Okay. That was about the same time that you
drilled the Number 2 well?
A. Pretty close. I think we re-entered the Number 1
first and then soon thereafter drilled the Number 2.
Q. Okay. Those two wells look like they're I
mean, they're perf'd in the whole dolomite section, right?
A. That's correct.
Q. The cumulative production It's similar for the

1	gas, but it's considerably more produced considerably
2	more oil in the Number 2 well.
3	A. That's correct.
4	Q. How do you account for that?
5	A. This reservoir, what I have seen working it, has
6	been highly complex, and I would go so far as to say it's
7	probably compartmentalized, can be compartmentalized, and
8	sometimes you can see different fluids in some of these
9	different compartments.
10	Also, I'm sure some of those upper perforations,
11	the old perforations, are still contributing quite a bit of
12	gas. We've seen down through this section where zones can
13	be gassy or, excuse me, zones can be oily, and then you
14	can go a little bit lower in the section and get a gassy
15	zone.
16	I've seen that back in the discovery well, we saw
17	that, the Hickory Number 1 down in Section 17 of 22 South,
18	24 East. It's not on these maps, but I pull it out of
19	off the top of my head because I distinctly remember when
20	we completed that well, that well was one of the first
21	ones, the discovery well, and we each zone, we went in
22	and actually tested each zone to find out what was in it.
23	And I distinctly remember going into that well,
24	and starting at the top, there was it was an oil zone at
25	the top. We went lower down and encountered some more oil

1	zones, and then near the base we hit a gassy zone.
2	And so it's there's different fluids in some
3	of these compartments. But also, like I said, the upper,
4	the old Indian Basin section can also still add a lot of
5	gas too. But it's not a clear-cut oil excuse me, gas-
6	oil-water, like you see in the textbook models.
7	Q. That I guess I'm a little confused on the pool
8	boundaries.
9	A. So are we.
10	Q. You mentioned that all of Section 6 is currently
11	included in the gas pool, and did you say that was in an
12	order somewhere?
13	A. Currently the plats at the OCD show all of
14	Section 6 in the gas pool.
15	Q. Okay.
16	A. But you go to the files on each individual well,
17	and the Brannigan Number 2 is being shown in the associated
18	pool, and then we have applied for the Brannigan Number 4
19	to be placed in the associated pool.
20	Mr. McWhorter, too, will have some more exhibits
21	and testimony on Some of it's confusing, but yes, it is
22	confusing because there's some discrepancies going on.
23	Q. Now, you can drill In the gas pool, you can
24	drill more than one well on the proration unit; is that
25	correct?

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1	A. In the gas well, yes, but it's prorated.
2	Q. Right. Doesn't the Number 1 well, in your
3	opinion, act more like a typical gas well?
4	A. I'd almost call it It looks kind of like both,
5	because in the opinion, yes, it's making a gas well.
6	But then you look at the Santa Fe Old Ranch Canyon "7"
7	Federal Number 2, which is currently in the Associated
8	Pool, and it looks similar as far as production goes.
9	It's, like I said, cum'd about 1.3 BCF and 4000 barrels of
10	oil. And it was even designated as an oil well.
11	So those two wells, you look at the production
12	figures and they look very similar.
13	Q. That Old Ranch Canyon "7" Number 2 was drilled in
14	close proximity to what used to be a gas well?
15	A. That's correct.
16	Q. And that was a gas well in the gas pool?
17	A. That's correct, yes, sir. It's been kind of
18	confusing, yes.
19	Q. There's not really a I mean, you can't really
20	look at this geologically and derive where the boundary of
21	this pool should be?
22	A. There is not a distinct line you can draw, no.
23	Q. I mean, as you testified, a lot of it depends on
24	where the operators perforate the wells?
25	A. Yes, as far as the history of some of the

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associated pool wells, where they have been perforated, the 1 wells in Section 6 are more similar to those than they are 2 3 where the old gas pool wells have been perforated. Structurally, it looks like the Number 1 well may 0. 4 be more of a -- in a kind of a structurally similar 5 position than some of the gas wells in the gas pool. 6 7 That is true. Structurally it is similar, as far Α. 8 as the top of the dolomite. But you also can go over into Section 5 in 22 South, 24 East, the Santa Fe -- the 9 10 Nagooltee Peak "5" Number 2 is also in a similar structural 11 position, and it is an associated pool well. 12 EXAMINER CATANACH: I think that's all I have 13 right now. I might have something else. 14 MR. CARR: At this time, Mr. Catanach, we call Pinson McWhorter. 15 16 PINSON MCWHORTER, 17 the witness herein, after having been first duly sworn upon 18 his oath, was examined and testified as follows: 19 DIRECT EXAMINATION 20 BY MR. CARR: 21 Q. Would you state your name for the record, please? 22 Α. Pinson McWhorter. Where do you reside? 23 Q. 24 Artesia, New Mexico. Α. 25 Q. By whom are you employed?

1	A. Yates Petroleum Corporation.
2	Q. What is your position with Yates?
3	A. Reservoir engineering supervisor.
4	Q. Have you previously testified before this
5	Division?
6	A. Yes, I have.
7	Q. At the time of that testimony, were your
8	credentials as an expert in reservoir engineering accepted
9	and made a matter of record?
10	A. Yes, they were.
11	Q. Are you familiar with the Application filed in
12	this case on behalf of Yates Petroleum Corporation?
13	A. Yes, I am.
14	Q. Have you made an engineering study of the area
15	surrounding Section 6, Township 22 South, Range 24 East?
16	A. Yes, I have.
17	Q. Are you prepared to share the results of that
18	study with the Examiner?
19	A. Yes.
20	MR. CARR: Are Mr. McWhorter's qualifications
21	acceptable?
22	EXAMINER CATANACH: They are.
23	Q. (By Mr. Carr) Mr. McWhorter, let's refer back to
24	what has been marked for identification as Yates Petroleum
25	Corporation Exhibit Number 1. Will you review the

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production information on that exhibit for the Examiner? 1 Yes, this exhibit shows in the cross-hatch the 2 Α. 3 section in question, Section 6, 22-24. All the wells that are portrayed on this exhibit 4 that are red in color, along with red cumulative production 5 numbers, are wells that are in the Indian Basin-Upper Penn 6 7 Gas Pool. 8 All wells that are in green, with green production numbers, cumulative production numbers, are in 9 10 the Indian Basin-Upper Penn Associated Pool. With regard to a statement made a while ago about 11 12 the confusion on the pool boundaries, as we checked into 13 this the plats that are maintained by the OCD does not show 14 Section 6 as being within the Upper Penn Associated Pool 15 boundary, but it shows it being in the Upper Penn Gas Pool 16 boundary. 17 However, documents from the OCD, we had the OCD 18 in Santa Fe send us a listing, a computer-generated 19 listing, of wells that are contained, that are of record at 20 the OCD, in the Indian Basin-Upper Penn Associated Pool. Is that list what's been marked as Yates Exhibit 21 ο. Number 5? 22 23 Α. That's correct. And what does that show? 24 Q. 25 Α. That shows that the Brannigan Number 2, which is

down in the southeast quarter of Section 6, is carried as 1 2 being an active well, an active oil well, in the Upper Penn Associated Pool, has a record by the OCD. 3 Additionally, it shows that the Brannigan Number 4 3, which is in the northeast quadrant of Section 6, as 5 6 being a temporarily abandoned well in the Upper Penn 7 Associated Pool. Another well that's north and close to the Brannigan Number 1. 8 Our contention is that there are at least two 9 10 wells within this section that the OCD has formally 11 recognized in their records as being in the Associated 12 Pool, despite the drawings on plats which would indicate 13 that Section 6 is only part of the Indian Basin-Upper Penn Gas Pool. 14 15 I would like the Examiner just to note for the 16 record that we're talking about an associated pool, and it 17 is perfectly legitimate -- in fact, by definition -- that 18 there would be oil wells and gas wells in an associated 19 pool. And consequently, this listing indicates that there 20 are several gas well completions and several oil well 21 completions within the Upper Penn Associated Pool. 22 With regards to some of the questions concerning 23 the nature of the hydrocarbon production, the sort of the 24 ratio of hydrocarbon productions that you had of Mr. May, I 25 would like to note that typically these wells do produce

with a lot of gas production, a lot of free gas production, 1 and very high GORs, which indicates that there is a lot of 2 free gas production, which indicates there is some 3 semblance of free gas, maybe a gas cap -- that's why it was 4 5 designated as an associated pool -- and the Brannigan 4 may 6 have producing characteristics very similar to the 7 Brannigan 1. 8 And that's not all that unusual in an associated pool, is what I'm saying, is that we will have gas wells in 9 an associated pool. They're part of the associated gas 10 And they do produce in very similar manners. 11 cap. I have some backup data that shows -- tabular 12 data that shows that the producing GORs for several of the 13 14 wells that are in the Indian Basin-Upper Penn Pool have 15 very high producing GORs, GORs that would really, 16 technically classify them as gas wells. So again, another indication that the producing 17 characteristics of the Brannigan 1 are not really all that 18 unlike the producing characteristics of several of the 19 20 wells that are in the Upper Penn Associated Pool already. 21 Another thing that I would like to mention is the 22 fact that -- and just maybe reiterate what Mr. Brent [sic] had said, that even extending this pool, contracting the 23 Upper Penn Gas Pool and extending the Upper Penn Associated 24 25 Pool, is not all that unlikely an event, given the fact

1	that these wells all, for the most part, produce out of the
2	same dolomite interval.
3	And they also produce similar reservoir fluids.
4	And by that I mean very fresh waters, which is very
5	unusual, but they each The whole dolomite section
6	produces very fresh waters and sour gas and sweet liquids
7	or sweet oil, is what I'm saying.
8	We find this commonly, whether we're talking
9	Brannigan 1, Brannigan 2, Brannigan 4, Old Ranch Canyon "7"
10	Number 1 or 2. All these have these same similar fluids,
11	which to me indicate that they probably in the same pool
12	there, is what I'm
13	Q. Mr. McWhorter, when you looked into the confusion
14	that exists concerning how wells in the section are
15	classified, you've even found discrepancy between records
16	in Artesia and the records in Santa Fe, have you not?
17	A. That's correct. What we found when we
18	subsequent to our conversation on July 8th with Mr. Gum in
19	our Artesia office, we At that point we were speaking
20	with Mr. Gum about putting this well in the associated
21	pool.
22	And we indicated at that time, because it was
23	the Brannigan 4, that is that it was in close proximity
24	to the Brannigan 2, which was in the associated pool, and
25	the Old Ranch Canyon wells in the associated pool.

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1	We used the OCD files and I have a copy of
2	those files in Artesia, which indicated that the
3	Brannigan 2 was, in fact, placed in the Upper Penn
4	Associated Pool, even though the plats that we were looking
5	at did not have any of Section 6 in the Upper Penn
6	Associated Pool.
7	Q. You also find this confusion in the prorationing
8	records, do you not?
9	A. That's correct.
10	Q. Now, in terms of resolving this confusion, when
11	you've looked at the way the wells in this reservoir
12	perform from an engineering perspective, in your opinion is
13	it appropriate to include all wells in Section 6 in the
14	associated pool?
15	A. Yes, I do.
16	Q. And is that how you are recommending to the
17	Examiner that this confusion be corrected and the problem
18	resolved?
19	A. Yes, that's what I'm recommending.
20	Q. In your opinion, will the deletion of Section 6
21	from the Indian Basin-Upper Pennsylvanian Gas Pool and the
22	addition of this acreage to the Indian Basin-Upper
23	Pennsylvanian Associated Pool be in the best interests of
24	conservation, the prevention of waste and the prevention of
25	correlative rights?

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1	A. Yes, I do.
2	Q. Do you believe that moving this section to the
3	associated pool is consistent with the information you have
4	on how the wells in this section are actually performing?
5	A. Yes, I do.
6	Q. Were Exhibits 1 and 5 either prepared by you or
7	compiled under your direction?
8	A. Yes, they were.
9	MR. CARR: At this time, Mr. Catanach, we move
10	the admission into evidence of Yates Petroleum Corporation
11	Exhibits 1 and 5.
12	EXAMINER CATANACH: Exhibits 1 and 5 will be
13	admitted as evidence.
14	MR. CARR: And that concludes my examination of
15	Mr. McWhorter.
16	EXAMINATION
17	BY EXAMINER CATANACH:
18	Q. Mr. McWhorter, the
19	A. Yes, sir.
20	Q Indian Basin-Upper Penn Gas Pool is
21	prorated
22	A. That's correct.
23	Q is that your understanding?
24	A. That is correct.
25	Q. Do you know what the gas allowable is at this

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1	point?
2	A. I'm going to tell you, I don't know the exact
3	number, but the range is 5 to 6 million a day.
4	Q. Under the rules for the Indian Basin Associated
5	Pool, do you know what your gas allowable would be for
6	Well, you would have in the Indian Basin-Upper Penn
7	Associated Pool you would have two different proration
8	units; is that correct?
9	A. That's correct, sir.
10	Q. So
11	A. We would have an east-side stand-up 320 and a
12	west-side standup 320.
13	Q. Okay. What's your understanding of the gas
14	allowable in that pool?
15	A. The way the rules read for the Indian Basin-Upper
16	Penn Associated Pool, that each 320 has a top allowable of
17	1400 barrels of oil production a day and a limiting GOR of
18	7000. I believe that calculates out to be somewhere in the
19	neighborhood of about 9.8 million a day per 320. Any
20	combination of wells in that proration unit, in total, in
21	sum, can produce up to 9.8 million a day.
22	Q. What is the current producing rate of the Number
23	1 well?
24	A. Currently, the Number 1 is shut in. But it has
25	the capability, when it was producing, of producing about 2

1	million a day of gas.
2	Q. How about the Number 2?
3	A. The Number 2 currently is producing 269 oil, 2934
4	MCF a day 2.9 million and 3746 barrels of water.
5	Q. How about the Number 4?
6	A. The Number 4 is producing 20 barrels of oil a
7	day, 4570 MCF a day and 3220 barrels of water.
8	Q. Are there any plans to reactivate the Number 3
9	well at this point?
10	A. I would say that that is a plan. It's not like a
11	plan that we're going to go out and do within the very near
12	time frame, but that would be a plan to investigate the
13	possibility of re-entering the Number 3 well. It's a
14	possibility.
15	We are studying compression in this area. These
16	wells have a lot higher flowing bottomhole pressure right
17	now than These wells have a lot more producing capacity,
18	is what I'm saying, and we believe that in the near future
19	that these wells will be able to perhaps produce even a
20	little bit more gas than what we're able to produce at this
21	time.
22	Q. So your wells in Section 6 are capable at this
23	point of probably production of probably 9.4 million a
24	day?
25	A. That's correct right now.

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1	Q. So by placing the wells in the associated pool,
2	you will be able to produce all of this gas
3	A. That's right.
4	Q as opposed to being in the gas pool, which
5	will have an allowable?
6	A. Yes, sir.
7	Q. Who are you competing with in the offset
8	sections, and how are you Aren't you gaining an
9	advantage to the proration units to the north and the west
10	by placing these wells in the associated pool?
11	A. Well, the Brannigan 1, I think, will be able to
12	produce about It's the one, the one well, that is close
13	to our offset producers here, Devon Energy and ourselves.
14	We're to the west; Devon Energy is to the north. That well
15	will probably only be able to produce a little bit more
16	than what it's already currently producing as a well in the
17	prorated gas pool, is what I'm saying. Therefore it will
18	not encroach any more, even if it's placed in the Upper
19	Penn Associated Pool, than what it's currently doing in the
20	Upper Penn Gas Pool.
21	The Brannigan 4 to the south is significantly
22	east of our own proration unit, which is to the west
23	located in Section 1. Therefore it's more than a legal
24	setback for an Upper Penn Associated Pool, which has the
25	ability to produce up to 9.8 million a day. And it's at a

<ul> <li>legal setback from Santa Fe Energy, which is to the south,</li> <li>and therefore it could legally produce up to 9.8 million a</li> <li>day, although it would never get to that rate.</li> <li>So my contention is, from that statement,</li> <li>statements, that the correlative rights of the offset</li> <li>operators will be protected and there will be no advantage</li> <li>gained to Devon or the other offset operator, Santa Fe</li> <li>Energy.</li> <li>Q. Yates operates the two offset sections well,</li> <li>Section 1 and 12; is that right?</li> <li>A. That's correct, yes, sir.</li> <li>Q. And Devon Is that the only well in Section 31,</li> <li>is that one Devon Winston Number 1?</li> <li>A. It's not the only well, sir, but it's the only</li> <li>upper Penn gas well in that section. These wells that I</li> <li>have posted on here are not necessarily an exhaustive</li> <li>posting of all wells within these sections. They're only</li> <li>wells that are completed or have been completed in the</li> <li>Upper Penn Gas Pool and the Upper Penn Associated Pool.</li> <li>There are Morrow penetrations that are in the</li> <li>northern part of Section 31, I believe, there's a Morrow</li> <li>well up in the northern part of Section 31, that is not</li> <li>reflected upon this plat.</li> <li>Q. Well, do you know if any of these offset</li> <li>proration units that are in the gas pool, do you know if</li> </ul>		
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	23	reflected upon this plat.
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they're limited by the gas allowable? I mean, are they 1 2 capable of producing in excess of the gas allowable? 3 Α. That I don't know. I cannot give you an answer. 4 I don't know if those wells operated by Devon are really 5 restricted. But I will say this. It may have the capability 6 7 of producing, but the Winston Gas Com Number 1, which is Devon's well to the north, is currently listed as inactive. 8 So I can't testify to what the producibility of 9 that well is, but obviously Devon doesn't have a very high 10 11 opinion of the producibility of the well because it's an inactive well. 12 13 Q. Okay. Do you know anything about the Oryx wells 14 in Section 36? 15 Α. Both of the Oryx wells in Section 36 are also being carried as inactive at this time. 16 17 Well, do you have knowledge about your proration ο. 18 units in Section 1 and Section 12, as part of --19 Α. Yes, I do, and those wells -- I wish they could, 20 but they cannot even come close to producing anywhere near 21 the current prorated allowable for the prorated gas pool. 22 Q. The three wells that you operate in Section 1, 23 you're talking about? 24 Α. The wells that we operate in Section 1, and in 25 Section 12 also.

1	Q. So both those proration units are not capable of
2	producing the allowable?
3	A. That's correct. That is correct, sir.
4	Q. As far as you can tell, if we reclassify these
5	wells you're really not you don't think you're gaining
6	an advantage over these offset proration units?
7	A. No, sir, I do not.
8	EXAMINER CATANACH: Mr. Carr, who do we give
9	notice to in this case?
10	MR. CARR: At the end of the case I'm going or
11	I can now, move the admission of Exhibit Number 6, which is
12	my affidavit confirming that notice of this hearing and
13	Application has been provided to all the offset operators.
14	Attached on the letter are some return receipts showing
15	that notice was given to Santa Fe, Oryx, Devon, Maralo and
16	Citation.
17	Q. (By Examiner Catanach) Have you guys received
18	any Have you been in contact with any of these offset
19	operators, or have they called or voiced any
20	A. No.
21	Q concern?
22	A. No, they have not.
23	Q. Aside from the work that you may do on the Number
24	3, are you planning to drill any more wells in Section 6?
25	A. I'm not going to preclude the possibility that we

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1	might drill more wells in Section 6. I want to say that
2	that is a possibility, that we could, or would.
3	EXAMINER CATANACH: I believe that's all I have
4	of this witness, Mr. Carr.
5	MR. CARR: Mr. Catanach, I'd move the admission
6	of the notice affidavit, Exhibit Number 6.
7	EXAMINER CATANACH: Exhibit Number 6 will be
8	admitted as evidence.
9	MR. CARR: And that concludes our presentation in
10	this case.
11	EXAMINER CATANACH: All right, there being
12	nothing further in this case, Case 11,841 will be taken
13	under advisement.
14	(Thereupon, these proceedings were concluded at
15	9:37 a.m.)
16	* * *
17	i
18	I do hereby certify that the foregoing is
19	a complete record of the proceedings in the Examiner hearing of Case No.
20	heard by me on Sedanber 4 1997.
21	Oll Conservation Division
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## 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 September 5th, 1997.

STEVEN T. BRENNER CCR No. 7

My commission expires: October 14, 1998