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 RAPTOR RESOURCES, INC., FOR TWO UNORTHODOX INFILL GAS WELL LOCATIONS AND SIMULTANEOUS DEDICATION, LEA COUNTY, NEW MEXICO) CASE NOS. 12,623
APPLICATION OF RAPTOR RESOURCES, INC.,) FOR AN UNORTHODOX INFILL GAS WELL) LOCATION AND SIMULTANEOUS DEDICATION,) LEA COUNTY, NEW MEXICO	
APPLICATION OF RAPTOR RESOURCES, INC.,) FOR AN UNORTHODOX INFILL GAS WELL) LOCATION AND SIMULTANEOUS DEDICATION,) LEA COUNTY, NEW MEXICO)	and 12,625 (Consolidated)
REPORTER'S TRANSCRIPT OF PROCE	EDINGS
EXAMINER HEARING	ORIGINAL

BEFORE: MICHAEL E. STOGNER, Hearing Examiner

April 19th, 2001

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, MICHAEL E. STOGNER, Hearing Examiner, on Thursday, April 19th, 2001, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South Saint Francis Drive, Room 102, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

* * *

STEVEN T. BRENNER, CCR (505) 989-9317

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APPEARANCES

FOR THE APPLICANT:

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

* * *

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WHEREUPON, the following proceedings were h11:00 a.m.:3EXAMINER STOGNER: This hearing will come t	nad at
3 EXAMINER STOGNER: This hearing will come t	
	to
4 order. At this time I'll call Case Number 12,623, wh	nich is
5 the Application of Raptor Resources, Inc., for two	
6 unorthodox infill gas well locations and simultaneous	5
7 dedication, Lea County, New Mexico.	
8 At this time I'll call for appearances.	
9 MR. CARR: May it please the Examiner, my r	name is
10 William F. Carr with the Santa Fe office of the law f	firm
11 Holland and Hart, L.L.P. We represent Raptor Resource	ces in
12 this matter, and I have three witnesses.	
13 EXAMINER STOGNER: Any other appearances?	
14 Will the witnesses please stand to be sworr	1?
15 (Thereupon, the witnesses were sworn.)	
16 MR. CARR: Mr. Stogner, at this time I woul	Ld
17 request that this case be consolidated with the next	two
18 cases. The following two cases are Applications of F	Raptor
19 Resources. Again, they involve additional developmer	nt of
20 the Jalmat Gas Pool. The same issues are involved in	n each
21 of the cases and the general reasons supporting the	
22 Applications are the same. I would request that they	y be
23 consolidated for the purpose of testimony.	
24 EXAMINER STOGNER: At this time I'm going t	co call
25 Case Number 12,624, which is also the Application of	Raptor

1	Resources, Inc., for an unorthodox infill gas well location
2	with simultaneous dedication, Lea County, New Mexico; and
3	Case 12,625, which is the Application of Raptor Resources,
4	Inc., for an unorthodox infill gas well location and
5	simultaneous dedication, Lea County, New Mexico.
6	Other than the Applicant, are there any other
7	appearances in any of these matters? Then Cases 12,625,
8	12,624 and 12,623 will be consolidated for purposes of
9	testimony today, and if applicable a single order can be
10	issued.
11	MR. CARR: Mr. Examiner, I also have a brief
12	opening statement.
13	EXAMINER STOGNER: Okay, Mr. Carr?
14	MR. CARR: May it please the Examiner, with these
15	Applications Raptor Resources, Inc., seeks authorization to
16	drill five additional wells in the Jalmat Gas Pool. The
17	wells are proposed on three spacing units, and they will be
18	on a density of less than one well per 160 acres. All are
19	infill wells. Four are at unorthodox well locations.
20	And we also are seeking authorization to
21	simultaneously dedicate all wells on the three spacing or
22	proration units which are the subject of these consolidated
23	hearings.
24	As the Examiner is aware, for the past
25	approximately year and a half there have been a number of
L	

issues concerning the proper development of the Jalmat and the Eumont gas pool. There's been litigation, there have been industry meetings, and it is our understanding that the basic rules that govern the pool are still under review by the agency.

In this case, Raptor Resources will present testimony which we believe meets the standard set by the rules which govern the development of the Jalmat Gas Pool.

9 We also believe our presentation will meet the 10 standards announced by the District Court of Santa Fe 11 County in the Stipulated Declaratory Judgment which was 12 entered on December 15th in the year 2000, which in fact 13 imposed some additional requirements on operators if they 14 decided to develop this pool on a density of wells greater 15 than one well per 160-acre spacing unit.

16 The evidence we're going to present today is 17 going to be organized in this fashion. First, we're going 18 to call John Lawrence. Mr. Lawrence is a petroleum 19 engineer. He is the person at Raptor who is responsible 20 for their redevelopment program of the Jalmat Gas Pool.

We're going to call Mr. Lawrence twice, with your permission, first to provide a general background. What he's going to do is review for you why Raptor became interested in redeveloping certain spacing units in the Jalmat Gas Pool. They have drilled 15 wells as part of

this program to date. The density is greater than one well 1 per 160 acres. And he is going to review with you the 2 success they have achieved with this program. We're here 3 today seeking authority to continue this effort. 4 I think it's important to note that as we have 5 gone forward with this effort we have attempted to comply 6 7 with the rules as we understand the rules to be. It's been 8 sometimes, Mr. Stogner, a sort of a continuously moving target. But when we have been in doubt as to what was 9 required of the rules, we have erred on the side, we think, 10 of doing too much. And we will show you exactly what we 11 have done, not only to comply with Jalmat rules but to meet 12 the standards announced by the District Court. 13 Mr. Lawrence is responsible for this program, 14 he's going to review the history of it, he's going to tell 15 16 you how new locations are selected. He's going to tell you 17 why it is we believe there are bypassed reserves that are available to now be produced, produced not as a rate 18 acceleration but, in fact, as incremental production. 19 And because the Court in its order said that we 20 would show you that we could economically and efficiently 21 produce the reserves, we're also going to show you what our 22 economic criteria are for this redevelopment program. 23 We're then going to call Mr. Keathly. Bill 24 Keathly is providing our land testimony. He was asked to 25

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identify the offset owners to each of the subject spacing
units and to assure that notice has been provided of this
consolidated hearing as required by the rules of the Oil
Conservation Division and the Order of the District Court.
He will explain how we approached this task and to whom
notice has been provided.

We're then going to move to the portion of the 7 court order that says we must justify these wells to you. 8 9 We're going to call Dave Pearcy, a geologist who's going to review the geology on each of the five locations that we're 10 talking about. He's going to show you that the geological 11 12 characteristics of the reservoir in these particular areas justify an additional well, and he's going to identify for 13 you intervals which have not been perforated or produced in 14 offsetting properties. 15

Once we've done that, we're going to recall Mr. 16 Lawrence. He's going to show why we believe a well at each 17 of these locations is needed to efficiently and 18 economically develop the reserves. He's going to show you 19 that these are additional reserves, not rate acceleration. 20 And at the end, we submit, we will have complied with the 21 rules of the Division and the Order of the District Court, 22 23 and we'll ask you to enter orders approving five additional orders in the Jalmat Gas Pool. 24

25

At this time, with your permission, we would call

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10

1	John Lawrence.
2	EXAMINER STOGNER: Thank you, Mr. Carr.
3	MR. CARR: And Mr. Stogner, there's a set of
4	exhibits in front of you clipped in a number of small
5	packets, but I think the set before you is complete.
6	JOHN J. LAWRENCE,
7	the witness herein, after having been first duly sworn upon
8	his oath, was examined and testified as follows:
9	DIRECT EXAMINATION
10	BY MR. CARR:
11	Q. Would you state your name for the record, please?
12	A. John J. Lawrence.
13	Q. Mr. Lawrence, where do you reside?
14	A. Midland, Texas.
15	Q. By whom are you employed?
16	A. Raptor Resources.
17	Q. What is your position with Raptor Resources?
18	A. Vice president of engineering.
19	Q. You are the engineer with Raptor who is
20	responsible for the redevelopment program of the Jalmat gas
21	reserves; is that correct?
22	A. That is correct.
23	Q. Have you previously testified before the New
24	Mexico Oil Conservation Division?
25	A. No, I have not.

Would you summarize your educational background 1 Q. for Mr. Stogner? 2 I graduated with a bachelor of science degree in 3 Α. chemical engineering from Texas A&M University in December 4 of 1980. 5 And since graduation, for whom have you worked? 6 Q. I worked for 13 years as a petroleum engineer for 7 Α. Cities Service Oil and Gas. Eventually it became OXY USA, 8 9 Inc. And when did you start working for Raptor? 10 Q. After I left OXY I initiated my own consulting 11 Α. 12 company, which eventually has evolved into Raptor Resources 13 over the last six years. And since graduation have you at all times worked 14 Q. 15 as a petroleum engineer? 16 Α. Yes, I have. 17 Are you familiar with the Application filed by Q. Raptor Resources in each of these consolidated cases? 18 19 Α. Yes. And have you made an engineering study of the 20 Q. particular spacing units which are involved with these 21 Applications? 22 Yes, I have. 23 Α. And are you prepared to share the results of your 24 Q. 25 work with Mr. Stogner?

Yes, sir. 1 Α. At this time we would tender Mr. MR. CARR: 2 Lawrence as an expert witness in petroleum engineering. 3 EXAMINER STOGNER: Mr. Lawrence is so qualified. 4 (By Mr. Carr) Mr. Lawrence, would you briefly 5 Q. describe in a general way what it is Raptor Resources seeks 6 with these Applications? 7 We seek exceptions to the well-location 8 Α. requirements provided by the special pool rules and 9 regulations for the Jalmat Gas Pool, further, pursuant to 10 11 the rules governing the Jalmat Gas Pool in the stipulated 12 declaratory judgment issued by the District Court that we 13 will individually review each Application. 14 Q. Are you also seeking authorization to simultaneously dedicate new wells and the existing wells on 15 each of the subject spacing units? 16 Α. Yes. 17 You are proposing to go to a well density that is 18 Q. more than one well per 160 acres; is that correct? 19 That is correct. 20 Α. Could you generally review the purpose of your 21 Q. initial testimony here today? 22 23 Basically what I plan on doing today is giving a Α. 24 historical overview of the acreage that Raptor possesses in the Jalmat Pool, reviewing the work of two previous 25

1	operators and also reviewing the work that we have
2	conducted in the field.
3	Q. Are we also then going to review the economic
4	criteria that's employed as you go forward with this
5	program?
6	A. Yes, I will.
7	Q. When did Raptor acquire its interests in this
8	area?
9	A. We purchased the acreage from Clayton Williams
10	Corporation in April of 1999.
11	Q. And what had caused Raptor to become interested
12	in redeveloping Jalmat Gas Reserves?
13	A. I had done some previous engineering work in this
14	particular area and believed that the property and acreage
15	had remaining potential in both the Yates and the Seven
16	Rivers gas formation.
17	Q. Let's go to what has been marked for
18	identification as Raptor Exhibit Number 1. I would ask you
19	to identify this exhibit and explain what it shows.
20	A. This particular plat shows the outlines of the
21	Jalmat Gas Pool. The acreage highlighted in yellow is the
22	acreage that is currently operated by Raptor Resources,
23	Inc. The northern acreage we will refer to will be the
24	State "A" Account 2 leases. The larger plot to the south
25	is primarily the State "A" Account 1 lease.

1	Q. And in each of these in the Account 1 and in
2	the Account 2, throughout those areas, you have common
3	working interest ownership, do you not?
4	A. That is correct, we have common working interest
5	ownership that have approved AFEs for the proposed work.
6	Q. And then as we go into this presentation we will
7	show at a later time smaller maps that show each of the
8	subject spacing units which are involved in the individual
9	cases; is that correct?
10	A. That is correct.
11	Q. All right, let's go to what has been marked
12	Raptor Exhibit Number 2. Could you identify this and
13	review it for Mr. Stogner?
14	A. Mr. Stogner, this is a historical production
15	curve of the acreage that Raptor operates. And a couple
16	things that I would like to point out on this particular
17	production curve.
18	From the period of the early 1970s through the
19	late 1980s there was very little, if any, activity on the
20	said acreage. In the late 1980s there was an operating
21	entity out of Midland, Texas, Hal Rasmussen, as well as
22	Clayton Williams, that took over the properties, initiated
23	redeveloping gas wells in the Jalmat Gas Pool on density of
24	less than 160-acre spacing, had significant success. As
25	you can see, they actually took the property up to a peak

production in excess of 12 million cubic feet of gas a day. 1 If you look on the established historical 2 production decline, the work that was done by Rasmussen and 3 Williams was actual incremental reserves that were 4 produced. As you can see with the work that was done in 5 the late 1980s and early 1990s, the decline curve from that 6 7 work mirrors exactly the historical decline from the 1970s, which to me is a very, very strong indication that these 8 9 are indeed incremental gas reserves that are being produced by taking wells down on tighter density. 10 11 In conjunction with that you can see that in late 1999 and 2000, when Raptor became the operator and we 12 initiated kind of a continuation of the development that 13 Rasmussen and Williams had done previous, we have noticed 14 15 and had a significant increase in gas production from our efforts, and again feel that those reserves are incremental 16 reserves that are being produced from the properties. 17 18 Q. To date, how many wells have you actually drilled 19 or recompleted? We have actually recompleted, plugged back or 20 Α. 21 drilled approximately 30 wells in the Jalmat Gas Pool in 22 the little over two years that we've owned the property. 23 And how many wells were involved in the 0. Rasmussen-Williams effort? 24 25 There were 56 wells that have been recompleted in Α.

1	their efforts over a two-year time span. Basically, when
2	Clayton Williams took over operations of the property in
3	1991, he discontinued any additional development at that
4	time, and there was no work done on the acreage for
5	approximately ten years until we took over operations.
6	Q. Let's go to what has been marked Raptor Exhibit
7	Number 3, the bar graph. Would you explain what this
8	shows?
9	A. This is a historical summary of the work that had
10	been done by both Rasmussen and Clayton Williams.
11	The bottom line on the bar graph is the estimated
12	ultimate recovery of the particular wells in million cubic
13	feet of gas.
14	On the left-hand column, it's the number of wells
15	that actually will fall in that particular category.
16	For example, when you look on the bottom side of
17	the graph under the number "3", that means that there are
18	12 wells that will produce approximately 300 million cubic
19	feet of gas ultimately from the work that was done back in
20	the late 1980s or early 1990s.
21	And as you can see, there's distribution ranging
22	from on the low side of 100 million cubic feet to four
23	wells that actually will produce in excess of a BCF of gas.
24	Q. And this bar graph represents all of the 50-plus
25	wells involved in the Rasmussen-Williams redevelopment

program? 1 That is correct. Α. 2 What success rate did they achieve with these 3 Q. wells? 4 Based on our economic criteria, they had a 5 Α. greater than 90-percent success rate from their work. 6 And I think when you look at this and then you look at the 7 incremental wedge of production from the previous exhibit, 8 you can see that that is, in fact, incremental production 9 recovered from their efforts. 10 Let's go to what's been marked for identification 11 Q. as our Exhibit Number 4. Would you identify this and 12 13 explain it? This particular exhibit contains the 15 most 14 Α. 15 recent recompletions that Raptor Resources has done on the 16 The 15 wells that we have reworked have had an acreage. 17 average initial potential of 377 MCF of gas per day. And it's just kind of a historical -- it shows what zones and 18 intervals and the location of the particular wells and the 19 initial potentials from those particular wells. 20 All right. I'd like you to take out Exhibits 5 21 0. and 6. And using these exhibits and the information on 22 Exhibit 5 for the State "A" A/C 1 Number 127 well, using 23 this material, I would like you to explain to the Examiner 24 how you go about -- what criteria Raptor uses in selecting 25

new locations in the Jalmat Gas Pool?

1

Mr. Stogner, what we typically do on each one of Α. 2 these particular locations is that we will go and look at 3 the eight offset wells to the particular location in 4 question. We'll go back in and research when the well was 5 drilled and completed, what intervals the particular well 6 was completed in, what size of stimulation was actually 7 done on that particular well, and then also we have in the 8 table a cumulative gas production from the offset wells to 9 that particular location. 10 We use this in conjunction with a geological 11 12 interpretation in trying to determine net feet of pay for a 13 particular location as our criteria for additional 14 development. What does Exhibit Number 5 show us? 15 ο. Exhibit Number 5 are the particular wells that 16 Α. offset well location Number 127. 127 -- and this is in the 17 State "A" Account 1 lease, which was a good well, not one 18 of our best wells, that was originally completed with an IP 19 of 527 MCF of gas per day. 20 What we did when we were evaluating this location 21 was again go to the offsets -- north, south, east, west and 22

23 the diagonal offsets -- and look at the prior histories of 24 those wells, and then we would look at cross-sections that 25 were created to evaluate the net feet of pay thickness in

there and determined if it was a viable candidate to come 1 back in and either redrill or potentially plug back in the 2 given location. 3 And the treatment employed at the time the well 4 Q. was initially drilled and completed was a factor as well, 5 was it not? 6 That is correct. That is correct, yes. When you 7 Α. look on this table, there are a number of wells that were 8 completed back in the early 1950s that either had utilized 9 natural-type completions or very small fracs, and they did 10 not open up all the potential pay intervals that we have 11 12 identified through our efforts out there. 13 As you can see, a number of the wells in this 14 particular table were just completed in the Yates, and very few of them had actually any completions in the Seven 15 Rivers formation. 16 We're talking about three spacing units, one 480 17 0. acres in size, one 520 and one standard 640-acre unit. 18 With these units under the pool rules, the wells should be 19 back 990 feet from the outer boundary. 20 Is the information that you've shown us on the 21 22 127 the kind of analysis that you made that has resulted in four of these five wells being closer than 990 feet to the 23 outer boundary of the spacing unit? 24 25 Yes, it is. And the basis for that, a number of Α.

	20
1	these wells in fact, almost all of them, were originally
2	drilled to the base of the Queen formation and were
3	originally classified as oil wells, which the setbacks were
4	660 feet off the lease lines.
5	And so in order to maintain 1320-feet well
6	spacing we have indicated that we'd like to have the
7	location 660 feet off the corresponding lease lines.
8	EXAMINER STOGNER: Now I'm going to stop you
9	right there, Mr. Carr.
10	MR. CARR: Yes, sir.
11	EXAMINER STOGNER: Go back and ask that question
12	again, because I want to make sure, I don't want anybody to
13	mislead
14	MR. CARR: Uh-huh.
15	EXAMINER STOGNER: be misled in any way about
16	what the current rules and regulations say. And I heard
17	something there that was not quite true
18	MR. CARR: All right
19	EXAMINER STOGNER: and I'll give you a chance
20	to
21	MR. CARR: my understanding of the rules is
22	that the larger the spacing unit, the greater the setback,
23	that all of these fall within a category where a well
24	should be 990 from the outer boundary, because the smallest
25	one is 480 acres. If that's wrong, that's my

misunderstanding. 1 2 EXAMINER STOGNER: Okay, let's go back and make Who is your expert on the rules? 3 sure. 4 MR. CARR: I'm the expert, unfortunately, on the 5 rules. I looked at the rules --6 EXAMINER STOGNER: You mean Raptor doesn't have 7 anybody here that is? MR. CARR: Well, Raptor has relied on me to 8 interpret the rules for them. That's what I was hired to 9 10 do. 11 EXAMINER STOGNER: But Raptor's made a bunch of 12 Applications over the years. 13 MR. CARR: Correct. 14 EXAMINER STOGNER: You're telling me that you were the only one in those, that --15 MR. CARR: No --16 17 EXAMINER STOGNER: -- you were not involved in --MR. CARR: No. 1.8 19 EXAMINER STOGNER: -- they went along without having an expert that knows what the rules --20 21 MR. CARR: No, they have used -- Internally, they have interpreted the rules. But as to this case, Mr. 22 23 Stogner -- because we have had trouble, you know that --24 EXAMINER STOGNER: And that's why I want to make 25 sure --

MR. CARR: -- and I have stepped in, and 1 yesterday I checked the rules, and the table that I saw in 2 R-8170 told me that we needed to be back 990 from the outer 3 4 boundary. EXAMINER STOGNER: Okay, well, let's make sure. 5 MR. CARR: Okay. 6 EXAMINER STOGNER: Up to 600 acres, 990-990. 7 But how about a standard 640? What's the setback? "A gas well 8 9 in the Jalmat Gas Pool to which 640 acres is dedicated shall be located no closer than 1650 feet to the outer 10 boundary of the section." 11 MR. CARR: All right, then I'm in error on that, 12 13 and that is my error. Nonetheless, each of these, Mr. Stogner, is 14 15 unorthodox toward the outer boundary. EXAMINER STOGNER: Okay. I wanted to make sure 16 that --17 MR. CARR: Correct. 18 EXAMINER STOGNER: -- we're clear --19 20 MR. CARR: Right. 21 EXAMINER STOGNER: -- not only for me and you at this time --22 23 MR. CARR: No. EXAMINER STOGNER: -- and the people here at the 24 25 hearing but anybody else that reads the transcript --

MR. CARR: Correct. 1 EXAMINER STOGNER: -- or anybody that --2 MR. CARR: Well --3 EXAMINER STOGNER: -- I make the recommendation 4 to, we want to make sure that --5 MR. CARR: No, you're right, and I grabbed the 6 Byram book and looked at that table, and I knew we were 7 over what was shown in the table, and it said 990-990, and 8 that's what I worked with, but --9 10 EXAMINER STOGNER: I'm real surprised one of your 11 witnesses didn't jump up and correct me today. So we'll 12 just keep that under --MR. CARR: All right. 13 14 EXAMINER STOGNER: -- under consideration. 15 MR. CARR: All right. Are you ready for us to proceed, sir? 16 17 EXAMINER STOGNER: Yes. Q. (By Mr. Carr) Mr. Lawrence, the District Court 18 in its Stipulated Declaratory Judgment directed operators 19 to show that proposed wells are necessary to efficiently 20 and economically drain proration units. 21 22 Could you refer to Raptor Exhibit Number 7 and 23 give an overview of the economic considerations involved in your determinations to drill one of these wells? 24 25 Exhibit Number 7 is a table that basically Α.

	27
1	identifies the cost for Raptor to drill a new well in the
2	Jalmat Gas Pool. That capital expenditure is approximately
3	\$315,000. Based on the previous exhibit that showed an
4	average initial potential of 377 MCF per day, that would
5	give us an estimated ultimate recovery of approximately 590
6	million cubic feet from that particular well location.
7	Utilizing a \$5 MCF gas price, which is right now
8	a little below actual market conditions, it takes
9	approximately 73 million feet of gas to be produced from
10	that particular well to pay out the capital expenditure.
11	Running a sensitivity case, utilizing a \$2.50-
12	per-MCF price, it takes approximately 155 million cubic
13	feet of gas to be able to pay out your capital expenditure
14	for the particular well in question.
15	Q. In your opinion, can the wells that you're
16	proposing be economically drilled?
17	A. Yes, they can.
18	Q. Could you explain to us To what do you
19	attribute your ability to access and produce additional
20	reserves under these tracts in the Jalmat Gas Pool?
21	A. Based on our evaluation, we feel that some of the
22	older wells were inadequately treated, some used natural
23	completions, some used small frac jobs, not all the zones
24	were opened up to be able to effectively develop the entire
25	reservoir. Some of the wells actually were completed open
-	

hole in the procedure they used at that point in time to be 1 able to shoot nitro and open up the reservoir. I don't 2 think it was effective in opening up the entire pay 3 interval. 4 Previous operators in this field, when they were 5 plugging back from the Queen formation to go into the Yates 6 Pool, typically a lot or a majority of the Seven Rivers gas 7 sands that are in existence in here. 8 And based on those reasons, that's why we feel 9 there's additional reserves to recover, plus we have found 10 that there a number of sand members that are lenticular in 11 12 nature, and so they are not continuous from well to well, 13 even on tighter density. 14 Q. What conclusions generally has Raptor reached 15 from its study of the Jalmat Gas Pool? We feel there are substantial reserves to be 16 Α. 17 recovered from these particular efforts, based on the work that Rasmussen-Williams has done, the work that we have 18 done, and a look at the historical production curves off 19 20 the property, that these are indeed incremental reserves recovered from our efforts. 21 What would have been the daily production rate 22 Q. from the acreage that you redeveloped in your 2000 23 redevelopment program? 24 Had we not done anything on the property after 25 Α.

purchasing from Clayton Williams, the property would be 1 producing approximately 3 to 3.1 million cubic feet of gas 2 a day. Current daily production is in excess of 7 million 3 cubic feet a day from our work efforts. 4 Will Raptor now call witnesses that will address 5 0. each of the three spacing units which are the subjects of 6 7 these Applications and demonstrate that the proposed additional wells are necessary to produce recoverable 8 reserves under these spacing and proration units? 9 Α. Yes, we will. 10 Were Exhibits 1 through 7 prepared by you or 11 Q. compiled under your direction? 12 Α. Yes, sir. 13 MR. CARR: At this time we'd move the admission 14 into evidence, Mr. Stogner, of Raptor Exhibits 1 through 7. 15 16 EXAMINER STOGNER: Exhibits 1 through 7 will be 17 admitted into evidence at this time. MR. CARR: And I pass the witness for cross-18 examination. 19 EXAMINATION 20 BY EXAMINER STOGNER: 21 On your Exhibit Number 4, now, this shows --22 Q. These are all new completions or -- okay, new drills or new 23 recompletions. 24 Yes, sir. 25 Α.

1	Q. How many are actual new drills?
2	A. One, two, three, four of the locations are new
3	drills.
4	Q. Okay, which ones are those?
5	A. That would be the Numbers 127, 128 and 129 in
6	Account 1, and then the State A/C 2 Well Number 75.
7	Q. 127, 128, 129, Number 75, and what was the other
8	one?
9	A. That was it, the State A/C
10	Q. Just those four?
11	A. Yes, sir.
12	Q. And the other recompletions were what kind of
13	wells?
14	A. Typically they were wells that either had been
15	temporarily abandoned or were uneconomical, very marginal,
16	Langlie-Mattix Queen wells that we would plug back and set
17	a retrievable bridge plug and come back up the hole and
18	complete in the gas interval.
19	Q. Did these wells typically the production
20	dropoff or the production rates, did you see a typical
21	dropoff that kind of mirrors what you tried to show in
22	Exhibit Number 2, or did they have virgin characteristics
23	out there?
24	A. We've seen a tremendous variation with how they
25	responded in the variation in pressures.

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1	Q. How about some of the higher producers, in
2	particular the Number 25 and Number 34, which Those
3	would be classified as nonmarginal, would they not?
4	A. That's correct.
5	Q. Okay, what did those show?
6	A. Basically we had what we felt were almost virgin-
7	type pressures that we were recovering the gas from. I
8	think another indication of the success we've had in here
9	is that the IPs that we have had on our wells have been
10	equal to or better than the results from previous efforts.
11	Q. Okay, when I look at Exhibit Number 5, you show
12	this for the Number 127, which also appears in Exhibit
13	Number 4.
14	A. That's correct.
15	Q. Okay. Now, 127 initially came on in October of
16	2000; is that correct?
17	A. That's correct.
18	Q. And when you say "current rate", this is current
19	rate as of ?
20	A. As of in the last 30 days.
21	Q. Thirty days, okay.
22	When one reviews Exhibit Number 5, one thing that
23	seems to pop out the most is the pay interval. Now, does
24	that also reflect the perforations?
25	A. That is correct. That is the actual interval

that has been perforated. It's not a top-to-bottom pay 1 2 thickness, that's the actual productive interval in that particular well. 3 What's the typical -- Well, for this Well Number 4 0. 5 127, how many perforations per foot, or do you go in there and actually get kind of scientific and -- 10 feet here, 30 6 feet here? Because you've got a -- I don't know, what? A 7 550-foot interval? 8 Right. Typically we have no more than 20 to 25 9 Α. perforations on a given wellbore. 10 So you're very particular? 11 Q. 12 Α. Very selective. 13 Q. Okay, selective first. When I look at your 1952 14 and 1953 completion dates, can one typically look at those 15 and say that was an open-hole completion, or did those have perfs also? 16 It can be a combination of -- Sometimes they were 17 Α. open-hole completed, sometimes there were perforated 18 intervals, and we have a combination now. 19 Okay. What are some of your older wells? 20 Q. Do they go back to the 1940s? 21 22 Α. Yes, sure do. Any back to the 1930s? 23 Q. Not that I'm familiar with. 24 I know we have a Α. number that are back to the 1940s but I'm not familiar with 25

 to go away, or that type of completion? A. Oh, I don't think any open-hole completions have probably been done since the early 1960s. Q. Okay. When I look at your Exhibit Number 1, now the yellow-shaded markings is ? A. That's the Raptor acreage. Q. Is Raptor acreage. Now, the areas that we're talking about here today Okay, well, let me go back. Referencing Exhibit Number 1, in looking at your yellow markings here in this particular pool, you have essentially two areas that look like they're correlative to each other Are all of these within that lower big area that Raptor operates? And that looks like it's I can't see the Township 23 South, 36 East, or do you have some up above i the township to the north about A. No, this is all the acreage that we operate. Q. Okay. But where are the cases that we're talking about today? A. Two of the particular cases are in Section 11, 		
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 A. Oh, I don't think any open-hole completions have probably been done since the early 1960s. Q. Okay. When I look at your Exhibit Number 1, now the yellow-shaded markings is ? A. That's the Raptor acreage. Q. Is Raptor acreage. Now, the areas that we're talking about here today Okay, well, let me go back. Referencing Exhibit Number 1, in looking at your yellow markings here in this particular pool, you have essentially two areas that look like they're correlative to each other Are all of these within that lower big area that Raptor operates? And that looks like it's I can't see the Township 23 South, 36 East, or do you have some up above in the township to the north about A. No, this is all the acreage that we operate. Q. Okay. But where are the cases that we're talking about today? A. Two of the particular cases are in Section 11, 	2	Q. Okay. What time period does the open holes tend
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17 the township to the north about 18 A. No, this is all the acreage that we operate. 19 Q. Okay. But where are the cases that we're talking 20 about today? 21 A. Two of the particular cases are in Section 11,	15	operates? And that looks like it's I can't see the
 A. No, this is all the acreage that we operate. Q. Okay. But where are the cases that we're talking about today? A. Two of the particular cases are in Section 11, 	16	Township 23 South, 36 East, or do you have some up above in
 Q. Okay. But where are the cases that we're talking about today? A. Two of the particular cases are in Section 11, 	17	the township to the north about
 20 about today? 21 A. Two of the particular cases are in Section 11, 	18	A. No, this is all the acreage that we operate.
A. Two of the particular cases are in Section 11,	19	Q. Okay. But where are the cases that we're talking
	20	about today?
22 which would be the section up to the north that stands out	21	A. Two of the particular cases are in Section 11,
	22	which would be the section up to the north that stands out
23 by itself. And then there are three locations that are	23	by itself. And then there are three locations that are
24 down on the State "A" Account 1 lease to the south. Two of	24	down on the State "A" Account 1 lease to the south. Two of
25 them are kind of on the west central portion of the area in	25	them are kind of on the west central portion of the area in

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1	yellow, one is back to the southeast portion of the
2	acreage.
3	We'll have individual plats that we'll show later
4	that kind of identify those areas.
5	Q. Okay. Referring now to Exhibit Number 2, a
6	couple of things stand out to me on this. Maybe you can
7	clarify this to me.
8	When I look at the early 1960s, from 1960 to
9	about 1970, production looks Gas production looks
10	relatively consistent, almost a straight line. What was
11	going on there, and what do you feel that represents?
12	A. Well, there was some ongoing work as wells, you
13	know, would become uneconomical for lower horizons that
14	they would plug back in and complete in the gas, depending
15	on what market conditions existed at that point in time.
16	There were a significant number of conversions done back in
17	the 1970s when you see that spike, production increases
18	there starting approximately the year 1970.
19	Q. There seems to be a trend each year, and that
20	doesn't make much sense because whenever I see a year
21	represented, does that usually correspond with January?
22	A. That's correct, that would be the start of that
23	particular year.
24	Q. And the production is down. I thought the
25	production would be up during the heavy use area or times
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1	in January, as opposed to summertime.
2	Where did this market go for this gas?
3	A. It currently goes into the Sid Richardson system
4	right now.
5	Q. Okay, where did it go at the time, then, the
6	1960s, that's represented here?
7	A. I'm not familiar historically what they did with
8	it at that point, no.
9	Q. When did you start working out here, then?
10	A. In this particular area?
11	Q. Yes.
12	A. I've worked off and on in this area for 20 years.
13	I had several assignments with Cities Service and OXY
14	working this particular area, and then I've worked this
15	area pretty extensively for about the last three or four
16	years.
17	Q. Okay, so you're more familiar with the area from
18	1980 on?
19	A. That is correct.
20	Q. Okay, the big increase that occurred in 19
21	well, it looks like from 1990 to 1991 or even before then,
22	that was not Raptor, that was Rasmussen?
23	A. That is correct. He initiated his development
24	beginning in 1989, and basically all the work was done over
25	an approximate three-year time frame, and then after 1991

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1	all work was discontinued at that time and there was a
2	change of operator to Clayton Williams.
3	Q. Okay. Now, what kind of work was being done?
4	Was that new drill, recompletion?
5	A. It was a combination. The majority of the work
6	were plugback/recompletions, but there were infill wells
7	that were drilled. Typical in this area, wells that were
8	drilled back in the 1940s, 1950s, there have been wells
9	that have been plugged and abandoned, and some of those
10	locations have been redrilled.
11	Q. And there hasn't been any problem selling the gas
12	that is produced out of these areas?
13	A. Not at all.
14	Q. Okay.
15	A. In fact, there's tremendous demand for it right
16	now.
17	Q. Okay, how about five years ago?
18	A. I don't think there's been any curtailment-type
19	issues. They've been able to sell all the gas that I'm
20	aware of since the late 1980s. There have been no problems
21	with shutting in any of the gas at all; it's all been
22	marketed.
23	Q. So far as the pipeline takes, there's not a
24	problem of it not being able to take or the compression or
25	cutting back
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1	A. No, there's no And in fact, actually the
2	gathering system is capable of handling 20 million cubic
3	feet of per day, and we're producing in excess of 7, so
4	there's plenty of availability.
5	EXAMINER STOGNER: Okay, I have no other
6	questions of Mr. Lawrence at this time. But you're going
7	to recall him?
8	MR. CARR: I'm going to recall Mr. Lawrence at a
9	later time to present additional information of a more
10	specific nature.
11	EXAMINER STOGNER: Okay.
12	MR. CARR: At this time, Mr. Stogner, we call
13	Bill Keathly to the stand.
14	BILL R. KEATHLY,
15	the witness herein, after having been first duly sworn upon
16	his oath, was examined and testified as follows:
17	DIRECT EXAMINATION
18	BY MR. CARR:
19	Q. Would you state your name for the record, please?
20	A. Bill R. Keathly.
21	Q. Mr. Keathly, where do you reside?
22	A. In Midland, Texas.
23	Q. By whom are you employed?
24	A. I'm self-employed.
25	Q. And what is your relationship with Raptor

Resources, Inc.? 1 I was employed by Raptor as a consultant to 2 Α. identify the ownership in all of the 640-acre sections 3 offsetting the proration units covered by this area. 4 You've also done additional work for Raptor in Q. 5 the past few months, have you not --6 7 Α. Yes, I have. -- past year? 8 Q. Yes. 9 Α. Have you previously testified before this 10 Q. Division? 11 12 Α. No, I have not. Could you summarize your educational background? 13 Q. 14 Α. I have a BA in accounting from Oklahoma State 15 University. And when was your degree received? 16 Q. 17 Α. January of 1962. And following graduation, for whom have you 18 Q. 19 worked? I worked 37 years with Conoco, primarily in the 20 Α. accounting, and in the latter years during the completion 21 22 regulatory that was necessary after wells were permitted. Are you familiar with the Applications filed in 23 Q. each of these cases on behalf of Raptor Resources, Inc? 24 Yes, sir. 25 Α.

1	Q. And are you familiar with the status of the
2	ownership of the lands and the areas which are the subject
3	of these Applications?
4	A. Yes, sir.
5	Q. All right, Mr. Keathly, let's go first to the
6	Application for the State "A" A/C 1, Wells Number 130 and
7	131. Would you explain to the Examiner in this case, Case
8	12,623, what it is that Raptor seeks?
9	A. We seek the addition of two unorthodox infill gas
10	wells to the existing orders covering the nonstandard
11	proration unit and the simultaneous dedication of all the
12	Jalmat production in this 520-acre nonstandard unit.
13	Q. All right, what is Raptor Exhibit Number 8?
14	A. Number 8? Oh, Exhibit Number 8 is a copy of the
15	order of the Division for Hal Rasmussen, Case 9775, Order
16	Number R-9073.
17	Q. And is this the order and there are attached
18	amendments to that order, but is this the order that
19	actually approved the 520-acre nonstandard spacing and
20	proration unit which is the subject of today's hearing?
21	A. Yes.
22	Q. And is that approved by Paragraph 8 of Exhibit A
23	to this order?
24	A. Yes.
25	Q. Let's go to what has been marked as Raptor
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1	Exhibit Number 9. Would you identify this, please?
2	A. Exhibit Number 9 is the C-102 plat for the
3	proration unit that is in question.
4	Q. And this is actually the plat that was filed for
5	the Well Number 130; is that correct?
6	A. Yes, sir.
7	Q. And the Well 130 is actually in the southeast
8	southeast of Section 9?
9	A. That is correct.
10	Q. And this spacing unit actually crosses two
11	sections. The southeast southeast of Section 9 is actually
12	what? If this were a full section it would be the
13	southeast of the southwest; is that right?
14	A. That's correct.
15	Q. And it's indicated 130.
16	The other well is the 131; it's in the 40 acres
17	north of there?
18	A. That is correct.
19	Q. And each of the wells in the spacing unit,
20	including the proposed new wells, are identified on this;
21	is that correct?
22	A. That is correct.
23	Q. Is Mr. Lawrence going to present a table which
24	shows the status and the producing capabilities of each of
25	the wells on this spacing and proration unit?

1	A. To the best of my knowledge, yes.
2	Q. The wells that are shown here, the Application
3	contained a description of each including its API number
4	and the producing status of the well, did it not?
5	A. Yes, except for the Well Number 100, which has
6	been plugged.
7	Q. And what was missing on that?
8	A. The API number, and we located that at the OCD
9	office yesterday.
10	Q. And what is that number?
11	A. That number is 30-025-09279.
12	Q. Now with that map, let's go to the next exhibit,
13	Exhibit Number 10, and I'd ask you to explain what Exhibit
14	10 is and
15	A. Exhibit 10 is the offset operator plat showing
16	all of the offsets in each of the 640 acres that offset the
17	proration unit in 9 and 10. The proration unit is outlined
18	in red and is not colored in.
19	Q. All right. If we look at the exhibit, it's color
20	coded
21	A. That is correct.
22	Q was every operator on this plat notified of
23	this Application?
24	A. Yes, sir.
25	Q. Were they provided a copy of the Application?

1	A. Yes, sir.
2	Q. Now, if we look at the Raptor acreage that is
3	shaded in sort of a beige or brown, the spacing unit is
4	offset all the way around by Raptor-operated property; is
5	that correct?
6	A. That is correct.
7	Q. Is the working interest identical in the tracts
8	that offset this property that is operated by Raptor with
9	the working interest within the spacing unit?
10	A. Yes.
11	Q. In the east half of 17 there is a Raptor
12	Resources tract. Is there any additional working interest
13	owner in that tract that doesn't own interest in the other
14	properties?
15	A. Yes, Hal Rasmussen owns a five-percent interest
16	in that tract, and he was notified.
17	Q. In deciding in what area notice would be
18	provided, how did you go about that?
19	A. I used a basis of doing every operator in the
20	entire 640s that surrounded the area.
21	Q. So if there was a 640 that was included in the
22	spacing unit, you treated that as if that whole section
23	were included?
24	A. That's correct.
25	Q. And then you did all the 640-acre spacing units

1	all the way around?
2	A. That is correct.
3	Q. Let's go to Exhibit Number 11. Is this an
4	affidavit that confirms that notice has been provided to
5	each of these owners in accordance with the rules of the
6	OCD?
7	A. That is correct.
8	Q. And we have attached to that affidavit the notice
9	letter, and behind that Exhibit A, a list of the
10	individuals to whom notice was provided?
11	A. Yes.
12	Q. And then behind that we have return receipts; is
13	that correct?
14	A. That is correct.
15	Q. If we look at the return receipts, there is no
16	return receipt from Doyle Hartman; is that correct?
17	A. That is correct.
18	Q. Have you checked the address that was used, to
19	confirm that that, in fact, is the address to which
20	certified mail has been sent and received in the past?
21	A. Yes, I have.
22	MR. CARR: Mr. Stogner, we also called Mr.
23	Condon, attorney for Mr. Hartman, to advise him that the
24	notice letter had been mailed. We don't know why we have
25	not received the receipt back from Mr. Hartman.

(By Mr. Carr) Now, Mr. Keathly, let's go to the Q. 1 next group of exhibits that are clipped together. These 2 are for Case 12,624, and they involve the Well Number 133; 3 is that right? 4 Α. That is correct. 5 And what is Exhibit 12? 6 Q. Exhibit 12 is again the plat showing the 7 Α. proration unit. 8 It shows all the wells --9 Q. All the wells. 10 Α. -- including any well that's been plugged and 11 Q. 12 abandoned in the Jalmat? 13 Α. That's correct. And the well which is the subject of this 14 Q. Application is the well in the northwest of the northwest? 15 A. That's true. 16 17 What is the next exhibit, Exhibit 13? Q. Exhibit 13 is the offset operators plat, which 18 Α. shows the Raptor proration unit in white, outlined in red. 19 Have all the interest owners identified on this 20 **Q**. exhibit been notified of this Application? 21 Yes, they have. 22 Α. And is the working interest in the Raptor tracts 23 Q. which offset the subject spacing unit identical to that 24 within the spacing unit? 25

1	A. Yes, sir, that is correct.
2	Q. And is Exhibit Number 14 an affidavit confirming
3	that notice of this hearing has been provided in accordance
4	with the rules of the Oil Conservation Division?
5	A. Yes, it is.
6	Q. And again, the only person for whom we do not
7	have a return receipt is Mr. Hartman; is that right?
8	A. That is correct.
9	Q. All right, Mr. Keathly, let's go now to the next
10	group of exhibits. These are the exhibits for Case 12,625
11	and involve the Wells 79 and 80. Would you identify
12	Exhibit Number 15?
13	A. Number 15 is again the C-102 plat comprising the
14	640-acre proration unit, showing all wells that are in that
15	proration unit.
16	Q. And the subject wells are identified on this
17	exhibit?
18	A. That is correct.
19	Q. What is Exhibit 16?
20	A. 16 is again the offset operator plat showing the
21	Raptor acreage in white, outlined in red.
22	Q. And have all the interest owners identified on
23	this property been notified of this Application?
24	A. Yes.
25	Q. And is the working interest in any offsetting

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1	Is there any offsetting Raptor
2	A. No, sir, there is not.
3	Q. All right. Is Exhibit Number 17 an affidavit
4	confirming that notice of the Application has been provided
5	to each of these owners in accordance with the rules of the
6	Division?
7	A. Yes, sir.
8	Q. Mr. Keathly, will Raptor call geological and
9	engineering witnesses to explain the reasons behind the
10	proposal to drill wells at each of these locations?
11	A. Yes, sir.
12	Q. Were Exhibits 8 through 17 either prepared by you
13	or compiled at your direction?
14	A. Yes, sir.
15	Q. Have you reviewed them and can you testify as to
16	their accuracy?
17	A. Yes, sir.
18	Q. In your opinion, have you provided notice as
19	required by the Rules of the Division and the Order dated
20	December 15th, 2000, of the District Court of Santa Fe
21	County?
22	A. Yes, as best I understand it.
23	MR. CARR: Mr. Stogner, at this time we move the
24	admission of Raptor Exhibits 8 through 17.
25	EXAMINER STOGNER: Exhibits 8 through 17 will be

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1	admitted into evidence at this time.
2	MR. CARR: And that concludes my direct
3	examination of Mr. Keathly.
4	EXAMINATION
5	BY EXAMINER STOGNER:
6	Q. Mr. Keathly, whenever you were preparing your
7	Exhibits 14 and 16 and 10 these are the ones that show
8	the offset operators and are done up in color
9	A. Yes, sir.
10	Q how did you determine who the operator was?
11	What kind of search did you do?
12	A. I searched the files in Hobbs, I further
13	researched the online system within the ONGARD system and
14	verified who the operators were and where the wells were
15	located.
16	Q. Which wells?
17	A. Whichever ones were I searched primarily for
18	the Jalmat wells.
19	Q. Okay. Now, the wells shown on these maps, does
20	that necessarily indicate Jalmat production, or does this
21	show all wells within
22	A. It shows all wells within the section
23	Q. Okay.
24	A whether they're Jalmat or not.
25	Q. And if you found an operator of a Jalmat well,

1	how did you determine how much acreage to shade?
2	A. I shaded the acreage that was owned by the
3	operator in that area, whether they be Jalmat or not.
4	Q. So you did it by lease?
5	A. Yes, sir. I went over to Hobbs and went through
6	their well file section by section.
7	Q. But you looked at the lease and not necessarily
8	the dedicated acreage; is that correct?
9	A. I tried to look at dedicated acreage also, to
10	make sure I was not leaving something out.
11	Q. Now, you've submitted a C-102 for each packet.
12	A. Proration unit, yes, sir.
13	Q. No, a C-102 is for each well. Which wells were
14	you submitting a C-102 for?
15	A. We used the Well 130 to cover 130 and 131.
16	Q. Which exhibit is that?
17	A. That is Exhibit 9, sir. The 102 has the well
18	number, but within the proration unit we have both 130 and
19	131 spotted, and we used that same format for wells 79 and
20	80.
21	Q. Now, I show that you have signed each one of the
22	C-102s and the date on it is March 17th. Now, have these
23	been submitted to the District Office?
24	A. No, sir, they have not.
25	Q. They have not. Now, when I look at these C-102s

1	and this is going to be submitted to the District, and
2	not only for the well that you are applying for, that the
3	C-102 represents, you're showing the other wells. Are
4	these other wells just there for representation, or are
5	they going to be simultaneously dedicated?
6	A. Simultaneously dedicated.
7	Q. How about a P-and-A'd well? Why would you Can
8	you I
9	A. You cannot dedicate a The P-and-A wells were
10	put there for reference.
11	Q. Okay, for reference. So they can be taken out?
12	A. Yes.
13	Q. Okay. If I remember right, there's quite a few
14	P-and-A'd wells represented on the advertisement today.
15	A. That's correct.
16	Q. Now, when you prepared your notification, which
17	address did you use? Did you process that I mean, did
18	you get that off the well files in the Hobbs office?
19	A. Those that I did not already have I got off of
20	that, or I checked various other locations for the
21	addresses. Most of them we had used several other times.
22	The one for Mr. Hartman had been used in a
23	previous one, and a return receipt was received from him on
24	that one.
25	Q. Okay. Now, in Exhibit Number 10 you show that a

Hal J. Rasmussen was -- Is he still operating? 1 Yes, sir, he has a light blue section down in 16, 2 Α. which would be Unit Letter O. 3 Now, the address that you used for Mr. Hartman in 4 Ο. 5 Midland, have you successfully sent correspondence to Mr. Hartman before to this address? 6 7 Yes, sir, I have. Α. Have you sent to an address in Tulsa -- I mean, 8 Q. 9 in Dallas before? 10 Α. No, sir, I have not used the Dallas office. 11 EXAMINER STOGNER: That's all the questions I 12 have of Mr. Keathly based on what you have presented him here today as identifying the offset operators. With that 13 I have no other questions of Mr. Keathly. 14 15 MR. CARR: And Mr. Stogner, I do have a return receipt from Mr. Hartman at that address, if you would like 16 17 it for the record. 18 EXAMINER STOGNER: You know, that wouldn't be a 19 bad idea to put that on the record. This is a letter we sent to Mr. 20 MR. CARR: 21 Hartman in March of this year at that address, and it was received. 22 23 EXAMINER STOGNER: I know Mr. Hartman has a Dallas address, and I've been involved with an issue before 24 25 where a Midland address and a Dallas address was at issue.

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1	MR. CARR: And with your permission, at this time
2	we would call our geological witness, Mr. Dave Pearcy.
3	DAVID B. PEARCY,
4	the witness herein, after having been first duly sworn upon
5	his oath, was examined and testified as follows:
6	DIRECT EXAMINATION
7	BY MR. CARR:
8	Q. Would you state your name for the record, please?
9	A. David B. Pearcy.
10	Q. Mr. Pearcy, where do you reside?
11	A. Midland, Texas.
12	Q. By whom are you employed?
13	A. I'm self-employed. I'm a geological consultant,
14	and I've been asked by Raptor to assist in their
15	redevelopment program at Jalmat.
16	Q. Have you previously testified before the New
17	Mexico Oil Conservation Division?
18	A. Yes, I have.
19	Q. At the time of that testimony, were your
20	credentials as an expert in petroleum geology accepted and
21	made a matter of record?
22	A. Yes.
23	Q. Are you familiar with each of the Applications
24	filed in these consolidated cases?
25	A. Yes.

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1	Q. Have you made a geological study of the area
2	which is the subject of each Application?
3	A. Yes, I have.
4	Q. Are you prepared to share that work with Mr.
5	Stogner at this time?
6	A. Yes.
7	MR. CARR: Are the witness's qualifications
8	acceptable?
9	EXAMINER STOGNER: They are.
10	Q. (By Mr. Carr) Mr. Pearcy, let's first go to the
11	geology that relates to the Application in Case 12,623, the
12	State "A" A/C 1 Wells 130 and 131, and I would ask you to
13	first refer to what has been marked as Raptor Exhibit 18
14	and review that for the Examiner.
15	A. Exhibit 18 is a structure map on the top of the
16	Yates sand in the vicinity of Section 9 where the proposed
17	Well Number 130 is located in the southeast quarter.
18	Contour interval here is 100 feet.
19	The general configuration is downdip to the west
20	and undulating structure on top of the Yates.
21	Q. What data did you use in constructing this
22	structure map?
23	A. I attempted to use all the logs that I could
24	locate, both in libraries and in Raptor's files, but in
25	many cases I ended up using a sample top. I also found a

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1	wide disparity of kinds and vintages of logs, which made it
2	sometimes a little bit difficult to get something
3	consistent.
4	Q. Generally describe the formation in the area of
5	this well, the 130.
6	A. Okay, the gross interval of the Yates sand can be
7	found in all the wells throughout this area, although there
8	are a lot of variations from well to well, as far as the
9	pay quality and performance.
10	Generally, as we'll be proving later on, these
11	sands are lenticular in nature, and they do again vary
12	quite a bit from well to well. We're able to correlate
13	much easier in the north-south direction than east-west.
14	As you go particularly down at the west you find a lot of
15	stratigraphic variation where the sands will tend to
16	thicken.
17	Again, these reservoirs are highly heterogeneous
18	in both the Yates and Seven Rivers, and often do not have
19	individual sands extending for long distances.
20	Q. Did you prepare isopach maps of the formations at
21	issue?
22	A. No, I did not.
23	Q. And why not?
24	A. I struggled with isopach maps for some time and
25	found them difficult to construct, again because of the
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different vintages and different kinds of logs. Throughout 1 the Account 1 area, where there have been now 129 wells 2 drilled, I was only able to find ten modern density neutron 3 logs that I felt fairly confident, where I could make some 4 net-pay picks. 5 So again dealing with logs, the poor quality, 6 7 variable quality, different kinds, I ended up just presenting this structure map as the best representation of 8 the area. Any kind of isopach map which I might have 9 10 prepared I found quite subjective. Let's go to Exhibit 19. What is this? 11 Q. Exhibit 19 is a cross-section, three-well cross-12 Α. 13 section. You see on the map I have shown the line of section A-A', running west to east. The left-hand map in 14 15 this case is the Well Number 12, which was drilled in the 16 1940s and ultimately was completed in the uppermost section 17 that's shown with the red perforations through the Yates 18 sand. 19 There were perforations within the Seven Rivers interval, as I've also shown on the cross-section. 20 Some of the hole was not logged at all, as you'll notice, and these 21 perforations in the Seven Rivers in this well were found 22 nonproductive. Although there was an initial potential of 23 gas, in checking some of the old records, there was never 24 25 any kind of significant production of gas from the Seven

1 Rivers.

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Next well to the right, of course, is the
location for the Number 130, which is the due east offset
to the Number 12.

And then I jogged to the south to the Ares State well, which will be the south offset to the proposed location, and I'm showing a few perforations which were made down near the bottom of this well, which were ascribed to the Langlie-Mattix field.

10 The Yates production in this well has been shown 11 again with the red bar near the top, and I want to point 12 out only parts of the Yates sand were ever perforated in 13 this well. They did never complete the entire Yates 14 section.

15 On the right-hand side of the cross-section is 16 the Number 127 which Mr. Lawrence has referred to earlier. 17 You can see from the red dashes on here the intervals where 18 we have made perforations in this well, and we now believe 19 we're getting contribution from the entire Yates and Seven 20 Rivers section, which is included in the Jalmat Pool. 21 O. Now, Mr. Stogner had asked about how Raptor is

21 Q. Now, Mr. Stogner had asked about how Raptor is 22 going about perforating in the individual wells. This 127 23 is a good example, showing how you selectively go after 24 individual --

A. That's correct, you can see individual

perforations that we attempt to make in each one of the 1 sands, because we believe each sand has the potential to 2 contribute pay that may or may not be producing in the 3 offset wells. 4 Mr. Pearcy, what conclusions can you reach about 5 Q. a well at the proposed location of the Number 130? 6 I want to point out that the Yates sand does thin 7 Α. from left to right across the area so that we do have more 8 9 Yates sands and better Yates sands, we believe, in the Number 12 and the proposed 130, as compared to the Number 10 11 127. 12 Also want to point out that the entire Yates 13 interval was not perforated in the Ares State, which is due 14 south of the Number 130, and the Seven Rivers has been largely ignored in these other two wells besides the 127, 15 as well as most of the wells in the area, and we believe 16 that substantial reserves will be recovered by the Number 17 130 from both the Yates and Seven Rivers sands. 18 Let's go to what has been marked Raptor Exhibit 19 0. Would you identify that? Is this the same structure 20 20. 21 map that you presented a few minutes ago for the Well 22 Number 130? 23 That's correct, that same top of Yates sand Α. 24 showing in this case cross Section B-B', which generally 25 runs from north to south through the proposed Well Number

130 and down again to the Number 127. 1 All right, let's go to that cross-section, 2 ο. Exhibit 21. 3 This section shows that the far left-hand well, 4 Α. the Number 100, which is due north offset to the proposed 5 Well Number 131, was again perforated in the Yates and in 6 7 the upper part of the Seven Rivers only. They had overlooked in this well, we believe, a lot of reserves and 8 the rest of the Seven Rivers that is still included in the 9 Jalmat zone, perhaps because of some earlier bad 10 experiences like the Well Number 12 we cited earlier. 11 Of course we have the proposed well, which is the 12 next one, the bar shown there. 13 And then we move over to the east, the Number 56. 14 This is one well where they again attempted to complete in 15 some Seven Rivers Sands but were completely unsuccessful in 16 establishing production in this well, and without testing 17 the Yates sands, this well was plugged and abandoned, again 18 going to the Well Number 127 that you've seen earlier, on 19 the far right-hand side, with the perforations that Raptor 20 has made there. 21 And what conclusions from a geologic point of 22 Q. view can you reach about a well at the location proposed 23 for the State "A" Account 131 well? 24 We again want to point out that that the Seven 25 Α.

Rivers has been largely unexploited in this area, although 1 we found it to be productive in the Number 127. 2 Aqain, these cross-sections are stratigraphic, hung on the top of 3 4 the Yates, but the structure on the top of the Seven Rivers is not that different between these wells, and in spite of 5 some of the bad experiences prior operators had, the Seven 6 Rivers is, indeed, productive. 7 I want to again point out that the Yates sands 8 are thicker in the vicinity of the Well Number 100 and 9 proposed Well Number 131, such that there are bound to be 10 some of these Yates intervals of sand that we have not 11 12 contacted in the Number 127 and therefore we'll be unable 13 to drain it in that wellbore. 14 Q. Do you need to drill both the 130 and 131 on this spacing unit? 15 We certainly do, in order to contact all the 16 Α. Yates and Seven Rivers prospective sand intervals. 17 Q. All right, let's go to the geological 18 presentation in Case 12,624, and I'd ask you to review the 19 information that you have prepared that relates to the 20 State "A" Account 1 Well Number 133, Exhibit 22. 21 That's right, I have prepared a similar structure 22 Α. map on top of the Yates and in cross-section to help 23 support our position for the Number 133 wellbore. 24 Do you want to move from that to the cross-25 Q.

1 | section immediately, or do you --

A. Yes, I want to point out cross-section C-C', again on this top of Yates structure. The Yates is a less dramatic of a structure in this area on the far east side of Raptor's property. And again, this cross-section runs generally north-south direction, and I have again included one of the newer wells, Number 128, at the north end of the section.

9 If I may refer to the cross-section, the Number 10 128 is on the left-hand side, again showing the 11 perforations that Raptor has made in each one of the sands 12 within the Yates and the Seven Rivers. We believe that a 13 hole is necessary in or very close to each one of these 14 sands in order to produce all the reserves that are within 15 both the Yates and the Seven Rivers interval.

We then proceed to the Number 133 location and thence to the well immediately south of the 133, which is the old Number 53, where there were perforations made throughout the Yates and Seven Rivers interval. This is one of the exception wells, which happen to be deeper in the area.

I included this in the cross-section because the additional control, although again I want to point out that the Seven Rivers was largely overlooked in this area as well, so that we expect the 133 will be able to produce

significant reserves from the Seven Rivers sands as well as 1 the Yates sands. 2 And are these reserves that without this well are 3 ο. 4 not going to be recovered? That's correct, any reserves within the area of 5 Α. the 133 are largely going to be overlooked. The other 6 wells, as Mr. Lawrence will soon show, in the area are 7 producing at generally low rates, and if we do not drill 8 9 this well at the 133 location we'll be losing some 10 reserves. All right, let's go to the geological information 11 Q. for Case 12,625, and I'd like you to present the 12 information that relates to the State Account 2 Wells 79 13 and 80, and I'd ask you to start with Exhibit 24. 14 15 Α. Exhibit 24 is, again, the top of the Yates in the vicinity of Section 11, where both 79 and the 80 wells are 16 proposed. Cross-section D-D' has an elbow to it. Again, 17 it takes in the well immediately north of the Number 79 and 18 the well immediately east of the 79. In this area too, as 19 I'll show, we have a lot of discontinuities and 20 heterogeneities in the reservoir that will require the 21 drilling of the Number 79. 22 I'd also like to point out at this time that the 23 24 well that's at point D on the cross-section is in the 25 Eumont field, and it's located 660 feet from the Raptor

lease line. It's a Eumont gas well that I'll show in a 1 It is completed in Yates and Seven Rivers, cross-section. 2 and this is one that would present a correlative-rights 3 problem where Raptor will need to drill this well at 4 location 79 in order to protect their gas. 5 All right, are you ready to go to the cross-6 Q. 7 section? The cross-section shows the well immediately 8 Α. north, which is the State N Number 5, currently operated by 9 The perforations that were made in this well range 10 OXY. from in the Tansil above the purple line there, through the 11 Yates and down through most of the Seven Rivers, although 12 13 there are a few feet down at the bottom which they did not 14 drill to actually penetrate into the Eunice Pool. There is a twin well there which was completed in the Eunice Pool. 15 We go then to Number 79. Again, we need to drill 16 17 this well to protect our rights. And then the eastern well, the Number 15, shows 18 that perforations were only made in the upper two-thirds of 19 the Yates sand, and no perforations were ever made in the 20 Seven Rivers in this well. So this is another case where 21 you have substantial reserves in the Seven Rivers that we 22 will lose and never produce unless we drill the location 23 for the Well Number 79. 24 Again, discontinuities of the zones. 25 You can see

that the sands thicken in this case toward the Number 15, 1 within the Yates, and we just believe that there are some 2 other zones within the Yates that we'll find that have not 3 been affected by the OXY N 5, and just need to get that 4 well drilled as soon as possible. 5 6 Q. All right, Mr. Pearcy, let's go to the information on the Account 2 Well Number 80. I'd ask you 7 to refer to Exhibit Number 26. 8 Exhibit 26 is the same structure map on top of 9 Α. the Yates, this time showing cross-section line E-E', which 10 runs from north to south through the proposed Well Number 11 12 80. 13 Now let's go to the cross-section --Q. 14 Okay, referring to the cross-section --Α. -- Exhibit 27. 15 Q. -- in this case, Mr. Stogner, the well on the 16 Α. left side is one of the newer wells drilled by Raptor, the 17 Number 75. Based on geologic evaluation, the Seven Rivers 18 sands appear to be so poor here we only perforated one of 19 them near the top, although we do believe that these sands 20 do improve getting away from this wellbore and that this 21 22 Number 80 will probably find some other Seven Rivers sands 23 that we did not even open in this new wellbore. Again, Number 15 at the right-hand side, was 24 25 never tested in the Seven Rivers, but based on our

experience we certainly believe there are a lot of Seven 1 Rivers reserves, as well as the Yates, to be recovered in 2 this area and that will be lost unless these two wells are 3 drilled. 4 Would you summarize for the Examiner the 5 Q. geological conclusions you can reach from your work in this 6 7 area? My work in the area, Mr. Stogner, indicates that Α. 8 9 there are so many discontinuities within both the Yates and Seven Rivers sands that these wells will be needed in order 10 to effectively drain the reserves that Raptor has in the 11 12 area. Raptor's prior success has also illustrated that 13 infill drilling in this way on undeveloped 40s finds 14 15 significant reserves. I've looked up several other references published by the West Texas Geological Society 16 and the AAPG which further document discontinuities in the 17 18 heterogeneity in both the Yates and Seven Rivers, to the point where we firmly believe that unless this reservoir 19 can be developed on 40-acre spacing, that we'll be losing 20 21 reserves. So these additional wells certainly need to be 22 drilled. 23 Mr. Pearcy, were Raptor Exhibits 18 through 27 24 Q. 25 prepared by you?

Yes, they were. Α. 1 MR. CARR: Mr. Stogner, at this time we would 2 move the admission into evidence of Raptor Exhibits 18 3 through 27. 4 EXAMINER STOGNER: Exhibits 18 through 27 will be 5 admitted into evidence. 6 MR. CARR: And that concludes my direct 7 examination of Mr. Pearcy. 8 9 EXAMINER STOGNER: Let's take a lunch break, and we'll reconvene here at 1:45. 10 MR. CARR: 1:45? 11 12 EXAMINER STOGNER: I'm sorry, 1:30. MR. CARR: Yes, sir. 13 14 (Thereupon, a recess was taken at 12:25 p.m.) (The following proceedings had at 1:30 p.m.) 15 EXAMINER STOGNER: This hearing will come to 16 Let's see, what's Mr. Lawrence going to --17 order. MR. CARR: Mr. Lawrence is going to come back and 18 present tables on each of the wells similar to the one he 19 20 showed in his first presentation on the 127, which give 21 data on each of the offsetting wells. 22 EXAMINER STOGNER: Okay. 23 EXAMINATION BY EXAMINER STOGNER: 24 Okay, Mr. Pearcy, in looking -- I'm going to 25 Q.

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1	refer now to Exhibits Number 18, 20, 19 and 21, this set
2	that deals with the request of 12,623.
3	A. Okay.
4	Q. Now, in looking at the map, you show a low area
5	in your structure map. Is this the intent, is to get the
6	production out of this low area?
7	A. Not necessarily, Mr. Stogner. I do have a low
8	which I do have some control on to the north and to the
9	south and was just attempting to show some continuity of
10	the structure across that area. I would tend to believe
11	both the 130 and 131 will be at a very similar structural
12	position to the Number 100 and to the areas Number 1, which
13	are south of that little low.
14	Q. Now, when I look at your A-A' cross-section and
15	looking at the old, what is that, State "A" A/C 1 Number
16	12
17	A. Number 12.
18	Q what's its current status?
19	A. Current status is P-and-A'd.
20	Q. Okay.
21	A. And Mr. Lawrence will have a table showing that
22	well was plugged in 1994, after making nearly 5 BCF.
23	Q. Okay. Well, because the one I interpret the
24	one of the stipulations in the declaratory judgment is 160-
25	acre spacing, in other words, adequately draining with one

1	
	well per 160. So you're going to put in two wells in here.
2	But I haven't seen any reason why you couldn't
3	put just one well sort of in between the 30 and 31 and a
4	little to the west. And as I'm very well aware of, you may
5	be aware of, I know Mr. Carr is very aware of, and I think
6	some other parties in here are very aware of, that Raptor
7	has no problem about gerrymandering these proration units,
8	perhaps bringing that 40-acre tract in that is the
9	southeast of the I'm sorry, the southwest of the
10	southeast, and getting more toward the center of that
11	quarter section, wouldn't that and that might even save
12	some drilling cost, if you more centered that well in that
13	160. Wouldn't that also serve the same purpose?
14	A. I don't believe so, Mr. Stogner. Again, pointing
15	out the 127, which is also on this map, that well was
16	surrounded by seven other wells which had produced from the
17	Yates and Seven Rivers, and yet we're going to get .8 B's
18	out of this well with virtually no production from the
19	surrounding wells.
20	Q. Well, that was when never All right, you
21	were wrong as I was wrong. I mean, I'll be the first. I
22	was wrong by allowing additional wells to be put in out
23	there. That's the way I was interpreting the rules and
24	regulations all those years, the way Dan Nutter taught it
25	to me and the way Dick Stamets taught it to me, but

1	obviously I'm wrong, pursuant to this.
2	A. Yes, sir.
3	Q. But now, no, you can't have more than one well
4	per 160, so you may not have a choice. So that's where we
5	have got to look at. So what's happened in the 127 before,
6	again, I ask, why can't just one well more toward the
7	center with what you're showing here, that low, wouldn't
8	that suffice?
9	A. Mr. Stogner, I don't believe it would. Although
10	we have drilled some of these wells under rules that are
11	now apparently outdated, I think we have certainly proved
12	to ourselves that we're losing reserves if we limit
13	ourselves to one well per 160 acres.
14	EXAMINER STOGNER: Is your next witness going to
15	show that, Mr. Carr?
16	MR. CARR: I think when you We're going to
17	present the data on the offsetting properties, and I
18	believe it will, yes. I mean on the offsetting 40.
19	Q. (By Examiner Stogner) Okay, in referring to
20	Exhibit Number 24, let's take a look at the well in Section
21	11.
22	A. In cross-section D-D'?
23	Q. Yes, D-D'. And also you had mentioned about the
24	well that's 330 feet away.
25	A. If I did say 330, I misspoke. It's 660 feet from

1	the lease line
2	Q. Oh, okay.
3	A that's the OXY
4	Q. Oh, the OXY one. That's 660 feet?
5	A. Yes, sir.
6	Q. I've got so many maps out in front of me. Then
7	this map is not to scale, then
8	A. No, sir, the
9	Q because isn't the Number 79 well going to be
10	660?
11	A. That's right, the scales on these were probably
12	blown up or shrunk somewhat, so the distances on all those
13	wells, if you're looking at Exhibit Number 24, just to the
14	north of our Section 11, most of those distances of
15	standoffs are 660, such as the
16	Q. That OXY well looks real close
17	A. Well
18	Q so that's misleading, so I need to put a big X
19	on
20	A. It should be a 660.
21	Q. Well now, the Number 4 looks 660-660, because it
22	seems to mirror the Number 79
23	A. Uh-huh.
24	Q. But the well up there to the north and east,
25	you're saying, is 660. So what's Number 4 well's location?

Perhaps we need to redraw this map. 1 If I had a little bit more time here, Mr. 2 Α. Stogner, I might be able to find a scout ticket on that 3 well and --4 EXAMINER STOGNER: I tell you what, why don't --5 Mr. Carr, have Exhibit Number 24 re-done, because this is 6 7 very, very misleading. And if it goes beyond this point it will like -- I mean, I was under the impression that this 8 well was needed to offset this offset drainage that is 330 9 10 feet away. THE WITNESS: I can verify the scales on this 11 12 map, Mr. Stogner, but our position is --EXAMINER STOGNER: Well, if that be the case you 13 14 shouldn't have made it such a -- that misleading. And there's no -- In fact, I'm going to have you re-do Exhibit 15 Number 24 based on that, Mr. Carr. There's no sense in 16 17 having it that bad. THE WITNESS: Would the scale --18 EXAMINER STOGNER: You shouldn't have done that 19 at all. I mean, if that had -- I had a whole line of 20 21 questioning on that. Yeah, in fact I'm going to give Exhibit Number 24 back to you, I'm not even going to take 22 23 it. I don't want it to get confused in with this. You are 24 to re-do that, Mr. Carr. 25 MR. CARR: We'll re-do it.

1	Q. (By Examiner Stogner) Now I'm beginning to
2	question maybe some of the scales on these other maps.
3	A. Well, by "scale", Mr. Stogner, what I'm referring
4	to
5	Q. Well, take a look at it. Doesn't it look closer
6	than 660-660, that OXY well that you keep referring to as
7	It looks 330-330 to me.
8	A. It looks just about as far away from the lease
9	line as Number 79 that we posted on there, and as far
10	EXAMINER STOGNER: Well, then you have me a wrong
11	map. I'd suggest, Mr. Carr, that we check all of the maps
12	after today.
13	It's these little things like this, the reason
14	we're here today, Mr. Pearcy, is because the Jalmat got
15	like this. I've spent I don't know how many countless
16	hours correcting problems, putting additional information
17	in an administrative order that I shouldn't have had to do,
18	that the applicant needed to do. When I get an application
19	that's three pages long, an order that's issued is four
20	pages long, and the file is a half inch thick There's no
21	need of that. And it's things like this
22	Q. (By Examiner Stogner) Okay, referring to Exhibit
23	Number 23 and 22 now, the proposed perforated interval for
24	the Number 133 will be to pick up that which zones
25	again?
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The Number 133, we want to certainly perforate 1 Α. within the Seven Rivers. That zone has been proven 2 productive in the Well Number 128, again, which is at the 3 left end of the cross-section, our new completion. And 4 many of these sands were completed in the Number 53 as 5 well. 6 I'll let Mr. Lawrence comment a bit on the 7 treatment on the Number 53 well which was completed in the 8 9 late 1970s, and we just -- Even though they did perforate everything, I'm quite certain they made a whole lot more 10 holes than we're in the habit of making, and there are 11 12 certainly questions as to if they were contacting, each well, the zones that they perforated. 13 14 So yes, sir, the Seven Rivers is certainly an objective here as well as the Yates. 15 Okay. Now, I don't show that the Number 126 is 16 Q. in a cross-section. Is it, or -- It's not, is it? That is 17 the well in Unit Letter C of Section 24. 18 Yes, sir, the 126 was a well that was drilled 19 Α. recently by -- excuse me, was not drilled by Raptor, it was 20 drilled by a previous operator. And with just a moment 21 here -- That was drilled in the early 1990s and was 22 23 completed only in the Yates formation, as Mr. Lawrence will be showing a table of here briefly. 24 Now, can that one be recompleted such that 25 Q. Okay.

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1	I mean, since it's already a well, and without rising
2	needing any further authorization from anybody, could that
3	be recompleted in the Seven Rivers and pick up the same
4	area in which you're wanting to perforate?
5	A. It would be possible, but again, the Yates
6	EXAMINER STOGNER: No further questions, that
7	will be good. Okay.
8	Mr. Carr, I had a whole bunch of questions on
9	that other one, but because of scale on the map that's at
10	hand, I was under the assumption that that was at a worst
11	unorthodox location.
12	That concludes my questions of this witness. You
13	may be excused.
14	Mr. Carr?
15	MR. CARR: May it please the Examiner, at this
16	time we recall John Lawrence. I'd request that the record
17	reflect the witness has previously been qualified and
18	remains under oath.
19	EXAMINER STOGNER: Okay.
20	JOHN J. LAWRENCE (Recalled),
21	the witness herein, having been previously sworn upon his
22	oath, was examined and testified as follows:
23	DIRECT EXAMINATION
24	BY MR. CARR:
25	Q. Mr. Lawrence, you're familiar with the

Applications filed in each of these consolidated cases by 1 Raptor Resources, have you not? 2 Yes, I am. Α. 3 And you've made an engineering study of the area 4 ο. which is the subject of each Application? 5 That is correct. 6 Α. 7 And you're now prepared to share that work with Q. Mr. Stogner? 8 9 Α. That is correct. 10 I'd like to go to Exhibits 28 through 32 and work Q. through these with you, and I would like you to go to first 11 12 Exhibit Number 28. I think it would be helpful to again 13 identify this and review the information on it for the 14 Examiner. Yes, Mr. Stogner, these are the particular wells 15 Α. that offset the well location number for the Well Number 16 130, and again what we have put on here is a historical as 17 18 to when the well was completed, what interval it was actually completed in and the size and nature of the 19 treatment that was put on that particular well, as well as 20 21 the cumulative production totals from those particular wells, and current producing rate. 22 23 And as you can see, offsetting the Account 1 Well 24 Number 130, with the exception of the Number 127, all the 25 other wells are currently inactive, and there's no current

production offsetting this particular location. 1 The Well Number 127 is a diagonal offset that was 2 completed in September, 2000, by Raptor and was a good 3 completion for us. 4 Again, this is the basis that we have been using 5 in trying to establish, you know, the opportunity for 6 selecting a given location. You can see by the tremendous 7 difference and discrepancies in the intervals completed in 8 these wells, as well as the size of the treatments that 9 10 were utilized, they range from a natural completion to one of the wells actually was frac'd with 192,000 pounds of 11 12 sand, which was our more recent completion. It offsets 13 this. 14 We feel that a 40-acre location is justified here. As the reservoir does move to the west, there is a 15 thickening of the sand formations in here, they are 16

18 significant reserves to be recovered by placing a well in 19 this particular location.

lenticular in nature, and we believe that there are

20 Q. In your opinion, can a well at this location 21 efficiently and economically drain reserves from this 22 spacing or proration unit that cannot otherwise be 23 produced?

A. Yes, I do.

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24

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Q. Let's look at Exhibit Number 29. Would you

identify this, please?

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Exhibit 29 is a similar exhibit for the Account 1 Α. 2 Well Number 131. Again, a significant number of the 3 offsets here have just been completed in the Yates. There 4 is one producing offset well that is currently making 14 5 MCF a day. All the other offset locations are inactive or 6 7 plugged and abandoned, so there's -- you're not jeopardizing any type of accelerated decline that would 8 affect the offset locations, because they are all currently 9 not producing, with the exception of the Well Number 55. 10 Again, there is a difference in the size and 11 treatment that was performed on these particular wells, and 12 all the offsets to this particular location have not 13 14 developed both the Yates and Seven Rivers sands that we 15 would have identified as prospective pay. When we look at your plans for this well, is it 16 ο. your testimony that the reserves you would recover are new 17 18 reserves, not just recovering reserves at an accelerated

19 rate?

A. They would be new reserves, because you can see
based on the offset producers, there's basically very
little offset production associated right now.
Q. All right, let's go to Exhibit Number 30 -- this
is in Case 12,634 -- and review the information on the

25 Account 1 Well Number 133.

Again, these are the eight offsets to the 1 Α. proposed location in the State "A" Account 1 Well Number 2 133, and as you look at it there are -- one, two, three 3 four -- five particular wells that are currently producing 4 in and around this particular well, but the production is 5 very marginal. The highest producing rate on one of the 6 7 offsets is currently 39 MCF per day. Typically, these wells, again, have had a 8 tremendous variation in the size and scope of the treatment 9 10 that was performed on them. There is very little associated offset production, and again there are 11 discrepancies as to what zones were completed in those 12 offset wells, which again we feel there has been bypassed 13 reserves in this particular area by prior completion 14 15 efforts. All right, let's go to Number 31. This is the 16 0. 17 Well Number 79, and this is Case 12,625. What does this exhibit show? 18 These are the offsets to the proposed State "A" 19 Α. A/C 2 Well Number 79 up in Section 11, and this is the 20 particular location that is an offset to the OXY well that 21 I quess is in question right now, Mr. Stogner. 22 23 Again, we feel that a location there is justified due to the fact that OXY has completed their wells in both 24 25 -- their particular well in both the Yates and the Jalmat

offsetting us. Again, there is a tremendous difference in 1 the vintage of these wells, the intervals that they were 2 actually completed in, and the size of the treatment, 3 ranging from one of the wells being treated with just 2000 4 gallons of acid to one of the recompletions that was done 5 by a prior operator utilizing 172,000 pounds of sand. 6 And as you can see, that particular location, you 7 know, has cum'd 561 million cubic feet of gas to date and 8 9 is still producing 32 MCF. But the offset wells are producing at fairly marginal rates. Thirty-two to 49 MCF 10 is the current production from the offsets that are active. 11 12 A number of the wells that are also offsetting us here are wells that are producing out of the Grayburg-Queen 13 formation that don't have an existing Jalmat production. 14 And finally, let's go to Exhibit Number 32, the 15 **Q**. data on the State A/C 2 Well Number 80. 16 This is the particular location that is also in 17 Α. 18 Section 11. Typical of the vintage fracs that were done in the 1950s and 1960s, several were treated with a much 19 smaller treatment than would typically be used in this day 20 21 and time. Again, there have been bypassed zones in both 22 the Yates and the Seven Rivers formation in this particular 23 area. You do have two wells up here that have a little 24 more significant production, the State A/C 2 Number 62 and 25

1	then the Well Number 75. The Well Number 75 was a new-
2	drill location that Raptor has done and has been a
3	successful completion for us in this particular area.
4	Q. Mr. Lawrence, in your opinion, based on your
5	engineering study of the area and your experience in the
6	redevelopment program of the Jalmat Gas Pool, are each of
7	the five wells which are the subject of today's hearing
8	necessary to efficiently and economically produce remaining
9	reserves under each of these three spacing units in the
10	Jalmat Gas Pool?
11	A. I definitely believe that they are there
12	necessary to be able to produce the remaining reserves in
13	this gas reservoir.
14	Q. In your opinion, will the granting of this
15	Application and the drilling of each of these wells result
16	in the recovery of reserves that otherwise would be left in
17	the ground?
18	A. Yes, there's no question as to that. I think
19	when you look at the fact that the initial producing rates
20	from our wells are better, greater than the wells that were
21	recompleted by Rasmussen and Williams ten years ago,
22	there's no evidence of any accelerated production based on
23	individual well-curve analysis and leasewide production
24	analysis, and that we've in fact doubled our existing
25	production, more than doubled our existing production,
L	

1	based on the performance of the work that we have done.
2	Q. And these are new reserves?
3	A. These are new reserves. I think without question
4	they are new reserves.
5	Q. Will approval of each of these Applications
6	otherwise be in the best interests of conservation, the
7	prevention of waste and the protection of correlative
8	rights?
9	A. Yes, sir.
10	Q. Were Exhibits 28 through 32 prepared by you?
11	A. Yes, sir.
12	MR. CARR: At this time, Mr. Stogner, we'd move
13	the admission into evidence of Raptor Exhibits 28 through
14	32.
15	EXAMINER STOGNER: Exhibits 28 through 32 will be
16	admitted into evidence at this time.
17	MR. CARR: That concludes my direct of Mr.
18	Lawrence.
19	EXAMINATION
20	BY EXAMINER STOGNER:
21	Q. Mr. Lawrence, as far as some of these these
22	wells are, at least in some instances in a quarter
23	section that has an existing well, why can't those wells
24	that are existing be recompleted to these zones or in a
25	manner in which will afford those zones in which you're

1 going after this time production?

Part of my concern with that, Mr. Stogner, is the Α. 2 fact that you have wells that typically have been completed 3 in the Yates formation and have had fracs done to them. 4 тt is more difficult and risky to come back in and perforate 5 below existing fractures and put a stimulation on those 6 7 particular zones when you have maybe only several hundred feet separating the particular intervals. 8 9 The question or concern that I would have is the 10 potential that you might frac into some existing fractures 11 and not create the frac length in the particular well that 12 you're dealing with. 13 So it's my preference that it helps to have a new 14 wellbore, better cement. We can be very selective in the interval that we perforate and then in turn control the 15

16 stimulation and get the fracture stimulation in the 17 particular zone that we feel needs to be opened up.

Going back in an old wellbore that was completed back in the 1940s and 1950s, cement is a question. We have to frac down a work string, go down 3-1/2-inch tubing, in order to stimulate the wells versus being able to frac down new casing. And therefore your treating pressures are greatly reduced, and it enhances the particular stimulation that you can get out of a particular job.

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So from that standpoint we feel it's worth the

business risk to spend those additional dollars to drill a
 new wellbore to effectively be able to open up those
 particular zones that are in question.

That's part of the reason we feel we've had the 4 success in our program to date, is that we have been very 5 successful in identifying those zones, being very selective 6 7 in only utilizing 20 to 25 perforations in a given wellbore 8 and be able to effectively open up this bypassed gas. Instead of using the approach just to come in there and put 9 a massive frac or big treatment over the entire interval, 10 11 we're being very selective in nature. Plus the fact with a new well we have the abilities with mud logs, new logs, 12 things of that nature, to be able to get the data that we 13 14 need to identify where those prospective zones are.

EXAMINER STOGNER: Just for the record, there was an e-mail on my machine that they were testing the fire system today.

MR. CARR: We're probably not on fire.
EXAMINER STOGNER: And today is February the 19th
[sic]. I don't think we need to have a problem, because
we're in the same building that the IRS is in. They had
two armed guards here Monday.

Q. (By Examiner Stogner) Okay, I'll go back to the well in Section 9, that Case 12,623. There again -- and I have spent many a time writing an order gerrymandering

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these proration units.

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2	In this particular situation you had an existing
3	well in there that had some production. Why can't one well
4	be drilled somewhere in between these a little to the west
5	that has the same results? Why do you need two?
6	A. Well, I think it's our feeling, based on the work
7	that we've done, that there are reserves to be recovered on
8	40-acre spacing. I mean, I think that's the belief that we
9	have, based on the number of wells that have been completed
10	in this particular area by the previous operator and us,
11	that there are 40-acre reserves that will not be recovered
12	on any other density.
13	Again, you can drill a well like what you're
14	describing, but I think you are, in fact, going to leave
15	reserves behind by not drilling the proposed locations.
16	Q. Is that true in the whole Jalmat Pool?
17	A. I can't speak for the whole pool because of
18	you know, the work that we have done over the last two
19	years encompasses the acreage we have and maybe some of the
20	offset acreage to us. But there are operators out there in
21	the field that are also going back in and fracturing old
22	wells and recovering significant reserves out of wells that
23	are 30, 40 years old.
24	Again, our preference is, if we have a new
25	wellbore like this with which to work, I think it's

1 beneficial in gathering information that helps us to determine what some of the additional opportunities are in 2 the field. And our study has been pretty much just in the 3 areas that we operate and maybe some of the offsetting 4 acreage to us. That is a significant trend. 5 I can't speak to some of the stuff that may 6 happen 10, 15 miles to the south. We've seen differences 7 in the reservoir on 40-acre locations. 8 ο. The great equalizer was prorationing, but there 9 again, I was wrong. Keep that in mind whenever the new 10 rules come out. If Raptor and many of the other operators 11 come in, then I'm sure you're going to have that 12 opportunity to put that in the rules. Right now, we're 13 controlling the number of wells in a quarter section 14 because of not only my mistake but a lot of others. 15 But 16 I'll be the first to admit, I made a mistake. 17 What's your opinion as commercial production, what's the minimum rate that a well can produce and still 18 maintain pay out? 19 20 We think that you could have a well that could Α. produce as little 10 MCF a day with current prices and 21 still be economical, based on our typical operating 22 23 expenses on a per-well basis, that approximately 10 MCF a day would be an economic limit. 24 25 Again, when you look at the amount of gas that

l	would need to be produced to pay back the capital
2	investment on one of these new drill-and-equips, with
3	current prices it just takes a little over 70 million cubic
4	to be able to pay out that initial investment. And I think
5	the numbers prove out that the potential recoveries are
6	significantly above that.
7	EXAMINER STOGNER: I don't have any other
8	questions of Mr. Lawrence. Do you have anything further,
9	Mr. Carr?
10	MR. CARR: Very briefly, Mr. Stogner. That
11	concludes our presentation.
12	We will correct Exhibit 24, and we will confirm
13	to you in writing the scale on all remaining exhibits.
14	I did prepare proposed orders in this case. But
15	with your permission, since this attorney has a
16	misstatement of the pool rules in these proposed orders, I
17	would like an opportunity to revise them. And I think they
18	are of value in trying to look at the case, because they
19	have taken at least every exhibit and broken it down by
20	Application, and they're not lengthy, and they provide, I
21	think, a road map to anyone who's trying to evaluation this
22	Application.
23	So with your permission, I'd like to file all of
24	that as soon as we're able to correct the exhibit, and I
25	will deliver that to you at that time.

That concludes our presentation in this case. 1 EXAMINER STOGNER: Mr. Carr, what's your opinion 2 about holding this matter up until such time as the rules 3 -- the new -- the order -- I'm sorry, the case to consider 4 new rules in the Jalmat? 5 MR. CARR: Well, the problem we have with that 6 7 is, we have, you know, plans to drill and rigs ready and all of that, and the -- you know, there are so many players 8 and issue when we look at the change in the Jalmat rules. 9 I mean, the net effect of putting this and other people's 10 11 development programs on hold is that it basically shuts 12 down the development of this reservoir for an indefinite 13 period of time. 14 I want you to know that I truly appreciate what a difficult situation has evolved in terms of how the Jalmat 15 Pool is to be developed and how it is to be regulated. 16 17 Traditional tools are now suspect, and it creates an 18 extraordinarily difficult problem for you as a regulator, 19 for us as operators. We have plans to go forward. We would like to do 20 We think we can show that the wells do produce new 21 that. 22 reserves that are going to be left in the ground if they're not allowed to be drilled, they are -- And so to that 23 extent they're necessary. Certainly they can be -- this 24 25 development can be economically done at today's prices, or

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1	even as Mr. Lawrence showed earlier, at prices less than
2	half of what we have today.
3	We've notified, we believe, literally everybody
4	and their dog, and we've gone beyond what you might
5	construe the notice area in an attempt to comply with that
6	court order, again recognizing that that court order
7	certainly does create issues and problems that fall on both
8	sides of this hearing room.
9	We would ask that if possible the Applications be
10	considered. We're going to file the proposed orders, and
11	then at that point it's within your domain.
12	EXAMINER STOGNER: For the record, I understand
13	that the case will probably be continued for another month,
14	because another number-one priority has been given the
15	person that's rewriting the Jalmat rules. I don't know
16	when the Jalmat will get a number-one priority.
17	Okay. With that, Mr. Carr, I will hold the
18	record open pending reissuance of Exhibit Number 24. And
19	when do you think you may have that rough draft?
20	MR. CARR: I have the rough drafts actually here.
21	They corrected in a matter of hours.
22	EXAMINER STOGNER: Why don't we do that? Let me
23	see if can I If you've got one, let's go ahead and
24	submit it.
25	MR. CARR: All right, I've got one
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EXAMINER STOGNER: I can work with you on --1 I have one in each case, but I would MR. CARR: 2 really like to revise them, because I hate being in the 3 public record not knowing the Jalmat Pool. 4 EXAMINER STOGNER: I can understand that. Okay, 5 6 and that's easy to know because this is -- the rules for the Jalmat. It's not impossible to understand. 7 MR. CARR: Mr. Stogner, I'm going to give you 8 9 copies of each of the orders. These are just drafts, and I would like to revise them, and I'll substitute them 10 tomorrow. 11 12 EXAMINER STOGNER: Okay, let's go off the record. 13 (Off the record) 14 EXAMINER STOGNER: If there's nothing further in these three cases, then the record will be held open 15 pending Exhibit Number 24 and the rough drafts --16 MR. CARR: Yes, sir. 17 EXAMINER STOGNER: -- and you should have them to 18 19 me tomorrow. With that, this hearing is adjourned. 20 (Thereupon, these proceedings were concluded at 21 2:15 p.m.) 22 * 1, the hereby cartify that the foregoing is 23 · complete record of the procendings and the Examiner hearing of Case No. 12623 624 625 24 heard by me on 19 haved 2009 25 _, Exeminer OII Conservation Division

CERTIFICATE OF REPORTER

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

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

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

WITNESS MY HAND AND SEAL April 27th, 2001.

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STEVEN T. BRENNER CCR No. 7

My commission expires: October 14, 2002