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 PLATINUM EXPLORATION,) CASE NOS. 13,400
INC., TO ABOLISH THE SPECIAL RULES AND)
REGULATIONS FOR THE SOUTH KNOWLES-)
DEVONIAN POOL, LEA COUNTY, NEW MEXICO)
APPLICATION OF PLATINUM EXPLORATION, INC., TO ABOLISH THE SPECIAL RULES AND REGULATIONS FOR THE KNOWLES-DEVONIAN POOL, LEA COUNTY, NEW MEXICO) and 13,401))
, ,	,) (Consolidated)

REPORTER'S TRANSCRIPT OF PROCEEDINGS IN EXAMINER HEARING IN BEFORE: DAVID R. CATANACH, Hearing Examiner IN January 6th 2005

January 6th, 2005

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, January 6th, 2005, 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 1

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EXHIBITS

APPEARANCES

APPLICANT'S WITNESSES:

<u>DAVID HOBBY</u> (Geologist) Direct Examination by Mr. Bruce Examination by Examiner Catanach

JAMES MICHAEL REEVES (Engineer)Direct Examination by Mr. Bruce20Examination by Examiner Catanach28

REPORTER'S CERTIFICATE

* * *

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EXHIBITS

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* * *

APPEARANCES

FOR THE DIVISION:

GAIL MacQUESTEN Deputy General Counsel Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

FOR THE APPLICANT:

JAMES G. BRUCE Attorney at Law P.O. Box 1056 Santa Fe, New Mexico 87504

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1	WHEREUPON, the following proceedings were had at
2	8:34 a.m.:
3	EXAMINER CATANACH: At this time I'll call Case
4	13,400, the Application of Platinum Exploration, Inc., to
5	abolish the special rules and regulations for the South
6	Knowles-Devonian Pool, Lea County, New Mexico.
7	Call for appearances.
8	MR. BRUCE: Mr. Examiner, Jim Bruce of Santa Fe,
9	representing the Applicant. I have two witnesses to be
10	sworn in.
11	EXAMINER CATANACH: Call for additional
12	appearances.
13	MR. BRUCE: And Mr. Examiner, at this time I'd
14	also ask that the next case, 13,401, be consolidated for
15	hearing with this matter.
16	EXAMINER CATANACH: Call Case 13,401, the
17	Application of Platinum Exploration, Inc., to abolish
18	special rules and regulations for the Knowles-Devonian
19	Pool, Lea County, New Mexico.
20	Are there any additional appearances in this
21	case?
22	Okay, Mr. Bruce, do you have two witnesses?
23	MR. BRUCE: Two witnesses.
24	EXAMINER CATANACH: Will the witnesses please
25	stand to be sworn in?

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1	(Thereupon, the witnesses were sworn.)
2	DAVID HOBBY,
3	the witness herein, after having been first duly sworn upon
4	his oath, was examined and testified as follows:
5	DIRECT EXAMINATION
6	BY MR. BRUCE:
7	Q. Would you please state your name for the record?
8	A. David Hobby.
9	Q. Where do you reside?
10	A. Midland, Texas.
11	Q. Who do you work for and in what capacity?
12	A. Platinum Exploration, Inc., geologist.
13	Q. Have you previously testified before the
14	Division?
15	A. No, I haven't.
16	Q. Would you please summarize your educational and
17	employment background for the Examiner?
18	A. I have a bachelor of science in geology from the
19	University of Georgia. I've been employed in various
20	capacities as a geologist in the oil and gas business in
21	the Permian Basin since 1980, almost 25 years experience.
22	I'm an active member of the American Association of
23	Petroleum Geologists and a certified geoscientist in the
24	State of Texas.
25	Q. Have you How long have you been with Platinum?

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1	A. Two and a half years.
2	Q. And does your area of responsibility at Platinum
3	include this portion of southeast New Mexico?
4	A. Yes, it does.
5	Q. And are you familiar with the geology involved in
6	these two cases?
7	A. Yes, I am.
8	MR. BRUCE: Mr. Examiner, I'd tender Mr. Hobby as
9	an expert petroleum geologist.
10	EXAMINER CATANACH: Mr. Hobby is so qualified.
11	Q. (By Mr. Bruce) Mr. Hobby, if you could look at
12	our exhibits and just very briefly, what do Exhibits 1A and
13	1B depict?
14	A. Okay, they depict the outline of the Knowles
15	South and the Knowles fields.
16	Q. Okay, and these are both Devonian pools?
17	A. They're Devonian, primarily Devonian pools.
18	Q. What is the current well-spacing requirements in
19	both of these pools?
20	A. They're on 80-acre spacing.
21	Q. Okay. And were these and wells are to be
22	located how far away from the center of a quarter-quarter
23	section?
24	A. They're supposed to be in the center of the
25	quarter section, the 40-acre, but they can be within 150
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1	feet of that center.
2	Q. Okay. And at this point, Platinum is seeking to
3	abolish these special pool rules?
4	A. That's correct.
5	Q. Okay. Let's first discuss the Knowles South
6	Pool. What does your Exhibit 2 depict?
7	A. This is a land plat that depicts laterals that
8	we've drilled, except for one up in Section 12, in the
9	southeast quarter, on the east half of the southeast
10	quarter. That has not been drilled. That was proposed,
11	but not drilled.
12	Q. Okay. Now, these and the yellow outlines
13	Platinum's leasehold ownings in this area?
14	A. Yes, Platinum's leasehold ownings.
15	Q. Okay. Now, you are seeking to abolish the
16	special pool rules. Even if you do that, the laterals
17	would still be spaced on 80s, would they not? Eighty acres
18	would be dedicated
19	A. Right.
20	Q to each lateral well?
21	Also on this map, for purposes of notice, in the
22	northeast quarter of Section 24, there's a well down there
23	operated by Avra Energy; is that correct?
24	A. That's correct.
25	Q. Is that the only other existing Knowles South-

1	Devonian well in this pool, other than the ones operated by
2	Platinum?
3	A. Yes, that's correct.
4	Q. Let's discuss the geology in the Knowles South
5	Pool. Could you move on to your Exhibit 3 and identify
6	that for the Examiner?
7	A. Okay, this is a subsurface structure map on top
8	of the Devonian. It shows the approximate original oil-
9	water contact at minus 8570, oil column being about 230
10	feet thick. It's a There are some faults within this
11	structure.
12	Q. Okay. What is the drive mechanism within this
13	pool?
14	A. It's a water drive.
15	Q. And when, approximately, was this pool
16	discovered?
17	A. It was discovered in the mid-1950s.
18	Q. And although the spacing was 80 acres, was it
19	essentially developed with one well per quarter-quarter
20	section?
21	A. It was initially developed on 80s, and then in
22	the 1970s they began infilling on 40 acres. And what they
23	would do is abandon the old original Devonian well, and
24	then on the 40 acre opposite they would drill a new well.
25	Q. Okay. And in this pool, the Avra well is noted

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1	in Section 24. That well is a Devonian producer?
2	A. That's correct.
3	Q. But before Platinum came in and purchased leases
4	there were no other Devonian producers; is that correct, in
5	this pool?
6	A. There were a couple of marginal producers.
7	Q. Which Platinum purchased?
8	A. That Platinum purchased.
9	Q. Okay. Is there anything else you'd like to
10	discuss on this map?
11	A. No.
12	Q. Well, why don't you move on to your cross-section
13	and discuss the reservoir and what Platinum is doing in
14	this pool?
15	A. This cross-section is a stratigraphic cross-
16	section. It's to illustrate the heterogeneity of the
17	Devonian in this area in the Knowles South field. What
18	we've found, we've We're in the process of exploiting
19	and further developing Devonian faults of Devonian
20	features in Gaines County, Yoakum County and Lea County,
21	and what we're finding is that the reservoirs aren't
22	homogeneous, they're complex.
23	In the Knowles South case, there's several shales
24	that's interbedded, there's shale lenses that inhibit,
25	restrict the flow of oil, even though it's an oil I mean

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1	a water-drive reservoir. The water does not come up in a
2	uniform fashion; it's complex. And we're finding that to
3	be true in the Knowles South field, that it's one of the
4	more broken-up structures that we've developed at the
5	present time.
6	And so what we're finding is that we can go in
7	there's lenses, reservoir lenses, in the Devonian dolomite
8	that haven't really been exploited or they've under-
9	exploited. And so we feel that we can get in, in some
10	cases deepen old wells, in other cases drill laterals that
11	will open up these little reservoir lenses, and enhance the
12	oil recovery.
13	Q. Do you have a map of the laterals on one of your
14	wells?
15	A. Yes, I do.
16	Q. And is that marked Exhibit 5?
17	A. Right.
18	Q. Why don't you discuss that particular well and
19	the results of that well for the Examiner?
20	A. This illustrates what we're doing. The solid red
21	line indicates an actual lateral that we drilled, and you
22	can see that as we drilled it we encountered several shales
23	within our lateral. The red boxes, they indicate mud log
24	shows that we got as we drilled. And so we targeted the
25	dolomites which are the reservoir within the Devonian, and

we targeted and tried to stay within the -- in between the 1 shales, within the porous and permeable dolomite. And this 2 3 illustrates what laterals we've encountered, in general. And with respect to the well spacing, do you feel 4 0. it's better to have 40-acre spacing with the 330-foot 5 setback requirements on a guarter-guarter section, to be 6 7 available for you to adequately develop this old pool? 8 Α. Yes, I do. It gives you increased flexibility and well 9 0. locations, et cetera? 10 Right, it gives us a greater latitude in 11 Α. orienting our laterals so that we can orient them toward 12 13 areas of the field that we feel have been under exploited. Let's move on to your exhibits with respect to 14 Q. the Knowles pool, and first just briefly identify Exhibit 15 6. 16 Okay, it's a land plat showing Platinum's acreage 17 Α. outline. 18 19 Q. Now, you have not re-entered or drilled any new 20 wells in this pool --21 Α. No, we haven't. 22 Q. -- have you? 23 And on this plat, in the west half, southwest 24 quarter of Section 35, there's noted a Paladin well. Is that a producing well? 25

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1	A. Yes, it is.
2	Q. That's the only producing well in this pool at
3	this point, is it not?
4	A. Yes, it is.
5	Q. And the west half, southwest quarter is dedicated
6	to that well; is that correct?
7	A. That's correct.
8	Q. Okay, why don't you move on to your Exhibit 7 and
9	discuss the geology in the Knowles pool?
10	A. This exhibit is a montage that shows two cross-
11	sections, two structural cross-sections in the Knowles
12	field. It also has a structure map.
13	The reservoir is the Devonian dolomite with an
14	oil column approximately 360 feet thick, and we feel that
15	this is somewhat similar to the Knowles South the
16	proximity of the two fields, they're close, and we feel
17	that it'll be real similar, that we'll be able to exploit
18	it better if we can orient our laterals in the directions
19	we need to get away from old boreholes and be able to open
20	up porosity lenses, permeability lenses that we could
21	enhance the recovery and be able to get more reserves from
22	the field.
23	Q. And because of the heterogeneity of the
24	reservoir, you feel there are reserves in the pool that
25	haven't been tapped by the existing wells?

Yes, that's our belief. Α. 1 And again, even though the spacing is 80 acres in 2 Q. this pool, to a large extent they were developed one well 3 per 40; is that correct? 4 Yeah, to a large extent, that's correct. Α. 5 And again, with respect to this pool, do you feel Q. 6 that developing it based on statewide rules will give you 7 the added flexibility you need to properly locate your 8 wells to recover remaining reserves? 9 Yes, it will. Α. 10 Okay. Mr. Hobby, were Exhibits 1 through 7 11 Q. prepared by you, under your supervision or compiled from 12 company business records? 13 14 Α. That's right. 15 Q. And in your opinion, are the granting of these two Applications in the interests of conservation and the 16 17 prevention of waste? Yes, definitely. 18 Α. MR. BRUCE: Mr. Examiner, I'd move the admission 19 of Exhibits 1 through 7, 1A through 7. 20 21 EXAMINER CATANACH: Exhibits 1 and 1A through 7 will be admitted into evidence. 22 23 EXAMINATION BY EXAMINER CATANACH: 24 Mr. Hobby, do you know the status of the two 25 Q.

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1	producing wells, the Avra well and the Paladin well?
2	A. They're making a lot of water. I think they're
3	making in the neighborhood of anywhere from 20 to 45
4	barrels a day.
5	Q. Of oil?
6	A. Of oil.
7	Q. So they're still actively producing. And you
8	think they're making a lot of water?
9	A. Yes, I do.
10	Q. Have you by any chance talked to these two
11	companies about your proposal?
12	A. I've talked to Avra and he said that, you know,
13	was fine, that he wouldn't oppose us, that he didn't have
14	any problem with going to statewide rules.
15	Q. Do you know what their lease situation is? Is it
16	a Do both of these wells have 80 acres dedicated to them
17	at this point?
18	A. Yes, they do.
19	Q. Do you know how this changing to 40 acres is
20	going to affect those two proration units?
21	MR. BRUCE: Mr. Examiner, if I might, the well
22	units are oriented on a leasehold basis. The Paladin well,
23	if you look at Exhibit 1B
24	EXAMINER CATANACH: Exhibit 1B.
25	MR. BRUCE: and Mr. Reeves, our next witness,

can confirm this -- the Paladin well is the west half, 1 southwest quarter of Section 35, and it has common interest 2 ownership, whether you're looking at 40 or 80 acres. So 3 there's no effect on interest ownership. 4 5 EXAMINER CATANACH: Okay, that's the Paladin well? 6 That's the Paladin well. And then if MR. BRUCE: 7 you look at Exhibit 1A for the South Knowles Pool, the Avra 8 well is in the northeast quarter of Section 24, and again 9 the northeast quarter of Section 24 is a single tract with 10 uniform ownership. And therefore, regardless of how that 11 well unit is or may be oriented, interest ownership remains 12 13 the same in production from the well. EXAMINER CATANACH: Now, did you verify this, Mr. 14 15 Bruce, with the interest -- I mean, with the operators or --16 MR. BRUCE: I think Mr. Reeves can verify that 17 Platinum did a bunch of title work out here --18 19 EXAMINER CATANACH: Okay. 20 MR. BRUCE: -- on this, when they were out here purchasing their interests. And I believe Mr. Hobby could 21 confirm that they actually offered to buy Avra's well. 22 23 THE WITNESS: Yeah, that's correct. 24 Q. (By Examiner Catanach) Okay. In the South 25 Knowles-Devonian Pool, you guys are currently developing

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1	with laterals?
2	A. Uh-huh, that's correct.
3	Q. Are you re-entering existing wells?
4	A. We're re-entering So far we've re-entered five
5	existing wells and drilled laterals. The toe of the
6	lateral will be in within 150 feet of the center spot of
7	the 40, in compliance with the present field rules.
8	Q. Okay, the existing wells are wells that have I
9	presume have been depleted at their locations?
10	A. Yes, two of them have, and the other two were,
11	you know, making about 20-some-odd barrels a day.
12	Q. With respect to the heterogeneous nature of this
13	dolomite reservoir, is it just that this dolomite just
14	comes and goes, or are there porosity or permeability
15	barriers?
16	A. Well, there's within the dolomite reservoir
17	itself, there are lenses of porosity that develop, so
18	it's it could be the old the depositional fabric of
19	the dolomite or of the lime, carbonate, when it was
20	deposited, that contributed to this. And so we have
21	lateral changes in the porosity and the permeability, and
22	in the Knowles south, we're also finding that there's shell
23	beds and shell lenses that also segregate the reservoirs.
24	Q. Is that how the South Knowles and the Knowles
25	Pool is going to be further developed? Do you anticipate

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drilling laterals or --1 It depends. Some of these wells, we feel we can 2 Α. deepen, and other wells we feel that, you know, drilling 3 laterals is the best way to exploit them. You know, some 4 of the wells we may initially deepen them and put them on 5 production, see how they do, and then go back in and drill 6 7 laterals. We have a pooling clause in the Knowles South in 8 our leases, so that if we can get statewide rules we can 9 pool it and it will allow us more flexibility in the 10 orienting of laterals. 11 Now, the laterals, they're still going to be 12 Q. developed on 80 acres; is that correct? 13 As far as their orientation? Α. 14 As far as -- well, I assume that they're -- well, 15 0. I don't know for sure how that's going to work with the 16 17 laterals. Are you just producing in the bottom portion of 18 those wellbores? 19 A. Yeah, just in the Devonian is where we're 20 producing. 21 0. Okay. Do you know how many more wells you're going to drill in this area? 22 23 Α. In the South Knowles, we have planned one new 24 drill, and possibly three to four more laterals. 25 Q. How about the other pool?

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1	A. In the Knowles we have three laterals planned.
2	Q. So are you having good success with the laterals?
3	A. Yes, we are.
4	Q. Has the oil-water contact moved up in this
5	reservoir?
6	A. Since we drilled our laterals?
7	Q. Well, since the original?
8	A. Since the original? It's
9	Q. If you know.
10	A. Yeah, what we found is that because of the
11	heterogeneity of the different reservoirs, that in some
12	cases we're getting kind of an edge drive, we're getting
13	water, you know, coming up from the edges, possibly
14	enhanced from the faulting and fracturing of the reservoir.
15	And so in some cases we're finding that there's a high
16	water cut, relatively high in the reservoir, whereas below
17	there's higher oil cuts and because it's oil that's been
18	left behind.
19	Typically, these reservoirs, in the early days,
20	they would drill all the way through and determine where
21	the oil-water contact is. And then later, a lot of the
22	Devonian wells, they just scratch the top of it, thinking
23	that it's a homogeneous reservoir, that the water's going
24	to come to you, is going to find you, and so just
25	scratching to the top and produce the wells, they felt more

1 efficiently, that way.

2	And so in effect, the old deeper wells, where
3	they plugged back over the years and wound up plugging up
4	to the very top of the formation, in essence, there's high
5	water cuts in the very top of these formations. And like I
6	said, we're finding that we're finding high oil cuts deep
7	within the reservoir itself.
8	And so if we can get in there and open up the
9	lower sections and then and also open up what we feel
10	are what we found are isolated or oil pockets that
11	have been, you know, somewhat there's been a baffling
12	effect because of a decrease in the permeability or
13	whatever. If we can get down deeper to the Devonian and
14	open these reservoirs up, then we have success. And so
15	that's what we're finding. So it's
16	Q. So I have you guys done some drainage work out
17	here to determine what these wells are capable of draining,
18	or
19	A. That may be something that Mike could better
20	address, our engineer.
21	Q. Okay.
22	A. But you know, in my opinion it would be real
23	complex, it would be very complex.
24	Q. It sounds like it.
25	A. Yeah.

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1	EXAMINER CATANACH: Okay, I think that's all I
2	have of this witness.
3	JAMES MICHAEL REEVES,
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. BRUCE:
8	Q. Would you please state your name and city of
9	residence for the record?
10	A. James Michael Reeves, I reside in Midland, Texas.
11	Q. Who do you work for an in what capacity?
12	A. I work for Platinum Exploration, Incorporated.
13	I'm currently employed as a drilling engineer.
14	Q. Have you previously testified before the
15	Division?
16	A. Yes, I have.
17	Q. And were your credentials as an expert accepted
18	as a matter of record?
19	A. Yes, I was.
20	Q. And are you familiar with the engineering matters
21	involved in these two pools?
22	A. Yes, I am.
23	MR. BRUCE: Mr. Examiner, I'd tender Mr. Reeves
24	as an expert engineer.
25	EXAMINER CATANACH: Mr. Reeves is so qualified.

(By Mr. Bruce) Mr. Reeves, before we get into 1 ο. your drainage or your production testimony, let's ask a few 2 of the notice questions. Platinum has been out here buying 3 acreage now for what, a couple years or so? 4 Yes. 5 Α. And it did title work out in this area to 6 0. determine who owned what? 7 Α. That's correct. 8 And with respect to the Knowles Pool, the Paladin 9 ο. well unit, the west half, southwest quarter of Section 35, 10 that is all one tract, is it not? 11 12 Α. They own -- in the south --13 Q. In the west half, southwest guarter, just that well unit? 14 15 Α. Yes. That is the well unit for their well? 16 Q. 17 Α. Yes. 18 And it has uniform ownership in that --Q. Yes, it does. 19 Α. And same thing with -- in the South Knowles Pool, 20 Q. 21 in the Avra well, that 160-acre tract, again, is one singular tract --22 23 That's correct. Α. -- with uniform ownership? 24 Q. 25 That's correct. Α.

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1	Q. One other thing. With respect to There have
2	been 80-acre laterals drilled already in the South Knowles
3	Pool?
4	A. Yes, they have.
5	Q. Those 80-acre well units retain the prior
6	orientation of the well units for the existing for the
7	prior or existing wells, do they not?
8	A. That's correct.
9	Q. So
10	A. That's the most expedient way to
11	MR. BRUCE: And that is reflected in the Division
12	records, Mr. Examiner. So for instance, in Section 18, Mr.
13	Examiner, all those 80-acre well units for those laterals
14	are the same as for the prior wells, even if they were
15	abandoned at some point. So
16	Q. (By Mr. Bruce) Let's move on to your Exhibit 8,
17	Mr. Reeves. Could you identify that, discuss production in
18	the pools to date and what Platinum hopes to recover by way
19	of its re-entries and directional drilling?
20	A. The technical information I'm given here, we have
21	very little technical actual technical information
22	available to us. The logs are 1949- and 1950-vintage logs,
23	so they're not very they're hard to use for actual
24	calculations.
25	The figures I've given you were based on our

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research in Lea County, what the Devonian has been capable 1 of recovering, and we based on recovering what we feel has 2 been recovered successfully in other Devonian reservoirs in 3 Lea County of about 100 barrels per acre-foot for each one 4 5 of those reservoirs. These reservoirs, the Knowles reservoir has 6 recovered 51 barrels per acre-foot, and the Knowles South 7 8 has recovered 34 barrels per acre-foot, approximately. We feel like these lower recoveries are due to 9 the heterogeneity of these reservoirs, and our lateral 10 drilling, the heterogeneity has even been borne out more 11 than we anticipated initially. 12 We have a fault running through in Exhibit 3, 13 you'll see a fault shown in -- coming through this 14 reservoir. That was not -- When we initially started the 15 project, that was not considered a fault. We now feel that 16 there is a fault there. Our drilling indicates there's a 17 fault there, and this lateral actually encountered part of 18 the fracturing next to that fault. And we've got quite a 19 20 large water cut from that well. That is a producing well, this is our Brooks Number 2 well. It's in the South 21 Knowles in Exhibit 3. 22 In Section 12? 23 0. 24 In Section 18, excuse me. Α. 25 18. Q.

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1	A. Yes.
2	Q. Now So with respect to Exhibit 8, you're
3	predicting essentially doubling the recoveries that
4	doubling the existing recoveries?
5	A. We feel like we can easily double the recovery,
6	because we feel like if the reservoir is produced properly
7	and the oil is encountered the way it should have been
8	and I think in this reservoir, the laterals are really the
9	only method of recovery that are going to be successful, or
10	successful in recovering the potential of the reservoir.
11	Q. Now, the just looking in general in both
12	pools, what did good wells in the Knowles or Knowles South
13	Pool recover originally, roughly?
14	A. Oh, gosh, I didn't bring that. They're
15	recovering, in a good well, about 120,000 barrels.
16	Q. Okay, and that was for the older wells, the
17	wells
18	A. That's for the older wells, yes.
19	Q drilled in the 1950s and 1970s?
20	A. Yes.
21	Q. And at least you haven't drilled any wells yet
22	in the Knowles field?
23	A. No, the Knowles was actually developed on 40
24	acres, according to the wells that we're trying to work in.
25	We've got some 330 from the lease line, some several 330

1	from the lease line, so it appeared to me that they had
2	been actually developed on 40-acre spacing.
3	Q. Even though the well spacing was officially 80
4	acres, they were
5	A. Yes, sir.
6	Q effectively developed on 40s, with unorthodox
7	locations thrown in?
8	A. That's my supposition, yes, sir.
9	Q. Okay. Now, the wells that you drilled in the
10	South Knowles, what type of water production are you
11	getting from those wells?
12	A. We have a high water cut, which that's our
13	method of production. In the older in these older
14	reservoirs, you move fluid, you're going to get a fairly
15	decent oil production.
16	For example, in the Number 2 Brooks well, which
17	is the lateral in Exhibit 3, this Number 2 Brooks well, you
18	see how close to this fault coming through here we have.
19	Its initial production prior to our working the well over
20	was 22 barrels a day, with about 80 barrels of water.
21	Currently, we're producing 130 barrels of oil a
22	day with about 2500 barrels of water, which is still an
23	economically viable method of production. That's typically
24	how we produce our wells.
25	Q. Okay, and that would be what you'd hope to

1	accomplish on these other wells?
2	A. That's exactly right, exactly. The one due south
3	of this one is the Brooks Number 1. It was a similar 20-
4	barrels-a-day well, and it's producing at, currently, 160
5	barrels a day, of oil, with about 2400 barrels of water.
6	Q. Have you been able to calculate the drainage
7	areas for these wells?
8	A. We don't have the technical information available
9	to us. The logs were too old to really be usable for
10	Q. Too old or poor quality?
11	A. Right. And we haven't logged the laterals.
12	Q. Okay.
13	A. I think that's So we're going to have to do it
14	based on just calculating what it could have recovered,
15	based on the lateral geometry.
16	Q. But the fact that you are getting wells producing
17	120 or 160 barrels of oil per day indicates there are
18	undrained reserves in these reservoirs?
19	A. That and the heterogeneity of the reservoir, we
20	feel like there's some intervals that haven't been drained
21	at all. They appear to have some pressure reduction in the
22	reservoir, but the oil cut, like David was saying, is still
23	very high, much higher than it should have been in a
24	properly drained reservoir.
25	Q. And therefore you feel that you need the

flexibility provided by statewide rules to adequately 1 develop --2 I think it's --3 Α. -- these reservoirs? 4 0. I think it's essential in this case, yes. 5 Α. MR. BRUCE: Okay. Mr. Examiner, Exhibit 9 is the 6 affidavit of notice with respect to the Knowles South Pool. 7 (By Mr. Bruce) Mr. Reeves, for that I notified 8 ο. 9 Avra Oil Company, which is an operator in the Delaware, 10 correct --11 Α. That's correct. 12 Q. -- I mean Delaware in the Devon --13 A. Devon ---- Devonian 14 0. 15 -- Devonian. Α. Q. And I also notified Triumph Exploration and 16 17 Fagadau Energy, which were pulled up off the Division's records, but has Platinum acquired the interests of Fagadau 18 19 Energy? Yes, we have --20 Α. 21 Q. Okay, and so that was --22 Α. -- which was previously Triumph. 23 Okay, so it's essentially the same company, so Q. that was just over-notification. Okay. 24 25 And Mr. Examiner, Exhibit 10 is the affidavit of

notice with respect to the Knowles Pool, and again Paladin 1 Energy was notified, and because of the lease holding out 2 here, whether you're on 80 acres or 40 acres, none of the 3 existing wells would have been -- would have had the 4 5 interests and production affected, and therefore we just notified the operators in these wells. 6 7 Mr. Reeves, were Exhibits 8 through 10 prepared by you or compiled from company business records? 8 9 Α. Yes. And in your opinion is the granting of these 10 0. applications in the interests of conservation and the 11 prevention of waste? 12 13 Α. Very definitely. MR. BRUCE: Mr. Examiner, I'd move the admission 14 15 of Exhibits 8 through 10. 16 EXAMINER CATANACH: Exhibits 8 through 10 will be admitted. 17 Mr. Bruce, as far as you could determine, there's 18 19 no other Devonian operators within a mile of these pools? 20 MR. BRUCE: Correct, the Division records show none. 21 22 EXAMINATION 23 BY EXAMINER CATANACH: 24 Mr. Reeves, within the acreage that your company Q. 25 has purchased in this area, what types of land is this? Is

1	it all fee land or state land or
2	A. It's mainly fee land.
3	Q. Fee land?
4	A. We have one 160-acre tract, the east half of
5	Section 13, the east half of the east half of Section 13
6	somehow became federal. I'm not certain how that happened,
7	but the remainder of it is fee land.
8	Q. So you've essentially got a situation where
9	are you the only working interest owner?
10	A. Yes, sir.
11	Q. Okay. So the royalty interest owner is going to
12	be different on the various different leases that you
13	purchased?
_, 14	A. Yes, sir.
15	Q. Okay. So going from 80 to 40 acres, does that
16	affect some of the royalty interest owners who will
17	A. Not on our current development pattern, no.
18	Q. Do you know what's going to happen with the
19	lateral wells? Are those going to continue to be are
20	those going to go to 40 acres if this is approved?
21	A. No, sir.
22	Q. Those are going to stay on 80?
23	A. They'll stay on 80 or
24	Q. Because of the nature of the well?
25	A or more. We may go up to 160 acres.

1	Q. Okay, so those ones are those are not going to
2	be affected by this rule change?
3	A. No, sir.
4	Q. And I believe that you said there's going to be a
5	couple of or previous testimony some vertical wells
6	drilled?
7	A. We have two vertical wells, one already
8	permitted. Our intent is to drill it vertically and test
9	and then to drill laterally. That was our original intent.
10	However, with our success to date of our laterals, we may
11	go ahead and just drill laterals instead of drilling the
12	vertical and testing.
13	It will also allow us to get some real technical
14	data where I can run some decent log and be able to
15	identify our reservoir information a little better.
16	Q. So basically you're going to drill some laterals,
17	and the actual well spacing is going to remain the same.
18	They're going to be spaced on 80 acres; is that ?
19	A. Well, the Federal Davis Number 4 in this Exhibit
20	2, you'll notice a circle for the wellbore position. It
21	will be more than 180 acres; we'll be drilling that a
22	little further. And with the new rules, we would capable
23	of diverting from the older wellbores and getting into
24	quite possibly areas that have not been drained, which is
25	our intent.

~

1	Q. Okay. It sounds to me like development of this
2	pool is not going to be on 40 acres; it's going to be on
3	80s or larger units; is that correct?
4	A. Well actually, the development was on 40 acres.
5	You've got wellbores on every 40 acres out there.
6	Q. But you're not going to have any wells that have
7	40 acres dedicated to them; you're going to have at least
8	80 acres
9	A. You can't drill a lateral and make it economic
10	for 40 acres, no, sir.
11	Q. Well, what is the advantage of going to 40-acre
12	spacing?
13	A. It allows us to deviate from the old wellbores
14	and drain areas that we don't feel have been drained.
15	Q. But can't you do the same thing Under the
16	current rules you can apply for a project area
17	A. Even with the 80-acre, the most we can deviate
18	from the current wellbore is 150 feet.
19	Q. Okay, so basically it gives you flexibility in
20	locating the wells?
21	A. That's correct.
22	Q. That's the advantage?
23	A. And our lateral, and that's all we're really
24	asking for, is the flexibility to do that.
25	Q. I guess the threshold question is, what do these

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wells drain? I mean, in your opinion what are these things 1 draining? 2 Well, they haven't drained 80 acres. And whether 3 Α. the lateral will make them capable of draining the 80 4 acres, I -- we don't know yet. 5 **Q**. But a typical vertical well in this pool would 6 not drain 80 acres? 7 No, sir, it would not. It has not. 8 Α. Q. Now, have you looked at some of the production 9 data and made that determination yourself? 10 Yes, sir. 11 Α. When the infill wells were drilled, do you know 12 Q. what kind of production numbers they got? If I understand, 13 the original well was drilled on 80, and then they produced 14 it for a while, and then they came back and drilled infill 15 wells? 16 17 Actually, yes, sir, they came back and drilled Α. infill wells, and many times the other producing well was 18 19 producing at the same time. In other words, they were 20 producing two wells in each 80 acres. Okay, but do you know what the results of the 21 Q. 22 infill wells typically were? Did they get good production from those wells? 23 They didn't get as good a production from the 24 Α. secondary wells. My estimation is about 80 percent of the 25

1 original wellbore, which would still make it ---- a producing rate? 2 Q. 3 Yes, sir. Α. What about ultimate recoveries, did you look at 4 Q. 5 those? I'm thinking of ultimate recovery, excuse me. 6 A. Okay. So they recovered about 80 percent of what 7 Q. 8 the parent well did? Yes, sir. 9 Α. 10 Q. Okay. Which still, the recovery in the South Knowles is 11 Α. still extremely low. I mean, 34 barrels per acre-foot, 12 that's basically 34 percent of what they really should have 13 recovered. So we've got basically a third of what we feel 14 like the reservoir should have given up. 15 So you think that you can at least double what's 16 Q. 17 been recovered in this pool? Without a doubt, I do, yes. 18 Α. 19 Q. So you'll get another 15 million barrels? 20 Α. Well, I wish I had 15 million to start with. (Laughter) 21 22 (By Examiner Catanach) Well, isn't that what the Q. recovered, the cumulative on those? 23 24 A. The Knowles recovered right at 4 million barrels, 25 and the Knowles South was 10 million barrels.

A. Same

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1Q. Yeah, closer well, so they've cumulatively2recovered 15 million barrels?3A. Yes, sir.4Q. So you're saying you can get at least that many?5A. I think that's very capable we're very capable6of doing that, yes, with the laterals, because what we've7seen in the laterals to date is that we've encountered8areas that were probably never drained. Because of the9shale lamination, the water drive was ineffective, or not10effective at all. And basically all you had was gas11expansion involved in the recovery factor. And that's why12I think you see the 34 per the 30-percent of what we13should have recovered, because of the shale laminations in14there.15Q. What are you guys doing with all the water?16A. We have disposal wells in the area that we're17we're also permitting some other disposal wells to be able18to handle all the water production.19Q. So are you guys producing these wells on21A. We're injecting below the oil-water contact in22A. Yes, sir, sure are.23Q. So are you guys producing these wells on23submersible pumps?24A. Yes, sir, sure are.25Q. Okay. I believe you gave some figures for a		34
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25 Q. Okay. I believe you gave some figures for a	24	A. Yes, sir, sure are.
	25	Q. Okay. I believe you gave some figures for a

1 well, one of your lateral wells, producing about 120 2 barrels of oil a day? 3 Yes, sir. Α. 2500 barrels of water. Is that typical for one 0. 4 of these laterals? 5 Α. It seems to have been. We've done -- We've got 6 results from three wells out there that we have actually 7 had production on, and they've all been in the 120- to 150-8 barrel-a-day range, so we feel very comfortable about 9 continuing our development of the reservoir. 10 EXAMINER CATANACH: Okay, that's all I have. 11 MR. BRUCE: Go ahead. 12 MS. MacQUESTEN: I had a few questions I was 13 14 hoping you could help me understand, the notice provisions. Are you proceeding under the notice provision for special 15 pool orders regulating or affecting a specific pool? It's 16 in 1207.A.(4). 17 18 MR. BRUCE: Yes. 19 MS. MacQUESTEN: And that has two different 20 provisions. One, if the Application involves changing the amount of acreage, and a second provision if the 21 22 Application hasn't? 23 MR. BRUCE: Correct. 24 MS. MacQUESTEN: Are you proceeding under the one 25 for changing the acreage?

1	MR. BRUCE: Yes, we were, if we're changing it to
2	40, yes.
3	MS. MacQUESTEN: And that would require notice to
4	the operators but also to all owners of interests in the
5	mineral estate in existing spacing units with producing
6	wells?
7	MR. BRUCE: That's right, Ms. MacQuesten, and I
8	recognize that. On the other hand, they're not being
9	squeezed out of a well, is what I'm saying, because of the
10	way these the two existing wells in the pool. And
11	actually all wells in the pool, if you look at the
12	exhibits, all of the existing wells out there are on 80
13	acres, and they are all for instance, if you look at the
14	existing Paladin well in the Knowles Pool, west half,
15	southwest quarter of Section 35, that is a single tract.
16	It was patented by the federal government, and ownership is
17	uniform in that tract.
18	So whether it is on 80s or 40s, no one will be
19	cut out of production, Number 1.
20	And the same thing with all of the wells in the
21	Knowles South Pool, they are on None of these tracts
22	have been pooled with any other tracts at this point. They
23	are all uniform tracts, each well, and therefore I
24	recognize what the Rule says, and if we have to we can give
25	additional notice, but what I'm saying is that no one will

be cut out of production on any existing well in the pool 1 because interest ownership in the tracts on which they are 2 located is uniform. So even if spacing went down to 40 3 acres, it would be the same interest owners in the same 4 proportion, whether you're looking at 40 or 80 acres. 5 EXAMINER CATANACH: Well, does that hold true for 6 the existing wells of your client, that your client owns? 7 MR. BRUCE: Yes, Mr. Examiner, if you look at 8 Exhibit 3, for instance -- yeah, that one right there --9 and compare that with Exhibit 1A, there's two things. 10 First of all, if you look at Section 18, the west 11 half of Section 18, it is comprised of four separate 12 Those four wells, those four wells that Platinum tracts. 13 has re-entered or drilled maintain those 80-acre well 14 units, and those are the same 80-acre well units that were 15 initially established when the wells were drilled back in 16 the 1950s or 1970s, number one. So the well-unit 17 18 orientations have not changed. 19 The second thing is that each of those four 20 tracts -- each of them separately has common interest 21 ownership. The west half, northwest quarter, which was a well unit back in the 1950s, is still a well unit, and it 22 has uniform ownership, uniform mineral interest ownership. 23 Same thing with the east half, northwest, and then the two 24 tracts in the southwest quarter. 25

So regardless of whether these were spaced -- if 1 2 these were vertical wells and they were respaced on 40s, no 3 one would be cut out of production. Okay. Now, are those the 4 EXAMINER CATANACH: only four existing wells that your client operates in the 5 6 south --Those four, and then that one in the 7 MR. BRUCE: southeast quarter of Section 12. And the southeast quarter 8 of Section 12 is -- 160 acres is a uniform tract. Now 9 again, the well units originally in that southeast quarter 10 were standup well units --11 12 EXAMINER CATANACH: Okay. MR. BRUCE: -- and that is shown by the 13 Division's records. 14 15 EXAMINER CATANACH: Okay, but due to the nature of these wellbores being laterals, the current plan is to 16 leave these spaced on 80 acres; is that right? 17 18 MR. BRUCE: These, yes --19 EXAMINER CATANACH: Because of the project 20 area --21 MR. BRUCE: -- because they're laterals, the 22 project area would be 80 acres --23 EXAMINER CATANACH: Okay. 24 MR. BRUCE: -- that is correct. 25 And getting back to your other question, Mr.

	39
1	Examiner, you may be right, leaving them on 80s at this
2	point may not have any effect. But I suppose there are
3	chances where they might want to do a lateral that has a
4	120-acre project area.
5	THE WITNESS: That's what I was pointing out on
6	the Federal Davis Number 4.
7	MR. BRUCE: Okay.
8	THE WITNESS: It is actually a 120-acre project
9	area.
10	MR. BRUCE: It would be a 120-acre project area.
11	There may be chances for that up in the Knowles Pool also,
12	which would make it easier to form those 120-acre project
13	areas if the well spacing was 40 acres rather than 80.
14	But getting back to Gail's question, we can
15	notify those interest owners if you so desire. But once
16	again, they are not affected. Their interests will not be
17	reduced by de-spacing.
18	EXAMINER CATANACH: I'll tell you what, Mr.
19	Bruce, we're going to discuss a little bit, we're going to
20	leave the record open
21	MR. BRUCE: Okay.
22	EXAMINER CATANACH: in the case for a couple
23	of weeks and see if we want you to do anything else as far
24	as notice is concerned.
25	MR. BRUCE: That's fine.

	40
1	EXAMINER CATANACH: Okay, anything else?
2	MR. BRUCE: I don't think so.
3	EXAMINER CATANACH: Okay, there being nothing
4	further, Case 13,400 and 13,401 will be continued to the
5	January 20th hearing.
6	And let's take about a 15-minute break here
7	before we start on the other case.
8	(Thereupon, these proceedings were concluded at
9	9:29 a.m.)
10	* * *
11	
12	
13	
14	I do hereby certify that the foregoing is
15	a complete record of the proceedings in the Examiner hearing of Case No. 13400,13401
16	heard by me on Gavary 6 2005
17	Oil Conservation Division
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CERTIFICATE OF REPORTER

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

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

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

WITNESS MY HAND AND SEAL January 8th, 2005.

STEVEN T. 'BRENNER CCR No. 7

My commission expires: October 16th, 2006

STEVEN T. BRENNER, CCR (505) 989-9317 41