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1	STATE OF NEW MEXICO
2	ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
3	OIL CONSERVATION DIVISION
4	
5	IN THE MATTER OF THE HEARING ) CALLED BY THE OIL CONSERVATION )
6	DIVISION FOR THE PURPOSE OF ) CONSIDERING: ) CASE NO. 11,041
7	APPLICATION OF PG&E RESOURCES )
8	COMPANY )
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10	ORIGINAL
11	
12	REPORTER'S TRANSCRIPT OF PROCEEDINGS
13	EXAMINER HEARING
14	BEFORE: JIM MORROW, Hearing Examiner
15	
16	July 21, 1994
17	Santa Fe, New Mexico
18	
19	
20	This matter came on for hearing before the Oil
21	Conservation Division on Thursday, July 21, 1994, at Morgan
22	Hall, State Land Office Building, 310 Old Santa Fe Trail,
23	Santa Fe, New Mexico, before Steven T. Brenner, Certified
24	Court Reporter No. 7 for the State of New Mexico.
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1	APPEARANCES	
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3	FOR THE DIVISION:	
4	RAND L. CARROLL Attorney at Law	
5	Legal Counsel to the Division State Land Office Building	
6	Santa Fe, New Mexico 87504	
7		
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11	By: W. THOMAS KELLAHIN	
12	* * *	
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WHEREUPON, the following proceedings were had at 1 2 11:07 a.m.: EXAMINER MORROW: Call Case 11,041 at this time. 3 MR. CARROLL: Application of PG&E Resources 4 5 Company for pool creation, special pool rules and a 6 discovery allowable, Lea County, New Mexico. 7 EXAMINER MORROW: Call for appearances. 8 MR. KELLAHIN: If the Examiner please, I'm Tom Kellahin of the Santa Fe law firm of Kellahin and Kellahin, 9 10 appearing on behalf of the Applicant, and I have three witnesses to be sworn. 11 12 EXAMINER MORROW: Please stand. (Thereupon, the witnesses were sworn.) 13 MR. KELLAHIN: Call at this time Mr. Ralph 14 15 Nelson. Mr. Nelson is a petroleum geologist. 16 RALPH NELSON, 17 the witness herein, after having been first duly sworn upon 18 his oath, was examined and testified as follows: 19 DIRECT EXAMINATION 20 BY MR. KELLAHIN: Mr. Nelson, for the record would you please state 21 Q. your name and occupation? 22 I'm Ralph L. Nelson, geologist. 23 Α. 24 Where do you reside, sir? Q. Colleyville, Texas. 25 Α.

1	Q. And by whom are you employed?
2	A. PG&E Resources.
3	Q. Have you made a geologic study of the facts
4	surrounding this Application by your company for a new
5	Strawn pool?
6	A. Yes.
7	Q. Does this represent your geologic work, the
8	geologic displays that we're about to introduce to the
9	Examiner?
10	A. That is correct.
11	MR. KELLAHIN: We tender Mr. Nelson as an expert
12	petroleum geologist.
13	EXAMINER MORROW: All right, we accept Mr.
14	Nelson.
15	Q. (By Mr. Kellahin) Mr. Nelson let's turn to
16	Exhibit Number 1 and use it as a locator first.
17	Tell us what you have shown on that display as
18	being the location of the Smith 15 Number 1 Well, which is
19	the discovery well.
20	A. The open circle noted by the arrow and sign the
21	location in the southeast of the southwest of Section 15 of
22	16-36. The map that you see there is a structure map on
23	the top of the Strawn limestone.
24	Q. Before we look at the structure, let's look at
25	the points of control in the Strawn. How far do we have to

1	go away before we find another Strawn oil well?
2	A. There is one Strawn oil well within the two-mile
3	radius that is approximately 5500 feet to the southeast.
4	Q. And where do we find that on the display?
5	A. That is in Section 23, the Hisson State A Well.
6	Q. That's the one with the dryhole symbol?
7	A. Abandoned.
8	Q. Abandoned hole symbol?
9	A. Well symbol, yes.
10	Q. Apart from that well, how far do you have to go
11	in any direction before you find another Strawn oil pool?
12	A. In excess of a two-mile radius around our
13	discovery well, approximately two and a half to three
14	miles.
15	Q. Regionally, give us a sense of where we are. How
16	far do we have to go to find another established Strawn
17	pool, and what is the name of that pool?
18	A. Northeast Lovington, that's the two and a half to
19	three miles.
20	The Townsend Strawn Pool is approximately four
21	miles to the northwest.
22	The Shoe Bar Strawn Pool is approximately four
23	miles to the west.
24	Q. Give us a description geologically of what type
25	of Strawn reservoir you've discovered.

1 Α. These are Strawn algal mounds. We believe what we have found is consistent with the Strawn algal mounds 2 that have been found to date in this area. Reservoir 3 rocks, from mud log descriptions, are similar in the sense 4 it's a light tan, vuggy-porosity limestone, which is very 5 similar to fields in the area. 6 7 ο. Is structure of significance to you when you search for and try to discover and further develop Strawn 8 oil pools like this? 9 10 Α. Structure is significant. However, porosity 11 development and algal buildup is also important. 12 0. Describe for us the structural components of 13 Exhibit 1. 14 Structural components here, as far as our Smith Α. 15 well, shows that we have a separated anomaly centered in 16 the southwest of Section 15, with a regional west dip 17 coming off the Lovington arch to the east, and we are structurally separated from a saddle located in the 18 southeast of Section 15 from other wells surrounding us. 19 20 ο. Have you also prepared a cross-section? Yes, I have. 21 Α. Let's take a look at that. The line of cross-22 0. section for the structure map is shown on Exhibit 1? 23 That is correct. And that runs from the well on 24 Α. 25 the left, the well on the west, being the PG&E discovery

well, through the O'Neill well, located to the east
southeast of that well, and then over to the Pennzoil
Hisson well that was the only Strawn producer within the
circled area.
Q. On the log of the discovery well, find for us the
vertical limits of what you propose to be this Strawn Oil
Pool.
A. On the PG&E 15-1 Smith, at the top of the page,
is at 11,453, and the base is at 11,526.
Q. Can you correlate that pay interval to the other
wells on the cross-section?
A. No, I cannot. The Strawn interval itself is
present, but algal buildup and porosity is not present in
the O'Neill well.
There is a slight buildup, however, in the well
labeled Pennzoil State "A" 1. That well, however, only
produced 1329 barrels.
Q. Summarize for us your geologic conclusions that
cause you to believe that this discovery is horizontally
and vertically separated from any other known producing
Strawn oil pool.
A. The Smith 15-1 is separated by dryholes, both the
O'Neill well that I've previously mentioned and shown on
this cross-section, as well as the Santa Fe well, also in
Section 15, as not having any porosity, permeability or

1 buildup. Vertically, we are about 200 feet lower than the 2 production in the other -- only other well within the two-3 4 mile radius, being that Pennzoil State "A" 1. We've asked the Division, in addition to creation 5 0. of a new pool, to also adopt some special rules. One of 6 7 those rules is 80-acre oil spacing. Do you have a recommendation as to that issue 8 9 from a geologic perspective? In the past, the wells, the fields in this area 10 Α. 11 have been set up on 80-acre spacings because of drainage 12 and productivity. 13 Q. Okay, these algal mounds in the Strawn are 14 typically on 80-acre oil spacing, are they not? 15 Α. That is correct. And you're seeking to have rules that are similar 16 Q. to the rules for similar types of mounds? 17 That is correct. 18 Α. The conventional rules, then, for this type of 19 ο. reservoir provide for well locations within 150 feet of the 20 center of either of the 40-acre tracts in the 180. 21 Is that an acceptable rule for you to apply in this pool? 22 Α. Yes. 23 In addition, we're asking for the standard 2000-24 Q. to-1 GOR for this reservoir. That's not a special rule 25

then? 1 2 (Nods) Α. Okay. Your depth bracket oil allowable would be 3 Q. about 445 barrels a day for 80-acre oil spacing? 4 Yes, that's my understanding. 5 Α. And you're seeking that only one well would be 6 Q. drilled in the 80-acre oil proration unit? 7 That is correct. 8 Α. 9 Okay. Will the adoption of those rules provide Q. 10 you sufficient flexibility as a geologist to further develop this reservoir? 11 12 Α. Yes. MR. KELLAHIN: That concludes my examination of 13 Mr. Nelson. 14 15 We move the introduction of his geologic 16 displays, Exhibit 1 and 2. 1 and 2 are admitted. 17 EXAMINER MORROW: 18 EXAMINATION 19 BY EXAMINER MORROW: 20 The Pennzoil well is the one that's -- How far Q. away is it? 21 I believe that distance is about 5500 feet. 22 Α. Looking on this map, it may be further than that, however. 23 Well, was it the one you discussed initially --24 Q. It is. 25 Α.

1	Q when you talked about Exhibit 1? I understood
2	you to say it was at
3	A. I did say Hisson that well I said that
4	incorrectly. That well was initially drilled to a depth of
5	10,398 feet. And Pennzoil re-entered it for a deeper
6	completion.
7	Q. It never did produce?
8	A. It never did. Pennzoil well in the same location
9	did produce from the Strawn.
10	Q. Pennzoil well at this State 12 location?
11	A. No, the State "A" location in Section 23.
12	Pennzoil re-entered the Hisson well.
13	Q. All right. Re-entered the Hisson well, and it
14	produced for a while?
15	A. That is correct. The information that we have
16	showed that it produced one month, it produced 1329
17	barrels.
18	Q. Okay. The O'Neill Pennzoil "22" State Number 1
19	never did produce anything other than just a little
20	A. That is correct.
21	Q. They didn't actually
22	A. No, they did not set pipe on that well.
23	Q. Now, you said one well per 80 acres. I guess you
24	wouldn't want to preclude drilling more than one if you
25	needed more than one; is that

I think the reservoir engineer will suggest that 1 Α. 2 that --3 Q. It's enough. -- is sufficient. 4 Α. Normally, I guess the rules wouldn't prohibit it, 5 Q. 6 but it wouldn't require it either. 7 You found your location with seismic data? Yes, we did. 8 Α. And your engineer will talk about discovery 9 Q. allowable and the amounts that --10 Α. Yes. 11 12 MR. KELLAHIN: Call at this time Mr. George 13 Vaughn. 14 GEORGE VAUGHN, the witness herein, after having been first duly sworn upon 15 16 his oath, was examined and testified as follows: 17 DIRECT EXAMINATION 18 BY MR. KELLAHIN: Mr. Vaughn, would you please state your name and 19 Q. 20 occupation? George Vaughn, staff reservoir engineer. 21 Α. And where do you reside, sir? 22 Q. 23 Α. Carrollton, Texas. 24 On prior occasions, Mr. Vaughn, have you Q. 25 testified as a petroleum engineer before the Division?

1	A. I have not.
2	Q. Summarize for us your education.
3	A. I have a degree in engineering from Texas Tech
4	University, 1961. I am a registered petroleum engineer,
5	State of Texas. I have practiced approximately 27 years.
6	Q. As part of your duties for your company, have you
7	made an engineering study of the factors surrounding this
8	Application?
9	A. Yes, I have.
10	Q. And are you familiar with the production history
11	on the discovery well, the Smith 15 Well Number 1?
12	A. Iam.
13	MR. KELLAHIN: We tender Mr. Vaughn as an expert
14	petroleum engineer.
15	EXAMINER MORROW: We accept Mr. Vaughn.
16	Q. (By Mr. Kellahin) Mr. Vaughn, let's turn to some
17	of the information you have provided and look at Exhibit
18	Number 3.
19	Before we look at the specific details, tell us
20	the objective and the purpose of having compiled this
21	information.
22	A. The purpose of compiling this information was to
23	indicate that all of the producing Strawn fields in the
24	general vicinity, at least, of the proposed Diamond field
25	experienced initial pressure gradients in the same general

1 vicinity as we have experienced at the Smith 15-1 where we 2 have an initial discovery, based on the initial drill stem test, of a .396 gradient. 3 You'll see that the other fields' initial DSTs 4 indicated gradients of .36 to .42, which we believe 5 indicates definitely that we do have an initial well in a 6 new reservoir. 7 If you weren't dealing with a new well in a new 8 Q. reservoir, what would happen to the pressure gradient? 9 You would see that somewhat less than the average 10 Α. indicated here. 11 When you look at Mr. Nelson's geologic picture of 12 Q. the relationship of his discovery to other wells in the 13 area, and then apply the pressure gradient information, 14 15 does that confirm or dispute his geologic conclusion that 16 he's got a separate reservoir? 17 Α. I believe it definitely confirms it. Is there anything else that you see in the way 18 Q. this well is acting or in the data that you're gathering 19 20 that causes you to believe that this is a new discovery? Initial tests The well has been highly prolific. 21 Α. tested in excess of our current producing rate of 450 22 23 barrels a day, indicating a very prolific well. Let's turn to some of that information. 0. If 24 you'll look at Exhibit 4, identify for us what you have 25

1 tabulated on that display.

2	A. You see tabulated here the daily production of a
3	short-term test that was performed back in May at some
4	various choke sizes, 18/64 to 24/64 chokes, indicating
5	producing rates of 500 to almost 800 barrels a day.
6	And then you later will see production from June
7	30th through just recently July 18th, which was the latest
8	data we had available, indicating that the well continues
9	to produce at current allowable rates.
10	Q. I think you may have misspoken. The current
11	allowable rate would be 40 acres until we can establish the
12	discovery
13	A. Well, correct.
14	Q. Yeah.
15	A. Well, it for an 80-acre It's about a
16	current allowable for 80 acres, which is 445 barrels a day.
17	Q. Yes, sir. So at 445, if that's the 80-acre
18	allowable the Examiner approves this discovery, then this
19	well certainly has the capacity to do that?
20	A. Yes.
21	Q. And if it's reduced to a 40-acre depth bracket
22	allowable, you're going to have to curtail your well?
23	A. That's correct.
24	Q. What does that tell you as a reservoir engineer
25	with regards to spacing, at least initial spacing, and

1 drainage potential? That would indicate to me, based on the producing 2 Α. history of the other wells in the Strawn where 80 acres is 3 the spacing, that this well is certainly capable of 4 5 draining 80 acres. 6 Do you have a copy of the depth bracket allowable Q. out of the rules? 7 Yes, I do. 8 Α. Turn to the table, and let's see what the number 9 Q. is, if at this depth we were on 40 acres. I think you're 10 at 11,453. 11 12 Α. It would be 365 barrels per day. Do you see any need, initially, to have a 13 Q. Okay. gas-oil ratio different than the statewide rule of 2000 to 14 15 1? 16 Α. I do not. The gas withdrawals from the reservoir is not an 17 Q. 18 issue; you can produce this well without an adjustment in 19 the 2000-to-1 GOR? That's correct. 20 Α. Okay. Do you see any indication or evidence of 21 Q. water production in the reservoir? 22 None at all. 23 Α. Do you see any -- If there's no water production, 24 Q. 25 then we don't have active water drive or even passive water

16

1	drive to affect recoveries or deliverabilities?
2	A. Certainly does not appear to be any effect at
3	all.
4	Q. Okay. Any indication of a gas cap in the
5	reservoir where we need to be sensitive about withdrawals
6	of reservoir fluids?
7	A. None.
8	Q. One of the rules we're asking for is the
9	preclusion, at least initially, of having more than one
10	well in an 80-acre tract so that initial development takes
11	place on true 80-acre spacing with only a single well.
12	That is part of the request. Do you see a purpose, as a
13	reservoir engineer, in accomplishing that objective?
14	A. I do from an economic standpoint. And based on
15	the history in the other fields that we've referred to
16	earlier, 80 acres certainly seems to be an adequate spacing
17	to drain these Strawn reservoirs.
18	We are a working-interest owner in the Townsend
19	field, have intimate knowledge of that situation, for
20	instance, and it is very apparent that that reservoir is
21	being drained on 80-acre spacing.
22	Q. Yeah. But the rather common practice or
23	convention, at least with the Division, is that on 80-acre
24	oil spacing, you get an 80-acre allowable of 445 a day, but
25	you would not be precluded from having two wells to share

	10
1	that allowable? In other words, you could drill two wells
2	in the 80 and share a 445 allowable?
3	A. (Nods)
4	Q. In your opinion, that is not prudent in this
5	reservoir, at least initially?
6	A. It is not.
7	Q. The general rules for 80-acre oil well spacing
8	provide for locations within 150 feet of the center of
9	either of the 40-acre tracts in the spacing unit.
10	Is that, at least initially, an appropriate place
11	to start for well spacing in order to keep the wells spaced
12	out so that you can encourage efficient development and
13	expansion of the reservoir?
14	A. It is acceptable, satisfactory.
15	MR. KELLAHIN: That concludes my examination, Mr.
16	Examiner.
17	We move the introduction of Mr. Vaughn's Exhibits
18	3 and 4.
19	EXAMINER MORROW: 3 and 4 are admitted.
20	I appreciate your questions concerning the second
21	well or additional well, but I guess I still don't
22	understand if you're asking that we put a provision in here
23	which would prohibit additional wells, or are you just not
24	going to drill additional wells? Is that If they were
25	allowed as the rule It normally would. I just don't

	19
1	know whether you're requesting that a rule be put in here
2	to restrict development to one well per 80.
3	MR. KELLAHIN: The request of the Applicant, Mr.
4	Examiner, is, at least for the temporary period, to have
5	that restriction.
6	EXAMINER MORROW: Okay. And you are requesting
7	temporary rules? And it may say that in the notice; I just
8	didn't pick up on it.
9	MR. KELLAHIN: We're asking for 18 months, I
10	believe.
11	Did you want two years, 18 months? What was your
12	preference, Jerry?
13	We believe the course of development, Mr.
14	Examiner, would provide us an opportunity if it was two
15	years to get the additional wells and reservoir data to you
16	that we can discuss these rules again.
17	EXAMINATION
18	BY EXAMINER MORROW:
19	Q. Are there you mentioned a or you talked
20	about other pools nearby and 80-acre rules there.
21	Are there some rules that are similar to what you
22	want here? Do you know rules in other nearby pools that
23	would mirror what you would like to have in this pool?
24	A. I cannot speak as to the exact verbiage
25	concerning the 40-acre alternatives, but
-	

19

1	MR. KELLAHIN: Mr. Examiner, the Casey-Strawn,
2	the Shipp-Strawn, will have the conventional 80-acre,
3	everything else in them, except they won't have the
4	limitation on the second well.
5	EXAMINER MORROW: Casey-Strawn and what other
6	ones?
7	MR. KELLAHIN: The Shipp-Strawn will have it too.
8	That will be the same rule.
9	EXAMINER MORROW: Do you have anything?
10	MR. CARROLL: No.
11	EXAMINER MORROW: Thank you, sir, appreciate it.
12	MR. KELLAHIN: Call at this time Mr. Jerry
13	Anderson. Mr. Anderson is a petroleum landman.
14	EXAMINER MORROW: Okay.
15	JERRY ANDERSON,
16	the witness herein, after having been first duly sworn upon
17	his oath, was examined and testified as follows:
18	DIRECT EXAMINATION
19	BY MR. KELLAHIN:
20	Q. For the record, Mr. Anderson, would you please
21	state your name and occupation?
22	A. I'm Jerry Anderson. I'm a petroleum landman for
23	PG&E Resources.
24	Q. On prior occasions have you testified before the
25	Division, Mr. Anderson?

1 Α. Yes, I have. Pursuant to your employment as a landman for your 2 Q. company, have you made a search or caused to be made a 3 4 search of the offsetting operators within a mile of the boundary of your pool? 5 6 Α. Yes, we have. And based upon that search, have you examined the 7 ο. exhibit attached to my certificate of mailing to satisfy 8 yourself that it is accurate and complete with regards to 9 notification of other interest owners? 10 Yes, I have. 11 Α. And is it so complete? 12 Q. 13 Α. It is complete. MR. KELLAHIN: We tender Mr. Anderson as an 14 15 expert, and his verification of the affidavit, which we submit as Exhibit Number 5, Mr. Examiner. 16 EXAMINER MORROW: We accept Mr. Anderson. 17 MR. KELLAHIN: One item I failed to discuss with 18 Mr. Vaughn, Mr. Examiner, is the discovery allowable. 19 The conventional rule would apply from the 20 surface to the top perforation, and for each foot of that 21 depth times five barrels, and you would get 57,265. 22 And then you divide that by two years or seven --23 24 EXAMINER MORROW: 57,265, divided by 700 and what? 25

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MR. KELLAHIN: 730, would get you 78.4 barrels of 1 oil a day as the bonus discovery allowable. That plus the 2 3 445 allows this well to produce at 523 commencing at the first month following the entry of an order in this case. 4 That's the standard rule out of -- whatever that rule was. 5 EXAMINER MORROW: And you're requesting that? 6 MR. KELLAHIN: Yes, sir, nothing in addition. 7 We're asking for that. 8 EXAMINER MORROW: And I assume Mr. Vaughn would 9 10 testify that that wouldn't hurt the well. MR. KELLAHIN: That is his testimony if he were 11 asked that question. 12 EXAMINER MORROW: Yes, sir. 13 MR. KELLAHIN: That's all we have in this case, 14 Mr. Examiner. 15 Thank you, sir, appreciate it. 16 EXAMINER MORROW: Let's see, we got Exhibit 5, didn't we? 17 MR. KELLAHIN: 18 Yes, sir. EXAMINER MORROW: We'll admit it and take Case 19 11,041 under advisement. 20 21 (Thereupon, these proceedings were concluded at 22 11:34 a.m.) \* \* \* I do hereby certify that the foregoing is 23 a complete record of the pro-1104 the transiner hearing of Cose 24 feard by me Z 25 Off Conservation Division CUMBRE COURT REPORTING (505) 984-2244

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23 CERTIFICATE OF REPORTER 1 2 STATE OF NEW MEXICO 3 ) ) ss. 4 COUNTY OF SANTA FE ) 5 I, Steven T. Brenner, Certified Court Reporter 6 and Notary Public, HEREBY CERTIFY that the foregoing 7 8 transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; 9 and that the foregoing is a true and accurate record of the 10 11 proceedings. I FURTHER CERTIFY that I am not a relative or 12 13 employee of any of the parties or attorneys involved in this matter and that I have no personal interest in the 14 final disposition of this matter. 15 WITNESS MY HAND AND SEAL July 26, 1994. 16 17 - licun 18 STEVEN T. BRENNER CCR No. 7 19 20 My commission expires: October 14, 1994 21 22 23 24 25