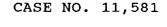
## STATE OF NEW MEXICO

## 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 DEVON ENERGY OPERATING CORPORATION FOR ABOLISHMENT OF THE FREN-SEVEN RIVERS POOL AND EXTENSION OF THE VERTICAL LIMITS OF THE GRAYBURG-JACKSON POOL, EDDY COUNTY, NEW MEXICO



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# REPORTER'S TRANSCRIPT OF PROCEEDINGS

#### EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

July 25th, 1996

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, July 25th, 1996, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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# APPEARANCES

FOR THE DIVISION:

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

FOR THE APPLICANT:

HINKLE, COX, EATON, COFFIELD & HENSLEY 218 Montezuma P.O. Box 2068 Santa Fe, New Mexico 87504-2068 By: JAMES G. BRUCE

FOR BURNETT OIL COMPANY, INC.:

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

FOR WISER OIL COMPANY:

EARL KRIEG 8115 Preston Road, Suite 400 Dallas, Texas 75225

\* \* \*

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

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1	WHEREUPON, the following proceedings were had at
2	12:25 p.m.:
3	EXAMINER CATANACH: At this time we'll call Case
4	11,581.
5	MR. CARROLL: Application of Devon Energy
6	Operating Corporation for abolishment of the Fren-Seven
7	Rivers Pool and extension of the vertical limits of the
8	Grayburg-Jackson Pool, Eddy County, New Mexico.
9	EXAMINER CATANACH: Are there appearances in this
10	case?
11	MR. BRUCE: Mr. Examiner, Jim Bruce representing
12	the Applicant. I have two witnesses again.
13	EXAMINER CATANACH: Additional appearances?
14	MR. CARR: May it please the Examiner, my name is
15	William F. Carr with the Santa Fe law firm Campbell, Carr,
16	Berge and Sheridan. We'd like to enter our appearance in
17	this case for Burnett Oil Company, Inc. I do not have a
18	witness.
19	MR. KRIEG: Mr. Examiner, my name is Earl Krieg
20	with the Wiser Oil Company in Dallas.
21	EXAMINER CATANACH: Mr. Krieg, will you be
22	providing testimony or evidence in this hearing?
23	MR. KRIEG: No, sir.
24	EXAMINER CATANACH: Okay. Will the witnesses
25	please stand to be sworn in?

1	(Thereupon, the witnesses were sworn.)
2	STEVE LAFOLLETTE,
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 and city of
8	residence?
9	A. Steve LaFollette, and I live at Edmond, Oklahoma.
10	Q. Who do you work for and in what capacity?
11	A. Devon Energy Corporation as a district geologist.
12	Q. Have you previously testified before this
13	Division?
14	A. I have not.
15	Q. Would you outline your educational and employment
16	background for the Examiner?
17	A. I have a bachelor's in geology from Cornell, a
18	master's in geology from the University of Tennessee.
19	I've worked as a petroleum geologist for 22 years
20	for Amoco, Tenneco, Grace Petroleum, and the last four
21	years for Devon Energy.
22	I'm currently an expert witness in Oklahoma,
23	Texas and Louisiana.
24	Q. Are you familiar with the geological matters
25	critical to this case?
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1	A. Iam.
2	MR. BRUCE: Mr. Examiner, I tender Mr. LaFollette
3	as an expert petroleum geologist.
4	EXAMINER CATANACH: He is so qualified.
5	Q. (By Mr. Bruce) What is it Devon seeks in this
6	case, Mr. LaFollette?
7	A. Devon seeks to abolish the Fren-Seven Rivers Pool
8	and add that interval to the Grayburg-Jackson Pool.
9	Q. Let's orient everyone again to the area we're
10	talking about, similar to the last case. Would you
11	identify Exhibit 1, please?
12	A. Exhibit 1 is a structure map on top of the Seven
13	Rivers in the subject area. It covers Township 17 South,
14	Ranges 30 and 31 East in Eddy County, New Mexico.
15	It shows a continuous unfaulted horizon dipping
16	to the east and southeast. Mapping depths range from 2300
17	feet above sea level in the west to 1150 feet above sea
18	level on the east.
19	It also shows all currently producing Seven
20	Rivers wells in the Fren Unit, with the red dots.
21	And additionally, it acts as a land plat with the
22	Grayburg-Jackson Pool outlined in green, the Fren Pool
23	the Fren-Seven Rivers Pool outlined in purple. Devon
24	acreage is in yellow.
25	As you can see, the Fren-Seven Rivers Pool is

1	entirely within the Grayburg-Jackson Pool.
2	Q. Does this plat show all of the acreage in the
3	Grayburg-Jackson Pool?
4	A. No, it does not. The Grayburg-Jackson Pool
5	covers a much larger area. It extends from Township 16
6	South, north of the mapped area, Ranges 29, 31 and 32 East,
7	and in Township 17 South, Ranges 29 to 31 East.
8	A listing of this acreage is provided in Exhibit
9	2.
10	Q. Would you identify Exhibits 3 and 4 and describe
11	the formations within the Grayburg-Jackson Pool?
12	A. Exhibits 3 and 4 are the two cross-sections shown
13	on Exhibit 1, an east-west cross-section, A-A', and a
14	north-south cross-section across the subject pools, B-B'.
15	Exhibit 3 is the east-west cross-section. It's
16	larger than some and smaller than others
17	Q. Larger than life.
18	A covering a rather broad area geographically
19	and a rather thick area stratigraphically, so there's not
20	much getting around it.
21	Both of these cross-sections are structural
22	cross-sections. They include the intervals from the top of
23	the Yates formation, which is the unit above the Seven
24	Rivers, the Seven Rivers formation, the Queen formation,
25	the Grayburg formation and the San Andres formation.

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1	All of these units are very continuous across the
2	subject area. They're easily mappable.
3	The Seven Rivers, Queen, Grayburg and San Andres
4	are all oil-productive in the area. They produce from
5	similar rock types. They produce from porous zones,
6	consisting of dolomites and sandy dolomites that are
7	shallow subtidal to supertidal carbonate environments.
8	Both cross-sections exhibit the same
9	characteristics. We're just trying to demonstrate here the
10	continuity of the units within the pools across the
11	geographic limits of the pools.
12	Q. Geologically, there's no reason to differentiate
13	the Seven Rivers formation within the Fren Pool from the
14	Seven Rivers formation within the Grayburg-Jackson Pool?
15	A. There is not.
16	Also shown are the wells in the cross-sections
17	that produce from the Seven Rivers or are immediately
18	adjacent to wells that produce from the Seven Rivers,
19	utilizing the red-colored bar on the depth track on the
20	individual logs.
21	And the pertinent completion and IP information
22	is shown at the bottom of each well.
23	Q. Did Devon notify all operators in the Fren-Seven
24	Rivers Pool and in the Grayburg-Jackson Pool within the
25	area of overlap, as indicated by Division records?

	9
1	A. Yes.
2	Q. And is Exhibit 5 my affidavit of notice to all of
3	those operators?
4	A. It is.
5	Q. Now, did Devon call up any of the operators just
6	to see if they had any objection to the proposal?
7	A. Yes, we did. Our land department has discussed
8	our proposal with all of the major operators in question,
9	including Burnett Oil, Southwest Royalty, Mack Energy,
10	Marbob, Phillips, Wiser, SDX, Westall and Texaco. No one
11	contacted had an objection to our proposal.
12	Q. Were Exhibits 1 through 5 prepared by you, under
13	your direction, or compiled from company records?
14	A. Yes, they were.
15	Q. And in your opinion, is the granting of this
16	Application in the interests of conservation and the
17	prevention of waste?
18	A. Yes, it is.
19	MR. BRUCE: Mr. Examiner, I would move the
20	admission of Exhibits 1 through 5.
21	EXAMINER CATANACH: Exhibits 1 through 5 will be
22	admitted as evidence.
23	Mr. LaFollette, the Oh, I'm sorry. Mr. Carr,
24	any questions?
25	MR. CARR: No questions.

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1	EXAMINER CATANACH: Okay. Mr. Krieg, did you
2	have any questions of the witness?
3	MR. KRIEG: No, sir.
4	EXAMINATION
5	BY EXAMINER CATANACH:
6	Q. Okay, the vertical limits of the Fren-Seven
7	Rivers are only those it only comes as the Seven Rivers
8	formation?
9	A. That's correct.
10	Q. Now, the Grayburg-Jackson goes from the top of
11	the Seven-Rivers to the base of the San Andres?
12	A. Yes, everywhere within its outline except the
13	Fren-Seven Rivers Pool, where the Seven Rivers has been
14	separated.
15	So in the area of overlap, the Grayburg-Jackson
16	includes only the Queen, Grayburg and San Andres.
17	Q. So the Grayburg-Jackson does cover the area
18	that's covered by the Fren-Seven Rivers?
19	A. Entirely.
20	Q. But the vertical limits are reduced from the top
21	of the Queen to the base of the San Andres; is that your
22	understanding?
23	A. Yes.
24	Q. Do you know why that was done?
25	A. Partially. According to the findings of facts in

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1	the order that was issued, that separated it out, it was to
2	maintain historical production statistics.
3	However, that testimony was not in the
4	transcript. They addressed other issues.
5	MR. CARROLL: Where did you learn about
6	testimony, then, if not from the transcript?
7	THE WITNESS: The finding of fact, the
8	MR. CARROLL: The findings of fact?
9	THE WITNESS: cover letter.
10	MR. BRUCE: We have If the Division needs
11	copies of them, I made
12	THE WITNESS: That is Order 5011.
13	EXAMINER CATANACH: I'm sorry?
14	THE WITNESS: That order number was 5011.
15	MR. CARROLL: What year was that? Do you recall?
16	THE WITNESS: Seventy
17	MR. BRUCE: 1975.
18	THE WITNESS: Uh-huh.
19	MR. BRUCE: So what he was saying, Mr. Carroll,
20	is that the rationale given in the order is not reflected
21	in the hearing transcript. If you want a copy of the
22	hearing transcript, we've got a copy and can give it to
23	you.
24	That was under Mr. Carr's reign.
25	Q. (By Examiner Catanach) Is there, in fact,

production from the Grayburg-Jackson pool within the area 1 defined as the Fren-Seven Rivers Pool? 2 There is. 3 Α. The Seven Rivers has always been produced 4 Q. separately in this area? I mean, separate wellbores or --5 MR. BRUCE: Our next witness can address those 6 7 issues. THE WITNESS: I think that's true for the most 8 9 part, yes. 10 ο. (By Examiner Catanach) Do you know if there's 11 any split rights, as far as depths go within the Fren area, or are the lease rights split in any form or fashion from 12 13 the Seven Rivers? They may have been historically. Currently, we 14 Α. 15 don't feel that's the case, at least in the majority of the area. It's not on our acreage, on our leases, and we know 16 17 it's not on the Skelly Unit to the east that Wiser operates. 18 Do you think that by taking this action, that it 19 Q. would maybe stimulate some operators to recomplete some 20 wells that may have not been --21 22 Α. Possibly. As far as you're concerned, it's all -- I mean, 23 Q. this whole area is all one common source of supply; there's 24 25 nothing separating it --

1 Α. That's correct. 2 EXAMINER CATANACH: Okay, that's all I have of 3 the witness. MR. BRUCE: Call Mr. Morrow. 4 Mr. Examiner, could we let the record reflect 5 that Mr. Morrow in a prior case was sworn and qualified as 6 7 an expert reservoir engineer? 8 EXAMINER CATANACH: The record shall so reflect. 9 DICK MORROW, 10 the witness herein, after having been first duly sworn upon his oath, was examined and testified as follows: 11 12 DIRECT EXAMINATION 13 BY MR. BRUCE: 14 0. Mr. Morrow, why is it that Devon wants to abolish the Fren Pool? 15 16 Α. We would like to abolish the Fren Pool and 17 combine it with the Grayburg-Jackson for operational and 18 economic reasons. 19 Okay, let's discuss some of those. Could you Q. 20 refer to your Exhibit 6, and maybe this will answer one of 21 the Examiner's prior questions. What -- This doesn't cover the whole Fren Pool 22 23 area, does it? No, it does not. It covers basically our acreage 24 Α. 25 and the Skelly Unit immediately to the east.

13

1 Q. Okay, and in that area what -- I know there's a 2 lot of symbols on this map, but perhaps you can discuss 3 production from the entire top of the Seven Rivers to the 4 base of the San Andres production from this particular 5 area. 6 Α. Yes, this is a very busy map, and you can 7 probably ignore most of the well symbols except the Seven Rivers wells, which are shown with the red dots. 8 The red 9 numbers, which are beside those wells are the cumulative 10 production, and the contour is a contour map on the 11 cumulative production to date. 12 What I'd like to point out is that the Fren Pool 13 currently only has about 75 active wells, and the average 14 production is less than two barrels a day per well. It's 15 very near its economic limit. It's a very marginal 16 producer right now. Of the 60 or so Seven Rivers wells that Devon had 17 18 on its acreage, we only have four active wells remaining, 19 and those are also producing less than about two barrels a 20 day. We feel the economic potential in the Seven 21 Rivers is waterflooding, and that's what this map is 22 23 intended to point out. If you look on the Devon acreage to 24 the west, most of our wells have cumulative production in 25 the 30,000-to-60,000-barrels-per-well range, with a high of

1	about 75,000. We've produced Seven Rivers on our acreage,
2	strictly on primary production.
3	However, if you look to the east in the Skelly
4	Unit, which has been waterflooded, they have wells that
5	have produced up to 245,000 barrels from the Seven Rivers.
6	So this gives us an incentive to look at
7	waterflooding the Seven Rivers on our acreage. And I've
8	used this data to evaluate the economics of such a
9	proposal, and that is shown on Exhibit Number 7.
10	Exhibit Number 7 is entitled "Economic Evaluation
11	of Seven Rivers Development", and kind of what I've
12	summarized here is the recovery from the Skelly Unit, which
13	has been both primary and secondary, has been 1730
14	barrels per acre, whereas recovery from the Devon
15	properties, which is primary only, has only been a little
16	over 1000 barrels per acre.
17	If you assume that difference is because of the
18	waterflood, we have potential waterflood reserves on our
19	property of 645 barrels per acre, which amounts to 825,000
20	barrels, for about the two sections, 1280 acres, that we
21	could develop.
22	Since most of the Seven Rivers wells in this area
23	have already been abandoned, we are essentially looking at
24	a complete redevelopment of that shallow reservoir, and the
25	capital costs required to do so are listed there. It would

1	cost \$189,000 to drill a new Seven Rivers producer,
2	\$165,000 to drill a new injection well, and \$45,000 to
3	commingle a producer. And what I mean by that is that to
4	open up the Seven Rivers in an existing Grayburg-Jackson
5	well would cost about \$45,000.
6	I've evaluated two cases which I've shown below
7	there. Case 1 is if separate pools are maintained in the
8	Grayburg, Jackson and Seven Rivers in this area, we would
9	have to drill 16 new producing wells and 16 new injection
10	wells for a cost of about \$5.7 million to develop that
11	125,000 barrels of reserves. And the economics shown below
12	there, a 12.5-percent rate of return and a 4.5-year payout,
13	are below accepted industry levels of economic return.
14	However, Case 2, if we're allowed to combine
15	these pools, we would still drill 16 new injection wells
16	for proper injection control, but it would allow us to
17	commingle the Fren-Seven Rivers in 16 of the existing
18	Grayburg-Jackson wells. Our total capital outlay there
19	would be about \$3.4 million, which is a saving of \$2.3
20	million over Case 1. And here the economics for developing
21	that 825,000 barrels would give us about a 36-percent rate
22	of return, which is acceptable for our corporation.
23	So we feel that by allowing us to commingle the
24	Seven Rivers with the existing Grayburg Jackson well, we
25	could economically develop these reserves, whereas if the

1	pools were kept separate it's not a venture we would
2	undertake.
3	Q. On your Exhibit 6 Mr. Morrow, the Skelly Unit
4	waterflood you're talking about there, there was a strictly
5	Seven Rivers waterflood; it was not commingled with
6	Grayburg-Jackson or anything?
7	A. No, it was separate, as required by the separate
8	pools. There was a separate Seven River waterflood and a
9	separate Grayburg-Jackson development. So these numbers on
10	here are strictly Seven Rivers.
11	Q. And over on Devon's acreage, there are a number
12	of existing Grayburg-Jackson wells, in addition to Fren-
13	Seven Rivers wells?
14	A. Oh, yes, throughout this acreage.
15	Q. In your opinion, will the granting of this
16	Application be in the interests of conservation and the
17	prevention of waste?
18	A. Yes, sir.
19	Q. And were Exhibits 6 and 7 prepared by you or
20	under your direction?
21	A. Yes, they were.
22	MR. BRUCE: Mr. Examiner, we move the admission
23	of Exhibits 6 and 7.
24	EXAMINER CATANACH: Exhibits 6 and 7 will be
25	admitted as evidence.

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1EXAMINATION2BY EXAMINER CATANACH:3Q. Mr. Morrow, where is Devon's acreage located?4A. Well, it's outlined with the dark red.5Q. Okay.6A. And this shows basically the southern portion of7our acreage that you've seen on some previous exhibits,8like on Exhibit Number 1. All of our acreage is outlined9in yellow. This is the southern area.10Q. Okay. Within this area that's outlined in red,11that area, has it been waterflooded in the Grayburg-12Jackson?13A. It is in the process of being It was part of14the older waterflood, and we are also doing some infill15drilling and injection conversions in that area also, like16we were doing up in the Keel West area.17MR. BRUCE: Mr. Morrow, the Keel West area you're18talking about immediately abuts the north edge of this
<ul> <li>Q. Mr. Morrow, where is Devon's acreage located?</li> <li>A. Well, it's outlined with the dark red.</li> <li>Q. Okay.</li> <li>A. And this shows basically the southern portion of</li> <li>our acreage that you've seen on some previous exhibits,</li> <li>like on Exhibit Number 1. All of our acreage is outlined</li> <li>in yellow. This is the southern area.</li> <li>Q. Okay. Within this area that's outlined in red,</li> <li>that area, has it been waterflooded in the Grayburg-</li> <li>Jackson?</li> <li>A. It is in the process of being It was part of</li> <li>the older waterflood, and we are also doing some infill</li> <li>drilling and injection conversions in that area also, like</li> <li>we were doing up in the Keel West area.</li> <li>MR. BRUCE: Mr. Morrow, the Keel West area you're</li> <li>talking about immediately abuts the north edge of this</li> </ul>
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<ul> <li>8 like on Exhibit Number 1. All of our acreage is outlined</li> <li>9 in yellow. This is the southern area.</li> <li>10 Q. Okay. Within this area that's outlined in red,</li> <li>11 that area, has it been waterflooded in the Grayburg-</li> <li>12 Jackson?</li> <li>13 A. It is in the process of being It was part of</li> <li>14 the older waterflood, and we are also doing some infill</li> <li>15 drilling and injection conversions in that area also, like</li> <li>16 we were doing up in the Keel West area.</li> <li>17 MR. BRUCE: Mr. Morrow, the Keel West area you're</li> <li>18 talking about immediately abuts the north edge of this</li> </ul>
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19 Exhibit 6; is that right?
20 THE WITNESS: Yes, it's immediately to the north
21 of this exhibit.
22 Q. (By Examiner Catanach) Okay, so this area will
23 be redeveloped for secondary recovery purposes in the
24 Grayburg-Jackson?
25 A. Yes.

1	Q. You're working on that right now?
2	A. Yes, sir.
3	Q. So by combining the pools it will allow you to
4	utilize existing Grayburg-Jackson producing wells to
5	produce from the Seven Rivers?
6	A. Yes.
7	Q. Have most of the Seven Rivers wells been are
8	they P-and-A'd, or what's the status of the wells?
9	A. Yes, most of them have been plugged and
10	abandoned.
11	Q. Now, this is the On Exhibit Number 7, these
12	are the 645 stock tank barrels per acre is the potential
13	in the Seven Rivers only; is that correct?
14	A. Yes.
15	Q. Did you guys talk to the geologist down in
16	Artesia about this proposal at all, do you know?
17	A. I believe we talked with him about combining
18	these pools administratively under his jurisdiction. And I
19	guess we felt it would be quicker and easier doing it this
20	way.
21	Q. Do you know if he expressed any concern about
22	doing this?
23	A. I can't say for sure. I don't believe so.
24	EXAMINER CATANACH: Okay, I'll check with him.
25	That's basically all I have, Mr. Bruce.

MR. BRUCE: I have nothing further. Okay, there being nothing EXAMINER CATANACH: further in this case, Case 11,581 will be taken under advisement. And we'll adjourn the hearing. (Thereupon, these proceedings were concluded at 12:50 p.m.) \* \* \* I do hereby certain that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 150 reard by me on , Examiner хtа Oil 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 July 31st, 1996.

STEVEN T. BRENNER CCR No. 7

My commission expires: October 14, 1998

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