### KELLAHIN AND KELLAHIN

W. THOMAS KELLAHIN\*

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

ATTORNEYS AT LAW EL PATIO BUILDING II7 NORTH GUADALUPE POST OFFICE BOX 2265 SANTA FE, NEW MEXICO 87504-2265

Telephone (505) 982-4285 Telefax (505) 982-2047

July 13, 1994

### HAND DELIVERED

William J. LeMay Oil Conservation Division 310 Old Santa Fe Trail Santa Fe, New Mexico 87504

Re: NMOCD Case 11020 Application of Paloma Resources, Inc. for simultaneous dedication or in the alternative for two non-standard units, Chaves County, New Mexico

Dear Mr. LeMay:

On behalf of Matador Petroleum Corporation, an adversely affecting interest owner, please find enclosed our Entry of Appearance in opposition to the applicant in the referenced case which is now set for an Examiner's hearing on July 21, 1994.

In addition, we are requesting that this case be continued until the hearing scheduled for August 18, 1994.

Very truly yours. W. Thomas Kéllahin

- cc: Matador Petroleum Corporation
- cc: Via facsimile to: Ernest L. Carroll, Esq. Attorney for applicant



## STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF PALOMA RESOURCES, INC. FOR SIMULTANEOUS DEDICATION OR TWO NON-STANDARD GAS PRORATION UNITS, CHAVES COUNTY, NEW MEXICO

CASE NO. 11020

## ENTRY OF APPEARANCE <u>AND</u> REQUEST FOR CONTINUANCE

Comes now MATADOR PETROLEUM CORPORATION, by their attorneys, Kellahin and Kellahin, and enters its appearance in this case as an interested party in opposition to the applicant.

In addition, Matador Petroleum Corporation requests that this case be continued to the Examiner Docket now scheduled for August 18, 1994 in order to be consolidated for hearing with Matador Petroleum Corporation's compulsory pooling application which, if granted, would provide an alternative solution to the issues raised by Paloma Resources, Inc. in Case 11020.

W. Thomas Kelláhin
Kellahin & Kelláhin
P. O. Box 2265
Santa Fe, New Mexico 87504
(505) 982-4285

## CERTIFICATE OF MAILING

I certify that a copy of this pleading was transmitted by	facsimile to
counsel for applicant this 13th day of July, 1994.	
The Market	-
W. Thomas Kellahin	
/	

KELLAHIN AND KELLAHIN

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July 13, 1994

TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047



### HAND DELIVERED

Mr. William J. LeMay Oil Conservation Division 310 Old Santa Fe Trail Santa Fe, New Mexico 87501

Re: REQUEST FOR ISSUANCE OF SUBPOENA NMOCD Case 11020 Application of Paloma Resources, Inc. for simultaneous dedication or two non-standard proration units, Chaves County, New Mexico

Dear Mr. LeMay:

On behalf of Matador Petroleum Corporation, I would appreciate you issuing the enclosed subpoena in which I am seeking data from Paloma Resources Inc. in the referenced matter.

W. Thomas Kellahin

cc: Matador Petroleum Corporation

## STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES BEFORE THE OIL CONSERVATION DIVISION

# IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11020

THE APPLICATION OF PALOMA RESOURCES, INC. FOR SIMULTANEOUS DEDICATION OR FOR TWO NON-STANDARD PRORATION UNITS, CHAVES COUNTY, NEW MEXICO.

### SUBPOENA DUCES TECUM

TO: PALOMA RESOURCES, INC. c/o Ernest L. Carroll, Esq. Losee, Carson, Haas & Carroll
P. O. Box 239 Artesia, New Mexico, 88211-0239

Pursuant to Section 70-2-8, NMSA (1978) and Rule 1211 of the New

Mexico Oil Conservation Division's Rules of Procedure, you are hereby

ORDERED to appear at 8:15 a.m., July 20, 1994, to the offices of the Oil

Conservation Division, State Land Office Building, 310 Old Santa Fe Trail,

Santa Fe, New Mexico 87501 and to produce the documents and items specified in attached Exhibit A and to make available to Matador Petroleum Corporation and their attorney, W. Thomas Kellahin, for copying, all of said documents.

This subpoena is issued on application of Matador Petroleum Corporation through their attorneys, Kellahin & Kellahin, P. O. Box 2265, Santa Fe, New Mexico 87504.

Dated this  $\underline{/4}$  day of July, 1994.

NEW MEXICO OIL CONSERVATION DIVISION BY: WILLIAM J. LEMAY, DIRECTOR

Page 2 of 6

# EXHIBIT "A"

# TO SUBPOENA DUCES TECUM TO PALOMA RESOURCES, INC. IN NEW MEXICO OIL CONSERVATION DIVISION CASE 11020

PURPOSE: The purpose of this subpoena is to provide all of the information necessary for Matador Petroleum Corporation to be able to its opposition to Paloma Resources, Inc. in NMOCD Case 11020

# I. PRODUCE THE FOLLOWING DOCUMENTS:

for EACH AND ALL of the Paloma Resources, Inc. operated wells in Section 29, T15S, R30E, Chaves County, New Mexico:

1. Open-hole Resistivity logs, e.g. Dual Latrologs supplying both a one-inch scale log and five-inch scale log.

2. Open-hole Porosity logs, e.g., Compensated Neutron-Litho-Density supplying both a one-inch scale log and five-inch scale log.

3. Mudlogs

4. All cased hole production logs, including but not limited to caliper logs, spinner surveys, tracer surveys.

5. Fluid data, including recombination analysis or bottom hole analysis

6. Reservoir temperature data

7. PVT data, PVT reports and gas analysis including but not limited to molecular weight and API gravity.

8. Reservoir pressure data including but not limited to bottom-hole surveys or pressures, surface pressure readings, daily tubing pressure and casing pressures, drill stem tests, build-up tests and interference tests, with relevant information as to shut-in time and production rates prior to shut-in.

9. Gas-liquid ratios and tests including a description of any and all test data and zones per well.

10. any core data and analysis including but not limited to conventional or sidewall core data and samples.

11. all production data including, but not limited to all well check records, including gauges/charts for each well on a daily basis from initial testing/completion to date showing actual production of oil, gas and water for each well per day and per month.

12. Chronological reports to include details of:

a. perforating and perforation locations
b. stimulation fluids, volumes, rates,
and pressures for each treated interval
c. Swabbing, flowing and/or pumping results
for each interval that was perforated and tested
including Pre and Post stimulation results as
applicable.

13. If your client has conducted any reservoir simulation which includes either of the subject wells, then provide: model software description, model parameters and assumptions, model variables, model history matching data, model predictions, subsequent modification. 14. Any petroleum engineering data used or to be used by Paloma Resources Inc. to justify its application proposed location including all pressure data, including but not limited to bottom hole pressure surveys, daily tubing pressure and casing pressure surveys, with relevant information as to shutin time and production rate prior to shut-in;

15. Any and all reserve calculations, including but not limited to estimates of ultimate recovery, production decline curves, pressure decline curves, material balance calculations (including reservoir parameters), volumetric calculation (including reservoir parameters);

16. Any and all reservoir studies, including but not limited to drainage calculations, well interference studies, pressure studies or well communication studies;

17. Any geologic data including geologic maps, structure maps, ispoachs, cross-sections, and/or logs being used by Paloma Resources, Inc. to justify its application;

18. Any and all geologic and/or engineering studies and interpretations by which Paloma Resources Inc. justifies and evaluates this application.

## INSTRUCTIONS

This Subpoena Duces Tecum seeks all information available to you or in your possession, custody or control from any source, wherever situated, including but not limited to information from any files, records, computers documents, employees, former employees, consultants, counsel and former counsel. It is directed to each person to whom such information is a matter of personal knowledge.

When used herein, "you" or "your" refers to the person or entity to whom this Subpoena Duces Tecum is addressed to including all of his or its attorneys, officers, agent, consultants, employees, directors, representatives, officials, departments, divisions, subdivisions, subsidiaries, or predecessors.

The term "document" as used herein means every writing and record of every type and description in the possession, custody or control of Paloma Resources, Inc., whether prepared by you or otherwise, which is in your possession or control or known by you to exist, including but not limited to all drafts, papers, books, writings, records, letters, photographs, computer disks, tangible things, correspondence, communications, telegrams, cables, telex messages, memoranda, notes, notations, work papers, transcripts, minutes, reports and recordings of telephone or other conversations or of interviews, conferences, or meetings. It also includes diary entries, affidavits, statements, summaries, opinions, reports, studies, analyses, evaluations, contracts, agreements, jottings, agenda, bulletins, notices, announcements, plans, specifications, sketches, instructions charts, manuals, brochures, publications, schedules, price lists, client lists, journals, statistical records, desk calendars, appointment books, lists, tabulations sound recordings, computer printouts, books of accounts, checks, accounting records, vouchers, and invoices reflecting business operations, financial statements, and any notice or drafts relating to the foregoing, without regard to whether marked confidential or proprietary,. It also includes duplicate copies if the original is unavailable or if the duplicate is different in any way, including marginal notations, from the original.

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	LAW OFFICES	
	LOSEE, CARSON, HAAS & CARROLL, P. A.	
ERNEST L. CARROLI	300 YATES PETROLEUM BUILDING	TELEPHONE
JOEL M. CARSON	P. O. DRAWER 239	(\$05) 746-3505
JAMES E. HAAS	ARTESIA, NEW MEXICO 88211-0230	TELECOPY
A. J. LOŞËE	(	(\$05) 746+8316
MARY LYNN BOGLE	FAX TRANSMITTAL DATE: 6/28	194
PLEASE DEL NAME: FIRM: FAX NO.	IVER THE FOLLOWING PAGE(S) TO: <u>William J. Le Man</u> <u>MMOCD</u> (_) FIRM NO	11020
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NOTE: The information contained in this facsimile message is attorney/client privileged and confidential information intended only for use by the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivery to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is in error. If you have received this facsimile in error, please immediately notify us by collect telephone call and return the original message to us at the above address via the U.S. Postal Service.

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LOSEE, CARSON, HAAS & CARROLL, P. A. 300 YATES PETROLEUM BUILDING P. O. DRAWER 239 ARTESIA, NEW MEXICO 86211-0239

TELEPHONE (305) 746-3505 TELECOPY (305) 746-6316

ERNEST L. CARROLL JOEL M. CARSON DEAN B. CROSS JAMES É. HAAS A. J. LOSEE MARY LYNN BOGLE

June 28, 1994

VIA FACSIMILE AND FIRST CLASS MAIL

Mr. William J. LeMay, Director New Mexico Oil Conservation Division F. O. Box 2088 Santa Fe, New Mexico 87501

11020

Re: In the Matter of the Application of Paloma Resources, Inc., for the Concurrent and Simultaneous Dedication of a Morrow Gas Proration Unit or, in the Alternative, Creation of New Pool, and the Establishment of Non-standard Proration Units, Chaves County, New Mexico

Dear Mr. LeMay:

I am enclosing herewith for filing, Paloma Resources, Inc.'s Application as referenced above, in duplicate. I would ask that this matter be heard on July 21, 1994.

Thank you for your assistance.

Very truly yours,

LOSEE, CARSON, HAAS & CARROLL, P.A.

met 2 Could

Ernest L. Carroll

ELC: kth Encl.

xc w/encl: Mr. Gene Lee

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### BEFORE THE OIL CONSERVATION DIVISION

#### OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF PALOMA RESOURCES, INC. FOR THE CONCURRENT AND SIMULTANEOUS DEDICATION OF A MORROW GAS PRORATION UNIT OR, IN THE ALTERNATIVE, CREATION OF A NEW POOL, AND THE ESTABLISHMENT OF NON-STANDARD PRORATION UNITS, CHAVES COUNTY, NEW MEXICO

CASE NO. 11030

#### APPLICATION

COMES NOW Paloma Resources, Inc., by and through its attorneys, Losee, Carson, Haas & Carroll, P. A. (Ernest L. Carroll), and in support of its application, respectfully states:

1. Applicant is the operator of the 5/2 of Section 29, Township 15 South, Range 30 East, NMPM, Chaves County, New Mexico, upon which it operates two wells, both drilled and completed within the Morrow formation. These two wells are presently located within the boundaries of Little Lucky Lake Pool.

2. The S/2 of Section 29 was originally dedicated as a Morrow gas proration unit for the Peery Federal #3 Well located 2140' from the West line and 1,820' from the South line in Unit K of said Section 29. This well was completed in the interval between 9,962' and 9,977' below the surface of the ground. The Peery Federal #3 Well has been temporarily shut-in and its proration unit temporarily reassigned to the Peery Federal #2 Well, located 660' from the South line and 1,980' from the East line in Unit 0 of said Section 29. The Peery Federal #2 Well is completed in the interval between 9,992' and 10,006'.

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3. Both wells are classified as Morrow producers, but because of extensive faulting are not in communication with each other. Applicant seeks to simultaneously dedicate both the Peery Federal #2 Well and the Peery Federal #3 Well for concurrent production from the S/2 of Section 29 spacing unit as gas producers.

4. Alternatively, Applicant seeks the creation of a new Morrow gas pool covering the SE/4 of Section 29, and for the creation of a non-standard proration unit for said Peery Federal #2 Well for production from that newly-created pool. In the event that a new pool is created, Applicant would further seek the creation of a non-standard proration unit for the SW/4 of Section 29 for production from the Peery Federal #3 Well.

5. The concurrent and simultaneous dedication of the Peery Federal #2 Well and the Peery Federal #3 Well to the S/2 of Section 29 for production from the Little Lucky Lake Morrow gas pool is feasible in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

6. Alternatively, the creation of a new Morrow gas pool covering the SE/4 of Section 29, and the creation of non-standard proration units for both the Peery Federal #3 Well for production from the Little Lucky Lake Morrow gas field and for the Peery Federal #2 Well for production from a new Morrow gas pool in the SE/4 of Section 29 is feasible in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

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WHEREFORE, Applicant requests:

A. That this Application be set for hearing before an Examiner and that notice of said hearing be given as required by law;

B. That upon hearing the Division enter its order granting permission to Applicant to concurrently and simultaneously dedicate the Peery Federal #2 Well and the Peery Federal #3 Well to the S/2 of Section 29 for production of gas from the Morrow formation;

C. Alternatively, that upon hearing the Division enter its order creating a new Morrow gas pool covering the SE/4 of Section 29 and for the creation of a non-standard proration unit for the Peery Federal #3 Well for production from the Little Lucky Lake Pool and for the Peery Federal #2 Well for production from the newly created Morrow gas pool; and

D. For such other and further relief as may be just in the premises.

LOSEE, CARSON, HAAS & CARROLL, P.A.

By: Carroll Ernest

Ernest L. Carroll P. O. Drawer 239 Artesia, New Mexico 88211-0239 (505)746-3505

Attorneys for Applicant

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Lease and Fee Information

CO<sub>2</sub> Wells Not Shown Wildcat Below 5000' or Discovery Abandoned Producer

Location

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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 )
6	DIVISION FOR THE PURPOSE OF )
7	CONSIDERING: ) CASE NO. 11,020 )
8	INC.
9	/
10	CADICINIAT 1 1001
11	UNIUINAL
12	REPORTER'S TRANSCRIPT OF PROCEEDINGS
13	EXAMINER HEARING
14	BEFORE: DAVID R. CATANACH, Hearing Examiner
15	
16	August 18, 1994
17	Santa Fe, New Mexico
18	
19	
20	This matter came on for hearing before the Oil
21	Conservation Division on Thursday, August 18, 1994, at
22	Morgan Hall, State Land Office Building, 310 Old Santa Fe
23	Trail, Santa Fe, New Mexico, before Steven T. Brenner,
24	Certified Court Reporter No. 7 for the State of New Mexico.
25	* * *

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EXHIBITS (Continued) Identified Admitted Exhibit 13 Exhibit 14 Exhibit 15 Exhibit 16 Exhibit 17 Exhibit 18 Exhibit 19 Exhibit 20 Exhibit 21 Exhibit 22 \* \* \* APPEARANCES FOR THE APPLICANT: LOSEE, CARSON, HAAS & CARROLL, P.A. 300 American Home Building Post Office Drawer 239 Artesia, New Mexico 88211-0239 ERNEST L. CARROLL By: \* \* \* 

WHEREUPON, the following proceedings were had at 1 2 4:55 p.m.: EXAMINER CATANACH: At this time we'll call Case 3 11,020, which is the Application of Paloma Resources, Inc., 4 5 for simultaneous dedication of, in the alternative, pool creation, pool contraction and for two nonstandard gas 6 proration units, Chaves County, New Mexico. 7 Are there appearances in this case? 8 MR. CARROLL: Yes, Mr. Examiner, I'm Ernest 9 Carroll of the Artesia law firm of Losee, Carson, Haas and 10 Carroll, and I'm here on behalf of Paloma, the Applicant, 11 12 and I have two witnesses. 13 EXAMINER CATANACH: Okay. Can I get the 14 witnesses to please stand and be sworn in? 15 (Thereupon, the witnesses were sworn.) 16 MR. CARROLL: Call Mr. Gene Lee. 17 GENE LEE, the witness herein, after having been first duly sworn upon 18 19 his oath, was examined and testified as follows: DIRECT EXAMINATION 20 21 BY MR. CARROLL: 22 0. Would you please state your name, address, and occupation for the record? 23 Gene Lee, 1306 Meadow Lane, Roswell. 24 Α. I'm 25 engineer for Paloma Resources.

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1 were other -- other potential in wellbores remaining on the lease and went about to -- pursuing development of these --2 of additional reserves out of this lease that was going to 3 4 be plugged. All right. Now, Exhibit 1 that you've prepared 5 Q. for today actually shows Section 29, which is -- All but 6 7 the 40 acres up in the very northwest of the northwest 8 quarter is what you picked up from Texaco; is that correct? Yes, that's correct, 600 acres, excluding the 9 Α. northwest-northwest of Section 29. 10 11 0. And the Peery Number 3 was the only producing 12 well at the time that you acquired the lease; is that correct? 13 14 Α. That well was not producing at the time we bought 15 it. It was the last producing well on there, and it had 16 loaded up and had some problems which we found out after we 17 purchased it. But it was the last well to produce on that 18 lease. 19 ο. Okay. And that well is located 2140 feet from 20 the west line and 1820 feet from the south line of Section 21 29; is that correct? 22 Α. Yes, that's correct. 23 Now, subsequent to that time, an additional well, ο. the Paloma Number 2, certain work was performed on that 24 25 well; is that correct?

1	A. Yes, the Paloma Number 2 well was the original
2	Morrow discovery for the Little Lucky Lake-Morrow Pool.
3	That zone in the Morrow was perforated and
4	produced for a period of four months, and Texaco abandoned
5	it, moved over and recompleted the Peery Number 3 from the
6	Devonian back to the Morrow on it. And the Number 2 Peery
7	Fed then was in a TA status from there, from that time in
8	1985 when that work was done, until the time at which we
9	had bought it.
10	Q. All right. At the present time, the Of
11	course, the Morrow is a 320-acre proration unit standard
12	A. Yes.
13	Q is it not?
14	A. Yes, it is.
15	Q. And the south half of Section 29 was dedicated to
16	the Paloma 3; is that correct?
17	A. Yes, that's correct.
18	Q. Subsequent to your completion work on the Paloma
19	2, the Peery Number 3 has been temporarily abandoned with
20	permission from the Oil Conservation Division; is that
21	correct?
22	A. That's correct.
23	Q. And the allowable at least temporarily assigned
24	to the Peery Number 2 so that you could test it and
25	determine if it was going to be productive?

	8
1	A. That's correct.
2	Q. Before we go any further into the reasons why and
3	what why you're seeking the simultaneous dedication as
4	one of the alternatives, let's turn to Exhibit Number 2 and
5	take care of the housekeeping matters of notice and what
6	have you with respect to this Application.
7	Exhibit Number 2 is what?
8	A. Exhibit Number 2 is a plat showing the acreage in
9	question covering the entire Little Lucky Lake-Morrow Pool
10	and the offset operators for a mile around it.
11	Q. The heavy dark line is what has been is
12	presently known as the Little Lucky Lake Pool; is that
13	correct?
14	A. That's correct.
15	Q. And in each one of the sections that appear here
16	are the ownership, either the operator or the mineral
17	owners to whom notice was given; is that correct?
18	A. Yes, we sent letters by certified mail to all of
19	these people.
20	Q. Exhibit Number 3 is, in fact, the certificate of
21	compliance with Rule 1207, is it not?
22	A. Yes, this shows
23	Q. And it Excuse me. And it As part of that
24	exhibit, it has an Exhibit A listing all of the persons to
25	whom notification was given, does it not?

1	A. Yes, that's correct.
2	Q. And it also has copies of the letters of notice
3	and the return receipts; is that correct?
4	A. Right.
5	Q. All right. Now, with respect to the list that is
6	shown on Exhibit A to Exhibit Number 3, there are three
7	companies' names who actually do not appear on your plat on
8	Number 2; is that correct?
9	A. Yes. I believe that's Lowbar Petroleum and
10	the
11	Q Read and Stevens and Bass Enterprises?
12	A Read and Stevens and Bass Enterprises.
13	Q. What did you find out after you sent these
14	individuals notices concerning this Application?
15	A. Read and Stevens and Bass Enterprises stated they
16	no longer held any interest in that area. And Lowbar
17	Petroleum, we got the letter returned back undeliverable,
18	and they have since been out of business.
19	Q. All right, and their interest so after Just
20	out of an abundance of caution, you sent notices to
21	everyone, but you've since found that those three people no
22	longer own interest out there
23	A. That's correct.
24	Q within the area that the Rule provides that
25	you must give notice?

1	A. Yes, that's correct.
2	Q. All right. Now, you did With respect to the
3	Application that or the notices that you sent out, you
4	did receive, actually, three waivers with respect to the
5	to this notification that was sent out; is that correct?
6	A. That is correct. The Amoco, the Tech Oilfield
7	Research Corporation and Paul Slayton all sent back waivers
8	of any objection.
9	Q. All right. And that's Exhibit 4?
10	A. Yes, that is.
11	Q. All right. Let's with respect Before we go
12	into Exhibits 5 and 6, just so that the Examiner knows
13	where we're going, is it not your position that due to
14	faulting in the area which your geologist, Mr. Speer,
15	will discuss later on in this case that you actually
16	believe there are two Morrow pools out there, or two Morrow
17	formations that are producing; is that correct?
18	A. Yes, I believe we have a pressure, gas, oil and
19	fluid analysis, as well as a great deal of 3-D seismic work
20	that were performed out there. The pressure, oil and gas
21	analysis shows a drastic difference in composition, and I
22	think backed up by the presence of a major fault in there
23	that Mr. Speer will discuss, shows that the difference
24	between the two wells is such to prove that there are
25	separate reservoirs there.

1 Q. Okay. Well, with that general statement, let's go into Exhibit 5, and for the record, would you identify 2 what it is and then give an explanation of its significance 3 to this case? 4 5 Α. Exhibit Number 5 is a wellbore schematic diagram of the Peery Fed Number 3. It's in Unit K of Section 29, 6 7 15 - 30.It shows the current wellbore configuration, as it currently is. 8 One thing that you might notice is the fact that 9 over a period of time, while this well was producing from 10 11 the Devonian, they had numerous casing leaks and therefore 12 went ahead, upon trying their completion in the Morrow, 13 they ran a string of 2 7/8 tubing to a depth of 10,174 feet 14 and cemented it back completely to the surface. 15 Before they did that, they perforated, per BLM 16 requirements, certain areas behind the 5 1/2 in order to 17 satisfy the BLM's plugging procedures. This did, however, leave some voids behind the 18 19 casing there that, if you did try to do a completion attempt up the hole from the Morrow, that could cause you 20 problems due to no cement behind the pipe. 21 22 0. Now, what is the producing interval in the Number 23 3 well, which is the well that is presently temporarily abandoned? 24 25 Α. That well is producing from the Morrow at a depth

1	of 9962 to 9977, and it was perforated and completed as a
2	natural completion in 1986, September of 1986.
3	Q. All right. Would you turn to your Exhibit Number
4	6, and would you identify it for the record and discuss its
5	significance?
6	A. This also is a wellbore schematic, however it
7	covers the Peery Federal Number 2 wellbore that is
8	currently producing from the Morrow.
9	It shows the well to total depth, casing, and the
10	perfs from the Ellenburger all the way back up to the
11	existing Morrow perfs.
12	Q. All right. What is the depth of the perforations
13	in the Morrow that this well is producing from?
14	A. Currently this well is producing from Morrow
15	Perforations that are at 9992 to 10,006. These were
16	perforated April 23rd, 1994.
17	Q. All right. And that is a different depth than
18	the Number 3 well; is that correct?
19	A. Yes, it is. It is a little deeper than what the
20	Number 3 is perforated.
21	Q. All right. Would you turn to Exhibit Number 7,
22	and would you explain what Exhibit Number 7 is, identify it
23	and then its significance?
24	A. This Exhibit Number 7 is a bottomhole pressure
25	buildup conducted on the Peery Federal Number 3 on April

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1	23rd of 1994 to measure the actual bottomhole pressure
2	remaining in the Peery Fed Number 3.
3	Q. And what was that bottomhole pressure that was
4	remaining back in April of this year?
5	A. That bottomhole pressure was roughly 271 pounds.
6	Q. All right. Now, this is the pressure that was
7	existing in this well at the time it was shut in; is that
8	correct?
9	A. That's correct. This well was shut in on the
10	23rd, and the bombs were placed in it while it was flowing.
11	The well was shut in and left shut in for 85 hours.
12	At the time after we had shut in the Number 3,
13	then we went over and ran bombs in the Peery Number 2 and
14	started doing our four-point completion test on it.
15	Q. All right. Would you turn to Exhibit Number 8
16	and identify it?
17	A. Exhibit Number 8 is the bottomhole pressures, the
18	drawdown and the C-122 for the four-point test on this
19	well.
20	Q. All right. And this was the test that was run,
21	as you just described, right after you ran the one on the
22	Number 3 well; is that correct?
23	A. Yes, that's correct.
24	Q. What was the bottomhole pressure that you found
25	in this Number 2 well?

\_

1	A. Well, it was drastically higher. The initial
2	pressure on this well was 3427 pounds.
3	Q. So that was The 3407 [sic] pounds is compared
4	to 271 pounds; is that correct?
5	A. Yes, that's correct.
6	Q. Now, this 3400-pound pressure from your study, is
7	this anywhere approaching what one would have thought to be
8	what normally virgin pressure in this area?
9	A. This was a virgin pressure in this area for the
10	Morrow at this depth.
11	Q. Would you turn to Exhibit Number 9? What is
12	Exhibit Number 9?
13	A. Exhibit Number 9 is a gas analysis that was run
14	on the Peery Federal Number 3 by Precision Service, an
15	independent testing company, to get a gas analysis on the
16	Peery Fed Number 3.
17	Q. All right. And this exhibit is composed of
18	several pages.
19	Was there also another analysis run
20	A. Yes.
21	Q with respect to the product coming from this
22	Number 3 well?
23	A. The following two pages are an analysis of the
24	liquid content, the condensate breakdown of the liquids
25	from the Peery Number 3.

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1 Q. Now, Exhibit Number 10 is the same kind of Okay. 2 analysis that was run on the Peery State Number 2 well; is 3 that correct? 4 Α. That's correct. It also is a gas analysis and an 5 analysis -- and breakdown of the oil composition as well. 6 Q. Would you tell the Examiner what you found when you compared the two analyses, both with respect to the gas 7 and to the liquids coming from these two wells? 8 9 Α. The -- As evident on the analysis, the Peery Number 2 has a substantially higher BTU content than the 10 11 Number 3. The oil composition also shows a considerable 12 13 amount of heavier components in it as well. And this shows 14 that the gases are very distinctly different. All right. Well, then, Mr. Lee, in your opinion, 15 0. 16 your expert opinion here, you now have shown that there are distinct differences between the Number 2 and the Number 3 17 18 Peery wells with respect to pressure, and you have found 19 distinct differences now in the product, both in the gas 20 analysis and in the liquids analysis. 21 In your opinion, what conclusions can you draw or have you drawn based on this evidence? 22 23 Α. The conclusions I've drawn from this evidence is 24 the fact that we have two separate reservoirs. The 25 products coming from these two wells are distinctly

1	separate, indicating that there are they are distinctly
2	different.
3	Q. Now, you have gone further to analyze both the
4	Number 3 and the Number 2 well as to reserves, have you
5	not?
6	A. Yes, I have.
7	Q. Okay. Exhibit 11, would you identify what that
8	exhibit is for the Examiner?
9	A. Exhibit 11 is a material balance equation for a
10	gas well on the Peery Fed Number 3, and using the P over Z
11	versus cum shows the remaining reserves in the Peery
12	Federal Number 3.
13	Also attached and made a part of that exhibit is,
14	then, an economics run showing what ultimate dollar amount
15	we're looking at as far as these reserves.
16	Q. Your study here then predicts what kind of
17	reserves remaining in the Peery Number 3 well?
18	A. We're These reserves show a remaining amount
19	of gas, approximately a half a BCF left, even at that low a
20	pressure.
21	Q. All right. And with respect to the economics,
22	what does your study that you've attached as part of this
23	Exhibit 11 show? What kind of economic impact would be
24	lost if this well were just permanently plugged and
25	abandoned or walked away from?

1	A. Well, trying to use a conservative figure of \$17
2	condensate and \$1.75 gas off of this well, we're looking at
3	a continued revenue of \$350,000, discounted at 20 percent.
4	Total cash flow, we're looking at in excess of
5	half a million dollars.
6	And total of production taxes to the State of New
7	Mexico in excess of \$69,000.
8	Q. With respect to the Peery Number 2, you've
9	likewise performed the same kind of reserve analysis and
10	economic analysis; is that correct?
11	A. Yes, I did. I obtained another P-over-Z-versus-
12	cum gas plot that I did after we had obtained After we
13	had sold 132,632 MCF and 6260 barrels of oil, we did
14	another bottomhole pressure, which will be one of the
15	following exhibits.
16	Based off of that data, that gave us points to
17	work off of to calculate our remaining reserves in this
18	well also.
19	Q. And what is that?
20	A. We expect this well to produce at 2.07 BCF of
21	gas.
22	Q. And in dollar terms, what kind of reserves are we
23	talking about, money or economics?
24	A. A substantial amount. We're looking at around
25	\$4 million worth of revenue there. \$391,000 worth of

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1	production taxes to the State of New Mexico.
2	And since this is a federal lease, half of the
3	royalties, we're looking at another \$344,000 worth of
4	revenue off of it as well.
5	Q. Mr. Lee, with respect without getting the
6	your Application granted, the only alternative you would
7	have is to leave one of these wells shut in while the other
8	one is producing; is that correct?
9	A. Yes, that's correct.
10	Q. Is that or does that present, in your opinion,
11	a real problem?
12	A. It does.
13	I believe from what we've seen, from the data
14	we've gathered, that there's no way that the Peery Federal
15	Number 2 can drain and produce the remaining reserves that
16	exist under the Peery Federal Number 3, and vice-versa.
17	The Number 3 cannot drain the Number 2, which is really
18	obvious by the pressure data.
19	However, since the Number 3 well is getting
20	fairly low pressure, extended shut-in periods on it while
21	we alternate from one well to the other causes some
22	problems, because every time we have shut it in for a
23	buildup previous to the ones that we've done, then it
24	starts it has trouble coming back on line and
25	maintaining its productivity that it was before it was shut

1	in.
2	Q. Well then, do you believe there's a real
3	probability that you could lose the well and lose some of
4	these reserves which, in gross dollars, let's say in the
5	Number 3, if you left it shut in, of some half million
6	dollars?
7	A. That's correct.
8	Q. Why don't we discuss now Exhibit Number 13? What
9	is that?
10	A. Exhibit Number 13 is the bottomhole pressure that
11	I was referring to after producing this well for 132,632
12	MCF and 6260 barrels of condensate.
13	This bottomhole pressure was obtained after
14	producing that volume, strictly for the purpose of getting
15	the bottomhole pressure to be able to calculate an accurate
16	P-over-Z-versus-cum plot and using material balance to get
17	accurate reserves.
18	Q. At the present time, the Number 3 well has been
19	shut in since April; is that correct?
20	A. The Number 3 has been shut in since April 23rd
21	when we turned on the Number 2.
22	Q. And in your mind, is there some risk at this
23	point in time that you could have damaged the Number 3
24	well?
25	A. It's a very distinct possibility.

1 Like I say, you know, with the bottomhole 2 pressure as low as it is, it's not going to take a whole lot to damage it. 3 And with that kind of pressure, any kind of skin 4 damage whatsoever is going to be hard to remove, just due 5 to the fact that there's not enough bottomhole pressure to 6 7 bring back any stimulation that you really try to do on it, 8 even if you use nitrogen or  $CO_2$  to energize your fluid. Q. In your mind then, is that good reason to 9 10 expedite doing whatever is going to be done with respect to 11 this problem? 12 Α. Yes, it is. We're talking around half a million 13 dollars. That's substantial. 14 0. You have presented an Application that asks, in 15 the alternative, either the simultaneous dedication of 16 these two wells to this single proration unit to allow 17 production or, in fact, a recreation of a new pool and withdrawing the southeast quarter of the southwest quarter, 18 19 and creating a separate pool -- or excuse me, the southeast 20 quarter, and creating a 160 proration and a nonstandard proration unit. 21 22 I think that Mr. Catanach would like to have your opinion as to which of the alternatives you would prefer to 23 have and why, since you have at least proposed it as an 24 25 alternative Application.

1 Α. I feel like producing both of these wells simultaneous and concurrent, number one, would be 2 justifiable due to the fact that we are showing that due to 3 the composition of the gas and oil and pressure 4 differential, that there is two separate Morrow zones that 5 are not in communication. 6 This would allow each well to drain this 7 8 individual quarter section that it is in, because they are not in communication and cannot drain one well to the other 9 in the south half. 10 With respect to the traditional issues that are 11 ο. always -- must be viewed by the Division, that is, the 12 prevention of waste and the protection of correlative 13 rights, do you feel granting of the Application -- in 14 particular, the preferred method, the simultaneous 15 dedication -- would that in fact prevent waste and protect 16 correlative rights? 17 18 Α. It certainly would. I believe that would be the best alternative. 19 MR. CARROLL: Mr. Examiner, I would move 20 21 admission of Exhibits 1 through 13 at this time. 22 EXAMINER CATANACH: Exhibits 1 through 13 will be 23 admitted as evidence. MR. CARROLL: And I would have no further 24 questions of this witness. 25

	22
1	EXAMINATION
2	BY EXAMINER CATANACH:
3	Q. Mr. Lee, take me back to the history of what
4	transpired. You bought these You bought this lease from
5	Texaco when?
6	A. This lease was purchased from Texaco. The
7	effective date of it was 4-1 of 1992.
8	At the time when we bought it, there was no
9	production coming from the lease.
10	After we purchased it, we babysat that Number 3,
11	we went out there basically and dropped three soap sticks
12	in it and made some swab runs and found that it was loaded
13	up and kicked it off. And we put it back on line at a
14	million a day.
15	After that, we re-entered the Number 2 and took
16	it on down back to the Devonian and re-established Devonian
17	production out of it.
18	After that, we re-entered the Peery Number 1
19	Q. Hang on a second, hang on a second.
20	A and went from that point.
21	So we re-entered
22	Q re-entered the Number 2 and you re-established
23	Devonian production?
24	A. That's correct.
25	Q. That was all That all took place in April of

1 1992, or --2 Α. The Morrow -- The Number 2 Devonian was 3 re-established in 1993, first part of 1993. Q. 4 Okay. 5 And we were producing it from the Devonian until Α. such time as it -- the price of oil went down, and it was 6 7 beginning to become uneconomical to haul water in at the 8 rate of the oil it was producing. 9 At that time we decided to go ahead and come back 10 up to the Morrow in it. 11 0. When was this? 12 Α. This was April of 1994. 13 Q. Okay, so that's when you came back up and recompleted the Number 2 --14 15 Α. Yes, that's correct. 16 Q. -- to the Morrow? 17 Α. From the Devonian. 18 0. From the Devonian. Did you establish production in the Number 2? 19 20 Α. We established Devonian production in 1993 in the 21 Number 2. And then after a year we've -- it became 22 uneconomical, so we plugged back April of this year to the 23 Morrow in the Number 2. 24 Ο. All right. Had the Number 2 ever been produced in the Morrow? 25

23

1	A. Yes, the Number 2 was perforated in the top par	t
2	of the Morrow, which Mr. Speer will discuss. And they	
3	produced it for four months and made a total of a hundred	i
4	and I think it's on here somewhere 155,000 MCF out	of
5	it before it was abandoned.	
6	Q. The Number 3 had always been a Morrow producer	)
7	A. The Number 3 was originally a Devonian well al	so.
8	Q. Okay.	
9	A. But when we obtained it, it had already been	
10	moved back to the Morrow.	
11	Q. Okay, I think I'm with you.	
12	So the Number 2 was recompleted to the Morrow,	
13	and you've been producing that since April?	
14	A. Yes, that's correct.	
15	Q. Number 3 is currently being It's currently	
16	shut in?	
17	A. Currently shut in, pending approval from the	
18	Commission on what we can do with it.	
19	Q. Got you, okay.	
20	What other production in this pool is there	
21	currently?	
22	A. In this pool there is currently one other	
23	There are two other wells that are perforated in this poo	)l
24	in Section 30.	
25	McClellan's in Section 30 had the Number 1 Big	

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1	Lucky Lake well, and they recently shut it in and
2	recompleted an old Devonian test in the northeast of the
3	southeast and established Morrow production out of it, and
4	it's currently producing at 570 MCF per day.
5	Q. So there's one well in the southeast quarter of
6	Section 30 that's currently producing?
7	A. Right.
8	Q. Is that it?
9	A. Yes.
10	Q. Okay, let's see here. Now, it's your opinion
11	that the Number 2 and the Number 3 are producing from two
12	different zones in the Morrow?
13	A. I feel that they're in separate zones in the
14	Morrow. They may be separate sands, I'm not sure. Mr.
15	Speer will address that more in detail.
16	But due to the amount of gas that the Number 3
17	has produced The Number 3 has produced in excess of 3
18	BCF, and quite frankly, I was really surprised to find
19	virgin pressure in the Number 2. And that indicates to me
20	that without a doubt they are producing from two separate
21	zones from the Morrow.
22	Q. Is that gas analysis from the two different wells
23	does that vary enough, to you, to indicate that that's
24	not coming from the same pool?
25	A. Yes, it does, because I contacted McClellan's by

1	telephone to ask them what they what kind of BTU content
2	that they had out of their well in Section 30.
3	And out of both of those wells in Section 30,
4	both them The Big Lucky Lake Number 1 was the original
5	one to produce out of the Morrow. It made over a BCF when
6	they shut it in to produce their second well in there, and
7	both those were in the 1240- to 1270-BTU range, both wells
8	were.
9	And then on our Peery Number 2, we see a
10	tremendous increase in the BTU of the gas on it. From 1287
11	to 1617 is a That's way heavy. That is heavier than a
12	lot of casinghead gas.
13	EXAMINER CATANACH: Okay, let's hear the
14	geologist and see what he has to say.
15	I've got no further questions.
16	STEVEN W. SPEER,
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. CARROLL:
21	Q. Would you please state your name, address and
22	occupation?
23	A. My name is Steven W. Speer. I live in Roswell,
24	New Mexico. I'm a consultant geologist for Paloma
25	Resources.

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1	Q. Mr. Speer, have you had an occasion to previously
2	testify before the Oil Conservation Division and have your
3	credentials accepted as a petroleum geologist?
4	A. Yes, I have.
5	Q. Have you Are you familiar with the Application
6	of Paloma Resources that is currently pending before this
7	Examiner, and have actually performed studies with respect
8	to that Application and prepared exhibits?
9	A. Yes, sir.
10	MR. CARROLL: Are Mr. Speer's credentials
11	acceptable?
12	EXAMINER CATANACH: Yes, sir, they are.
13	Q. (By Mr. Carroll) Let's turn to Exhibit Number
14	14, Mr. Speer, and could you identify what that exhibit is,
15	basically?
16	A. Okay, that's an exhibit summarizing pertinent
17	reservoir data for both the Peery Number 2 and the Number
18	3.
19	I built this just to show on one sheet of paper
20	the major differences that we see in the fluid contents and
21	pressure data on the two wells, noting the number as well
22	as show their spatial relationship there.
23	And the three geologic studies have shown that
24	they're producing out of two separate sands,
25	stratigraphically separated sands, the "A" sand being the

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1	upper sand, the "B" sand being the lower sand.
2	Bottomhole pressure tests taken on approximately
3	the same date: 271 pounds in the Number 3, 3427 in the
4	Number 2.
5	Gas analysis is vastly different: 1284 BTU on the
6	Number 3, 1613 on the Number 2.
7	And on a chromatograph breakdown you'll note that
8	a real telling point on the chromatograph breakdown is the
9	methane content in the Number 3 is approximately 74.5
10	percent methane, as opposed to 55.3 percent in the Number
11	2. Correspondingly, to the BTU content, there's
12	significantly heavier content in the gas in the Number 2.
13	So basically again, this is just a summary
14	showing that these If you just look at the fluids
15	produced out of these two wells, you'd almost have to say
16	there's no communication at all between that, just looking
17	at what comes out of the ground.
18	Q. With respect to Exhibit 14, I notice that some of
19	the wells are open circles, and some of them are solidly
20	blacked in. Is that What is the significance of that?
21	A. Well, I guess you've got to go back to the
22	history of this field.
23	The history of this field, it was a deep Devonian
24	play developed by Texaco back in the late Fifties. And
25	these all these wells I guess a person could probably

go back and get this best, if we want to talk the history 1 of this thing, looking at Exhibit Number 1 with the well 2 3 names, showing the cross-section. This was initially a Devonian play kicked off in 4 the late Fifties. All the wells that have names attached 5 to these, attached to them, were deep tests. With the 6 7 exception of probably the Big Lucky Lake Number 1, these were all taken in the Devonian. 8 9 And initially the drilling was started by Texaco there in 29. All the wells in Section 29 were Devonian 10 11 tests, like I said, drilled in the late Fifties, and that 12 was the emphasis of the play and the drilling activity out 13 there. All the wells that are shown there are -- that 14 15 have names attached, are drilled at least to the base of 16 the Pennsylvanian. And like I said, the majority are 17 Devonian and deeper tests, the Ellenburger tests. 18 The wells that don't have any name out here on 19 the periphery are all Permian tests and really have no 20 bearing on this. 21 So --22 ο. There is a --23 Α. -- the ones with the black circles are oil wells, 24 and --25 Q. Okay. Now, later on you will present a cross-

section, and that is what the dotted line on Exhibit Number 1 1 shows? 2 Yes, that is -- will be our -- I'm not sure what 3 Α. 4 the number is on our exhibit. I believe it's our last exhibit. 5 All right, would you turn to Exhibit Number 0. Yes. 6 7 15 and describe for the record what it is and then give its significance, if you would? 8 Α. Okay, Exhibit 15 is a production history for all 9 the wells that have produced in the Little Lucky Lake-10 11 Morrow reservoir. And the stratigraphic studies, I've broken them 12 out based on the -- Like I mentioned before, there are two 13 14 primary sands that produce in this reservoir, the "A" sand being an upper sand, the "B" being the lower. And what 15 I've done is shown cumulative production from each sand --16 17 each well, showing production from which sand it was. On the left side, the last production data we 18 have available from the state is 12-93 production, and 19 20 that's in a daily rate. Oil on the top, gas daily rates in 21 the middle, and on the right we have cumulative production 22 in barrels of oil and millions of cubic feet of gas in the 23 middle. The top date is the date of initial production, the bottom date is date of abandonment if the well was 24 25 abandoned.

As you can see, primarily on the west side of the 1 field they're all "A" sand producers. And the only sands 2 that we have producing out of the "B" sand are the two 3 wells in the west half of Section -- or the east half of 4 5 Section 29, with the Number 2 Peery having been the only well that has produced out of both sands. 6 Have you found in your geological study some 7 0. 8 reason why the wells on the west side produce from the "A" 9 and the wells on the west [sic] side produce from the "B"? Some evidence geologically that's --10 Oh, I think there's some generalizations that you 11 Α. might draw. I think as a geologist or an engineer, you 12 have to draw some kind of conclusion. 13 The "A" sands, what I've found is, they're a sand 14 pretty much well-developed in this area. The "A" sand 15 seems to be better developed towards the west. In fact, 16 both sands are -- Your net isopachs of both sands are 17 pretty high on the west side. And I think that relates 18 to -- The pre-existing Devonian structure somewhat 19 controlled the sand development around this. 20 21 But the productive characteristics of these sands 22 doesn't necessarily go with the isopach. I can get to that 23 a little bit later. Okay. Well, then, let's turn to Exhibit Number 24 Q. Could you describe what that exhibit is for the record 25 16.

1 and then discuss its significance?

A. Okay, this pretty much is a very critical map
giving geologic reasoning why we believe that these
reservoirs, regardless of whether you're in the same
reservoir stratigraphic interval, are separated in an eastto-west relationship.

This is a Morrow structure map drawn on the top of the Morrow, the top of the lower Morrow, which is the clastic interval that these sands reside in.

This is a very complex structural area where we have a significant vertical to even reverse faulting separating the east and west half of this section. And as you'll remember, our proration unit is a laydown 320, as shown on Exhibit Number 1. So there is a distinct separation and, in fact, discontinuity of the rocks in an east-to-west relationship in this area.

Note that the Number 2 Peery lies in a small
horst block, upthrown horst block, to the east of the main
vertical fault with quite a significant amount of throw
across it, with the Peery Number 3 being on the west side
of that fault, on the downthrown side of that fault.

And we feel that this is probably the primary reason you're never going to be able to drain reserves from the west half of this proration unit with a well on the east half of it and vice-versa, that even if you are in the

same reservoir interval, stratigraphic interval, there's no 1 continuity between those two because of this. 2 3 And this isn't just a subsurface map drawn with geological license; it's based on a 3-D seismic survey 4 which Paloma has access to -- in fact, I believe Paloma has 5 ownership of -- which covers the entire section. And it's 6 7 3-D surveys on a -- We have a data point every 110 foot, so I mean, it's basically a blanket of seismic data. The data 8 9 is very good and shows without a doubt the presence of this fault system. 10 And there's been several different people mapped 11 this data, and this fault system shows up on everyone's map 12 that I've seen. And I've seen two different versions and 13 14 generated one myself, and without a doubt -- These are 15 here, and we have a couple of exhibits that should show that very clearly. 16 So again, what I stress is this north-south fault 17 system, primarily that the major north-south high-angle or 18 reverse fault creates no continuity across that proration 19 20 unit. 21 The seismic lines that you were talking about are Q. the following two exhibits, Exhibits 17 and 18, are they 22 not? 23 24 Α. Yes. 25 And they are colored in and show the faulting Q.

1 that you have just spoken about; is that correct? 2 Α. This is correct, and what we have is a unit --Exhibit 17 is arbitrary line number 1, which goes through 3 pretty much the south half of Section 29 diagonally, 4 northeast to southwest. 5 These have been colored. 6 This is one 7 interpretation. Most interpretations will be very similar. I've seen two separate interpretations, and they're very 8 similar. 9 As you can see, this line goes through the Peery 10 11 Number 2, designated the TXC2PRY on the seismic line, and 12 also through the Shell LLA Number 1 down in Section 32. As you can see, the Peery Number 2 is in an 13 14 upthrown horst block, which there could be no doubt that 15 you're in an upthrown horst block. And the interpretation, 16 again, has been confirmed by several different 17 geophysicists. The Shell LLA Number 1, obviously on the west 18 side of that major fault, significantly downthrown. 19 Q. Now, in your study you have confirmed that the 20 Peery Number 3 from the upper or the "A" sand produced 21 22 significant reserves, did it not? 23 Yes, it did, it produced over 3 BCF. Α. And the Number 2 well was actually opened up 24 Q. originally in that same sand but did not produce but very 25

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1	little, and after four months was shut in; is that correct?
2	A. That's correct.
3	Q. Does that give you further support for your
4	argument that we've got two separate zones here?
5	A. Oh, yeah. Yes, I do. If you look at Well, I
6	think I can explain that or talk about that a little
7	better
8	Q. Please do.
9	A with some later exhibits, maybe
10	Q. Okay.
11	A elaborate better.
12	Q. All right.
13	A. Let me just go to this Number 18, arbitrary line
14	2 through the north half of the section. It shows
15	basically the same setting and upthrown or the horst
16	block, with the major fault being down to the west.
17	And thereby I don't think there's any doubt that
18	we have a major discontinuity east to west across the
19	entire section.
20	Q. All right. If you'd turn, then, to Exhibit 19
21	and explain what it is and what you're trying to
22	A. Exhibit 19 is the same as Exhibit 18 sands. It's
23	a clean section without the two arbitrary side lines drawn
24	on it.
25	It's basically, again, a Morrow structure

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1 honoring subsurface data but also drawn utilizing seismic interpretation. 2 3 Q. All right. Exhibit 20, then, would you identify it and discuss its significance? 4 5 Α. Exhibit 20 is a sand isolith map of the "A" sand, the upper sand, showing net feet of sand. Net feet of sand 6 was delineated basically using all available electric log 7 8 data. The original wells were again drilled -- the 9 majority of these were drilled in the late Fifties, early 10 Sixties. Consequently, the only electrical logs available 11 12 are electric logs, gamma-ray/neutrons, and we don't have any very -- any high-quality porosity logs across this. 13 So I utilized all curves to come up with the best 14 estimate of what we believe net sand is. Net sand is not 15 16 necessarily, therefore, determined as productive sand. It's basically the presence of a sandbody and not 17 necessarily productive sand. But I think it shows well at 18 least the location of these sands and the continuity of 19 these sands in the Little Lucky Lake-Morrow reservoir. 20 The "A" sand is the sand that has produced the 21 22 majority of the gas in the reservoir. Each well that has produced out of the "A" sand, you'll note, is circled with 23 a large circle. And as you'll see, the "A" sand producers 24 25 are predominantly on the west side of the field, and with

1	thickness ranging from 4 productive feet up to 19
2	productive feet in the Number 3.
3	Again, the Number 3 has produced the most amount
4	of gas in the field, over 3 BCF of gas, 90-plus-thousand
5	barrels of condensate.
6	The Little Lucky Lake Number 1 is the next, has
7	produced over 1.2 BCF. It's only got 4 net feet of sand in
8	it. There's not necessarily a linear relationship between
9	the reserves we find in these and the thickness of the
10	sand.
11	Again, we look at the Peery Number 2, it had 10
12	foot of sand, yet it only produced 155 million cubic feet.
13	As we've seen, I think Gene has proven beyond a
14	doubt these wells can be re-entered oftentimes and
15	production re-established, when there may have been,
16	actually, some mechanical problems limiting the production
17	that we've seen in some of these wells that is not
18	necessarily geological in nature. So it remains to be seen
19	if 155 million is all we can get out of that in that
20	well.
21	But that's Those are the facts thus far.
22	Q. Okay. What about Exhibit 21? Could you identify
23	it?
24	A. 21 is, again, a net isolith of the "B" sand, the
25	lower sand. It only has produced in the Peery Number 4

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. . . . .

1	well in the northeast-northeast of 29 and is now producing
2	in the Peery Number 2, the recent recompletion by Paloma.
3	Again, we're looking at sand which is fairly
4	contiguous across this reservoir, has only been established
5	production in two wells in there, one that has 10 feet in
6	that sand, another that has 5.
7	If we look back at our production map, in the
8	Peery Number 4 well we produced roughly 68 million cubic
9	feet before the well was abandoned. It produced for
10	roughly 1 3/4 years before being abandoned.
11	And the only other completion is the recent
12	recompletion by Paloma in the Peery Number 2, in the
13	southwest-southeast of 29.
14	But as you can see, there's significant sand all
15	the way across here. It is generated on all logs, looks
16	like a very tight sand, very low porosity, as far as we can
17	tell with the tools we had. Best estimates, our average
18	porosity all the way across this sand is only probably two
19	to four percent porosity and in fact has not been tested in
20	many of these wells, even though there's a net amount that
21	would indicate it might be productive.
22	Q. Your last exhibit, Exhibit 22, the cross-section,
23	could you describe it and its significance to the
24	Application that you've made?
25	A. This is the cross-section shown on Exhibit Number

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1	1, shows the location. Basically took in every significant
2	well that's in this reservoir or even close to it, going
3	from the southwest to the northeast through the field.
4	I think what's significant is that needs to be
5	shown, is the "A" sand and the "B" sand. They are
6	separated by 30 to 50 feet of the shale interval. They're
7	distinctive, and they seem to exist all the way across the
8	field to various degrees, even where there's zero net feet,
9	based on my calculations, there is indication that you can
10	see that the interval exists, it just it does not exist
11	as a sand.
12	So they are distinct and separate reservoirs, all
13	the way across this field, and they are not difficult to
14	correlate. They lie in approximately the same
15	stratigraphic interval, and if This is a structural
16	cross-section. If I was to make this as a stratigraphic
17	cross-section, it would be clearer to even to see the
18	continuity of the reservoirs across there.
19	Note when we get to the Peery Number 2 in the
20	middle, we cross those faults and we have a very
21	significant throw across that thing.
22	I do want to point out an error on my part as I
23	drew this, which could lead to confusion here. I can't
24	believe I did this, but the Peery Number 3, as I was
25	drawing this schematically, I just noted that I have the

1	Number 3 sand tied up with the producing "B" sand in the
2	Number 2. That, I think we have proven, is not the case.
3	Again, with the fluid and pressure data and I
4	really regret that error because that could lead someone
5	that looks at this cross-section to show that they are
6	connected, and that's exactly what we don't want to show.
7	But I think we've shown without a doubt that
8	there is no communication between those two sands, and in
9	fact, they are distinct and separate sands that are
10	distinct and separate, even more so by the major fault
11	system running north-south through the section.
12	Q. Well, Mr. Speer, do you have an opinion as to
13	whether or not Apparently this demarcation of zones is
14	very close to the quarter section line which demarks
15	southwest from southeast.
16	Do you feel that a well that was located anywhere
17	in the southwest could, based on your geological study,
18	drain the reserves in the southeast?
19	A. It really does not appear that there's a way it
20	could do it. This With the seismic control we have and
21	the amount of throw that we see and every as mapped
22	across this fault system, that there just is very low
23	probability there's any communication between these
24	between those two quarter sections in any of these sands.
25	Q. And we've already seen that you can't drain the

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same zone that's found in the Number 3 from the Peery 1 Number 2 --2 3 Α. Well, that's right. -- because they tried it? 4 0. 5 Α. That's right. You look at the reserves coming 6 out of the Number 3 Peery with the net sand thickness and 7 water saturations, initial saturations that we looked at, we're looking at a potential drainage area of over 200 8 9 acres. 10 If that was the case, you definitely would have 11 seen interference with the Number 2 when it was perforated, and yet virgin reservoir was found in the Number 2. 12 There's no communication between these two 13 14 intervals that are producing. And in fact, if -- I don't believe there's communication if you were in the same sand, 15 stratigraphic interval. 16 17 Then based on your geological study, could you Q. sum up what your feeling is for this Examiner with respect 18 19 to the ability -- or whether or not this is in fact one 20 zone or two zones? 21 Α. First, what I found from geologic study is, there 22 are two separate producing sands. These two wells of 23 interest are producing from separate sands. Moreover, the sands are not contiguous across the 24 25 section in an east-to-west relationship, due to the major

1 faulting we see going north-south that basically bisects the section. So were it to us that they were the same 2 sands, it was the same reservoir sand, it would still not 3 4 be the same reservoir, due to the throw and offset across this major fault system. 5 Then, Mr. Speer, do you have an opinion as to 6 0. 7 whether or not this Application should be granted, considering the traditional parameters that the Division 8 9 must be concerned with, and that is the prevention of waste and the protection of correlative rights? 10 11 Α. I think certainly the wells need to be produced 12 on both sides of this fault system, from one or both of the sands, to effectively drain gas from underneath the south 13 14 half of the section. Both wells need to be produced on 15 both quarter sections. 16 0. You heard Mr. Lee express his preference to the simultaneous dedication of these wells. 17 18 Would you agree that that would be a proper 19 alternative for the Commission to adopt, being guided by 20 the traditional notions of prevention of waste and protection of correlative rights? 21 Yes, I agree with Mr. Lee that based on the 271-22 Α. 23 pound bottomhole pressure we see in the Number 3, you're flirting with danger by shutting that well off and leaving 24 it shut in for any length of time, as to being able to 25

regain the kind of production that we had. 1 If you'll note on the production map that we 2 made, Exhibit Number 15, in December that well was making 3 4 587 MCF a day. That's a significant amount of production 5 at the kind of bottomhole pressure that well has, and to shut that well in and have it not come back is a 6 7 significant waste of a valuable resource. MR. CARROLL: Mr. Examiner, I would move 8 admission of Exhibits 14 through 22. 9 10 EXAMINER CATANACH: Exhibits 14 through 22 will 11 be admitted as evidence. 12 MR. CARROLL: And I have no further questions of this witness at this time. 13 EXAMINATION 14 15 BY EXAMINER CATANACH: 16 Q. Mr. Speer, just a couple. 17 Α. Okay. 18 Do you believe that there is potential for "B" Q. 19 sand production in the Number 3 well? 20 Α. There could be. It has never been tested. It is 21 -- I stress again, if you look at the cross-section, these 22 are primarily gamma-ray neutron logs. You can note that 23 the neutron porosity reading is basically zero. But also 24 look at the Number 2, and it's basically zero. It's very 25 low as compared to what we see in the number -- in the "A"

1 sand.

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2	The well was perforated because a microlog
3	separation was noted in the Number 2. Microlog separation
4	is not noted in the Number 3, but based on 2.2 BCF of gas
5	out of something that looks like it has no porosity, I
6	think a completion attempt may be needed in the Number 3 if
7	the operator so desires. It might be something to try.
8	But it looks low probability, just based on what
9	we see with the logs.
10	Q. Do you believe there's "A" sand potential in the
11	Number 2?
12	A. It has produced out of the "A" sand, 155 million.
13	Again, the well was abandoned by Texaco. They
14	have proven they abandoned wells that were capable of
15	production before in that section, so anything is possible
16	out there.
17	Again, let me just add state, as far as your
18	first question, for the "B" sand in the Number 3, I think
19	one thing one of the reasons the "B" sand in the Number
20	2 may produce so well is because it's in a very
21	tectonically stressed area.
22	And note we have very low porosity. I believe
23	one of the reasons the 2 maybe produced so well is very
24	good fracture porosity has probably developed, just due to
25	the placement of where it lies within that fault system. I

1	think it's been we have enhanced porosity due to
2	fracturing in there, would be my guess as why that well is
3	so productive.
4	And the 3 does not lie in quite an optimum
5	setting for fracturing, so it may or may not. It's a
6	gamble.
7	EXAMINER CATANACH: Uh-huh. I don't think I have
8	anything else.
9	MR. CARROLL: Let me just for clarification ask
10	one other question.
11	
12	FURTHER EXAMINATION
13	BY MR. CARROLL:
14	Q. Mr. Speer, let's suppose that you were physically
15	capable of going in and recompleting the Number 3 well in
16	the deeper or the lower "B" sand.
17	Because of the geologic makeup out there, do you
18	think you could drain the reserves in the southeast quarter
19	by a completion in the southwest quarter?
20	A. No, I think that all the data which is very
21	good data the seismic data primarily shows us that you
22	cannot drain anything in the southwest by a well in the
23	southeast, and vice versa, regardless of whether you're in
24	the same sand or not
25	Q. Okay.

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1	A that that fault system is a very effective
2	separator of the two reservoirs. Or basically, I think we
3	should call it four reservoir potentials: "A" sand west,
4	"B" sand west, "A" sand east, "B" sand east.
5	MR. CARROLL: That's all I wanted to cover.
6	EXAMINER CATANACH: All right. Anything further,
7	Mr. Carroll?
8	MR. CARROLL: No, sir.
9	(Off the record)
10	EXAMINER CATANACH: Okay, there being nothing
11	further, Case 11,020 will be taken under advisement, and
12	we'll adjourn this hearing.
13	(Thereupon, these proceedings were concluded at
14	6:01 p.m.)
15	* * *
16	
17	I do horoby cortify that the foregroups in
18	a complete contract on the proceedings in
19	heard by me on August 18 1928.
20	aud R latal, Examiner
21	Oil Conservation Division
22	
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24	
25	

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