| STATE OF NEW MEXICO  |                  |
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| ENERGY, MINERALS AND NATURAL RESOURCE  | S DEPARTMENT     |
| OIL CONSERVATION DIVISION  | EIVE             |
| IN THE MATTER OF THE HEARING CALLED BY )   | ана<br>Въз       |
| THE OIL CONSERVATION DIVISION FOR THE )<br>PURPOSE OF CONSIDERING: )   |                  |
| APPLICATION OF RICHARDSON OPERATING )<br>COMPANY FOR COMPULSORY POOLING AND AN )<br>UNORTHODOX WELL LOCATION, SAN JUAN )<br>COUNTY, NEW MEXICO ) | CASE NOS. 11,569 |
| APPLICATION OF RICHARDSON OPERATING )<br>COMPANY FOR COMPULSORY POOLING, DOWNHOLE )  | and 11,570       |
| COMMINGLING AND AN UNORTHODOX GAS WELL )<br>LOCATION, SAN JUAN COUNTY, NEW MEXICO )  | (Consolidated)   |

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### REPORTER'S TRANSCRIPT OF PROCEEDINGS

#### EXAMINER HEARING

BEFORE: MICHAEL E. STOGNER, Hearing Examiner

July 11th, 1996

Santa Fe, New Mexico

This matter came on for hearing before the New

Mexico Oil Conservation Division, MICHAEL E. STOGNER, Hearing Examiner, on Thursday, July 11th, 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 APPLICANT:

KELLAHIN & KELLAHIN 117 N. Guadalupe P.O. Box 2265 Santa Fe, New Mexico 87504-2265 By: W. THOMAS KELLAHIN

ALSO PRESENT:

ALTON J. WARD P.O. Box 88 Alamogordo, New Mexico 88311

\* \* \*

| 1  | WHEREUPON, the following proceedings were had at           |
|----|--|
| 2  | 11:15 a.m.:  |
| 3  | EXAMINER STOGNER: At this time I'll call Case              |
| 4  | Number 11,569, which is the Application of Richardson      |
| 5  | Operating Company for compulsory pooling and an unorthodox |
| 6  | location, San Juan County, New Mexico.                     |
| 7  | At this time I'll call for appearances.                    |
| 8  | MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of            |
| 9  | the Santa Fe law firm of Kellahin and Kellahin, appearing  |
| 10 | on behalf of the Applicant, and I have two witnesses to be |
| 11 | sworn.   |
| 12 | EXAMINER STOGNER: Any other appearances in Case            |
| 13 | Number 11,569?   |
| 14 | Will the witnesses please stand to be sworn                |
| 15 | I'm sorry.   |
| 16 | MR. KELLAHIN: Let me check something, Mr.                  |
| 17 | Examiner.  |
| 18 | EXAMINER STOGNER: Okay. Mr. Kellahin, I'm going            |
| 19 | to take about a five-minute recess. We'll go off the       |
| 20 | record for five minutes.                                   |
| 21 | MR. KELLAHIN: Okay, thank you, Mr. Examiner.               |
| 22 | (Thereupon, a recess was taken at 11:17 a.m.)              |
| 23 | (The following proceedings had at 11:28 a.m.)              |
| 24 | EXAMINER STOGNER: Back on the record in Case               |
| 25 | 11,569.  |

1 Mr. Kellahin? MR. KELLAHIN: Mr. Examiner, before the break you 2 3 were calling for appearances. You had called Case 11,569 With your permission, we would like to 4 5 consolidate for hearing purposes our next case, which is 6 11,570. It is the well in the northeast quarter of Section 7 15, and it will be the well that is to be proposed for 8 Pictured Cliff-Fruitland commingled well. And 11,569, 9 then, is its companion as a Pictured Cliff well down in the southeast of 15. 10 11 With your permission, we'd like to have both 12 those cases called and consolidated for testimony. 13 EXAMINER STOGNER: Okay, at this time I'll call Case Number 11,570, which is the Application of Richardson 14 15 Operating Company for compulsory pooling, downhole 16 commingling and an unorthodox gas well location, San Juan 17 County, New Mexico. 18 Let's see, other than Mr. Kellahin, are there any other appearances in this matter? 19 MR. KELLAHIN: Yes, sir, Mr. Examiner. 20 I'd like 21 to introduce for you Mr. Alton J. Ward. 22 EXAMINER STOGNER: Okay, do you want to spell 23 that? MR. KELLAHIN: Yes, A-l-t-o-n, his middle initial 24 25 is J, and it's W-a-r-d.

1 EXAMINER STOGNER: Okay. MR. KELLAHIN: Mr. Ward's address is Box 88, he 2 3 resides in Alamogordo, the zip code is 88311. Mr. Ward is interested in Case 11,570. He is a 4 royalty owner in the northeast quarter of that section, and 5 6 we've provided him notification pursuant to the downhole 7 commingling requirement provisions of that portion of the 8 Application dealing with commingling. 9 EXAMINER STOGNER: Okay. Now, is Mr. Ward entering appearance in just 11,570 or both of them? 10 MR. KELLAHIN: Just 11,570. He would have no 11 interest in 11,569. 12 13 EXAMINER STOGNER: Why are you consolidating 14 these two cases, Mr. Kellahin? 15 MR. KELLAHIN: For convenience of presentation, Mr. Examiner. 16 17 Ms. Colby has presented all her ownership records 18 and her notifications in a way that it is convenient to 19 present this as one evidentiary case. 20 EXAMINER STOGNER: Okay. 21 MR. KELLAHIN: And that would help me in my 22 presentation, and it would substantially shorten our presentation. 23 EXAMINER STOGNER: Okay. Let's see, in going 24 25 back to Case Number 11,570, before I get around -- other

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|    | 8   |
|----|---|
| 1  | than Okay, other than the Applicant Richardson and Alton    |
| 2  | J. Ward, are there any other appearances?                   |
| 3  | MR. KELLAHIN: We are aware of none, Mr.                     |
| 4  | Examiner.   |
| 5  | EXAMINER STOGNER: Okay. With that, just some                |
| 6  | housekeeping on Case Number 11,570.                         |
| 7  | On July 3rd a request from Merrill Kempton of               |
| 8  | Farmington, New Mexico, requesting Case Number 11,570 be    |
| 9  | continued to the July 25th, 1996, date was received. That   |
| 10 | letter was dated June 29th, but it was received by the      |
| 11 | Division on July 3rd.                                       |
| 12 | A response from Mr. Kellahin to that request or             |
| 13 | motion was filed with the Division on July the 9th.         |
| 14 | Subsequent to that time, or interfingering at that          |
| 15 | particular time too, was a notice to the Division that Case |
| 16 | Number 11,570 was needing to be readvertised because of     |
| 17 | location difference, and I as of yesterday responded to     |
| 18 | those two motions, two correspondences.                     |
| 19 | I know I didn't e-mail it to you or fax it to               |
| 20 | you, Mr. Kellahin, because I did not have a fax address to  |
| 21 | Mr. Merrill Kempton.  |
| 22 | So as opposed to appearing by Division of the two           |
| 23 | parties not being treated fairly, since I didn't get a fax  |
| 24 | from him, I wrote the letter and sent it out US mail and    |
| 25 | will cover it today. I essentially stated that this matter  |
|    |   |

| 1  | will be presented at today's hearing, at which time it will |
|----|---|
| 2  | be continued to rehearing on July 25th. At that time, if    |
| 3  | it's necessary, additional testimony will be taken.         |
| 4  | So with that, let me have the witnesses in this             |
| 5  | matter stand.   |
| 6  | (Thereupon, the witnesses were sworn.)                      |
| 7  | EXAMINER STOGNER: With that, Mr. Kellahin, you              |
| 8  | may proceed.  |
| 9  | MR. KELLAHIN: Mr. Examiner, we've distributed to            |
| 10 | you the exhibit package. There should be a set before you.  |
| 11 | The first two exhibits need to be unfolded.                 |
| 12 | Exhibit 1 is the tract arrangements in the northeast        |
| 13 | quarter of Section 15, and Exhibit 2, then, is the          |
| 14 | southeast quarter of 15.                                    |
| 15 | My first witness is Cathy Colby. She spells her             |
| 16 | last name C-o-l-b-y. She's a petroleum landman employed by  |
| 17 | Richardson Operating Company.                               |
| 18 | <u>CATHLEEN COLBY</u> ,                                     |
| 19 | the witness herein, after having been first duly sworn upon |
| 20 | her oath, was examined and testified as follows:            |
| 21 | DIRECT EXAMINATION  |
| 22 | BY MR. KELLAHIN:  |
| 23 | Q. For the record, Ms. Colby, would you please state        |
| 24 | your name and occupation?                                   |
| 25 | A. My name is Cathleen Colby. I am land manager at          |

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|    | 10   |
|----|--|
| 1  | Richardson Operating Company.                              |
| 2  | Q. On prior occasions have you testified before the        |
| 3  | Oil Conservation Division and qualified as an expert in    |
| 4  | petroleum land management matters?                         |
| 5  | A. Yes, I have.  |
| 6  | Q. Pursuant to your employment, have you undertaken        |
| 7  | what appears to be a substantial task in first of all      |
| 8  | identifying all the subdivisions and tracts which          |
| 9  | constitute the east half of Section 15? You've done that?  |
| 10 | A. Yes, sir, I have.                                       |
| 11 | Q. As part of your work, then, did you also identify       |
| 12 | the owners of those various tracts?                        |
| 13 | A. Yes, sir.   |
| 14 | Q. And with the assistance of title attorneys and          |
| 15 | title examiners, have you satisfied yourself that you now  |
| 16 | have an accurate compilation of the ownership with regards |
| 17 | to the oil and gas minerals underlying the east half of    |
| 18 | Section 15?  |
| 19 | A. Yes, to the best of our ability. This is a very         |
| 20 | complicated 320 acres, and we have spent quite a bit of    |
| 21 | time, and we feel that we have a good understanding of the |
| 22 | ownership now.   |
| 23 | Q. As part of your work, do you customarily                |
| 24 | negotiate an attempt to consolidate tracts on a voluntary  |
| 25 | basis, either by acquiring by purchase, leasing or farmout |

| 1  | or some other contractual means by which you consolidate    |
|----|---|
| 2  | these interests on a voluntary basis?                       |
| 3  | A. Yes, I do.   |
| 4  | Q. And are you familiar with and knowledgeable about        |
| 5  | operating agreements and other contractual documents that   |
| 6  | are involved in this process?                               |
| 7  | A. Yes, sir.  |
| 8  | MR. KELLAHIN: We tender Ms. Colby as an expert              |
| 9  | petroleum landman.  |
| 10 | EXAMINER STOGNER: Ms. Colby is so qualified.                |
| 11 | Q. (By Mr. Kellahin) Let's start with Exhibits 1            |
| 12 | and 2 and have you identify for us the source of the plats. |
| 13 | Where did they come from?                                   |
| 14 | A. The base plats are a reduced copy of the County          |
| 15 | Assessor's surface ownership maps, and we have identified   |
| 16 | lease boundaries by drawing the darker orange lines and     |
| 17 | have identified tracts that are not subject to an oil and   |
| 18 | gas lease.  |
| 19 | Where we were not able to acquire an oil and gas            |
| 20 | lease or purchase the minerals, those are identified by the |
| 21 | red coloring.   |
| 22 | The yellow coloring are the tracts that were open           |
| 23 | as to the Pictured Cliffs and Fruitland Coal Formations,    |
| 24 | which we have subsequently picked up oil and gas leases.    |
| 25 | Conoco has rights to two oil and gas leases that            |

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|    | 12   |
|----|--|
| 1  | are indicated in blue.                                     |
| 2  | And the orange are the existing oil and gas                |
| 3  | leases that Richardson has obtained farm-in on.            |
| 4  | Q. The tract numbers refer to tract names?                 |
| 5  | A. Yes.  |
| 6  | Q. And how were you able to associate the right name       |
| 7  | with the right tract number?                               |
| 8  | A. By the legal description. And the name that's           |
| 9  | tabulated is the original lessor on the lease.             |
| 10 | Q. Okay. Let's look at the information on Exhibit          |
| 11 | 1. There is a red dot down in the southeast quarter of the |
| 12 | northeast quarter. What is that intended to represent?     |
| 13 | A. That is our proposed location for our 15-1 well.        |
| 14 | Q. And the 15-1 well is known by the Division case         |
| 15 | number as 11,570?  |
| 16 | A. Yes.  |
| 17 | Q. All right. When we look at Exhibit 2 in the             |
| 18 | southeast quarter, there's a red dot?                      |
| 19 | A. Yes.  |
| 20 | Q. What is that red dot intended to represent?             |
| 21 | A. That is our proposed location for our 15-2 well,        |
| 22 | or the Division Case Number 11,569.                        |
| 23 | Q. All right. The one in the northeast is to be a          |
| 24 | downhole commingled well. It's a Fruitland Coal gas plus   |
| 25 | the PC?  |

|    | 15   |
|----|--|
| 1  | A. Right.  |
| 2  | Q. And the one in the southeast is a PC stand-alone?       |
| 3  | A. That's correct.   |
| 4  | Q. All right. Let's talk about the actual                  |
| 5  | descriptions. Lots of these are not regularly described    |
| 6  | pieces of property but are done simply by metes and bounds |
| 7  | or other more complicated means of description.            |
| 8  | When we look at Exhibit Number 3, what have you            |
| 9  | compiled for us there?                                     |
| 10 | A. Exhibit 3 is a tabulation of existing oil and gas       |
| 11 | leases. It makes up the first part, those controlled by    |
| 12 | Richardson Operating Company.                              |
| 13 | Q. So the Examiner can take Exhibit 3, and insofar         |
| 14 | as the entire east half is concerned he can use Tract 1,   |
| 15 | looking at Exhibit 1, and he can find Merrill Kempton and  |
| 16 | his wife, and he can look over on Exhibit 3 and find that  |
| 17 | Mr. Kempton has leased to Julander and knows the book and  |
| 18 | page and date and then the actual description of Mr.       |
| 19 | Kempton's property?  |
| 20 | A. That is correct.  |
| 21 | Q. And subsequently go through the display in that         |
| 22 | fashion?   |
| 23 | A. Yes.  |
| 24 | Q. If we look at Exhibit 3 and with specific               |
| 25 | emphasis on Mr. Kempton's property, and going back to      |
|    |  |

| 1  | Exhibit 1, then, you can find how it's located on the      |
|----|--|
| 2  | ground as Tract 1?   |
| 3  | A. That is correct.  |
| 4  | Q. Your well site for that well is on Mr. Kempton's        |
| 5  | property?  |
| 6  | A. Yes, it is.   |
| 7  | Q. Okay. His interest is subject to an oil and gas         |
| 8  | lease, and he controls the surface?                        |
| 9  | A. Yes, he owns both the surface and the minerals.         |
| 10 | Q. At the time he executed this lease in 1959, did         |
| 11 | Mr. Kempton have both the surface and the oil and gas      |
| 12 | minerals?  |
| 13 | A. Yes, he did.  |
| 14 | Q. And has Richardson Operating Company now become         |
| 15 | the lessee of the Kempton lease?                           |
| 16 | A. We have rights under a farmout agreement.               |
| 17 | Q. Oh, so by contract you've acquired operations of        |
| 18 | that lease?  |
| 19 | A. Yes, and that is limited from the surface to the        |
| 20 | base of the Pictured Cliffs formation.                     |
| 21 | Q. And from whom did you get your farmout?                 |
| 22 | A. We got farmouts from five parties.                      |
| 23 | Q. Are you satisfied that you have an adequate chain       |
| 24 | of title that gives you legal rights to the access of the  |
| 25 | surface to explore for the oil and gas minerals underlying |

| 1  | Mr. Kempton's property?                                    |
|----|--|
| 2  | A. Yes, we do.   |
| 3  | Q. The Exhibit 3 is organized in such a way that as        |
| 4  | you move through the pages, you're going to get to another |
| 5  | section starting on page 14 where you're now dealing with  |
| 6  | tracts that are identified on Exhibits 1 and 2 but are not |
| 7  | under lease?   |
| 8  | A. That is correct.  |
| 9  | Q. Starting with Tract 62, then, you've identified         |
| 10 | on Exhibit Number 2 as well as Exhibit 3 those tracts for  |
| 11 | which you do not have leases?                              |
| 12 | A. Yes.  |
| 13 | Q. For those categories of individuals or entities,        |
| 14 | have you exhausted every opportunity to obtain leases or   |
| 15 | ask those parties to participate with you in this well?    |
| 16 | A. Yes, I have. I spent quite a bit of time, where         |
| 17 | I was able to contact the mineral owner, talking to them   |
| 18 | and trying to explain what we were trying to do and making |
| 19 | offers to lease their minerals. And with this particular   |
| 20 | group I got to a point where I felt I couldn't go any      |
| 21 | further.   |
| 22 | Q. And we will show the Examiner all that                  |
| 23 | correspondence here in just a minute?                      |
| 24 | A. Yes.  |
| 25 | Q. Let's deal with the last entity on page 16, which       |
|    |  |

is Conoco's uncommitted lease interests? 1 Yes, sir. 2 Α. They control Tracts 48 and 49? 3 ο. Yes, sir. 4 Α. Let's start at that point, then, with our general 5 Q. discussion of your efforts. Have you been successful in 6 7 trying to get Conoco to participate with you on a voluntary basis in the well? 8 Initially, Conoco indicated that they did want to 9 Α. participate and asked that we provide them with an AFE and 10 an operating agreement, which we did. Conoco has a 11 relatively small interest in both of these wells, and they 12 were unable to make a decision by the time of the hearing, 13 14 so they asked that we put them on the uncommitted list. All right. There is a package of documents with 15 Q. regards to Conoco. In your opinion, have you exhausted all 16 17 reasonable opportunity to have Conoco participate with you on a voluntary basis? 18 Α. Yes, I have. 19 Let's deal now with the subject of moving the 20 Q. well location of the 15-1 well. Remember, it was 21 22 originally located 2275 feet from the north line and 991 from the east line, which would have put it in proximity to 23 an existing Conoco well? 24 25 Right, our initial attempt was to, as much as Α.

16

| possible, share the existing Conoco well pad, to minimize |
|---|
| surface disturbance.                                      |
| Q. The Conoco well is a well producing from what          |
| formation?  |
| A. It produces from the Dakota formation.                 |
| Q. Your interest in utilizing the same well pad was       |
| to minimize surface disturbance and to accommodate the    |
| neighbors with regards to that use?                       |
| A. Yes, to be as least obtrusive to Mr. Kempton's         |
| use of his land.  |
| Q. Did Mr. Kempton approve the use of his land for        |
| the well at that location?                                |
| A. At our originally proposed location?                   |
| Q. Yes.   |
| A. No, he did not. He was concerned that we were          |
| too close to the trailer park.                            |
| Q. What's his relationship, if any, with the trailer      |
| park?   |
| A. Mr. Kempton owns the surface of the trailer park       |
| and leases the space to the residents.                    |
| Q. Did you discuss with Mr. Kempton where you might       |
| relocate this well on his property to satisfy your well   |
| position, to access the minerals and accommodate his      |
| concerns about the surface?                               |
| A. We did.  |
|   |

|    | 10  |
|----|---|
| 1  | Q. With what result?  |
| 2  | A. And we invited him to be present when we had the         |
| 3  | survey team come back out to restake the location.          |
| 4  | Q. Okay, with what result?                                  |
| 5  | A. He was present, and Mr. Kempton doesn't feel that        |
| 6  | the well should be located on his property at any location. |
| 7  | Q. All right. So you were unable to accommodate him         |
| 8  | to find a location on his property for which he would have  |
| 9  | agreement?  |
| 10 | A. That is correct.   |
| 11 | Q. Ultimately, where do you suggest that you put the        |
| 12 | well?   |
| 13 | A. He thought a better location would be in a city          |
| 14 | park, Bird Park, to the north.                              |
| 15 | Q. And you've rejected utilizing the city park in           |
| 16 | direct proximity to What's that? The Animas River?          |
| 17 | A. Yes. Well, one of the problems is that Bird Park         |
| 18 | is on the north side of the Animas River, and the gathering |
| 19 | system that we plan to tie into is on the south side of the |
| 20 | river, and we're hesitant to consider putting a well in a   |
| 21 | city park.  |
| 22 | Q. All right. Did you move the location in response         |
| 23 | to a request by Conoco to have a certain minimum distance   |
| 24 | between your well and their well?                           |
| 25 | A. That was another factor in moving the location.          |
|    |   |

|    | 19  |
|----|---|
| 1  | Conoco felt that 100 feet between the two wellbores would   |
| 2  | be the minimum acceptable to them.                          |
| 3  | Q. In addition, did you also move your original             |
| 4  | location of this well in order to comply with the City of   |
| 5  | Farmington zoning requirements for distances of well        |
| 6  | locations from, I believe, structures?                      |
| 7  | A. That is correct. There's a 200-foct minimum from         |
| 8  | existing structures. Our original location was 195 feet     |
| 9  | from the corner of the trailer, and it was slightly closer  |
| 10 | to some industrial buildings on the south side of the       |
| 11 | quarter section.  |
| 12 | EXAMINER STOGNER: Run that by me again?                     |
| 13 | THE WITNESS: Okay, on the Exhibit Number 1                  |
| 14 | there's an odd-shaped wedge at the very southern end of the |
| 15 | map, surface owned by Martin Garcia trustees. There's a     |
| 16 | metal industrial shop on that tract of land that our        |
| 17 | original location was about 150 feet from that shop.        |
| 18 | EXAMINER STOGNER: And how far from the trailer?             |
| 19 | THE WITNESS: We were 195 feet from the closest              |
| 20 | trailer.  |
| 21 | EXAMINER STOGNER: And so the new location gets              |
| 22 | you further away from the                                   |
| 23 | THE WITNESS: It puts us 200 feet from all                   |
| 24 | structures  |
| 25 | EXAMINER STOGNER: Okay.                                     |
|    |   |

THE WITNESS: -- in compliance with the city 1 code. 2 EXAMINER STOGNER: The city -- Is it my 3 understanding that the City designates a mobile home as a 4 structure? 5 THE WITNESS: Yes, all buildings. 6 To my knowledge, the only additional requirement, 7 which is found in the fire code, is, if it's a place of 8 assembly such as a church or a school, you need to maintain 9 at least 300 feet. 10 EXAMINER STOGNER: Okay. But in accordance with 11 what you know, the City of Farmington designates a mobile 12 home the same as a building? 13 THE WITTNESS: Yes. 14 EXAMINER STOGNER: Okay. I'm sorry, I just 15 wanted to clarify that so that's -- while we are on that 16 17 topic. Go ahead, Mr. Kellahin. 18 MR. KELLAHIN: Yes, sir, please interrupt us at 19 20 any time. I want to make sure we've communicated this clearly. 21 (By Mr. Kellahin) At this point, then, the well Q. 22 is moved, your application before the Division is amended 23 and you're seeking approval of what we're going to show is 24 a location 2171 from the north and now 775 feet from the 25

east line? 1 That is correct. 2 Α. 3 And as a result of moving, you're now moving this Q. 4 well closer to its eastern boundary of its spacing unit? 5 Α. Yes. Previously it had been 991 feet, which would have 6 0. 7 been standard as to that boundary --8 Α. Right. 9 Q. -- for both the Coal and the Pictured Cliff? 10 But now you're moving 775 and you've encroaching towards the east? 11 12 Α. That's correct. 13 Q. As a consequence, did you re-notify the operators 14 on the east side towards whom you're encroaching? 15 Α. Yes, we did. You notified them originally, and you have 16 Q. 17 notified them of the amended Application? Yes, we did. 18 Α. At this point, are you aware of any opposition 19 Q. from any offset operator entitled to notice? Have they 20 objected? 21 No, we have received no objections. 22 Α. 23 Mr. Kempton has objected to the well being Q. located on his property? 24 25 Α. Yes.

| 1  | Q. Describe for me, in terms of his mineral                 |
|----|---|
| 2  | interests, what's occurred. He's leased his oil and gas     |
| 3  | minerals, and they're now controlled by entities that have  |
| 4  | issued farmout agreements to Richardson so you can drill    |
| 5  | the well, so his interest is committed by contract with     |
| 6  | regards to his minerals?                                    |
| 7  | A. That is correct.   |
| 8  | Q. All right. Have you talked to Mr. Kempton about          |
| 9  | your legal right to utilize in a reasonable way his surface |
| 10 | in order to access the oil and gas minerals?                |
| 11 | A. Yes, we have.  |
| 12 | Q. With what resolution?                                    |
| 13 | A. Well, Mr. Kempton at one point in time did               |
| 14 | consult with his attorney and our legal representative.     |
| 15 | The two attorneys talked, and at that point Mr. Kempton was |
| 16 | made aware that he needed to let us on to do our survey     |
| 17 | work.   |
| 18 | At this point, Mr. Kempton then began his protest           |
| 19 | through the Planning and Zoning and Oil and Gas Advisory    |
| 20 | Committee level.  |
| 21 | Q. What is the current resolution of those protests         |
| 22 | and hearings within the governmental agencies of the City   |
| 23 | of Farmington?  |
| 24 | A. Because Richardson has changed its location with         |
| 25 | the footages and to meet the city notification requirements |

|    | 23   |
|----|--|
| 1  | for offset property owners, we were asked to resubmit new  |
| 2  | applications, which we have done.                          |
| 3  | Q. And when will those come to hearing?                    |
| 4  | A. It's scheduled to go before the Planning and            |
| 5  | Zoning Commission on July 25th.                            |
| 6  | Q. What action did the Planning and Zoning                 |
| 7  | Commission take on the original well site?                 |
| 8  | A. On the original well site, the Planning and             |
| 9  | Zoning Commission decided to recommend not to recommend    |
| 10 | approval of for Richardson to obtain a special use         |
| 11 | permit to the City Council.                                |
| 12 | The final decision is made by City Council after           |
| 13 | recommendations from the Planning and Zoning Committee and |
| 14 | the Oil and Gas Geologic and Engineering Hazards Advisory  |
| 15 | Committee.   |
| 16 | Q. All right. What was the recommendations of the          |
| 17 | Oil and Gas Advisory Committee of the City?                |
| 18 | A. Their recommendation was to allow the drilling of       |
| 19 | both wells, subject to certain requirements.               |
| 20 | Q. Okay. What was the reason the Planning and              |
| 21 | Zoning had recommended denial of the Application of        |
| 22 | Richardson on the original location?                       |
| 23 | A. The Applications were heard first by the Planning       |
| 24 | and Zoning. I believe Mr. Kempton had spent time talking   |
| 25 | to them ahead of time, expressing concerns for safety, and |

| 1  | at the meeting he had lengthy discussions and brought       |
|----|---|
| 2  | several residents of the trailer court with him expressing  |
| 3  | concerns of safety. Most of their concerns addressed the    |
| 4  | existing Dakota well, but they felt that their safety       |
| 5  | concerns would be increased if there was an additional well |
| 6  | there.  |
| 7  | Q. All right. So you still have to go through the           |
| 8  | surface location issues, through the City of Farmington     |
| 9  | process at this point?                                      |
| 10 | A. Yes, we do.  |
| 11 | Q. Have you been asked by the governmental officials        |
| 12 | with the City of Farmington to proceed forward with the Oil |
| 13 | Commission determination of the correlative rights and      |
| 14 | waste issues that are within its jurisdiction prior to your |
| 15 | next hearing at the City process?                           |
| 16 | A. Yes, we have.  |
| 17 | Q. So you've asked to go forward with your                  |
| 18 | presentation before Examiner Stogner today?                 |
| 19 | A. That's correct.  |
| 20 | Q. Let's talk about the Exhibit Number 4. Exhibit           |
| 21 | 3, now, is the leases and the uncommitted and unleased      |
| 22 | interests for the east half. But you have recompiled that   |
| 23 | with regards to the southeast quarter of Section 15, so the |
| 24 | Examiner can look specifically at that ownership in when    |
| 25 | he deals with the well 15-2?                                |

| 1  | A. That is correct.   |
|----|---|
| 2  | Q. All right. Let's go through that so he                   |
| 3  | understands how you've formulated it. Exhibit 4, then,      |
| 4  | those are leases that you now control until we get down to  |
| 5  | page 5 and you've got some nonleased interest, right?       |
| 6  | A. That's correct.  |
| 7  | Q. Are these going to be the same people that you           |
| 8  | have been attempting to get leases from, providing          |
| 9  | correspondence to and discussing their interests?           |
| 10 | A. Yes, these people are also included in the 15-1          |
| 11 | well, by virtue of the Fruitland Coal formation, which is   |
| 12 | spaced on 320 acres.  |
| 13 | Q. Have you also provided them Although they're             |
| 14 | the same people, have you provided them notification and    |
| 15 | opportunity for the PC well in the southeast of 15?         |
| 16 | A. Yes, these people were notified for both cases.          |
| 17 | Q. And again, finally on page 6, you've got the             |
| 18 | Conoco uncommitted lease interest. You've gone through the  |
| 19 | same process with Conoco with regards to the PC well in the |
| 20 | southeast of 15?  |
| 21 | A. Yes, sir.  |
| 22 | Q. And have you exhausted all reasonable opportunity        |
| 23 | with all these entities or individuals concerning their     |
| 24 | participation in both of these wells?                       |
| 25 | A. Yes, sir.  |

| 1  | Q. At this point, are you asking the Examiner to           |
|----|--|
| 2  | issue a compulsory pooling order?                          |
| 3  | A. Yes, sir.   |
| 4  | Q. Do you have a recommendation to the Examiner as         |
| 5  | to what overhead rate you would like to have him approve   |
| 6  | for each of these two wells?                               |
| 7  | A. We're asking for a \$350 monthly operating rate         |
| 8  | and a \$4500 drilling rate.                                |
| 9  | Q. And what is the basis of those rates?                   |
| 10 | A. Those are our standard rates in the area.               |
| 11 | Q. And you've asked your next witness, Dana                |
| 12 | Delventhal, the petroleum engineer, to examine your        |
| 13 | overhead rates, and she has found that they're consistent  |
| 14 | with the Ernst & Young rates? In fact, lower than those    |
| 15 | rates?   |
| 16 | A. Yes, sir.   |
| 17 | Q. All right, let's turn to the package of                 |
| 18 | correspondence so we can document for the Examiner your    |
| 19 | efforts to get these various parties to join you. Let's do |
| 20 | it in a summary fashion. Starting with Exhibit 5, describe |
| 21 | for us what you're doing and show us the result.           |
| 22 | A. Okay, Exhibit 5 is the correspondence I've had          |
| 23 | with Conoco. Our original proposal was to either take a    |
| 24 | farm-in or to purchase their interest.                     |
| 25 | Q. That was going on Your proposal was November            |

| 1  | 15th of 1996 [sic], and then in January they responded to   |
|----|---|
| 2  | you?  |
| 3  | A. Right, and in January they were more interested          |
| 4  | in participating and asked us to forward an AFE and         |
| 5  | operating agreement, which we did in April of 24, 1996.     |
| 6  | Copies of the AFEs are attached.                            |
| 7  | Conoco asked us to add a provision to the                   |
| 8  | operating agreement, which would dictate how to apportion   |
| 9  | costs on the downhole commingled well, which we added their |
| 10 | recommended exhibit.  |
| 11 | In conversations that I've had since with Conoco            |
| 12 | in trying to find out what they were going to do in this    |
| 13 | matter, they advised that they felt our AFEs were           |
| 14 | reasonable, there was no problem with the operating         |
| 15 | agreement. However, because of the small interest to them,  |
| 16 | it was hard to get their people off of their bigger         |
| 17 | projects to look at this, and they said just to go ahead    |
| 18 | and they will not contest a compulsory pooling.             |
| 19 | Q. Okay, let's turn to Exhibit 6 and have you Let           |
| 20 | me do something that might be useful. Thumb through the     |
| 21 | package and get to the end of the correspondence, and let's |
| 22 | extract Exhibits 15 and 16, which are spreadsheets and will |
| 23 | provide a way for us to keep track of these various         |
| 24 | individuals and entities.                                   |
| 25 | Exhibit 15, if you have that before you, Ms.                |

27

| 1  | Colby, is your spreadsheet on the well in the northeast     |
|----|---|
| 2  | quarter, which is your 15-1, and Exhibit 16 is the          |
| 3  | spreadsheet on the Pictured Cliff well in the southeast     |
| 4  | quarter. Did I get that right?                              |
| 5  | A. Yes.   |
| 6  | Q. All right. So the first one we've come across            |
| 7  | here is the Conoco interest. You've documented that you've  |
| 8  | been unsuccessful with Conoco. Let's look at the next set   |
| 9  | of documents it's Exhibit 6 and this deals with             |
| 10 | Koski?  |
| 11 | A. Yes.   |
| 12 | Q. All right, summarize for us what you've done             |
| 13 | here.   |
| 14 | A. There was an initial proposal on January 19th,           |
| 15 | 1996, to take an oil and gas lease on his unleased mineral  |
| 16 | interests, surface to base of Pictured Cliffs formation.    |
| 17 | In a follow-up telephone call, Mr. Koski informed           |
| 18 | me that he was not interested in leasing, that he wanted an |
| 19 | outright sell. He had a couple people in Albuquerque that   |
| 20 | had been after him to buy his interest and wanted me to     |
| 21 | make an offer.  |
| 22 | I called back and offered to buy the surface to             |
| 23 | the base of the Pictured Cliffs for \$150 an acre, and he   |
| 24 | checked with Conoco and was informed that that was low by   |
| 25 | Conoco's estimation. He informed me that his Dakota rights  |
|    |   |

|    | 25  |
|----|---|
| 1  | had made \$400 in 1995, and he wanted \$6000 for his 2.45 net |
| 2  | acres, which comes to about \$2400 an acre, and he said that  |
| 3  | he wouldn't take anything less than that.                     |
| 4  | That was much higher than what we were willing to             |
| 5  | pay. I could see that there was a considerable distance       |
| 6  | between what he felt that he wanted from the property, and    |
| 7  | so we did not pursue trying to lease or buy his interest.     |
| 8  | At that point, we sent an AFE and invited him to              |
| 9  | participate in the well, and we also offered that he could    |
| 10 | lease or farm out to us.                                      |
| 11 | Q. Okay, let's go to the exhibit package that's               |
| 12 | Number 7.   |
| 13 | A. Number 7 is an unleased mineral interest owned by          |
| 14 | a Darrell Gene Hardy. It has a mortgage on it.                |
| 15 | Originally, I Well, to go back, the real                      |
| 16 | estate contract provided that the seller specifically         |
| 17 | retained ownership, and so that was what the original offer   |
| 18 | was made to the seller, Derald Hawkes, Trustee.               |
| 19 | Q. Are all these individuals involved with the                |
| 20 | Western United Life Assurance entry?                          |
| 21 | A. Well, the Yes, the Western United Life                     |
| 22 | Assurance then obtained title, because they were providing    |
| 23 | the mortgage, and a subsequent offer to lease was made to     |
| 24 | them.   |
| 25 | In attempts to follow up, I was told by their                 |

|    | 30  |
|----|---|
| 1  | attorneys that Mr. Hardy could speak for himself on this    |
| 2  | matter. And they gave me Mr. Hardy's attorney. So the May   |
| 3  | 13th, 1996, letter went to Mr. Hardy in care of his         |
| 4  | attorney.   |
| 5  | Q. With what final result?                                  |
| 6  | A. I talked to Mr. Parmly, the attorney, and offered        |
| 7  | to either lease to lease or buy. And he said that Mr.       |
| 8  | Hardy wanted to sell his three-quarters of an acre for      |
| 9  | \$5000, which equated to about \$6600 an acre.              |
| 10 | There was a follow-up call from a consultant                |
| 11 | who's familiar with the oil and gas business, who said that |
| 12 | he would be willing to sell it outright for \$4000.         |
| 13 | Q. These are all substantially more than you were           |
| 14 | able to acquire leases for in this particular area?         |
| 15 | A. Yes, our average price for buying a lease was \$50       |
| 16 | an acre.  |
| 17 | Q. Okay.  |
| 18 | A. So there was quite a range. And                          |
| 19 | Q. All right. When I look at the spreadsheet, now,          |
| 20 | all this deals with Exhibit 15, and I'm looking at the      |
| 21 | fourth entry down. This is all under that Western United    |
| 22 | Life Assurance Company?                                     |
| 23 | A. Yes, I did not update this, that's right.                |
| 24 | Q. All right. Make sure the Examiner realizes your          |
| 25 | efforts go to all these entities.                           |

| 1  | All right, let's go to Number 8. What's Number              |
|----|---|
| 2  | 8?  |
| 3  | A. Okay, Number 8 is another very small interest of         |
| 4  | .85-acre, and this has two entities also. Originally, the   |
| 5  | interest was owned by 515, Inc., and after during the       |
| 6  | process of working on this, the interest was transferred to |
| 7  | E.M., Inc., I believe.                                      |
| 8  | Q. All right. So when we look at Exhibit 15, it's           |
| 9  | the next one down after Western on the spreadsheet?         |
| 10 | A. Yes, that's correct.                                     |
| 11 | Q. Okay. Again, you were unsuccessful in obtaining          |
| 12 | an interest or having them participate in the well?         |
| 13 | A. Yes, on this one Mr. Martin's daughter called me         |
| 14 | and asked for some information on what tracts, specific     |
| 15 | tracts this referred to, because he owns quite a bit of     |
| 16 | well, various tracts in the subdivisions in this half       |
| 17 | section, some of which are under existing oil and gas       |
| 18 | leases.   |
| 19 | And I identified which three were not subject to            |
| 20 | a lease, and I made three follow-up calls to see if I could |
| 21 | negotiate a lease or a purchase and did not have call-backs |
| 22 | from them.  |
| 23 | Q. Is it true that in all these cases, Ms. Colby,           |
| 24 | that in addition to trying to acquire the leases, you       |
| 25 | provided them a written opportunity to participate in the   |
|    |   |

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|    | JZ  |
|----|---|
| 1  | well and gave them an itemized AFE by which to make an      |
| 2  | analysis of that choice?                                    |
| 3  | A. Yes, I did. When I felt that I couldn't go any           |
| 4  | further in taking the lease or accommodating them in any    |
| 5  | manner, then I sent via certified mail a well proposal,     |
| 6  | asking them if they would like to participate, with an AFE  |
| 7  | attached, and also at that time extended the offer to again |
| 8  | lease, purchase their interest, or take a farm-in.          |
| 9  | Q. Okay, let's turn now to Exhibit 9. Identify the          |
| 10 | entity you're trying to get to participate in the well.     |
| 11 | A. Okay, Exhibit 9, there are quite a few owners.           |
| 12 | At the bottom, in my handwriting, I've listed out who the   |
| 13 | owners are. They're all family members. And when I sent     |
| 14 | out proposals, the entire family did get together and       |
| 15 | discuss the proposals, and their decision was made on a     |
| 16 | group basis.  |
| 17 | Exhibit 9 is a letter I received from Mrs. Tyler            |
| 18 | and Ms. Pitchford where they declined to lease. They felt   |
| 19 | that their father would not have leased, and they wanted to |
| 20 | follow in his footsteps.                                    |
| 21 | Q. So if we look at spreadsheet 15, Exhibit 15, and         |
| 22 | find the name Clarence Everett Hodgson Estate               |
| 23 | A. Right.   |
| 24 | Q read the rest of the way down, all of those               |
| 25 | people are involved in Exhibit 9?                           |
|    |   |

| A. That is correct.   |
|---|
| Q. Again, the end result was that you were unable to        |
| get them to lease with you, and you offered them a chance   |
| to participate in the well, and they have not elected to    |
| participate?  |
| A. That is correct.   |
| Q. All right. Exhibit 10?                                   |
| A. Exhibit 10 is another small tract, .2 net acres.         |
| I talked to Mrs. Lane several times and tried to answer her |
| questions and explain what we were doing, and she did not   |
| have any interest in leasing or selling.                    |
| Q. Again, she was afforded an opportunity to                |
| participate and has chosen not to?                          |
| A. That is correct.   |
| Q. Exhibit 11?  |
| A. Exhibit 11 is the same mineral owner, Mrs. Lane,         |
| and her son. There are two tracts that are side by side;    |
| they're joint owners in the second tract. And when I was    |
| speaking with Mrs. Lane she was speaking on behalf of the   |
| entire family, and we discussed both tracts.                |
| Q. Okay, Exhibit 12?  |
| A. Exhibit 12 is .2 net acres. I was never able to          |
| locate a telephone number for Mr. and Mrs. Fred Shorty, so  |
| my communication was limited to my correspondence, both in  |
| the offer to lease and the well proposal with other         |
|   |

|    | 34   |
|----|--|
| 1  | opportunities offered.   |
| 2  | They did receive the certified mail.                                 |
| 3  | Q. Let's turn to Exhibit 13.   |
| 4  | A. Exhibit 13 is the same type of a situation. I                     |
| 5  | was not able to obtain a telephone number. I do have proof           |
| 6  | that the certified mail was received, and Ms. Gordon did             |
| 7  | not make contact with me.  |
| 8  | Q. And finally Exhibit 14?   |
| 9  | A. Exhibit 14 is .2 net acres. I talked to Ms.                       |
| 10 | Casaus several times and I tried to explain what we were             |
| 11 | doing. I did get a call from her finally on February 27th            |
| 12 | where she said, $\mathbb{I}$ 'm not interested. And at that point, I |
| 13 | sent via certified mail a well proposal, AFE and the same            |
| 14 | offers offer to lease, to buy or to farm in.                         |
| 15 | Q. I've checked on the spreadsheet, and I think                      |
| 16 | you've covered all the parties listed on both Exhibit 15             |
| 17 | and 16, with the exception of a John Dent Lamar.                     |
| 18 | A. Oh, yeah, John Dent Lamar, I was not able to get                  |
| 19 | an address or a telephone number. I had no way of                    |
| 20 | contacting him.  |
| 21 | Q. So you couldn't find that individual, and how did                 |
| 22 | you go about searching?  |
| 23 | A. We looked on documents with the courthouse, we                    |
| 24 | checked with the County Assessor, and we asked the people            |
| 25 | that we were working with at Guardian Title and checked the          |

| 1  | phone book.  |
|----|--|
| 2  | Q. Okay. I'm losing track of the exhibits. You've        |
| 3  | talked about 15 and 16.                                  |
| 4  | A. Right.  |
| 5  | Q. What's 17 and 18?                                     |
| 6  | A. 17 and 18 are notifications.                          |
| 7  | Q. I'm with you now. Okay, let's turn to Exhibit         |
| 8  | 17. What is Exhibit 17, Ms. Colby?                       |
| 9  | A. 17 is our   |
| 10 | MR. KELLAHIN: 17 is and I had the same                   |
| 11 | trouble, Mr. Examiner. I had these misplaced. Here's 17  |
| 12 | and 18. You have 18, here's 17. There you go.            |
| 13 | EXAMINER STOGNER: Okay.                                  |
| 14 | Q. (By Mr. Kellahin) Okay, what's 17 again?              |
| 15 | A. 17 is the listed notification on owners.              |
| 16 | Q. All right, this is for the hearing purpose?           |
| 17 | A. Yes.  |
| 18 | Q. All right. So this represents notification of         |
| 19 | the royalty and overrides for the commingling case?      |
| 20 | A. And further into the list, it also notifies the       |
| 21 | Well, there's a list of royalty owners unable to locate. |
| 22 | Q. That will be on page 6?                               |
| 23 | A. Right.  |
| 24 | Q. Starting on page 7, then, we'll get the unleased      |
| 25 | people for the force-pooling?                            |

| 1  | A. That's correct.   |
|----|--|
| 2  | Q. Plus the downhole commingling?                          |
| 3  | A. Yes.  |
| 4  | Q. And then on page 8 you've got the offset                |
| 5  | operators?   |
| 6  | A. That's correct.   |
| 7  | Q. All right. And all of those got notification of         |
| 8  | the Case 11,570?   |
| 9  | A. That is correct.  |
| 10 | Q. Exhibit 18 represents what?                             |
| 11 | A. Exhibit 18 are the people that got notification         |
| 12 | of both cases.   |
| 13 | Q. All right. And 18, then, is those parties being         |
| 14 | pooled in the southeast quarter for that PC well, plus the |
| 15 | offsets that got notice, Amoco and Mulford?                |
| 16 | A. Yes.  |
| 17 | Q. All right, let's look now at your documentation         |
| 18 | of the return receipt cards that went along with that      |
| 19 | notification. You sent this notice out for both of these   |
| 20 | cases on I believe it was June 18th? June 19th. I've       |
| 21 | lost track of my days.                                     |
| 22 | A. Okay, let's see. June 18th.                             |
| 23 | Q. June 18th, all these were sent out?                     |
| 24 | A. Yes.  |
| 25 | Q. When I look at Exhibit 19, what are we seeing?          |

| 1  | A. Exhibit 19, first, are photocopies of the               |
|----|--|
| 2  | certified receipts where people have signed that they      |
| 3  | received the mailing.                                      |
| 4  | Q. All right, these are all the green cards                |
| 5  | A. Yes.  |
| 6  | Q on the big-size paper that's 8 1/2 by 17?                |
| 7  | And behind that, then, you have stapled the                |
| 8  | returns that have come back to you for                     |
| 9  | A bad address or unable to deliver.                        |
| 10 | Q. Yeah, and you subsequently tried to fix those           |
| 11 | that you could, and this represents that process?          |
| 12 | A. Yes.  |
| 13 | Q. And then there's a copy of the actual letter that       |
| 14 | they got with the notification?                            |
| 15 | A. The next group with the letters are the ones that       |
| 16 | were mailed they have not come back from the post          |
| 17 | office, nor have we received the green card back.          |
| 18 | Q. All right. Finally, if you'll take the pointer          |
| 19 | that's in front of you, let's go identify the aerial       |
| 20 | photograph I have marked that as Exhibit 1A and            |
| 21 | provide the Examiner with an orientation as to where he    |
| 22 | will find each of these two wells on that aerial           |
| 23 | photograph.  |
| 24 | A. Okay, this reads like a regular map with north          |
| 25 | being up. The white box, large white box, is the northeast |

| 1  | quarter of Section 15, and Section 15 continues down here   |
|----|---|
| 2  | towards the southeast quarter, our 15-1 to be located in    |
| 3  | the northeast quarter, our proposed location is in the very |
| 4  | corner of this field. That's with the new footages. And     |
| 5  | the 15  |
| 6  | Q. And it's slightly shaded in yellow, so                   |
| 7  | A. Yes.   |
| 8  | Q we didn't want to blur the photograph, but you            |
| 9  | can help find it with the yellow shading?                   |
| 10 | A. Yes, you can see the existing Conoco Dakota well         |
| 11 | in the yellow.  |
| 12 | EXAMINER STOGNER: Okay, let's stop there. When              |
| 13 | you refer to that existing Conoco well that is in the       |
| 14 | southeast quarter of the northeast quarter, and in the      |
| 15 | middle of that quarter-quarter section on the black-and-    |
| 16 | white photograph is a large field, and it looks like it's   |
| 17 | in the middle of it, and it is essentially off center I     |
| 18 | should say the directions and the Conoco well is a light    |
| 19 | indentation directly to the west I'm sorry, off of the      |
| 20 | southwest corner of that large field; is that correct?      |
| 21 | THE WITNESS: That's correct.                                |
| 22 | EXAMINER STOGNER: And you referred to the                   |
| 23 | northeast corner the southeast I'm sorry, the               |
| 24 | northeast corner is shown in the box, and you referred to   |
| 25 | the southeast corner quarter of that section as being       |

|    | 39  |
|----|---|
| 1  | essentially, if you took that mirror image and brought it |
| 2  | down to the southern end of that northeast quarter, that  |
| 3  | would be shown in the southeast quarter?                  |
| 4  | THE WITNESS: Yes, it would.                               |
| 5  | EXAMINER STOGNER: Okay, I just wanted to make             |
| 6  | sure that that was on the record and that one could then  |
| 7  | take that record and refer back to that exhibit and then  |
| 8  | see where you're talking about.                           |
| 9  | Okay, you may continue.                                   |
| 10 | Q. (By Mr. Kellahin) Find the Pictured Cliff well         |
| 11 | in the southeast quarter so that the Examiner or anybody  |
| 12 | else looking at the photograph can find the proposed site |
| 13 | for that well.  |
| 14 | A. Our proposed location for the Pictured Cliffs          |
| 15 | well would be here. It can be identified as being just    |
| 16 | north of an irrigation ditch.                             |
| 17 | Q. Again, there is a light yellow shading on the          |
| 18 | aerial photograph that will help you find that position,  |
| 19 | and if you can more closely identify it, it would be      |
| 20 | helpful.  |
| 21 | A. Let's see, if  |
| 22 | EXAMINER STOGNER: I believe                               |
| 23 | THE WITNESS: Okay, this would be Carlton Avenue,          |
| 24 | and we're in between Carlton                              |
| 25 | Q. (By Mr. Kellahin) Carlton Avenue would be on the       |
| L  |   |

|    | 40  |
|----|---|
| 1  | east side of the well site?                               |
| 2  | A. Yes, and on the west of the well site is               |
| 3  | McCormick Road.   |
| 4  | Q. Okay. And on the south side of the well site is        |
| 5  | the What is that? The Bloomfield highway?                 |
| 6  | A. That's a prominent If you can locate the               |
| 7  | McCormick School, with fields around it, we're south and  |
| 8  | east from there, directly north of the irrigation ditch.  |
| 9  | MR. KELLAHIN: All right, I think that's as                |
| 10 | accurate as you can show it on the photograph. Thank you, |
| 11 | Ms. Colby.  |
| 12 | MR. KELLAHIN: Mr. Examiner, that completes my             |
| 13 | presentation of Ms. Colby's testimony.                    |
| 14 | We would move the introduction of her Exhibits 1          |
| 15 | through 19, plus the areal photograph, which is marked as |
| 16 | Exhibit 1A.   |
| 17 | EXAMINER STOGNER: Exhibits 1 through 19 will be           |
| 18 | admitted into evidence.                                   |
| 19 | EXAMINATION   |
| 20 | BY EXAMINER STOGNER:                                      |
| 21 | Q. Ms. Colby, what So that I understand, what is          |
| 22 | the next procedure with the City of Farmington's zoning   |
| 23 | concerning and I'm assuming just concerning the one well  |
| 24 | in the northeast quarter of the section; is that correct? |
| 25 | A. Both of our wells We have re-applied for the           |

|    | ¥1  |
|----|---|
| 1  | special use permit because of changes in footages.          |
| 2  | We had a problem. When we were originally given             |
| 3  | the city code on the wells, there was no mention of the     |
| 4  | 300-foot requirement from places of assembly. Our 15-2      |
| 5  | well, which is in the southeast quarter, our original       |
| 6  | location there was within the 300-foot range of a church.   |
| 7  | We changed our footages on that well prior to submitting    |
| 8  | our Applications to the Division.                           |
| 9  | So we don't have to ask for an amended that it              |
| 10 | be looked at, because our even though our footages          |
| 11 | changed after we applied for our special-use permit in      |
| 12 | Farmington, when we applied to the OCD we had our corrected |
| 13 | footages.   |
| 14 | We have Now that we have two Applications in                |
| 15 | to the City of Farmington, we will be going before the      |
| 16 | Planning and Zoning Commission on July 25th, which is an    |
| 17 | advisory board to the City Council made up of citizens. I   |
| 18 | believe it's composed of realtors, and there might be an    |
| 19 | appraiser or two in there.                                  |
| 20 | The Planning and Zoning Commission will hear our            |
| 21 | case and hear public comment on It then would go to the     |
| 22 | Oil and Gas Advisory Commission, and then their             |
| 23 | recommendations go back to the Planning and Zoning          |
| 24 | Commission for their review.                                |
| 25 | This is a new procedure that will be used for the           |
|    |   |

| 1  | first time. The Planning and Zoning, prior they felt        |
|----|---|
| 2  | that they were having to make a recommendation to City and  |
| 3  | Council without being able to have the benefit of hearing   |
| 4  | what the experts in the oil and gas side are recommending,  |
| 5  | and they wanted to be able to review their recommendations  |
| 6  | and have that knowledge before they will be making their    |
| 7  | recommendation to City Council.                             |
| 8  | Then the two advisory commissions make                      |
| 9  | recommendations to go to City Council, and the Council      |
| 10 | would review it.  |
| 11 | Q. Special Use Permit and Planning Commission, do           |
| 12 | they review a location? And should that location be moved,  |
| 13 | would it necessitate a whole re-hearing process and the     |
| 14 | whole works?  |
| 15 | A. The reason why you re-apply, if you have to move         |
| 16 | your location, is because there's a requirement that owners |
| 17 | within 100 feet of the tract where you're drilling need to  |
| 18 | be notified. And when we shifted our location on both of    |
| 19 | the wells, that brought new players into the 100-foot area. |
| 20 | So it needed to be readvertised and notification sent out.  |
| 21 | Most of the issues had been brought up and are on           |
| 22 | the table, and the basic facts are out, but because of      |
| 23 | property owners of adjacent tracts not being notified on    |
| 24 | the first round that now need to be notified, we are going  |
| 25 | through the application process again.                      |

EXAMINER STOGNER: Mr. Kellahin, I'd like to get 1 2 something on the record, and perhaps you might be the one to address such an issue. 3 Do you view -- or should this be viewed more as a 4 5 city limits -- or an issue within a city as a cooperative issue to get everybody's input, as opposed to a surface-use 6 restriction, something that puts surface use over mineral 7 interest? 8 I apologize for never having had 9 MR. KELLAHIN: the misfortune of having to permit one of these in the City 10 of Farmington. I know there are hundreds of wells in the 11 City of Farmington, and I simply was astonished to find out 12 from Ms. Colby that it had this incredible level of 13 14 complexity to what I thought would be a quickly resolved issue. 15 EXAMINER STOGNER: This appears to be more of a 16 cooperation, as opposed to a statutory obligation. Perhaps 17 this issue has not been taken to court before --18 MR. KELLAHIN: I assume it has. I think the City 19 certainly has requirements that we have to abide by in 20 terms of their zoning and use permits, and so I think we 21 have a dual obligation to satisfy you as a regulator and to 22 satisfy them, and we may have different answers ultimately. 23 I guess that opportunity exists. 24 EXAMINER STOGNER: With that, I'll let that stand 25

| 1 as is, then. |
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|----------------|

| 2  | Also, I was a little bit concerned about footage           |
|----|--|
| 3  | locations, and should the Commission or whoever, the       |
| 4  | planning board, recommend some other movement of this      |
| 5  | particular well, and then how could how would you          |
| 6  | say? the bureaucracy of all these changes, any change,     |
| 7  | how could this be incorporated from this point, as dealing |
| 8  | with the Oil Conservation Commission? Would this need to   |
| 9  | be issued, or is that a real danger that a location could  |
| 10 | be changed?  |
| 11 | MR. KELLAHIN: It's certainly been changed                  |
| 12 | before, Mr. Examiner. And I'm like you: I'd prefer to      |
| 13 | have the city approval first, before we come here. Ms.     |
| 14 | Colby advises me that they're relying on your expertise in |
| 15 | terms of waste and correlative rights for hydrocarbons, to |
| 16 | have the benefit of your decision before they finally      |
| 17 | decide.  |
| 18 | So it's a chicken-and-egg problem, and we don't            |
| 19 | know how to break out of the circle. We may have to come   |
| 20 | back if it gets changed and ask you to look at our         |
| 21 | amendment.   |
| 22 | EXAMINER STOGNER: Do you want to review that               |
| 23 | procedure for me? You're saying that any decision coming   |
| 24 | from this Commission or this Division will be taken        |
| 25 | to the Board at the next meeting?                          |

MR. KELLAHIN: That's my understanding, that if 1 the timing allows itself for you to decide this matter, by 2 the time I assume it's going to get to City Council, Mr. 3 Kemper [sic] seems intent on moving it in that direction. 4 We've been told that staff would appreciate knowing what 5 this regulatory body thinks should happen for this project. 6 EXAMINER STOGNER: Mr. Kellahin, I would 7 entertain, subsequent to this proceedings, any suggestions 8 that would make it easier upon Richardson Operating to 9 accommodate any move, or we wouldn't have to go through 10 this procedure, even perhaps lessening the notification 11 12 process, just because an unorthodox location has moved a few feet. 13 14 I certainly wouldn't want -- And I'm moving more toward a cooperative effort here, to make it easier upon 15 your company, should they require a small move. If it was 16 a large move, that might be something else. But a small 17 move, to be able to accommodate Richardson in the best way 18 possible and --19 MR. KELLAHIN: We would recommend this to you, 20 that you can see from the offset notice list for the well 21 22 location that it really is a very small list. It's Amoco and a couple of others. And if this moves to a more 23 unorthodox location, we'll do our best to get waivers from 24 those parties. 25

That's really what we were doing with the amended 1 Application. We think these people that were being force-2 3 pooled or interested in the downhole commingling should be here today to talk about those aspects. And when the case 4 is readvertised, we're truly looking at simply shifting it 5 towards offsetting operators, and we're encroaching 6 7 slightly more than we were originally. 8 I know Mr. Kemper [sic] has asked for more time. 9 I will be back on the 25th to see if he shows up and if he 10 has something to say. EXAMINER STOGNER: 11 I'll also entertain, perhaps, 12 should a location be moved that is closer to one of the offsets and making some sort of an abbreviated effort, not 13 through the hearing process but through an administrative 14 15 or an addendum to that order, to be done administratively, even by securing from whoever you're moving closer to, 16 notification procedure. 17 18 MR. KELLAHIN: That would be most helpful, and I appreciate that. It will take advantage --19 20 EXAMINER STOGNER: And I would even entertain, since we do have until the 25th, especially on the one up 21 to the north, perhaps even approach that offset operator 22 about what the situation is and what their tolerance level 23 would be in that, to incorporate and help out in any way a 24 25 small move.

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| 1  | MR. KELLAHIN: We   |
| 2  | EXAMINER STOGNER: I see this more as a                     |
| 3  | cooperative effort. Yes, I do question statutory efforts   |
| 4  | on cities to saying yea or nay on the drilling of a well.  |
| 5  | That is the state's or federal government's leasing        |
| 6  | authority or statutes in that matter.                      |
| 7  | MR. KELLAHIN: If I   |
| 8  | EXAMINER STOGNER: But that's not what I want to            |
| 9  | perceive this as. I want to perceive it as a how would     |
| 10 | you say? a cooperative effort in finding the best          |
| 11 | location available that's accommodating to the City of     |
| 12 | Farmington but yet doesn't encroach upon the correlative   |
| 13 | rights of others. And perhaps We've got a little time      |
| 14 | to address that issue.                                     |
| 15 | MR. KELLAHIN: I think it may be a drilling-                |
| 16 | window concept, where we say within the confines of this   |
| 17 | neighborhood we're looking at the possibility of a well    |
| 18 | within a certain window, notifying the offsets of the size |
| 19 | of the window and then having the flexibility to put the   |
| 20 | well somewhere in that window.                             |
| 21 | EXAMINER STOGNER: Yes. And perhaps, should                 |
| 22 | Richardson be fortunate in drilling another well in this   |
| 23 | area, perhaps that's how we can entertain any future       |
| 24 | applications. In fact, I think we did that on the          |
| 25 | Richardson-Amoco cases a few months ago.                   |

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| 1  | MS. COLBY: Uh-huh.   |
| 2  | MR. KELLAHIN: Yeah.  |
| 3  | EXAMINER STOGNER: There was a drilling window              |
| 4  | asked for, and that's how we addressed those locations.    |
| 5  | MR. KELLAHIN: And that's the same kind of                  |
| 6  | challenge they have here. I'm sure they're as frustrated   |
| 7  | as anybody has ever been frustrated, but drilling in the   |
| 8  | city is very complicated. You can see the abundance of     |
| 9  | title work that's required just to find these people. So   |
| 10 | it's an extraordinary effort, and I'm not sure many people |
| 11 | will want to do it.  |
| 12 | EXAMINER STOGNER: But it is necessary. You look            |
| 13 | at the other cities in New Mexico that do have it, make it |
| 14 | as easy upon the operators and those interested parties    |
| 15 | within the cities. I'm just essentially talking out loud   |
| 16 | and making sure this gets on the record too.               |
| 17 | I don't have any other questions of this witness           |
| 18 | at this time.  |
| 19 | MR. KELLAHIN: Okay.  |
| 20 | EXAMINER STOGNER: Mr. Kellahin, you also had               |
| 21 | mentioned about Mr. Alton Ward's presence here.            |
| 22 | MR. KELLAHIN: Yes.   |
| 23 | EXAMINER STOGNER: Is this more the nature of a             |
| 24 | land issue or a technical issue?                           |
| 25 | MR. KELLAHIN: Mr. Ward is here as a royalty                |

| 1  | owner. His property is already unleased. I should have      |
|----|---|
| 2  | asked Ms. Colby to help me identify his tract. It is shown  |
| 3  | on Exhibit Number 1. I believe it's up there in the         |
| 4  | northwest portion.  |
| 5  | MS. COLBY: It's Tract Number 12, which is due               |
| 6  | south of  |
| 7  | EXAMINER STOGNER: Tract number what? I'm sorry.             |
| 8  | MS. COLBY: Twelve.  |
| 9  | EXAMINER STOGNER: Twelve.                                   |
| 10 | MS. COLBY: If you look at the large yellow,                 |
| 11 | "Tract 50, 51", it's the one directly south of there.       |
| 12 | EXAMINER STOGNER: Okay, now, that's under Bob               |
| 13 | Ledbetter?  |
| 14 | MS. COLBY: That was the original lessor.                    |
| 15 | Predecessors-in-interest to Mr. Ward assigned tract         |
| 16 | number That Bob Ledbetter, et al., had about 15 or 20       |
| 17 | mineral owners sign that same lease form, of which Mr.      |
| 18 | Ward's predecessors-in-interest executed that particular    |
| 19 | lease.  |
| 20 | EXAMINER STOGNER: Okay. Since Mr. Ward has                  |
| 21 | traveled such a great distance, I want to make sure that    |
| 22 | your concerns are properly addressed and identified, and    |
| 23 | that was the reason I was asking Mr. Kellahin, would it be  |
| 24 | proper for him if he has any statement at this time on this |
| 25 | issue, perhaps a technical issue, or perhaps at the end of  |
|    |   |

| 1  | the hearing?  |
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| 2  | MR. KELLAHIN: I think he it might be helpful                |
| 3  | to him I can't speak for him, but it might be helpful to    |
| 4  | go ahead and let Ms. Delventhal present her technical case  |
| 5  | and then let Mr. Ward provide a statement if he cares to do |
| 6  | so at the end of the presentation.                          |
| 7  | As you can see, his property is well removed from           |
| 8  | the well site itself, and his interest is not being force-  |
| 9  | pooled; his interest is already subject to a lease.         |
| 10 | EXAMINER STOGNER: Okay, with that information               |
| 11 | and background, Mr. Ward, I am going to proceed with this   |
| 12 | hearing and let Mr. Kellahin present a technical witness,   |
| 13 | after which, if you'd like, you can make a statement at the |
| 14 | end.  |
| 15 | EXAMINER STOGNER: Mr. Kellahin, you may proceed.            |
| 16 | MR. KELLAHIN: All right.                                    |
| 17 | DANA DELVENTHAL,  |
| 18 | the witness herein, after having been first duly sworn upon |
| 19 | her oath, was examined and testified as follows:            |
| 20 | DIRECT EXAMINATION  |
| 21 | BY MR. KELLAHIN:  |
| 22 | Q. Would you please state your name and occupation?         |
| 23 | A. I'm Dana Delventhal, and I'm a petroleum engineer        |
| 24 | based out of Farmington, New Mexico.                        |
| 25 | Q. Ms. Delventhal, on prior occasions have you              |

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| 1  | qualified before the Division as an expert in petroleum    |
| 2  | engineering?   |
| 3  | A. Yes, I have.  |
| 4  | Q. And have you been employed by Richardson                |
| 5  | Operating Company to assist them with regards to these two |
| 6  | wells?   |
| 7  | A. Yes, I have.  |
| 8  | Q. On past occasions have you testified before the         |
| 9  | Division with regards to a Richardson case where they      |
| 10 | obtained Division approval to downhole commingle Fruitland |
| 11 | and Pictured Cliff production?                             |
| 12 | A. We have.  |
| 13 | Q. As part of your employment as a consultant, have        |
| 14 | you aided them with the commingling aspects of their 15-1  |
| 15 | well in the northeast quarter of Section 15?               |
| 16 | A. Yes, I have.  |
| 17 | Q. In addition, as part of your study, have you            |
| 18 | reviewed a geologic presentation made by Randy Miller      |
| 19 | concerning the geologic aspects of the case?               |
| 20 | A. Yes, sir.   |
| 21 | Q. And have you reached an opinion as to an                |
| 22 | appropriate risk factor penalty to apply against any       |
| 23 | nonconsenting working interest owner or unleased mineral   |
| 24 | owner in the two pooling cases?                            |
| 25 | A. We would recommend a standard 300-percent               |

| 1  | penalty.  |
|----|---|
| 2  | MR. KELLAHIN: We tender Ms. Delventhal as an                |
| 3  | expert witness, Mr. Examiner.                               |
| 4  | EXAMINER STOGNER: Ms. Delventhal is so                      |
| 5  | qualified.  |
| 6  | Q. (By Mr. Kellahin) Let's start with some of the           |
| 7  | loose ends. First of all, did you have an opinion or a      |
| 8  | recommendation concerning the overhead rates that Ms. Colby |
| 9  | has recommended to the Examiner be included in the two      |
| 10 | force-pooling cases?  |
| 11 | A. The overhead rates that are in the operating             |
| 12 | agreements that are the later exhibits, the last two, 28    |
| 13 | and 29, are normal for this area and these type of wells.   |
| 14 | They're well within the Ernst & Young boundaries for Rocky  |
| 15 | Mountain shallow gas wells.                                 |
| 16 | Q. Mr. Examiner has spent a lot of time looking at          |
| 17 | the surface ownership relationships. Let's turn to Exhibit  |
| 18 | 20 and show him where other wells are located in the area,  |
| 19 | and to do so would you help me identify and describe this   |
| 20 | Exhibit 20?   |
| 21 | A. Exhibit 20 is a nine-section plat showing our            |
| 22 | area of interest, being the east half of Section 15,        |
| 23 | outlined in red.  |
| 24 | Our proposed wells are the commingled yellow and            |
| 25 | orange, being the PC and Fruitland Coal in the northeast    |

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| 1  | and the PC stand-alone in the southeast corner.             |
| 2  | Most of the development in the past in this area            |
| 3  | is Dakota production. Most of the wells, original parent    |
| 4  | wells, were drilled in the early Fifties with infills in    |
| 5  | the early Eighties, once that was allowed.                  |
| 6  | There's very little long-term PC or Fruitland               |
| 7  | Coal production. Obviously, in the six sections on the      |
| 8  | west half there is none. On the east half there is four     |
| 9  | Fruitland Coal and one PC well, the PC being a newly        |
| 10 | completed well with no information.                         |
| 11 | So from a producing standpoint, most of the PC              |
| 12 | and Fruitland Coal production is further east of this       |
| 13 | particular section.   |
| 14 | Q. The Fruitland and PC production is further east          |
| 15 | than this section?  |
| 16 | A. Generally, yes.  |
| 17 | Q. All right, so we're on the western side of that          |
| 18 | development?  |
| 19 | A. That's correct.  |
| 20 | Q. Are these going to generally be low-volume, low-         |
| 21 | pressured reservoirs in both the Fruitland and the Pictured |
| 22 | Cliff?  |
| 23 | A. We're anticipating very low pressures, probably          |
| 24 | in the range of 200 p.s.i. bottomhole pressure.             |
| 25 | The volumes of gas production we would estimate             |
|    |   |

| the Pictured Cliffs to come in around 400 MCF per day,      |
|---|
| under compression. Fruitland Coal will be more than in the  |
| range of probably 250 to 100 MCF per day. It's fairly       |
| marginal.   |
| I'll refer to it in our next exhibit, but there's           |
| some geologic reasons, as well as the low reservoir         |
| pressure.   |
| Q. Let's talk about some of the geologic reasons            |
| that set the environment in which Richardson Operating      |
| Company proposes to drill these two wells.                  |
| If you'll turn with me to Exhibit 21 and identify           |
| what we're going to look at when we see this exhibit        |
| package.  |
| A. Exhibit 21 is a report we had asked a certified          |
| petroleum geologist to prepare concerning both the Pictured |
| Cliff and Fruitland Coal in this east half. We have his     |
| write-up and then also the exhibits that he drew his        |
| conclusions on. I can touch on them briefly.                |
| Q. Let's do that. Let's fold out the two-well               |
| cross-section, which is attached as his Exhibit A, and have |
| you help me understand what we're seeing.                   |
| A. Exhibit A is a north-south cross-section.                |
| Luckily, we have pretty good well control, because we'll be |
| drilling next to existing Conoco Dakota wells, which at     |
| least in the north half, they did log through the Pictured  |
|   |

Cliff and Fruitland Coal. 1 This north-south cross-section shows that the 2 Pictured Cliff sand is fairly thick and well developed. 3 We're looking at probably 40 to 50 feet of net pay within 4 the Pictured Cliff, and it's fairly consistent. 5 The Fruitland Coal, however, gets a little bit --6 even -- This is within half a mile. You can see there's a 7 large variation in the thickness of the Fruitland Coal. 8 9 The north part of the section exhibits about 20 feet of 10 Fruitland Coal, and down to the south it narrows down to about six feet. 11 12 ο. Do you have any opinion with regards to why 13 operators have not chosen to explore for the Pictured Cliff 14 in this particular area? They drill for the Dakota. Why haven't people gone for the Pictured Cliff? 15 At the time that the Dakota development took 16 Α. 17 place in the early Sixties, the Pictured Cliff sand was there and was available. However, being low pressure, it 18 certainly wasn't attractive at that time, or a primary 19 20 goal. 21 Now, as we've gone in and done more intense 22 development over the years, we've found that the low 23 pressuring of Pictured Cliffs can still make an economic well under compression scenarios. 24 25 ο. That forms the basis, then, for your

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| 1  | recommendation of a 200-percent risk factor for the         |
| 2  | Pictured Cliff?   |
| 3  | A. That's correct.  |
| 4  | Q. Because we're going to get a low-pressure, low-          |
| 5  | volume reservoir that you have to be very careful about     |
| 6  | your expenses and how you manage your operating costs?      |
| 7  | A. Correct. Unfortunately, trying to drill within           |
| 8  | the city limits has some cost problems associated, so the   |
| 9  | cost of even a shallow well goes up significantly. If you   |
| 10 | were to be off by 50 p.s.i., you're losing a quarter of     |
| 11 | your reserves. It's a bit touchy.                           |
| 12 | Q. When you look at the opportunity for the coal            |
| 13 | production, do you also have an opinion that that           |
| 14 | represents a 200-percent risk?                              |
| 15 | A. I believe so. As I mentioned, there is a little          |
| 16 | bit of Fruitland Coal developed to the east, but at this    |
| 17 | point it's new development. We're not sure what sort of     |
| 18 | reserves that coal is going to develop.                     |
| 19 | Based off of analogy and corollaries to other               |
| 20 | coal wells in the area further east and to coal             |
| 21 | thicknesses, we would estimate it should be about a half-a- |
| 22 | BCF well for the coal formation.                            |
| 23 | Q. Do you concur in the statements made by Mr.              |
| 24 | Jennings this morning for Meridian? You know, he's looking  |
| 25 | for coal gas production for Meridian, and coal thickness is |

| 1  | not a real important criteria for him.                      |
|----|---|
| 2  | A. It would depend on You know, the coal is so              |
| 3  | different in different areas. Here we're looking at more    |
| 4  | of a typical reservoir-type response. It's not high         |
| 5  | permeability, therefore coal thickness has a direct play on |
| 6  | gas in place.   |
| 7  | Q. And here   |
| 8  | A. He's looking at fracture plays where thickness is        |
| 9  | not a primary factor.                                       |
| 10 | Q. And he was up in 40 and 56 feet of thickness, and        |
| 11 | you're down to what? Fourteen to 15 feet?                   |
| 12 | A. At best, yes.  |
| 13 | Q. So there is a substantial element of risk in             |
| 14 | obtaining a coal gas well that will be economic?            |
| 15 | A. Correct.   |
| 16 | Q. All right. Let's talk about the concept that the         |
| 17 | 15-1 well, the dual-completed well the downhole-            |
| 18 | commingled well, downhole commingled with the PC and the    |
| 19 | Fruitland Coal. What's the argument for doing that?         |
| 20 | A. The Fruitland Coal as a stand alone with a half a        |
| 21 | BCF of reserves would be uneconomic to drill as a separate  |
| 22 | wellbore, which gives us a choice if we want to go after    |
| 23 | those potential reserves, two choices. One would be to      |
| 24 | dual complete the well, and the other being to downhole     |
| 25 | commingle it.   |

| 1  | In this area, it's a bit odd, but the Pictured             |
|----|--|
| 2  | Cliffs is water-productive. It will produce anywhere from  |
| 3  | 40 to 100 barrels of water per day, so it is not a good    |
| 4  | candidate to complete uphole in the Fruitland Coal with a  |
| 5  | packer and try to efficiently produce the Pictured Cliffs. |
| 6  | We would be hurting that formation, were we to do so.      |
| 7  | For that reason, downhole commingling is the               |
| 8  | perfect choice. One, you do get a choice to recover those  |
| 9  | reserves. The formations are similar in nature and depth,  |
| 10 | in gas quality, in reservoir pressure. Other than name,    |
| 11 | there is very little difference between the products.      |
| 12 | Q. Let's turn and have you identify for me what is         |
| 13 | marked as Exhibit 22.                                      |
| 14 | A. Exhibit 22 is a map that shows the four standard        |
| 15 | drilling locations within the northeast quarter for a      |
| 16 | Pictured Cliffs and Fruitland Coal well. The black star is |
| 17 | an indication of Conoco's location, and the red dot is our |
| 18 | currently staked proposed location.                        |
| 19 | Again, this area is heavily developed. The                 |
| 20 | southeast quarter is really the only tract that we could   |
| 21 | drill in.  |
| 22 | Q. The yellow indicates what, now?                         |
| 23 | A. The yellow is land that is leasehold to or              |
| 24 | surface owned and available for a well to be placed on it. |
| 25 | The green indicates mineral tracts in which there is no    |

1 surface occupancy allowed. 2 Ideally --And the white would represent available tracts, 3 Q. but they're not under -- I misunderstood. What's the 4 5 point? The yellow is land owned by Mr. Kempton, the 6 Α. lessor of the tract on which we're drilling. 7 I'm with you. 8 0. And the white are other potential locations, but Α. 9 they are generally buildings and businesses for roads. 10 The ideal location to put it would be, of course, 11 in the middle of Mr. Kempton's field. We could squeeze on 12 the east side of a legal drilling location. But of course, 13 14 he has requested that we not do so. 15 Although Mr. Kempton does not want a well on his 16 land, he was with us when we restaked the well in its 17 current location and agreed that it would be the least offensive of the possible locations that we had to choose 18 from. 19 20 Let me ask you to identify for the Examiner Q. Exhibit 23. 21 This case is very similar to a case that was 22 Α. 23 heard in 1994. We were granted an order, R-10,231, and it's concerning the downhole commingle of a Pictured Cliff-24 Fruitland Coal well that is actually about three miles east 25

of here. 1 Most of the testimony will show that this is a 2 good reference case for this downhole commingle 3 4 Application. The wells, the rates, the reservoir pressures 5 are all anticipated to be very similar to this case. 6 0. When you go through the criteria for downhole 7 commingling, in your opinion, will approval of the 15-1 well satisfy all the criteria for commingling? 8 I believe it will. Α. 9 The pressure differentials, the fluid 10 0. compatibilities, all those kinds of issues? 11 That's correct. 12 Α. Let's turn now to the specifics of what you 13 ο. anticipate for the 15-1 well. If you'll look at Exhibit 24 14 with me --15 16 Α. Okay. 17 Ο. -- show us what we're seeing here. Although it's fairly repetitious, because the 18 Α. 19 reference case has similar-type exhibits, I did do an 20 estimated bottomhole pressure that we anticipate to see in 21 this east half, and basically for the Fruitland Coal we're expecting about 205 pounds, and for the Pictured Cliffs 236 22 23 p.s.i. All right. So you're going to be well below the 24 Q. original bottomhole pressure of the lowest-pressured 25

| 1  | reservoir?  |
|----|---|
| 2  | A. Yes  |
| 3  | Q. All right.   |
| 4  | A and they're well within the 50-percent                    |
| 5  | Q. Okay. Let's turn to Exhibit 25 and have you              |
| 6  | identify and describe that display.                         |
| 7  | A. Both Exhibits 25 and Exhibits 26 are a gas               |
| 8  | analysis of produced gas. This shows that for both the      |
| 9  | Pictured Cliffs and the Fruitland Coal, the primary         |
| 10 | component is methane with very small percentages of         |
| 11 | lighter, heavier ends. The gas is compatible. Both          |
| 12 | formations produce water, and it's of the same type of      |
| 13 | quality, fairly fresh.                                      |
| 14 | So we don't anticipate any damage due to                    |
| 15 | commingled fluids.  |
| 16 | Q. Let's turn to the allocation procedures, if              |
| 17 | you'll look at Exhibit 27 with me.                          |
| 18 | A. I prepared Exhibit 27, which is an extension of a        |
| 19 | common allocation formula, used in this area by many        |
| 20 | operators, and which was used in our reference case.        |
| 21 | The actual formula cannot be determined until               |
| 22 | after the individual formations have been completed and     |
| 23 | tested. Some of the information that goes into the          |
| 24 | allocation formula is both the reservoir pressures actually |
| 25 | found, initial production rates actually tested, and also   |

| 1 if there's significant differences in net pay or porosity, 2 those figures would be taken into account also. 3 But the general method of doing the allocation 4 formula is to use Pictured Cliffs producibility over time, 5 which is fairly well documented, determine the initial 6 production rate and initial reservoir pressure, and provid 7 a historic expectation of what Pictured Cliff production 8 would be. And then at that point, any additional 9 production ahead and above that expectation would be |   |
|---|---|
| But the general method of doing the allocation<br>formula is to use Pictured Cliffs producibility over time,<br>which is fairly well documented, determine the initial<br>production rate and initial reservoir pressure, and provid<br>a historic expectation of what Pictured Cliff production<br>would be. And then at that point, any additional  |   |
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| 7 a historic expectation of what Pictured Cliff production<br>8 would be. And then at that point, any additional  | e |
| 8 would be. And then at that point, any additional  |   |
|   |   |
| 9 production ahead and above that expectation would be  |   |
|   |   |
| 10 contributed to the Fruitland Coal formation.   |   |
| 11 Q. Again, that's a conventional method that's been   |   |
| 12 used by Richardson and Amoco and Meridian and other  |   |
| 13 operators for commingling purposes?  |   |
| A. That's correct, and it takes into account, or at   |   |
| 15 least takes out a little level of uncertainty, where the   |   |
| 16 Fruitland Coal can be very erratic in the first few years  |   |
| 17 before it gets on to a long-term decline curve.  |   |
| 18 And instead of doing just a by-the-book 75-25  |   |
| 19 split forever, this would be a little bit more particular  |   |
| 20 to the formations involved.  |   |
| 21 Q. We're going to have spacing units that the  |   |
| 22 ownerships differ  |   |
| 23 A. That's correct.   |   |
| 24 Q between the PC and the Fruitland, and this   |   |
| 25 particular formula is as accurate and reliable a method as   |   |

| 1  | we could use so that everybody gets their fair share of     |
|----|---|
| 2  | production from the appropriate reservoir?                  |
| 3  | A. It's our best estimate.                                  |
| 4  | Q. Okay. And this is your recommendation as the             |
| 5  | allocation formula of first choice for adoption in this     |
| 6  | case?   |
| 7  | A. Yes, it would be.  |
| 8  | MR. KELLAHIN: Mr. Examiner, that concludes my               |
| 9  | examination of Ms. Delventhal.                              |
| 10 | I move the introduction of her Exhibits 20                  |
| 11 | through 27.   |
| 12 | EXAMINER STOGNER: Exhibits 20 through 27 will be            |
| 13 | admitted into evidence.                                     |
| 14 | EXAMINATION   |
| 15 | BY EXAMINER STOGNER:  |
| 16 | Q. Ms. Delventhal, in looking at Exhibit Number 27,         |
| 17 | and also you can pull Exhibit Number 23 and go to Exhibit   |
| 18 | A, that attachment, if you look down toward the bottom of   |
| 19 | both pages in the "Where" section, about the Pictured       |
| 20 | Cliffs estimated ultimate recovery                          |
| 21 | A. Uh-huh.  |
| 22 | Q right below there, there's a P* factor.                   |
| 23 | Now, in Exhibit A of the Order, it was a 0.84-              |
| 24 | MMCF-per-p.s.i. figure, but in yours, on Exhibit Number 27, |
| 25 | it shows to be a 9.5. That's a quite a significant          |

| 1  | difference there.   |
|----|---|
| 2  | A. Okay. The P* is 9.5 MMCF per p.s.i. recovery             |
| 3  | factor.   |
| 4  | I believe the one that we're looking at, at                 |
| 5  | Exhibit A, where P* is 0.84, is multiplied by that recovery |
| 6  | factor.   |
| 7  | The P* is determined, as best we can, from                  |
| 8  | porosities and thicknesses. And we made our best estimate   |
| 9  | of total reserves for the Pictured Cliffs, and then based   |
| 10 | off of IP and decline you would get well life estimated,    |
| 11 | which is the T in months where that falls into the          |
| 12 | equation.   |
| 13 | Again, what we generally do is, after the well is           |
| 14 | drilled and we have logs and test rates we resubmit this    |
| 15 | exhibit with specific numbers for the well, as opposed to   |
| 16 | just an estimate of what that figure might be. This just    |
| 17 | shows how that sample would be calculated.                  |
| 18 | But in this case we're expecting probably close             |
| 19 | to 2 BCF in reserves, as total production for the Pictured  |
| 20 | Cliffs, which is the last page of Exhibit 27. And based     |
| 21 | off of our estimated reservoir pressure of 241 p.s.i., you  |
| 22 | back into your factor. Again, the initial production rate   |
| 23 | of roughly 400 MCF per day may or may not be accurate. And  |
| 24 | again, those particular figures will be recalculated as     |
| 25 | soon as they're known.                                      |

Now, you're requesting a 200-percent maximum risk 1 Q. penalty factor, but there's only been a couple of occasions 2 that I know of where that has been issued on coal gas, and 3 4 usually because of special circumstances, and I'm still a little bit unclear of what special circumstances that 200 5 6 percent, as opposed to a 156-percent that covers most compulsory poolings in the coal gas, is active here as 7 opposed to the majority of the others. 8 Α. I believe the standard 156 percent is a standard 9 factor, factoring out the costs which are associated with 10 the wellbore tubulars and the materials and the facilities 11 and those type costs which are basically not subject to 12 risk to the extreme that a reservoir-type aspect would be. 13 In this case, more of our costs associated with 14 the Fruitland Coal are intangible. There's certainly the 15 cost that will go into the well AFE for the legal and the 16 title and that sort of thing. 17 We do have a little bit of geology risk, which, 18 19 depending on where you're drawing the Fruitland Coal in the Basin, may or may not be an issue. We're on the west side 20 of Fruitland Coal development. There is some geologic 21 reason to assume that that is tapering off. Whether it 22 does in our wellbore is -- In our opinion, we think we will 23 24 encounter Fruitland Coal production and plan on completing

But those -- that net thickness is up to some 25 it.

1 question. And the primary problem with the Fruitland Coal 2 3 in this area is the very low pressure. We're looking at starting at about 200 p.s.i., and it will be very sensitive 4 to maintaining as low wellhead pressure through compression 5 as possible, to maintain those production rates and to 6 7 develop those reserves. EXAMINER STOGNER: I have no other questions, Mr. 8 Kellahin. 9 10 Do you have anything? MR. KELLAHIN: Mr. Examiner, I neglected to 11 introduce Exhibits 28 and 29. They are included as a 12 sample of the operating agreement that Richardson is 13 14 utilizing. It shows the overhead rates and is a standard-15 form operating agreement. 16 So with the introduction of Exhibits 28 and 29, 17 that completes our presentation. EXAMINER STOGNER: Take notice of Exhibits 28 and 18 19 29 as being admitted. It is my understanding, or it appears that I can 20 take that first case, being Case Number 11,569 -- I'm 21 sorry, let me go back and take care of a few issues here. 22 Mr. Ward, would you like to make a statement at 23 this time? 24 25 MR. WARD: Mr. Examiner, I --

|    | 07  |
|----|---|
| 1  | EXAMINER STOGNER: Why don't you come on up here?            |
| 2  | You don't have to Sit there if you'd like, or if you'd      |
| 3  | like to stand by Mr. Kellahin so the court reporter can see |
| 4  | you.  |
| 5  | MR. WARD: This has been my first experience at a            |
| 6  | hearing of this nature, and I had a lot of questions.       |
| 7  | Really, I was curious as to what this procedure was and     |
| 8  | also how it might affect us as a property owner, and I      |
| 9  | think all of my questions have been satisfied. I have no    |
| 10 | other questions.  |
| 11 | EXAMINER STOGNER: Okay. Thank you, Mr. Ward.                |
| 12 | Appreciate your time coming up, and hopefully this was some |
| 13 | assistance to you and                                       |
| 14 | MR. WARD: Thank you.  |
| 15 | EXAMINER STOGNER: With that, I'm ready to take              |
| 16 | Case Number 11,569 under advisement.                        |
| 17 | MR. KELLAHIN: Yes, sir, that one's all done.                |
| 18 | EXAMINER STOGNER: That one's all done, and an               |
| 19 | order can be issued subsequent to today.                    |
| 20 | However, Case Number 11,570 will need to be                 |
| 21 | readvertised for the location issue and at which time,      |
| 22 | Mr. Kellahin, I don't see at this point where it will be    |
| 23 | necessary for any further testimony. However, that could    |
| 24 | change, as you know, should other parties come in at that   |
| 25 | time.   |

Inasmuch as the Zoning Committee is relying on an 1 order from this agency, I don't know if that will even be 2 possible, since their hearing is the same day. 3 MR. KELLAHIN: Yes, sir. 4 EXAMINER STOGNER: I don't know if that's going 5 to be at night or during the daytime. But if you have any 6 suggestions to make this an expedient process, to assist 7 them, I would be more than happy to entertain it. 8 Also, I would also request that you submit me a 9 rough draft order, especially in Case 11,570, so perhaps we 10 can call that the first thing at the hearing of that day 11 and, if nobody is here, take it under advisement, get a 12 signature on it and perhaps fax it to them. Maybe that 13 14 might be of some assistance to us and them. 15 So with that, it looks like we can continue that 16 case and adjourn the hearing today. 17 MR. KELLAHIN: All right, sir. Thank you, Mr. Examiner. 18 19 EXAMINER STOGNER: Thank you. (Thereupon, these proceedings were concluded at 20 1:08 p.m.) 21 the foregoing is . 1877 - L. H. , the proceedings in Nos. 11569 N. 11570 22 1996 del. 23 Examine 24 OH Conservation Division 25

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## CERTIFICATE OF REPORTER

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

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

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

WITNESS MY HAND AND SEAL July 18th, 1996.

STEVEN T. BRENNER CCR No. 7

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My commission expires: October 14, 1998