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Order No 1-127

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1 BEFORE THE COLORADO OIL AND GAS CONSERVATION COMMISSION

2 STATE OF COLORADO

3 Cause No. 21

4 Docket No. 5-4

ORIGINAL

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7 REPORTER'S TRANSCRIPT OF HEARING

8

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10 PUBLIC HEARING IN THE MATTER OF

11 DOUGLAS CREEK FIELD, RIO BLANCO COUNTY

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15 The hearing in this matter commenced on Monday,

16 May 18, 1992, at the State Education Building, Room 101,

17 201 East Colfax, Denver, Colorado 80203, at 11:00 a.m.

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COMMISSION MEMBERS

RECEIVED

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TRUMAN ANDERSON, Chairperson

OCT 1 1992

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LOGAN MacMILLAN

COLO. OIL & GAS CONS. COMM

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JOHN CAMPBELL

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MARTIN BUYS

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A P P E A R A N C E S

FOR THE APPLICANT, WILLIAM G. ODELL, ESQ.  
CONOCO, INC.:

FOR THE PROTESTANT, STEPHEN J. SULLIVAN, ESQ.  
DKM RESOURCES, INC.:

COMMISSION STAFF: DENNIS BICKNELL  
Director

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By Mr. Odell

By Mr. Sullivan

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Examination by Commissioner Buys

Examination by the Chairperson

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1 DENVER, COLORADO - MONDAY, MAY 18, 1992 - 11:00 a.m.

2

3 CHAIRPERSON: Cause No. 1, Docket No. 5-4, the Douglas  
4 Creek Field in Rio Blanco County. The Applicant is Conoco,  
5 through their attorney William Odell.

6 It's a request to allow a well to be drilled in an  
7 exception location 2,380 feet from the south line and 60 feet  
8 from the west line in the Northwest Quarter of the Southwest  
9 Quarter of Section 31, Township 2 South, Range 101 West, for  
10 production from the Mancos "B" Formation, and the Application  
11 has been protested by DKM Resources, through their attorney  
12 Stephen Sullivan.

13 Why don't we start with taking appearances.

14 MR. ODELL: Yes. For the record I am Bill Odell. I  
15 represent Conoco, Inc. in this matter.

16 MR. SULLIVAN: I'm Steve Sullivan. I represent DKM  
17 Resources, Inc.

18 CHAIRPERSON: It would help me if both of you would do,  
19 even if it's just one paragraph, an opening statement as to what  
20 you want to do, what you're going to show.

21 MR. ODELL: Yes, Mr. Chairman.

22

23 OPENING STATEMENT

24 BY MR. ODELL:

25 On behalf of Conoco, Inc., this is an Application for

1 a location exception. What we have involved here are two  
2 Federal units -- Douglas Creek Unit on the south, bounded  
3 immediately on the north by Little Dragon Trail Unit. These are  
4 both Federal sites.

5 Under Rule 318 of this Commission, wells at a depth  
6 less than 2,500 feet must be located at least 200 feet from the  
7 outer boundaries of any of the lines of any Federal unit.

8 The well, which is the subject of this Application here  
9 today, is to be drilled to and produced from the Mancos "B", like  
10 in Baker, Formation, which is found in this area at a depth of  
11 less than 2,500 feet.

12 So, under Rule 318, we are required to have a 200-foot  
13 setback. As you can see on this map, our well is going to be  
14 located where the two units come together. You can see this  
15 survey, anonymous survey situation, that leaves that little ear  
16 sticking up, offsetting sections. We come within the 200-foot  
17 tolerance to the north. We are having to crowd the Little Dragon  
18 Trail Unit to the east. In fact, the location would be 60 feet  
19 east of the boundary line of the unit.

20 The reason for our request is very simple: Topography.  
21 As the evidence will show, we have some pretty outstanding  
22 topography out there. It looks real pretty on postcards, but  
23 it's not very good for drill site locations.

24 I think our evidence is going to show that it's  
25 necessary to drill this well to recover gas that won't otherwise

1 be recovered without the well.

2 CHAIRPERSON: Mr. Sullivan?

3

4 OPENING STATEMENT

5 BY MR. SULLIVAN:

6 Mr. Commissioner, basically there's a disagreement in  
7 this matter on what the drainage of these wells are. Based on  
8 the information that we've got, the existing wells in this area  
9 are sufficient to drain the area that would be drained by the  
10 proposed well.

11 The area has just recently been infilled from 160's  
12 to 80's within the last three or four years, and at that time  
13 the parties determined that the 80's would actually accelerate  
14 production rather than increase the total amount of reserves  
15 recovered, we think, in effect, going from 80's to 40's,  
16 typically in an area where you're going to have problems of  
17 allocation on unit boundary when it hasn't been done on the rest  
18 of the unit is a bit hasty, and we feel in view of the fact that  
19 it appears upon the evidence we have that it's -- this -- these  
20 reserves would be drained, then we think that the well at this  
21 time is unnecessary.

22 I'd also like to request that we could possibly move  
23 the easel back, because if those folks are going to be standing  
24 on this side, we won't be able to see it at all.

25 CHAIRPERSON: Whatever works for you.

1 MR. ODELL: I was going to request leave of the  
2 Commission to cross examine my witness from that point over  
3 there, just so I could see it, because I think it's important  
4 that the Commission see some of these larger exhibits up fairly  
5 close.

6 It's very graphic in making our case.

7 CHAIRPERSON: All right.

8 MR. ODELL: Is this satisfactory?

9 MR. SULLIVAN: If they stand off to the side, yeah,  
10 or they stand it off to the other side of the exhibit, they  
11 wouldn't blocking us.

12 CHAIRPERSON: Mr. Odell.

13 MR. ODELL: Yes, sir. I request leave of the Commission  
14 to conduct my direct examination from over there, if I may.

15 CHAIRPERSON: Please do.

16 MR. ODELL: I have two witnesses I'd like to have  
17 sworn at this time: Ms. Julie D. Crumpler and David Pellatz.

18 CHAIRPERSON: All right. Would you both please state  
19 your name for the record.

20 MS. CRUMPLER: Julie Crumpler, 2107 South Mitchell,  
21 Casper, Wyoming.

22 MR. PELLATZ: David Pellatz, 3105 South Poplar,  
23 Casper, Wyoming.

24 CHAIRPERSON: Okay. Please raise your right hands.

25 (Continued)

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JULIE D. CRUMPLER

and

DAVID W. PELLETZ

witnesses on behalf of the Applicant, were duly sworn.

MR. ODELL: I would like to call as our first witness,  
Ms. Julie Crumpler.

JULIE D. CRUMPLER

a witness on behalf of the Applicant, having been first duly  
sworn, testified as follows:

DIRECT EXAMINATION

BY MR. ODELL:

Q Please state your name and your profession for the  
record.

A Julie Crumpler, and I'm a landman with Conoco.

Q Have you prepared a resume of your work experience  
and educational background to submit to the Commission?

A Yes, I have.

Q Has that been submitted?

A It should be submitted at this point.

Q Ms. Crumpler, what is your position with the Applicant?

A I'm a landman with Conoco.

Q And in your land work with Conoco, have you worked in

1 the Douglas Creek area?

2 A. Yes, I have.

3 Q. Are you familiar with both Douglas Creek and the Dragon  
4 Trail Units?

5 A. Yes, I am.

6 Q. You have not previously testified before this  
7 Commission as an expert in the field of petroleum land  
8 management?

9 A. No, I have not.

10 Q. Would you briefly tell the Commission what your work  
11 experience in this area as a landman has been?

12 A. I've been working in the Douglas Creek Arch Area for  
13 the last two years, which is my entire employment with Conoco,  
14 and my experience in the area has included not only lease review  
15 but expansion requirements, acquisitions in the area, and just  
16 general inquiry into all the agreements that govern this area.

17 Q. And are you directly involved in the land work that  
18 led up to the proposed drilling of this subject well?

19 A. Yes, I am.

20 MR. ODELL: I would like to propose that the witness  
21 be qualified as an expert witness in the field of petroleum land  
22 management.

23 CHAIRPERSON: And the witness has had two years'  
24 experience?

25 MR. ODELL: Yes, sir.

1 CHAIRPERSON: As a landman?

2 MR. ODELL: Her testimony will not be opinion testimony.  
3 It's going to be fact testimony, so if there's any hesitancy to  
4 qualify her as an expert, I would just let her testify as a  
5 witness.

6 CHAIRPERSON: All right. I think we can accept her as  
7 an expert, understanding that she's had two years' experience in  
8 the area.

9 Q (By Mr. Odell) Ms. Crumpler, have you prepared what's  
10 marked as Applicant's Exhibit Number 1?

11 A. This exhibit was prepared under my supervision.

12 Q Please tell the Commission what is shown on that  
13 exhibit.

14 A. What that exhibit is presenting is the Douglas Creek  
15 Unit and the Dragon Trail Unit, and what I'm going to do with  
16 the pointer is outline the unit for Douglas Creek so everyone can  
17 get a better view of it.

18 It comes over here (indicating), and as I come up on  
19 this side, you can tell that the Dragon Trail Unit is on the  
20 western side, and that represents the outline of the Douglas  
21 Creek Unit, Dragon Trail Unit north.

22 Q Is Conoco the operator of the Douglas Creek Unit?

23 A. Yes, we are.

24 Q And insofar as the Mancos "B" Formation is concerned,  
25 does Conoco own the full working interest in the unit?

1 A. Yes, we do.

2 Q. What about the Dragon Trail Unit?

3 A. The Dragon Trail Unit, Conoco is the operator, and we  
4 have approximately 76 percent working interest in that unit.  
5 The remainder is with DKM, and then a minor portion is with  
6 Celcius.

7 Q. What about the ownership of the minerals and royalty  
8 underlying both units?

9 A. The Federal Government.

10 Q. So the Federal Government is the owner of the royalty  
11 on both sides of the unit boundary?

12 A. That's correct.

13 Q. Will you identify for the Commission the location of  
14 the exception well on that map.

15 A. Number 65.

16 Q. Is that well in an area that is marked by a survey  
17 offset where the sections are offset slightly?

18 A. Yes.

19 MR. ODELL: I would like to offer Exhibit Number 1  
20 into evidence.

21 CHAIRPERSON: It is admitted.

22 (Applicant's Exhibit 1 was admitted into  
23 evidence.)

24 MR. ODELL: I have no further questions of this  
25 witness.

1 CHAIRPERSON: Mr. Sullivan:

2 MR. SULLIVAN: No questions.

3 CHAIRPERSON: Questions from the Commission?

4

5

EXAMINATION

6 BY COMMISSIONER BUYS:

7 Q How many other wells has Conoco drilled here in the  
8 last couple of years?

9 A I'd have to defer that to Dave Pellatz.

10 Q Have they drilled other wells here in the last two  
11 years?

12 A Yes, we have. And in fact, for our 1992 drilling  
13 program, Number 56 is one of seven proposed wells, and I've  
14 also had these plotted on this exhibit, and we can go through  
15 them: Number 57, 55, 50, 49, 51, and 54, so that it's one of  
16 seven of our drilling programs for 1992.

17 MR. BUYS: Thank you.

18

19

EXAMINATION

20 BY THE CHAIRPERSON:

21 Q You said that Celcius also owns an interest in the  
22 Dragon Trail Unit?

23 A Yes, they do. Their interest is -- you don't have a  
24 full picture of the Dragon Trail Unit. You just have the part  
25 where it brushes up against the Douglas Creek Unit.

1           The Celcius interest in Dragon Trail Unit is to the  
2 far western part of the unit, and they have -- I think it's a  
3 160-acre tract in a 10,000-acre unit.

4           Q.     So they have no interest in the area in question today?

5           A.     No. Right. Their lease is way on this side of the  
6 unit (indicating).

7           CHAIRPERSON: Mr. Odell, anything else?

8           Okay. Thank you.

9           MR. ODELL: I would like to call as my next witness  
10 Mr. David Pellatz.

11  
12                           DAVID W. PELLATZ

13 called as a witness on behalf of the Applicant, having been  
14 previously duly sworn, testified as follows:

15  
16                           DIRECT EXAMINATION

17 BY MR. ODELL:

18           Q.     Please state your name and your profession.

19           A.     My name is David Pellatz. I'm a petroleum engineer  
20 working for Conoco, Inc.

21           Q.     Have you previously testified before this Commission  
22 as an expert in the field of petroleum engineering?

23           A.     No, I have not.

24           Q.     Have you prepared for this Commission a resume of your  
25 educational background and work experience?

1 A. Yes, I have.

2 Q. I would like for you to briefly summarize for the  
3 Commission what that has been.

4 A. My involvement in this area, the Douglas Creek  
5 Application, including the Douglas Creek Unit, began basically  
6 the mid-part of 1986.

7 Through the drilling that we've had out here, there  
8 was a question earlier to the drilling we started in 1988. I was  
9 involved in both picking the locations and then doing the  
10 completion work for the 30 wells that were drilled in the  
11 Douglas Creek Unit from 1988.

12 In 1989 I participated in the project planning again,  
13 up and through the completion of the wells for 44 wells in the  
14 Dragon Trail Unit.

15 Since that point I spent a couple of years in Houston  
16 working in our gas product group, again involved with the gas  
17 processing side of the Dragon Trail Area.

18 I've been back in Casper for approximately four or five  
19 months and again am working on the Douglas Creek Area in the  
20 area of both reservoirs, doing reserve determinations, et cetera,  
21 as well as regulatory matters.

22 Q. Is the development program in the Douglas Creek Unit  
23 at least partially under your supervision and control?

24 A. The 1992 drilling program, I've provided information  
25 on, and yes, it is partially under my supervision.

1 Q I see from your resume that you have degrees in both  
2 petroleum engineering and geology.

3 A That is correct.

4 Q Are you a member of any professional associations?

5 A Yes. I'm a current member of the Society of Petroleum  
6 Engineers.

7 Q Have you testified as an expert before any other  
8 administrative bodies?

9 A No, I have not.

10 Q A copy of your resume has been submitted to the  
11 Commission?

12 A Yes, it has.

13 MR. ODELL: I would like to move his admission as an  
14 expert in the field of petroleum engineering.

15 CHAIRPERSON: His qualifications are accepted.

16 Q (By Mr. Odell) Mr. Pellatz, have you prepared what is  
17 marked as Exhibit Number 2 for submission to this Commission?

18 A Yes, I have. I'll be going back to Exhibit Number 1  
19 in just a moment, but I wanted to set the stage a little bit on  
20 Exhibit Number 2.

21 Hopefully -- I know that the copy was rather small in  
22 your hand-out, but we've enlarged the topo map for this part of  
23 the area of interest.

24 The unit that you see, this magenta line that runs  
25 across the dividing page here, is the dividing line between the

1 Douglas Creek Unit to the south and the Dragon Trail Unit to the  
2 north.

3 The proposed location, again, is this red circle  
4 located here at Douglas Creek Number 56 (indicating). You can  
5 see up there.

6 Perhaps you can see up to the top. The green boundary  
7 around that is the actual site of the well pad itself, where  
8 the red circle represents the actual well. The contour lines  
9 on this map here where I've highlighted it in the red are  
10 ten-foot contour lines.

11 The purple here (indicating) that you can see denotes  
12 a 50-foot contour line. As we go through the series of  
13 photographs which make up the next several exhibits, I'll be  
14 mentioning and refer back to these points labeled A, B, C, and D.

15 These are points that I stopped and took different  
16 photographs so that you can kind of have an idea as we walk up  
17 the hill where they were.

18 We have reference Point 4-A and 5-A. Again, those  
19 points will also be identified on your exhibit.

20 They are reference points, so that again you get a feel  
21 for where this location is. They were taken by taking the corner  
22 of a location -- in this case 5 -- walking out due south to the  
23 cliff face, and then I set up a marker that we can pick these  
24 up in the photographs.

25 The same procedure was followed with 4-A. It's just

1 straight south of Corner Number 4 on the location which we'll  
2 also go through in further exhibits.

3 But I'd like for a -- if I could for a second, to  
4 return to Exhibit Number 1. As Ms. Crumpler has indicated, we  
5 have a drilling program proposed in the Douglas Creek Unit for  
6 1992. As you can see, and as she pointed out, the wells that  
7 are in the current drilling program, what we've done is gone  
8 back through where there appeared to be holes in our 80-acre  
9 spacing.

10 As you can see, and as I'll show in the future exhibits,  
11 the topography out here really does control the well locations,  
12 and we haven't been able to follow a standard 80-acre spacing  
13 program.

14 We've tried to get, for 80-acre spacing, the two wells  
15 necessary in the quartersection, but we haven't been able to do  
16 that evenly, so the Well Number 56 is one in a series of our  
17 current drilling programs where we've gone back in to see areas  
18 that we don't feel are being adequately drained at this point,  
19 and are then thus proposing these wells to adequately drain that  
20 area of the reservoir.

21 Q Referring you back to Exhibit 2, tell the Commission  
22 the origin of that topographic map.

23 A The topographic map that you see here was derived from  
24 the GPS System. It's the Global Positioning System, where we  
25 went out and, using the satellite, triangulate to the section

1 corners, and we can adequately identify the sections of this  
2 area.

3           Because of its roughness, the original surveys tended  
4 to have some errors introduced, and we wanted to go back through  
5 and verify that. The contour lines and other physical features  
6 that you see on the map were digitized off of aerial photography.  
7 That process included a reconciliation of the map, the topo map  
8 that you see here, back to the USGS quadrangle for this area,  
9 to verify that the physical features were the same.

10           Q. How close is your proposed well location from the  
11 north boundary line of the Douglas County Unit?

12           A. The proposed location is approximately 260 feet from  
13 the north boundary line of the Douglas Creek Unit here  
14 (indicating). It's approximately 60 feet from what would make up  
15 the west boundary line of the Douglas Creek Unit as well.

16           Q. You made reference to your so-called drilling pad.  
17 Will you tell the Commission a little more about what's involved  
18 in the establishment of a drilling pad.

19           A. Right. If you'd like to turn to Exhibit 2-A -- and I  
20 apologize that we don't have a blow-up of this -- you can see  
21 the location, which is basically just a large -- or an enlargement  
22 of this area that I've highlighted here in green (indicating),  
23 giving a layout, physical layout of the arrangement of the  
24 necessary pieces of equipment to drill a well.

25           We have -- let me grab a copy for myself here -- the

1 layout -- we have a slightly cropped corner that faces down to  
2 the southeast.

3 As you can see, as we move back to the -- what on the  
4 map here would be to the southwest, we have the reserve and  
5 Louie pit. That's used to contain drilling waste.

6 It's also used to provide basically a catch point for  
7 the air and the dirt that's produced while drilling those wells.  
8 As you can see on the exhibit, we have a layout including the  
9 drilling platform surrounding the well, which is shown here on  
10 orange.

11 We've got the layout then of the other auxiliary  
12 pieces of equipment that are necessary, including the compressors  
13 to air drill those wells, and the pipe rack out to the front,  
14 et cetera.

15 This is a pretty typical layout. In fact, we've  
16 standardized on this layout for all of the wells in Douglas  
17 Creek, in Dragon Trail, and then our other properties in this  
18 area.

19 It's about the smallest layout that we can adequately  
20 fit all of the drilling equipment onto, and then when we're  
21 ready to fit all the completing equipment onto as well -- we've  
22 done this really in an effort to minimize costs, and we also  
23 don't want to disturb any more ground than we absolutely have to.

24 Q Is it necessary in a drilling of a well that you have  
25 some leeway in all 360 degrees to move around the actual well

1 core equipment and machinery?

2 A. It's necessary to provide access basically to full  
3 circle around the well.

4 We also, for safety concerns, need to provide at least  
5 some margin of safety in case there is some kind of an accident  
6 or other unforeseen event, to allow for safe access or exit from  
7 the well pad itself, and so those are all the requirements when  
8 we physically lay out the location, to make sure that we've met  
9 all of those requirements.

10 Q. Has the Bureau of Land Management made its on-site  
11 inspection relative to this drilling pad and location?

12 A. Yes, I believe they have.

13 Q. And have they given you tentative preliminary approval?

14 A. Yes. The procedure that we follow with the BLM is  
15 that we will go out with one of their representatives to aid in  
16 selecting the site, and then also in the actual process of  
17 orienting the well location, again to minimize damage to the  
18 environment, to provide for safe access and exiting.

19 Also to make sure that we have, for example, no  
20 spillage of material over cliff faces into streams, et cetera.  
21 At the time that we have them out on location, they will give  
22 preliminary approval, of course, subject to a final finding when  
23 the APD is approved.

24 Q. Anything else you feel is pertinent and relative to  
25 Exhibit Number 2 at this time?

1           A.    No.  I believe I would like to go on to the  
2 photographs.

3           Q.    Okay.  Let me ask you to identify your Exhibits 3  
4 through 11.  What are those exhibits?

5           A.    Exhibits 3 through 11 will be a series of photographs,  
6 either taken by me or under my supervision, of the site from  
7 various locations, showing the location of the proposed well and  
8 some of the topography surrounding that area.

9           Q.    Let's go to Exhibit 3, then, and I'll ask you to --  
10 do you have blow-ups of those that you can submit to the  
11 Commission?

12          A.    Yes, and if I could, I was planning on setting them  
13 down, but I'm afraid they set them down here.  No one will be  
14 able to see them.  Do we have a clip?

15                    What I'd like to do is leave Exhibit Number 2 up,  
16 which will serve as the locator map for this series of  
17 photographs, Exhibits 3 through 11, and just basically walk  
18 you up from the bottom of the site, which is down here at A by  
19 these buildings, up to the top, stopping at Point B and C, on  
20 up to 4-A, where we look back down the hill, and then looking  
21 around at some of the sites up on the top of the location  
22 itself (indicating).

23                    Exhibit Number 3, as you can see, starts out -- we  
24 have the building here labeled Point A, Point 4-A and 5-A, and  
25 as you can see in your hand-held exhibits, there are marks that

1 are -- that we can use to identify those points; set up basically  
2 a dead tree on 5-A, and then a flagpole on 4-A, so that I can  
3 identify these as we went up.

4 Q Are those points the approximate points of the  
5 boundaries of your drilling pad?

6 A As I mentioned earlier, the points are derived from  
7 the actual corners of the location.

8 All I've done is taken them due south. For example,  
9 the distance between Point 4, which is the actual corner of the  
10 location, and Point 4-A, is approximately 46 feet.

11 The point from 5, which is at the center of the  
12 location, to 5-A, is approximately 75 feet.

13 I've done this just so that we can refer back to where  
14 the location would sit, slightly back off of the cliff face.  
15 As I mentioned earlier, the corners that you're seeing here are  
16 basically ten feet in the red, 50 feet in the purple.

17 This cliff face from the ground that we're standing on,  
18 up to the top, is approximately 250 feet. As we walk up, you'll  
19 be able to tell that it's a series really of very steep, sharp  
20 cliffs, if you will, ranging anywhere from about 50 to 30 feet  
21 high, followed by some tallis slopes of anywhere from 50 to 100  
22 feet.

23 I'll go ahead, and as we walk up, telling you where we  
24 were standing.

25 Exhibit Number 4 is slightly further up the hill.

1 We've moved somewhat to the northeast, climbed approximately 100  
2 feet, and are again looking back at the location, Points 4-A and  
3 5-A.

4 The point that we've used for reference for Point B is  
5 this little pointy tree here (indicating), which will be showing  
6 up in some of the additional photographs.

7 As we get a little closer to the location that you can  
8 start to see the development of this cliff face here. This face  
9 is approximately 15 to 20 feet. The location again will set  
10 right up on top of that, back from the locators, Points 4-A and  
11 5-A.

12 Exhibit Number 5 moves you up a little closer. We move  
13 from Point B to Point C. Again, you can see a little closer view  
14 of what's now developing into a cliff face here between Points  
15 4-A and 5-A.

16 Again we're looking approximately back to the west,  
17 back into the location site.

18 And finally, Exhibit Number 6 was taken from the top  
19 of the location at Point 4-A, standing on the cliff that we've  
20 just been looking at.

21 The flagpole is just off to the right here out of the  
22 picture (indicating), and we're looking back down that same  
23 cliff face that we've just climbed up, seeing Point C, Point B,  
24 the pointy tree here (indicating), and Point A, the shack that  
25 you can see also on the topo map.

1           Again from the top here, we're looking down  
2 approximately 250 feet down to Point A.

3           Exhibit Number 7, then, is stepping back again straight  
4 south from 4-A back to the actual corner of the location, and  
5 this is the corner stake put in by the surveyor to note the  
6 corner of the location.

7           This would be on the northeast side of the location,  
8 this point on the top map here labeled 4 (indicating).

9           This photograph was taken basically looking to the  
10 east, southeast. Again we can see reference Point B. The  
11 distances from this corner point to the cliff edge that you can  
12 see in the center of your photograph, just above the stake, was  
13 approximately 12 feet.

14           We moved that corner as close to the edge of the cliff  
15 as we could and still have a relative safe location.

16           As you can see from the earlier exhibits, this face  
17 here that we're talking about is that same 15 to 20 feet cliff  
18 face, and we're just standing from this photograph 12 feet back  
19 from the edge and looking down out to the east, southeast.

20           As we move around, the location is still staying up on  
21 top of this clear area shown here in the topo map (indicating)  
22 at the well plat.

23           On the well pad, itself, approximately the center,  
24 Point Number 5 identified here on Exhibit Number 2, the point  
25 that we've been referring to as 5-A is out on the cliff face,

1 unfortunately.

2           The dried stump that I've used as a marker is behind  
3 this tree. It's located right there (indicating), again  
4 approximately 75 feet from Corner Number 5 out to the face.

5           Moving on around the location, we have Exhibit Number 9,  
6 which is Corner Number 6, being C here in the corner of the  
7 photograph looking out from Corner Number 6.

8           Basically somewhat south -- or somewhat east, pardon  
9 me -- of due south, you can see Point D, which we used as  
10 another reference point on the cliff face itself. Point D is  
11 approximately 57 feet from the corner point indicated here,  
12 Number 6 (indicating).

13           On Exhibit 10, we moved out to Point D, standing on  
14 the cliff face.

15           This is the view, basically looking east from the  
16 point denoted D along the cliff face, again to kind of refer  
17 you back to where we were in the earlier exhibits.

18           We would be looking pretty much following the well pad  
19 layout here, looking almost due east along the face of this  
20 cliff.

21           As you can see, it doesn't provide much room to get  
22 out and do anything on this slope.

23           The last exhibit that I'd like to show you with the  
24 photographs is Exhibit Number 11, and on Exhibit Number 11, we'd  
25 move back to the northeast corner -- pardon me -- to the

1 northeast corner, I guess, here at the point labeled Number 2,  
2 and have a view -- pardon me.

3 We have a view off to the east. It's approximately  
4 48 feet from what is located here as Corner Number 2 to this  
5 point here, and you can just very faintly see what is the cliff  
6 edge there.

7 Unfortunately, due to the heavy vegetation in that  
8 direction, you couldn't get a real clear shot of that cliff face  
9 there.

10 Q What are the dimensions of your well pad?

11 A The well pad dimensions from the center of the well  
12 in this case -- and we'll use Douglas Creek 56 reference  
13 directions -- this direction would be down to Point 5 from the  
14 well, would be 45 feet.

15 Up to the north from the center of the well to this  
16 northern edge of the well pad would be 80 feet.

17 From the center of the well out to the easternmost  
18 site here would be 140 feet, and then from the center of the  
19 well back to the western side would be 130 feet.

20 In total that gives you a location that's approximately  
21 125 feet, and it narrows to 270 feet in the long dimension.

22 Q Actually in fact, to get to that well pad, part of that  
23 well pad has to be located over in the other unit; does it not?

24 A That's correct. As you can see, the boundary line  
25 here, part of the actual well pad will fall within the Dragon

1 Trail Unit.

2 Q Did you actually go out on location and mark these  
3 distances and sight these pictures yourself?

4 A Yes, sir, I did. I was on all of the sites that you've  
5 seen here in the exhibits. I did all of the measurements as  
6 well; took a compass out so that I could get an approximation  
7 for which direction we were using, as well as correlating that  
8 back to the topo map.

9 Q As a physical matter, is this the only place in that  
10 general area that a well pad could be located?

11 A Yes. We have basically no room. We moved it as far  
12 as you could see from the earlier exhibit, and I'll just go back  
13 and refer to that for a moment.

14 Exhibit Number 6 shows again -- pardon me. Let's  
15 switch to Exhibit Number 7, which shows the Corner Number 4.

16 As I mentioned, it's approximately 12 feet from Corner  
17 Number 4 to this cliff face. We've showed this location to the  
18 far east as we can. There, realistically on this site, is no way  
19 to get any significant movement away from the lease line.

20 Q Let's go on to your Exhibit Number 12. I'll ask you to  
21 identify that and tell the Commission what's shown.

22 A This is Exhibit Number 12. It's a blow-up of the  
23 quarter quartersections of interest, directly surrounding  
24 Location Number 56. Again, the unit boundary runs from what  
25 would be the west side of this blow-up corner here and moves

1 over to the east side.

2 Again, the Douglas Creek Unit is to the south, the  
3 Dragon Trail Unit is to the north.

4 The proposed location of Douglas Creek 56 is shown  
5 here in the large circle (indicating). The pertinent distances  
6 from the lease lines are also shown. As you can see, we're  
7 260 feet from the northern boundary of the Douglas Creek Unit.  
8 We're 60 feet from the western boundary of the Douglas Creek Unit.  
9 We've also shown on this exhibit the 200-foot buffer zone, if  
10 you will, that we will be required to stay outside of.

11 As you can see, we are outside of this buffer zone in  
12 the northern direction. We do fall within the buffer zone here  
13 in the westernmost direction (indicating). We fall within about  
14 140 feet inside that buffer zone.

15 Q. Let's go on to your Exhibit 13.

16 A. Exhibit Number 13 is a structural map, again of the  
17 area of interest, showing some of the Douglas Creek Unit. You  
18 can see it lightly outlined here as I'm drawing around it again  
19 (indicating), the same unit out that was -- outline that was  
20 shown in Exhibit Number 1.

21 The Douglas Creek Unit lies to the south of Douglas  
22 Creek 56. The Dragon Trail Unit lies here to the north  
23 (indicating), that proposed location circled with the black dot  
24 here on the exhibit.

25 The contour interval on the base of the Mancos "B",

1 which is what we're looking at here, is 50 feet.

2 This map just shows the continuity of the Mancos "B"  
3 structure. We do have several faults through the area, but in  
4 general, the Mancos "B" is a blanket-type formation on the  
5 Douglas Creek Arch, and we find it laying throughout our area of  
6 interest, and certainly underneath Well Number 56.

7 As you can see from the map, we project two faults on  
8 either side of the location of 56. These are probably going to  
9 be outside of the area, and we should not encounter those within  
10 -- or in drilling.

11 Q Does structure play any significant part in this  
12 accumulation?

13 A No significance in the original deposition. We do  
14 find that we tend to have somewhat better wells located along  
15 the faults and that the point of maximum flexure on the  
16 structure, but other than that, it really plays no significant  
17 role. Certainly we don't anticipate anything for Douglas 56.

18 Q Would you tell the Commission a little bit about the  
19 nature of the Mancos "B" Formation, type and character.

20 A The Mancos "B" Formation in the Douglas Creek Unit  
21 is a formation of approximately 400 feet thick. It's Upper  
22 Cretaceous in age.

23 The 400-foot thick section is made up of very finely  
24 interbedded sand and shale. These sand and shale laminae can  
25 be anything from a few grains on up to sections that are, perhaps,

1 in some parts of the field, five to six inches in thickness.

2           However, typically we anticipate seeing something that  
3 is under a quarter of an inch, as far as the actual sand lenses,  
4 if you will, thickness.

5           The formation here is relatively tight. In fact, the  
6 Commission in NG-14 has found that this area underneath the  
7 subject well to be a tight designation, which would be  
8 permeabilities of less than .1 millidarcy.

9           Q     And because of the permeability, is the ore drainage  
10 quite often restricted, or in most cases restricted, your  
11 drainage area?

12           A     The drainage area does, as a function of the reservoir,  
13 does tend to be restricted due to the tightness of the formation,  
14 yes.

15           Q     Let's go to your Exhibit 14.

16           A     Exhibit 14 illustrates what we've seen in the formation.  
17 We've mentioned that this is a relatively tight area. We do have  
18 some -- Exhibit 14 shows these two well pairs that we have not  
19 seen interference in. Let me go through them now for you.

20                     The first well pair that I'd like to discuss is  
21 Douglas Creek Unit Numbers 23 and 28. As you can see on the map,  
22 they're located approximately 979 feet apart. That's just  
23 slightly more than what a 20-acre spacing pattern would be if  
24 it was a typical pattern.

25                     The decline curves here that I'm showing (indicating)

1 are from the wells' inception in 1988 through the current  
2 production month.

3           The other -- we're showing gas rate ranging from ten  
4 to 10,000 cubic feet per day versus time. As you can see, the  
5 wells have come on, in this case, somewhere in the 500 to 600 a  
6 day range, have declined out along this decline curve shown on  
7 these exhibits.

8           The next well pair that we have is Wells Number 40 and  
9 41, again in the Douglas County Unit. These wells are  
10 approximately 1,140 feet apart. That's slightly underneath a  
11 40-acre standard pattern.

12           Again the wells' decline curves are shown from their  
13 inception in 1988 through the end of the current production month.  
14 Wells came on line here a little bit stronger. We had production  
15 well over a 1,000 MCF a day.

16           The decline again after initial steep drop has leveled  
17 off. The little abberations that you see in each one of these  
18 decline curves are typically caused by increases in pressure in  
19 the gathering system that gathers these wells.

20           This is a very low pressure reservoir. We try to keep  
21 gathering system pressures to a minimum, and that is approximately  
22 35 to 40 pounds to increase recovery from these wells. And as  
23 you can see at the tail end of each one of these decline curves,  
24 beginning approximately January, we've started to see a build-up  
25 in pressure in the gathering system and the corresponding



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1 decrease in rate.

2 We've had some gas sales based on the less than cold  
3 winter we've experienced, our gas sales haven't been phenomenal,  
4 and because of that, pressures have come up somewhat in the  
5 gathering system.

6 Q Let's go back to your first example. For the record,  
7 would you identify the location of Well 23 and 28.

8 A Well Number 23 is located in the southeast quarter of  
9 Section 36. Well Number 28 would be located in the northeast  
10 quarter of Section Number 1.

11 Q And the distance between those wells?

12 A Is 979 feet.

13 Q And have you seen any evidence of any well  
14 interference by virtue of this production over the past four  
15 years?

16 A No. We have not seen any evidence of interference.  
17 Typically, if you were to see any interference, you would see  
18 somewhat of a change in the declined slope, and your well pair  
19 then would begin to mirror each other in the decline curve as  
20 their drainage areas are beginning to interfere.

21 To date we have not see anything that would indicate  
22 that we have interference within the four years of production  
23 that we have.

24 Q And these wells are essentially on a 20-acre spacing  
25 as -- in relation to each other?

1           A.     That's correct. They would be somewhat more than  
2 20-acre spacing.

3           Q.     Would you do the same thing for your second example,  
4 your Wells 41 and 40.

5           A.     Wells Number 40 and 41 are located in the southeast  
6 quarter of Section Number 5. They are approximately 1,140 feet  
7 apart.

8                     As I mentioned, that would be somewhat less than a  
9 typical 40-acre spacing pattern. Again, the same evidence  
10 presented in the decline curve to date, we don't feel that we  
11 have seen any type of interference whatsoever in these well  
12 pairs.

13          Q.     On this exhibit, have you also identified the proposed  
14 wells that Conoco is going to try to drill in 1992?

15          A.     Right. The proposed wells that are currently scheduled  
16 for the 1992 drilling program again are shown here in the open  
17 circles.

18                     There's Number 50, 55, 49, et cetera. As you can see,  
19 these wells go back into some of the openings, if you will, that  
20 were left in the spacing patterns during the 1988 drilling  
21 program.

22          Q.     Now, looking at that exhibit, it appears that there  
23 are wells that are located even closer to each other than the  
24 wells you've just testified about.

25          A.     That's --

1 Q Is there a reason for that?

2 A From the new wells to the --

3 Q Just from the -- no. The wells that have been drilled  
4 within the unit, looking at the map here of the wells as they're  
5 presently located.

6 A I'm sorry. Could you repeat that.

7 Q Yeah. From a non-technical standpoint, looking at the  
8 map it appears that there are wells located even closer than 900  
9 feet to each other in this unit, specifically in Section 6.

10 A Section 6, if you're referring to Wells Number 4 and  
11 Number 6, those are located in the northeast quarter of Section 4.  
12 These wells produce from different horizons.

13 Well Number 4 is completed in the Dakota Formation, a  
14 deeper formation. Well Number 6 is completed and producing from  
15 the Mancos "B" Formation.

16 Q Let's get back to your proposed location. Why do you  
17 feel it's necessary to drill this well?

18 A Based on the evidence that we have in the Douglas  
19 Creek Unit, particularly the lack of interference seen in these  
20 two wells, we feel that we're not adequately draining certain  
21 parts of the reservoir on the current spacing patterns that we  
22 have.

23 In order to adequately drain this reservoir within the  
24 economic life of the field, we feel that it's necessary, not  
25 only to drill the proposed location Number 56, but also to go in

1 and drill these other seven wells that have been proposed for  
2 drilling in 1992.

3           Approximately these wells, the other seven wells that  
4 are in the current drilling program, are more or less the same  
5 surface spacing as is Number 56. The location for Number 56 is,  
6 in general, equidistant from its surrounding wells and would  
7 place it about 1,500 feet from the next closest well, and that  
8 will be somewhat less than an 80-acre spacing well.

9           It would be somewhat more than a 40-acre well.

10          Q. If you are unable to drill this well, in your opinion  
11 will gas be left in the reservoir that wouldn't otherwise be  
12 recovered?

13          A. Yes. In my opinion, based on the tight nature of the  
14 formation and the characteristics that we've seen as evidenced  
15 here in the decline curves, I feel that within the -- in this  
16 case, life of this field, without this well, we would be leaving  
17 some gas in place.

18          Q. Now, with respect to correlative rights, to you have  
19 an opinion as to how the drilling of this well might affect  
20 correlative rights of the owners?

21          A. Well, the correlative rights, certainly in the Dragon  
22 Trail Unit, will be impacted. We're drilling 60 feet from the  
23 lease line; however, again based on the nature of this formation,  
24 the tightness of it, and our evidence here as presented in these  
25 four delinquent curves, it would indicate that whatever damage

1 there might be has been minimized by the nature of the formation.

2 Q Do you understand that if the Commission should see  
3 fit to grant this Application, they retain the continuing  
4 jurisdiction to take whatever action might be necessary in the  
5 future to protect the correlative rights of the parties?

6 A Yes.

7 Q And Conoco is willing to live with that?

8 A That's correct. Conoco will live with that.

9 Q And do you understand that the owners in the Dragon  
10 Trail Unit would have correlative rights to drill a compensating  
11 well on the other side of the unit boundary if they desire?

12 A That's correct. That is my understanding, that if they  
13 so desire, Conoco would certainly not interfere in any way with  
14 DKM's rights, or for that matter, Celcius's rights to drill such  
15 a mirror well.

16 Q Is there anything further that you feel that's  
17 pertinent that the Commission should know about with respect to  
18 this matter?

19 A I can't think of anything at this time, no.

20 Q Were Exhibits 2 through 14 prepared either by you or  
21 under your supervision and control?

22 A Yes, they were.

23 MR. ODELL: I'd like to offer those exhibits into  
24 evidence at this time.

25 CHAIRPERSON: They are admitted.

1 (Applicant's Exhibits 2 through 14 were admitted  
2 into evidence.)

3 Q (By Mr. Odell) You testified that you felt like the  
4 drilling of this well is necessary to recover gas that won't  
5 otherwise be recovered. Do you have any options as to why you  
6 place the surface location of this well, other than those  
7 described here today?

8 A If we're to place a well on this site, because of the  
9 topography, this is basically the place that it will go, so  
10 we're very limited in the positioning of the well itself.

11 MR. ODELL: I have no further questions of the  
12 witness.

13 CHAIRPERSON: Mr. Sullivan?

14

15 CROSS EXAMINATION

16 BY MR. SULLIVAN:

17 Q Yeah. Mr. Pellatz, if we could just go back to  
18 Exhibit Number 2, which is taken from Point A?

19 A That's correct. It was taken showing Point A, and  
20 also Point 4 and 5-A.

21 Q And that's right next to an abandoned house down there?

22 A Yes. Point A is the abandoned house.

23 Q How far is Point A from Conoco Well Numbers 29 and 5?

24 A If you would let me get my scale, I can tell you.

25 Q If you want to do it that way, or just a rough

1 estimate.

2 Q It would appear to be somewhat less than a thousand  
3 feet, approximately perhaps 800 from a rough estimate, from the  
4 location, or from Point A to Conoco Well Number 29.

5 Q Are there any dry holes located in the sections,  
6 either the section you're planning to drill on, or those  
7 adjacent sections, say, on that map?

8 A On this map?

9 Q Yeah.

10 A No, there are no dry holes.

11 Q Do you have any decline curves for any of the  
12 adjacent wells?

13 A Other than the ones that are shown on Exhibit 14, no,  
14 I do not.

15 Q And those are in different sections?

16 A That is correct. I have those. They're not available  
17 at this point.

18 MR. SULLIVAN: That's all I have.

19 CHAIRPERSON: Questions from the Commission?

20 Mr. Odell?

21 MR. ODELL: I have one redirect, if I may?

22 CHAIRPERSON: Please.

23

24

25

(Continued)

## REDIRECT EXAMINATION

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BY MR. ODELL:

Q. With respect to these Mancos "B" wells, do you encounter relatively uniform performances and productivity, or do they vary in any extent?

A. As you can see in the decline curves here on Exhibit 14, they do tend to vary widely, based on the area that they're drilled in.

We really -- I mean, you can derive an average, a mathematical average, but the deviation from that is significant. We can have wells that range in the Douglas Creek Unit anywhere from 200 MCF a day on the initial rate, on up to -- as you can see, some of these wells here are well over a thousand.

Q. So you won't know what kind of a well you are going to get on the proposed well unless and until you drill it?

A. That's correct.

MR. ODELL: No further questions.

CHAIRPERSON: Is that it?

MR. ODELL: Yes, sir. That concludes our case.

CHAIRPERSON: Mr. Sullivan, are you ready?

MR. SULLIVAN: Yes, sir.

I'd like to have accepted as an expert witness Mr. Alan Nichol. If I could ask him to state his name and his qualifications and experience at this time.

CHAIRPERSON: Mr. Nichol.

1 MR. NICHOL: My name is Alan B. Nichol. I office at  
2 1600 Broadway, Suite 950, here in Denver.

3 I've been in the oil business, primarily here in the  
4 Rockies for about 22 years. I have a Bachelor of Science degree  
5 in Geological Engineering from Michigan Tech, and a Master's  
6 degree in Geological Engineering from the University of Utah.

7 I've operated throughout the Rockies, starting here  
8 with Shell in 1969, and as a geological engineer and have had  
9 positions with several other companies here in Denver as  
10 exploration manager, vice president of exploration and operations,  
11 and executive vice president.

12 I'm currently -- the last six years have been a  
13 consultant for a number of clients, one of whom is DKM Resources,  
14 which is headquartered in Houston.

15 MR. SULLIVAN: Have you appeared previously before the  
16 Commission?

17 MR. NICHOL: Yes, I have.

18 MR. SULLIVAN: I would like to request that Mr. Nichol  
19 be admitted as an expert witness.

20 CHAIRPERSON: You don't have a resume in writing, by  
21 any chance?

22 MR. NICHOL: I'm sorry. I do not have a resume.

23 CHAIRPERSON: All right. His qualifications are  
24 accepted.

25 Mr. Sullivan, before we begin, I'd like to swear the

1 witness.

2

3

ALAN B. NICHOL

4 called as a witness on behalf of the Respondent, having been  
5 first duly sworn, testified as follows:

6

7

CHAIRPERSON: Would you please state your full name  
8 and address for the record, please.

9

10 THE WITNESS: It's Alan B. Nichol. I office at  
11 1600 Broadway, Suite 1950, Denver, Colorado.

11

12

DIRECT EXAMINATION

13

BY MR. SULLIVAN:

14

Q As one point of clarification as you go through the  
15 exhibits, Exhibits 2 and 3, they are both the same map. One has  
16 been reduced to fit on a photocopied 8-1/2 by 11 inch page.

17

Mr. Nichol, could you briefly describe the history  
18 of the Dragon Trail Unit and portions of Douglas Creek that  
19 are available in this area.

20

A The initial development of the Dragon Trail Unit, which  
21 is the one in which DKM owns an interest, began in about 1962.  
22 Drilling continued through 1969 and on into 1970, and then there  
23 was some sporadic drilling in 1973, '75, and on into '79.

24

In 1981 some additional drilling was done to bring the  
25 field pretty much in the 160-acre spacing pattern, and that

1 continued on into 1984, and then in 1988, Conoco proposed an  
2 in-fill program, which is described, according to our records,  
3 to the partners at the time as being primarily an acceleration  
4 program, the lives of the wells being so long that it was  
5 necessary to drill additional wells to pick up the existing  
6 reserves in a reasonable amount of time.

7 In that proposal, Conoco recognized that they would  
8 get some new reserves, which you do with any program which, to  
9 my understanding, was not the primary thrust of that program.

10 The in-fill resulted in 72 additional wells drilled  
11 in 1988 through about 1990, and several of those you will see  
12 on the exhibit, whether they're ours or Conoco's, or offsets  
13 to the proposed location.

14 In other words, some of those wells are relatively new.  
15 You don't have a lot of history.

16 Q I'd like to direct the Commission's attention to  
17 page two of Exhibit 1, paragraph number 2, and ask Mr. Nichol to  
18 explain who prepared the exhibit and what that paragraph means.

19 A This is a portion of the presentation that Conoco  
20 made to the working interest owners' reading, where the in-fill  
21 drilling was proposed, and it just confirms what I just  
22 described as a presentation, primarily for the purpose of  
23 acceleration with minimal new reserves to be realized from the  
24 wells.

25 Q Mr. Nichols, could you also please explain Exhibit

1 Number 2.

2 A. Exhibit Number 2 is a copy of a topographic map of the  
3 area which confirms the topography that Conoco has already shown,  
4 and contains the locations as red spots of the existing wells  
5 surrounding the proposed location for Well Number 56.

6 Okay. Basically, that area is already developed on  
7 what would amount to 80-acre spacing, allowing for the  
8 difficulties with terrain.

9 Q. Mr. Nichol, would you please now -- would you please  
10 explain why you think this particular area is already adequately  
11 developed and why the proposed well is unnecessary.

12 A. It's very difficult to find any sort of definitive  
13 evidence to point to, to say what a well is draining in terms  
14 of area of extent.

15 The formation is highly variable vertically and  
16 horizontally, as has been described and contains a vast number  
17 of very small stringers of gas burning sands within the shale  
18 beds.

19 We have virtually no bottom hole pressure data to use  
20 to define reservoir size and to use in predicting future well  
21 performance or even to determine what's happened so far in the  
22 way of drainage, what new well is drilled.

23 In searching for something that would provide a clue  
24 as to what's been happening here, I chose to make a comparison  
25 of performance of older wells versus newer wells, hoping that

1 that would give some clue as to whether or not the newer wells  
2 are finding any significant reserves or undrained reserves.

3 To do that, I used the production for December of  
4 1991, and I chose a winter month because historically wells have  
5 been drawn down or pulled harder in the winter than they have in  
6 the summer, and that hasn't been a problem so much -- recently  
7 as it was in the past, but still a winter month is the best  
8 probably to use.

9 In that month of December of 1991, the 16 wells were  
10 drilled between 1981 and 1984, that means a producing time after  
11 hook-up of from about seven to a little over ten years, averaging  
12 5 million cubic feet of gas per month per well, so those are the  
13 older wells.

14 For the same month, the 72 wells that were drilled as  
15 primarily in-fill wells, which have only been hooked up for a  
16 period of a little over a year or two, two and a half years, and  
17 which should evidence more energy and better initial producing  
18 rate capability, if they were, in fact, picking up more energy  
19 from new reserves, undrained areas -- averaged a little under  
20 4.4 million cubic feet per well per month.

21 In other words, the newer wells were performing more  
22 poorly than the older wells, so there's no indication of any  
23 greater energy available to those new wells.

24 The logical conclusion is that there's no significant  
25 new reserves being found, and that the wells which we'll never

1 drill, when completed, are probably tapped to a partially  
2 depleted reservoir.

3           The next logical conclusion there is that if, in fact,  
4 the original 160-acre pattern was sufficient to draw down the  
5 reservoir pressure so that that lower pressure and loss of  
6 energy was realized or seen by the new wells, then what really is  
7 the need for any more wells to drain that reservoir?

8           Now, I can't say that there isn't that need, but we  
9 don't know yet. We've got a lot of new wells out there that may  
10 be in a significantly depleted reservoir, and there are some clues  
11 that show that -- no firm facts, but there is at least some clues  
12 to suggest that, and we are protesting the need for this  
13 particular well, which basically doesn't even go to 80's.

14           It's proposing to drill in a spot that would be  
15 equivalent after 40-acre drainage.

16           Now, on the exhibit that I passed out, there are two  
17 maps which are Exhibits 3 and 4. If, in fact, the area is being  
18 drained adequately on 160-acre patterns, that would be equivalent  
19 roughly to the schematic that is demonstrated in Exhibit 3,  
20 where each circle represents an area of 160 acres.

21           There's no way to say that each well drains 160, and  
22 that's kind of a misnomer anyway for a misapplication of facts,  
23 because what you're really saying is that a well that will drain  
24 160 acres efficiently will drain a lot more than that  
25 inefficiently, and we recognize that there's a lot of variation

1 among wells out here.

2 But if, in fact, that were the case, then the only area  
3 not being drained right now by an average of 160-acre parcel  
4 would be less than two acres, and most of those two acres fall  
5 across the line into the Dragon Trail Unit.

6 Also if you look at the circle represented by the 160-  
7 acre area attributed to the proposed well for the purpose of  
8 this map, about 41 percent of that area falls across the line  
9 into the Dragon Trail Unit.

10 Now, Exhibit 4 is a similar schematic, showing the  
11 same sort of idealized circles as they have application, but  
12 just as a circle on what may be happening outside here for the  
13 accelerated production.

14 In other words, when an area is being accelerated  
15 right now by 80-acre patterns, and the area is not already covered  
16 by pre-existing 80-acre circles, the only area is 33 acres, and  
17 of those 33 acres, 15 are across the line.

18 The total portion of Well Number 56, then, on an 80-acre  
19 pattern, which falls across the line is 27 acres, some of which  
20 may already be accelerated by other wells.

21 Q Mr. Nichols, just to reiterate what you're saying, is  
22 that this field was originally drilled on 160's, and they have  
23 just completed an in-fill program to drill it on what are  
24 essentially 80's?

25 A Yes.

1 Q How long has it been since the 80-acre wells were  
2 drilled?

3 A Some of them have been on for about two and a half  
4 years since they were hooked up, and that range down with regard  
5 from then, to a little over a year perhaps.

6 Q So when you -- you're only looking at about two and a  
7 half years of production for those in-fill wells?

8 A Yes, that's right.

9 Q Going to the Applicant's Exhibit Number 14, which shows  
10 decline curves as the last one in their book, do you feel that  
11 with two years of production, you can accurately tell what the  
12 ultimate production of that well will be?

13 A Two years is about the minimum amount of time that you  
14 might be able to speculate to show what the production is going  
15 to be. Clearly, just looking at these curves, it's -- after  
16 three or four years, the curve of flow is still changing. I  
17 don't think two years is sufficient to make an accurate  
18 statement.

19 It's probably that point in time where you can begin  
20 to make the first reasonable estimate.

21 Q Do you feel two years is enough time to determine  
22 whether there will be interference between these two wells?

23 A No. In fact, if the wells are drilled at the same  
24 time and put on production at the same feeding into the same  
25 pipelines, and there's no interference testing done between the

1 wells, I don't know how you determine that there is or is not  
2 interference.

3           May I elaborate on that a little bit?

4           Q    Yes.

5           A    A typical tight gas reservoir has a very steep -- or a  
6 well in a typical tight gas reservoir has a very steep early  
7 decline, and on the typical semi-log float that was shown here  
8 on Conoco's Exhibit 4, it gradually flattens as the reservoir is  
9 drained farther away from the well bore, and the gas is basically  
10 having a tougher time getting to the well bore.

11           When you have a whole series, in this case of perhaps  
12 even hundreds of individual layers feeding into that well bore,  
13 as one layer flees, the next layer may find the opportunity to  
14 feed in where previously it wasn't because back pressure in the  
15 well bore was preventing it.

16           If you have, in a typical -- what we call linear flow  
17 situation, where you create an artificial fracture into a tight  
18 gas reservoir, and it actually taps two zones, the decline curve  
19 will flatten as the second zone starts to produce, and you get a  
20 surprisingly flat curve compared to what you would have had, had  
21 there been only one zone produced.

22           It may be, and it's just a speculation on my part,  
23 that what you have here is the same effect with numerous zones  
24 feeding in so that you have a decline that looks almost  
25 exponential, meaning on a semi-log plotted, it draws an almost

1 straight line.

2           If you're looking for interference between two wells  
3 that are doing that, I don't know how you determine it, unless  
4 you shut a group of wells in and see what happens to the other  
5 wells. But to be able to testify that there is or is not  
6 interference among wells, based upon those curves, I don't think  
7 I can do it. I think it's kind of in the eye of the beholder.

8           I don't feel that there's enough evidence here to say  
9 that there's no interference among the wells.

10           Q     Going back to Exhibit Number 2, Respondent's Exhibit  
11 Number 2, the topographic map, Mr. Nichol, can you point out the  
12 location of a structure that looks like it's about an eighth of a  
13 mile or a quarter of a mile from the southeast of the proposed  
14 well location?

15           A     Yes. On our Exhibit 2, there's a little black spot  
16 there denoting a building of some kind, which is about three  
17 eighths of an inch southeast of the proposed location.

18           Q     How far is that particular location from the Conoco  
19 well to the east and the red dot to the east, and the Conoco well  
20 to the south, which is marked "Gas Well"?

21           A     That relates to the question you asked earlier, and  
22 just without having scaled it, the answer will be approximately  
23 a thousand feet, maybe 1,100 feet from those two wells each.

24           Q     So that would be approximately the same distance as  
25 the wells that Mr. -- or that the Applicant was describing in

1 Exhibit 14?

2 A. Actually, yes. It might be a little bit more.

3 Q. And how far is that location from the unit?

4 A. Again, an estimate would be about five to six hundred  
5 feet.

6 Q. In your opinion, will a significant amount of gas not  
7 be recovered by the existing wells if the proposed well is not  
8 drilled?

9 A. No.

10 Q. Would DKM, if the proposed well were to be drilled,  
11 would DKM be willing to allocate production on a reasonable  
12 basis, if it were allowed to come into that well at pay-out for  
13 its proportionate share?

14 A. Yes.

15 Q. What's your opinion concerning the advisability of  
16 an option which would allow the Dragon Trail Unit owners to  
17 drill a compensating well 60 feet on the other side of the unit  
18 boundary?

19 A. I think that would result in significant waste. It  
20 wouldn't be necessary to drain the reserves. It would just be  
21 another well to drain existing reserves that have been  
22 established by previous wells. That would not be an economic  
23 option, in my mind.

24 MR. SULLIVAN: I'd like to move the admission of all of  
25 Respondent's Exhibits.

1 CHAIRPERSON: They are admitted.

2 (Respondent's Exhibits 1 through 4 were admitted  
3 into evidence.)

4 MR. SULLIVAN: That's all I have.

5 CHAIRPERSON: Mr. Odell?  
6

7 CROSS EXAMINATION

8 BY MR. ODELL:

9 Q Yes, sir. Mr. Nichol, with respect to your Exhibit  
10 Number 1, and particularly paragraph 2 on page 2 of that, this  
11 exhibit was written in 1988 prior to the drilling of a number  
12 of additional wells. Was it not?

13 A That's correct.

14 Q Is it possible that the information obtained in the  
15 drilling of these numerous additional wells might have changed  
16 the picture somewhat in both economics and a drainage standpoint?

17 A We can be virtually certain that it has.

18 Q With respect to your testimony relative to the 72  
19 in-fill wells in the Dragon Trail Unit, in your comparison in  
20 December of '91, I believe, of producing rates, this was all  
21 limited to the Dragon Trail Unit, was it not?

22 A Yes.

23 Q And this was an overall pick throughout a unit that's  
24 how many thousands of acres?

25 A Approximately 10,000.

1 Q None of this -- these numbers in any way are related to  
2 the Douglas Creek Unit?

3 A No, they do not.

4 Q With respect to your testimony about the nature of  
5 this Mancos "B" Formation and the fact that you've got different  
6 contributing lenses, is that a correct term?

7 A Yes.

8 Q Are these different contributing lenses uniform  
9 throughout the field?

10 A Certainly not.

11 Q So the lens that might be present in one well or  
12 several lenses might not be present in the well bore of, say, a  
13 thousand feet away?

14 A That's right.

15 Q So because of this lenticulator at each well, you might  
16 be draining a combination of the same and many different lenses  
17 of Mancos "B"?

18 A Yes.

19 Q With respect to your testimony about unnecessary wells,  
20 economic time is also a consideration. As I understand it,  
21 theoretically, one well might drain a huge area over geologic  
22 time?

23 A Yes. I've had some of those.

24 Q So drainage over an economic time is certainly a  
25 consideration to an engineer planning a drilling program?

1 A. Yes.

2 MR. ODELL: I have no further questions of this  
3 witness.

4 MR. SULLIVAN: Two redirect, please.

5 CHAIRPERSON: Certainly.

6

7

REDIRECT EXAMINATION

8 BY MR. SULLIVAN:

9 Q. Is there any significant -- to your knowledge, is there  
10 any significant difference between the Mancos "B" reservoir and  
11 the Douglas Creek Unit and the Mancos "B" Unit in the Dragon  
12 Trail Unit?

13 A. As far as we can determine, there's no significant  
14 difference. The units are -- the units have convenience for  
15 other purposes and not because there's any change in geology.

16 Q. With regard to your use of averages in terms of either  
17 decline curves or pressures where there isn't any information on  
18 the proposed well since it hasn't been drilled yet and no  
19 information is given on the adjacent wells, do you feel that  
20 use of average data in those two units would be the best method  
21 to get an idea of how these wells would perform?

22 A. That's the best method I can come up with under the  
23 circumstances. I think the point to be made here is that we  
24 feel it's premature to be drilling additional wells where DKM,  
25 my client, would suffer drainage until a lot more is known about

1 the depth of those wells, what is actually happening in terms of  
2 drainage in the reservoir.

3 I think the clues are that there is drainage, and while  
4 the question about individual lenses and individuals wells not  
5 being existent in nearby wells is astute and perfectly valid, it  
6 appears that the majority of lenses are being drained by the  
7 existing well pattern if in fact, the performance data is a good  
8 indicator of that drainage.

9 MR. SULLIVAN: No further questions.

10 CHAIRPERSON: Questions from the Commission? Staff?

11 Okay. Final thing.

12 Do either of you want summary and conclusions before  
13 we begin our discussion?

14 Mr. Odell?

15 MR. ODELL: Sure.

16  
17 CLOSING STATEMENT

18 BY MR. ODELL:

19 I think the evidence is uncontroverted that this is the  
20 only place to drill in that immediate area if there is going to  
21 be a well drilled.

22 The Applicant obviously feels that a well is necessary  
23 to be drilled in this particular position in order to recover  
24 additional gas.

25 We have -- we recognize that the Commission has

1 continuing jurisdiction if they should grant this Application,  
2 to take whatever steps are necessary to prevent the violation of  
3 the correlative rights of the Protestant.

4 The Commission has done that in numerous cases over the  
5 years, and Conoco is entirely willing to live under these rules.

6 The best evidence of the testimony has been that these  
7 wells vary from, let's say, 200 MCF to 1,000 MCF. We're not going  
8 to know what kind of well this is going to be unless and until  
9 it's drilled.

10 And we would certainly recommend that the Application  
11 be granted, that you let us drill a well. We'll be happy to come  
12 back in after a reasonable time and with the data we have,  
13 perhaps we can establish what is necessary to protect the  
14 correlative rights of the minority interest owner up in the  
15 Dragon Trail area.

16 CHAIRPERSON: Mr. Sullivan?

17

18 CLOSING STATEMENT

19 BY MR. SULLIVAN:

20 They start out with 160's in both of these units.  
21 Over the last two and a half years, they've dropped the in-fill  
22 to 80's. This area where the well is proposed has already been  
23 drilled on 80's.

24 It's only been two and a half years since it did that.  
25 Their best evidence doesn't indicate that 40's is going to

1 recover any additional reserves which -- in a sense, that's what  
2 they're going to be doing here. They're going to be drilling on  
3 40's.

4 But what it does show is that they're drilling a well  
5 which is essentially on the unit boundary, taking any sort of  
6 control of operations away from DKM.

7 They'll have no say on the economics of the well,  
8 completion of procedures, anything like that, whereas, it looks  
9 like somewhere between -- depending upon whether you want to go  
10 with 80-acre drainage or 160-acre drainage, 30 to 40 percent of  
11 that production is supposed to be -- it will be allocated to the  
12 Dragon Trail Unit, the unit that DKM is in.

13 They haven't -- the Applicant hasn't established the  
14 Commission in 40's yet. They indicated that there are two  
15 situations in the Douglas Creek where they've drilled wells  
16 about a thousand feet apart. If they want to do that in this  
17 situation, they could drill it right where the abandoned house  
18 is located on our topographic map, on Respondent's Exhibit  
19 Number 2, which is looks like we put them well within the  
20 Douglas Creek Unit, and it probably wouldn't drain Dragon Trail;  
21 at least it wouldn't trail it as much as sticking it right on the  
22 line.

23 The Applicant also testified that production is better  
24 near the faults. Well, if you noticed on the Applicant's  
25 Exhibit 13, all of the faults are within the Dragon Trail Unit.

1 That, to me, indicates that what they're doing is snuggling up  
2 to the line in an attempt to get possibly the better production,  
3 the lion's share of which should probably go to the Dragon Trail  
4 Unit.

5 Our testimony has been that even on 80's, there's not  
6 going to be a significant amount of additional gas recovered.  
7 It's an acceleration program, possibly driven by Section 29 Sands  
8 Gas Credit since that's a factor here, but no significant amounts  
9 will ultimately be recovered.

10 The Douglas Creek Unit wants to increase, accelerate  
11 their production. That's fine. They can do that if they want  
12 to. I don't think until you've established that there really is  
13 40-acre drainage out here that they should be allowed to drill a  
14 well in this existing location, where it will impact the rights  
15 of other people who don't feel that 40 acres is economically a  
16 smart idea right now.

17 CHAIRPERSON: Thank you. Any comments, observations,  
18 questions?

19 MR. BUYS: Why don't you want to drill it on your  
20 Point A on your map, your photographs? It's obvious -- I mean,  
21 it appears that it would be an easier location to build.

22 MR. PELLATZ: I think it gets back to the issue that  
23 the core of the debate here is what we feel is the best way to  
24 economically drain this and feel that there's gas left that will  
25 be left unless we have the well at the location that we proposed.

1           Certainly you can put a well down here near that house,  
2 but you would perhaps recover some of that.

3           The feeling is still that you would still leave some  
4 gas that would not be recovered. That's the basic reason is, as  
5 we went through on the earlier exhibits for the sighting of all  
6 these wells, was to go basically into the open spots and put a  
7 well equidistant from the surrounding wells, which is what we've  
8 done here.

9           In this case, unfortunately, it happened to come a  
10 little closer to the Dragon Trail lease line than what the  
11 current rules provide.

12           MR. BUYS: For the non-geologists, non-production  
13 engineers, non-lawyer person, myself, tell me what would be your  
14 proposal so you could drill your well, so you can get your  
15 drainage on the unit that you operate -- and I guess I'll know  
16 before you testify -- and still protect their rights, and that  
17 if there is drainage into the other unit, that they can get  
18 compensated for it?

19           MR. ODELL: We would propose -- let's drill the well,  
20 give us a reasonable amount of time to test it, and then we come  
21 back to this Commission, and in the first instance, we sit down  
22 with the protestor and see if we can possibly agree on what some  
23 formula might be.

24           If that's not possible, then we will come back before  
25 this body and present the evidence that we have, fully expecting

1 you to put some kind of a limitation on production, either from  
2 a volumetric basis as has been done recently, where you  
3 determined what percentage of the reserves belong to the  
4 Applicant and what percent belongs to the Protestant, and you  
5 let the Applicant produce his percentage of reserves.

6 The alternative to that, as the Commission has done,  
7 is some formula of a percentage of the average daily production  
8 of the offset wells.

9 CHAIRPERSON: You think a reasonable amount of time  
10 after drilling a well is a year? Two years?

11 MR. PELLATZ: As Mr. Nichol indicated, that tends to  
12 be somewhat biased by the well itself.

13 It would appear from the decline curves that I've  
14 looked at that some time after the two-year interval, you should  
15 have a very good idea, hopefully, of what the well is doing,  
16 and in some wells, it does take longer than that.

17 Some wells we feel that we have a very comfortable,  
18 as he indicated, first pass, if you will, but the first pass  
19 may not vary very much from the absolute reserves that are  
20 finally determined.

21 Certainly within the two years, you will have -- you  
22 have a reasonable point where you can adequately predict  
23 reserves.

24 CHAIRPERSON: Questions?

25 Logan?

1 MR. MacMILLAN: Are you interested in participating  
2 in the well at all?

3 MR. NICHOLS: No, sir.

4 MR. MacMILLAN: Not at all?

5 MR. NICHOLS: No.

6 MR. SULLIVAN: The position that DKM has taken is that  
7 they obviously don't feel that the well is necessary. They can  
8 wait a year or two longer to have those drained by the existing  
9 wells.

10 If the wells were to be drilled at this location,  
11 which DKM thinks is a lesser alternative, it's not the advisable  
12 one; they don't feel that they should be put at any risk on the  
13 well if they were to come in at pay-out for their proportionate  
14 share.

15 That, in their view, would be, assuming the well is  
16 drilled, that would be the equitable way to do it, right at  
17 pay-out, their proportionate share.

18 The problem with that is that you've got a problem  
19 with determining what the reserves are, and at some point, you'd  
20 have to determine that, and maybe the solution there would be to  
21 have an independent engineer, a third party agreeable to those  
22 two, allocate the reserves between the units after you've got  
23 some production from the well.

24 MR. MacMILLAN: Well, if you're not willing to drill  
25 the well, I'm not sure that we're allowing -- if we carry that

1 scenario further, why should you come in right at pay-out as  
2 opposed to a penalty, because you weren't willing to share in the  
3 capital risk to have the well drilled? Essentially a non-consent.

4 MR. SULLIVAN: These are essentially no-risk wells.

5 MR. MacMILLAN: Well, the reserves are the risk. I  
6 think, yeah, everybody would feel confident that they could drill  
7 a well, case it, perforate it, and get some gas back. The  
8 question really is the reserves -- right? -- the economics of  
9 the well, how well the well performs, and if another operator  
10 is willing to take that risk to drill the well, if one is to  
11 assign you, as a non-participant in that capital risking, an  
12 opportunity to come back at their recovery of the cost to me,  
13 that's contrary to what the rules of the Oil and Gas Commission  
14 have set up previously to allow for proper compensation for that  
15 risk.

16 MR. SULLIVAN: Well, those rules are set up for wells  
17 drilled at a legal location. In this situation, they're not at  
18 a legal location.

19 We won't have any control over the operations of that  
20 well. They're really -- you balance out the capital cost risk,  
21 as you call it, with the fact that there is substantial evidence  
22 to indicate that those reserves will already be drained by the  
23 existing wells.

24 This is just going to increase whatever is there,  
25 whether it's large or small. This new well will just increase

1 the rate at which those reserves are produced.

2 MR. MacMILLAN: Right. And I understand this and  
3 accept that. Let's move on to another concern that I have, and  
4 then come back to this one.

5 I hope that they're all related. If not, then I'm not  
6 thinking right.

7 An easier location, it appears to me from the  
8 topographic map, is actually in Dragon Trail Unit itself, not  
9 out on the topographic point, but slightly to the west where  
10 you see the broadening of the contours and Conoco; you may want  
11 to look at your Exhibit Number 2 with your more detailed  
12 topographic surveys in there, but there's a considerably larger  
13 area there that would accommodate a pad essentially going in any  
14 direction, and it would, from my perspective, be limited as it  
15 serves the interests of filling in the undrained portion that  
16 you believe is still there. Isn't that correct?

17 Am I correct in trying to piece together what it is  
18 that you all are after?

19 MR. PELLATZ: Right. That would be, perhaps, in  
20 viewing the site, a slightly better location. I guess I -- we  
21 have spoken, of course, with DKM. We've been advised that due  
22 to a number of reasons, they do not feel able at this point to  
23 participate in any capital expenditures in the properties that  
24 we operate, and they're the minority interest holders in those  
25 properties in the Dragon Trail.

1           If we move it across the lease line, we'd still be  
2 looking at drilling the well basically at 100 percent Conoco.  
3 They would opt to -- or as they've advised, would tell us to opt  
4 to take their non-consent option. With that, and with also the  
5 rest of the wells, we intend to operate these areas as independent.

6           There's a separate gathering system which Conoco also  
7 operates that serves other wells. With all of the rest of the  
8 activity that we proposed for 1992, it was simpler at that point  
9 to say that we would try to place the well in the Douglas Creek  
10 Unit as far away from the property boundary as we could to keep  
11 everything within the same unit, whether we talk about going in  
12 for any of the gathering system, et cetera.

13           It was just a matter of simplicity, knowing that DKM  
14 already advised us that they weren't willing to participate in  
15 any well in Dragon Trail.

16           MR. MacMILLAN: And at that time when you had those  
17 discussions with DKM, I presume that this location close to the  
18 abandoned house down off the cliff was discussed?

19           MR. PELLATZ: No. We have not discussed that location  
20 at all before today.

21           MR. MacMILLAN: And you heard their location, and your  
22 response is pretty much the same? It's a little bit too close  
23 to the other two wells that exist in that portion of the section  
24 to suit your fancy?

25           MR. PELLATZ: I guess what I would say is basically

1 when we went in to look at this location, trying to find places  
2 or looking at the Douglas Creek Unit to see if we were  
3 adequately draining, in our opinion, the reservoir, we noticed  
4 these areas that we didn't feel we had sufficient wells to drain  
5 in economic times.

6           56 is one of those wells. The location of it was  
7 picked by basically going the distance from the offsetting wells,  
8 both in Douglas Creek and in Dragon Trail, and then trying to  
9 move, using that as the first screening criteria, trying to move  
10 as far away as we can from the lease line, and so the proposed  
11 location at the house would not be equidistant, as you can see  
12 from the offset wells, and therefore, we feel that it wouldn't  
13 do as good of a job of adequately draining this portion of the  
14 reservoir in economic times.

15           MR. MacMILLAN: Yeah. But as they pointed out, it's  
16 not that much further away from the existing wells. As to other  
17 wells that have been provided on your exhibit, we will have a  
18 variety of exhibits. 13 and 14 is the one where you actually  
19 showed the distance between the wells.

20           That's the one which you showed 979 feet between the  
21 Number 28 and the Number 23, and the distance between Wells 40  
22 and 41 is 1,140 feet.

23           MR. PELLATZ: That's correct. And from the rough  
24 scaling that we've both done, it would appear that that location  
25 would be somewhat in the same general vicinity as far as

1 distance-wise.

2 MR. MacMILLAN: And it's your understanding also that  
3 it would meet the requirements, the set-back requirements from  
4 the unit boundary, without having measured it, but eyeballing it?

5 MR. PELLATZ: It would appear. I haven't looked at it.  
6 No. Since we haven't seen that or talked about that location,  
7 haven't measured it, it would appear that you could get far  
8 enough from the unit boundary, yes.

9 MR. MacMILLAN: Okay. To the rest of the Commissioners,  
10 I'm perplexed by this. I'm sorry that you all weren't able to  
11 come to some kind of agreement between yourselves.

12 You know, if you believe in 80-acre spacing, another  
13 well could be put in there somewhere. The set-back from the  
14 unit boundaries, I think, is a fair thing too, or exception to  
15 be given, which Conoco is offering to do at a later time.

16 One's reserve can be determined, but it doesn't sound  
17 to me like these formations are all that amenable to quickly  
18 resolving that, and without the provision of the companies  
19 working together in the risk of capital and so on, I guess we're  
20 allowed to make the decision for them, which we don't have a  
21 vested interest in it, as was pointed out to us by Mr. Welborn,  
22 who says when you guys come to us and ask us for the decisions,  
23 we lay them out for you and boy, you may get stung.

24 Probably not nearly as good as what you can work out  
25 together, if you'll decide to sit down and do that. And I don't

1 know which direction to go.

2 CHAIRPERSON: What's your proposal?

3 MR. MacMILLAN: Well, we haven't seen any data from the  
4 surrounding wells or what their decline curves are like, nor have  
5 we seen what the production performance is from that. Neither  
6 side has presented that.

7 If we were to come back after a well is drilled and  
8 try and determine that, I'll bet you dime to a dollar we'd see  
9 that information from all of the wells, and then there would be  
10 a wrestling match as to which ones were representative of that.

11 I hate to slow down Conoco's program for the year, but  
12 at the same time, we're going to see it later on, one way or  
13 another.

14 MR. CAMPBELL: On the other hand, if it's a 40-acre  
15 drainage, then the well is legal because there's a big hole.

16 MR. MacMILLAN: Yeah, yeah, so I don't have a specific  
17 proposal, other than more data can be provided, but it just  
18 slows down the whole procedure for those people that want to  
19 participate.

20 For those that don't, they haven't lost anything, and  
21 there's another 30 days worth of production, hopefully.

22 MR. BUYS: When were you proposing drilling this well?

23 MR. PELLATZ: Pardon me?

24 MR. BUYS: This is a 1992 well.

25 MR. PELLATZ: Yes.

1 MR. BUYS: Is it at the head of your drilling list or  
2 the bottom of the list?

3 MR. PELLATZ: It will be at the bottom, but these wells  
4 are very shallow.

5 MR. BUYS: How deep?

6 MR. PELLATZ: The deepest would be under 2,500 feet.  
7 They take approximately the bulk of the time to move the rig on  
8 and off location. Total time for drilling is about three days.

9 MR. BUYS: Have you started drilling '92 wells yet in  
10 this unit?

11 MR. PELLATZ: No, we've not. We're in the process of  
12 constructing locations, but have not started any drilling.

13 MR. BUYS: Do you have an approved APD from the BLM  
14 on this?

15 MR. PELLATZ: We have not submitted the APD, pending  
16 the Commission's findings.

17 MR. BUYS: Do you have an official on-site or an  
18 informal on-site with the BLM?

19 MR. PELLATZ: I'm not quite sure what you mean by  
20 official versus unofficial, but we had the BLM representative --  
21 again, those are subject to final findings in the APD process.

22 MR. BUYS: Did you have archeological clearance done?

23 MR. PELLATZ: Yes.

24 CHAIRPERSON: Well, for what it's worth, I think this  
25 is one of those cases where it would have been helpful if this

1 had been more successful in the conversations in the hallway  
2 before than this obviously was.

3 I think the evidence clearly indicates that the well,  
4 if it's going to be drilled, is going to have to be drilled at  
5 some location other than the one required in the existing rules.

6 The topography out there is such that some changes are  
7 obviously necessary. For me, it's a significant fact that there's  
8 contest here or dispute here between the parties as to whether  
9 or not this is a necessary well, but the people who are willing  
10 to put up the money think it's a necessary well, and I think  
11 that's a significant, and probably for me, decisive factor.

12 The Commission has, in the past, and probably will in  
13 the future, grant exceptions with the understanding that the  
14 results of the well will have an effect on the future behavior  
15 and the results might well require that the parties reappear  
16 before the Commission to take further action, but for me, first,  
17 if a well is to be drilled, clearly the topography required that  
18 it be moved; secondly, if it's in doubt as to whether or not the  
19 well is necessary, the people who are willing to spend the money  
20 say it's necessary, and for those reasons, I'd be inclined to  
21 grant the exception.

22 MR. CAMPBELL: I so move.

23 MR. BUYS: Yeah, I second it.

24 CHAIRPERSON: Further discussion?

25 That was easy. All right. The motion to approve the

1 application for an exception location is made and seconded. All  
2 those in favor, indicate by saying aye. Those opposed, same sign.

3 The motion carries.

4 (The proceedings were concluded.)  
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