STATE OF NEW MEXICO 1 ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION 2 State Land Office Building Santa Fe, New Mexico 3 5 June 1985 4 EXAMINER HEARING 5 6 7 IN THE MATTER OF: Application of Southland Royalty Company CASE 8 for a non-standard gas spacing and pro-8608 9 ration unit, San Juan County, New Mexico. 10 11 12 BEFORE: Gilbert P. Quintana, Examiner 13 14 15 TRANSCRIPT OF HEARING APPEARANCES 16 17 18 19 For the Oil Conservation Division: Maryann Lunderman 20 Attorney at Law Energy and Minerals Department 21 Santa Fe, New Mexico 87501 22 23 24 25

MR. QUINTANA: We'll call next Case 8608. MS. LUNDERMAN: Application of Southern Oil Royalty Company for a non-standard gas spacing and proration unit, San Juan County, New Mexico. QUINTANA: Okay, this case MR. been previously heard by Mike Stogner in the case and has readvertised. Are there further--is there further was testimony in this case? Appearances? If not, Case 8608 will be taken under advisement. (Hearing concluded.) 

CERTIFICATE I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Con-servation Division was reported by me; that the said tran-script is a full, true, and correct record of the hearing, prepared by me to the best of my ability. Jaely W. Boyd CSR I do herr the forecoing is a co 💀 the LAC angs in heard by i. c on Oil Conservation Division <del>,</del> Examiner 

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION 1 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 2 22 May 1985 3 EXAMINER HEARING 4 5 6 IN THE MATTER OF: 7 Application of Southland Royalty CASE 8 9509 Company for a nonstandard gas spacing and proration unit, San Juan County, 9 New Mexico. 10 11 12 BEFORE: Michael E. Stogner, Examiner 13 14 TRANSCRIPT OF HEARING 15 16 APPEARANCES 17 18 19 20 Jeff Taylor For the Oil Conservation Division: Attorney at Law 21 Legal Counsel to the Division State Land Office Bldg. 22 Santa Fe, New Meyico 87501 23 24 For the Applicant: William F. Carr Attorney at Law 25 CAMPBELL & BLACK P. A. P. O. Box 2208 Santa Fe, New Mexico 87501

A P P E A R A N C E S Por Duçan, et al: No. Box 208 Parminoton, New Mexico S No. Box 208 Parminoton, New Mexico S Parminoton, New Mexico S Pa
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Attorney at Law Attorney at Law Bugan Production Corpora P. O. Box 208 Parmington, New Mexico S I N D E X B DAVID M. BLANDFORD 10 Direct Examination by Mr. Carr 7 II Cross Examination by Mr. Stovall 19 Redirect Examination by Mr. Carr 19 I3 Cross Examination by Mr. Stogner 21 I4 Cross Examination by Mr. Stogner 21 I5 Recross Examination by Mr. Stogner 24 Redirect Examination by Mr. Stogner 25 19 20
Bugan Production Corpora P. O. Bov 208 Parmington, New Mexico S Farmington, New Mexico S Far
4       Farmington, New Mexico S         5
<ul> <li>INDEX</li> <li>INDEX</li> <li>DAVID M. BLANDFORD</li> <li>Direct Examination by Mr. Carr</li> <li>Cross Examination by Mr. Stovall</li> <li>Redirect Examination by Mr. Carr</li> <li>Cross Examination by Mr. Taylor</li> <li>Cross Examination by Mr. Stogner</li> <li>Recross Examination by Mr. Stovall</li> <li>Recross Examination by Mr. Stogner</li> </ul>
7INDEX89DAVID M. BLANDFORD101112131415151617171819191910111213141516171819192021222324252526
<ul> <li>BAVID M. BLANDFORD</li> <li>Direct Examination by Mr. Carr</li> <li>Cross Examination by Mr. Stovall</li> <li>Redirect Examination by Mr. Carr</li> <li>Cross Examination by Mr. Carr</li> <li>Cross Examination by Mr. Stogner</li> <li>Cross Examination by Mr. Stogner</li> <li>Recross Examination by Mr. Stogner</li> <li>Recross Examination by Mr. Stogner</li> <li>Redirect Examination by Mr. Stogner</li> </ul>
9DAVID M. BLANDFORD10Direct Examination by Mr. Carr711Cross Examination by Mr. Stovall1812Redirect Examination by Mr. Carr1913Cross Examination by Mr. Taylor2014Cross Examination by Mr. Stogner2115Recross Examination by Mr. Stogner2116Recross Examination by Mr. Stogner2417Redirect Examination by Mr. Carr2418Recross Examination by Mr. Stogner2519202020
10Direct Examination by Mr. Carr711Cross Examination by Mr. Stovall1912Redirect Examination by Mr. Carr1913Cross Examination by Mr. Taylor2014Cross Examination by Mr. Stogner2115Recross Examination by Mr. Stovall2316Recross Examination by Mr. Stogner2417Redirect Examination by Mr. Carr2418Recross Examination by Mr. Stogner25192020
11Cross Examination by Mr. Stovall1812Redirect Examination by Mr. Carr1913Cross Examination by Mr. Taylor2014Cross Examination by Mr. Stogner2115Recross Examination by Mr. Stogner2316Recross Examination by Mr. Stogner2417Redirect Examination by Mr. Carr2418Recross Examination by Mr. Stogner25192020
12Redirect Examination by Mr. Carr1913Cross Examination by Mr. Taylor2014Cross Examination by Mr. Stogner2115Recross Examination by Mr. Stovall2316Recross Examination by Mr. Stogner2417Redirect Examination by Mr. Carr2418Recross Examination by Mr. Stogner251920
13Cross Examination by Mr. Taylor2014Cross Examination by Mr. Stogner2115Recross Examination by Mr. Stovall2316Recross Examination by Mr. Stogner2417Redirect Examination by Mr. Carr2418Recross Examination by Mr. Stogner251920
14Cross Examination by Mr. Stogner2115Recross Examination by Mr. Stovall2316Recross Examination by Mr. Stogner2417Redirect Examination by Mr. Carr2418Recross Examination by Mr. Stogner251920
15Recross Examination by Mr. Stovall2316Recross Examination by Mr. Stogner2417Redirect Examination by Mr. Carr2418Recross Examination by Mr. Stogner251920
16Recross Examination by Mr. Stogner?417Redirect Examination by Mr. Carr?418Recross Examination by Mr. Stogner?51920
17 Redirect Examination by Mr. Carr 24 18 Recross Examination by Mr. Stogner 25 19 20
18 Recross Examination by Mr. Stogner 25 19 20
19 20
20
21
22
23
24
25

INDEX JOHN ROE Direct Examination by Mr. Stovall Cross Examination by Mr. Carr Redirect Examination by Mr. Stovall Recross Examination by Mr. Carr Redirect Examination by Mr. Stovall Cross Examination by Mr. Stogner Redirect Examination by Mr. Stovall EMERY C. ARNOLD Direct Examination by Mr. Stovall Cross Examination by Mr. Carr 7 ۲ Redirect Examination by Mr. Stovall Recross Examination by Mr. Carr Cross Examination by Mr. Stogner STATEMENT BY MR. STOVALL 6.8 STATEMENT BY MR. CARR 

		<u>.</u>
1		
2	EXHIBITS	
3		
4	SRC Exhibit One, Composite	1.0
5	SRC Exhibit Two, Cross Section	14
6		
7	Dugan Exhibit Number One, Map	2.8
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

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Ē, 1 MR. STOGNER: We'll call next 2 Case Number 8608. 3 MR. TAYLOR: Application of 4 Southland Royalty Company for a nonstandard gas spacing and 5 proration unit, San Juan County, New Mexico. 6 MR. CARR: May it please the 7 Examiner, my name is William F. Carr, with the law firm 8 Campbell and Black, P. A., of Santa Fe, appearing on behalf 9 of Southland Royalty Company. 10 We have one witness. 11 MR. STOGNER: Are there any 12 other appearances in this matter? 13 MR. STOVALL: Yes, Mr. Exam-14 iner. Robert G. Stovall of Dugan Production, appearing on 15 behalf of Dugan Production and also on behalf of Emery A. --16 Emery C. Arnold, Steven Arnold, and Lola N. Arnold, in oppo-17 sition. 18 19 MR. TAYLOP: Okav, what was your last name? 20 21 MR. STOVALL: Stovall, S-T-O-V-22 A-L-L. 23 MR. STOGNER: Mr. Stovall, are you an attorney? 24 25 MR. STOVALL: Yes, I am.

C, MR. STOGNER: In Farmington or 1 2 MR. STOVALL: Farmington. 3 MR. STOGNER: You've appeared 4 before here before? 5 MR. STOVALL: I have been here. 6 I've never actually appeared before. 7 MR. STOGNER: Okay. Who are 8 you appearing on behalf, Dugan? 9 MR. STOVALL: Dugan Production, 10 may I say the Arnold Family, that would be Emery C. Arnold, 11 Lola Arnold, and Steven Arnold. 12 MR. STOGNER: Do you have any 13 witnesses? 14 MR. STOVALL: I have two wit-15 nesses. 16 MR. STOGNER: 17 Are there any other appearances? 18 Will all three witnesses please 19 20 stand and be sworn? 21 (Witnesses svorn.) 22 23 MR. CARR: At this time I'd 24 25 call Dave Blandford.

7 1 DAVID M. BLANDFORD, 2 being called as a witness and being duly sworn upon his 3 oath, testified as follows, to-wit: 4 5 DIRECT EXAMINATION 6 BY MR. CARR: 7 0 Will you state your full name and place 8 of residence? 9 David Michael Blandford. I live in Dur-А 10 ango, Colorado. 11 Mr. Blandford, by whom are you employed 0 12 and in what capacity? 13 А I'm employed by Southland Royalty Company 14 as a petroleum engineer. 15 Have you previously testified before the Q 16 Oil Conservation Division and had your credentials accepted 17 and made a matter of record? 18 А No, I have not. 19 Would you review for Mr. Stogner your 0 20 educational background and your work experience? 21 А I received a Bachelor of Science degree 22 in civil engineering from Colorado State University in 23 December, 1980, at which time I was employed by Texaco and 24 assigned to the Cortez Office and worked in the Four Corners 25

2 area as a production engineer for two and a half years. 1 then assigned to the Division Office Was 2 in Denver; worked there for a little over a year. 3 In August of 1984 I accepted employment 4 with Southland Royalty in Farmington, New Mexico, where I've 5 been employed since that time. 6 0 Does your area of responsibility 7 for Southland include the area in which today's proposed spacing 8 unit lies? 9 A Yes, it does. 10 0 Are you familiar with the application 11 filed in this case on behalf of Southland? 12 Yes, I am. А 13 Are you familiar with the subject area? Q 14 Yes. А 15 Q Are you familiar with Southland's plans 16 to develop the subject acreage? 17 Yes, I am. 18 Α MR. CARR: 19 Are the witness' qualifications acceptable? 20 MR. STOGNER: They are. 21 22 0 Blandford, would you briefly state Mr. 23 what Southland Royalty Company is seeking with this applica-24 tion? 25 А Okay. Southland Royalty is seeking a

Q, 160-acre nonstandard proration unit for the northwest guar-1 ter of Section 15, Township 29 North, Range 14 West, in San 2 Juan County. 3 0 And why is Southland Royalty Company 4 seeking this nonstandard unit? 5 А To limit the unit to productive acreage 6 in the section. 7 0 Will the well that Southland proposes to 8 drill on this spacing unit be located at a standard loca-9 tion? 10 А Yes, it will. 11 Q And what is the primary objective in that 12 well? 13 А The Basin Dakota Pool. 14 0 What is the standard spacing for 15 the Basin Dakota Pool? 16 320 acres. Α 17 Q Has infill drilling been approved in this 18 19 pool? Yes, it was by Order R-1670-V. 20 А And what is the effective spacing pattern Q 21 as a result of the infill drilling order? 22 160 acres. А 23 24 Q Is the Basin Dakota Pool a prorated pool? 25 А Yes, it is.

10 Have you prepared certain exhibits for Q 1 introduction in this case? 2 Yes, we have. А 3 Would you refer to what has been marked 0 4 for identification as Southland Royalty Company Exhibit 5 Number One and identify this for the Examiner? 6 Would you first refer to the type log on 7 Exhibit One and review this, please? 8 А Figure Number Three on Exhibit One is 9 a type log of Southland Royalty's Lot No. 1, which is located 10 in Section 3 of 29 North, 14 West. 11 The log is a copy of the Dakota and we 12 have divided that into three main zones. 13 The top zone is actually the Graneros, 14 which we call the upper bar complex, a series of marine 15 sandstones. 16 The middle zone is actually the 17 main Dakota pay and as we've called, the lower bar complex, 18 and the Lower Dakota, below that, is a channel complex, which we 19 call a channel complex. 20 Mr. Blandford, would you go to Figure 0 21 Number Two and identify that and explain what that shows? 22 А Okay. We will progress through this log. 23 24 We have a net pay Isolith for each zone we have divided the Dakota into, and we will work from the bottom up. 25

11 The first is the Dakota channel complex, 1 which is normal to the northeast strike of the main Dakota 2 pay and we show in the proposed location in the northwest 3 quarter of Section 15 that the net pay does not exist. The 4 net pay was contoured on a resistivity of greater than or 5 equal to 15 ohms and a porosity of greater or equal to 6 6 percent. 7 0 Now, if we look at Figure Number Two, the 8 proposed location is indicated by an arrow, is that correct? 9 That is correct. А 10 And what is the dashed line that is imme-0 11 diately south of that? 12 А This is an approximate boundary of the 13 Navajo Indian Reservation. 14 Would you now go to Figure Number 15 Q Five and review that for Mr. Stogner? 16 Figure Number Five is an Isolith map of A 17 18 the net pay in the lower bar complex of the main Dakota pay, which is the main objective of the proposed well. 19 We project there will be between 5 and 10 feet of net pay, 20 net Dakota pay, based on resistivity of 50 ohms and porosity of 21 6 percent at the above location. 22 Would you now go to Figure Number 23 0 Four and review that? 24 25 Figure Number Four is a map of the Gran-А

1 eros, or upper bar complex, and it is mapped also on a re-2 sistivity cutoff of 50 ohms and a porosity of 6 percent and 3 we expect no upper bar complex net pay at the proposed loca-4 tion.

12

Q So the main Dakota pay is the only zone
which you would anticipate to contain commercial reserves
under the proposed location.

A That is correct.

9 Q Now if you would go to the structure map,
10 which is Figure Number One on Exhibit One, and explain the
11 significance of the structure map to the Examiner.

12 A The structure map shows the dip of the 13 Dakota formation and as we move to the southeast, which is 14 in the direction of the trend we are following with our pro-15 posed well, we are moving up dip and towards the Dakota out-16 crop, which we suspect to be wet, as we extend up dip.

17 Q Have you run production tests on the 18 McWhorter Duncan No. 1, the well immediately north of the 19 proposed location?

20 A The McWhorter Duncan No. 1, which is in
21 the southwest guarter of Section 10, has not been connected
22 to a pipeline but we've conducted recent production tests,
23 which show that the well is making an average of 45 barrels
24 of water a day.

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Do you have a water analysis on that

13 water? 1 Yes, we do. А 2 What does that show? Q 3 That shows it to be formation water. А 4 MR. STOGNER: Mr. Blandford, 5 before you continue with Exhibit Number Two, could you go 6 back over here to Exhibit Number One, Figure Number One, and 7 explain to me again what the shaded areas stand for and what 8 the different shaded areas are? 9 А Okay, the shaded areas are Southland Roy-10 alty acreage in the area. Okay, and this shaded area right 11 here, of course, is our requested nonstandard proration 12 unit, and the shaded acreage is what we have already gotten, 13 as far as leasehold purchases. 14 MR. STOGNER: That's the one 15 with the dots. 16 Right. 17 А 18 MR. STOGNER: How about the Figure One to the north with the --19 20 A The diagonal lines on it? MR. STOGNER: Yes. 21 А The diagonal lines? That is our acreage, 22 23 also. I'm not familiar with exactly -- I don't know why 24 that is hatched diagonally and this is just dotted. 25 These are farmouts, farmout acreage, and

14 this is acreage we've acquired ourselves. 1 MR. STOGNER: "These" being the 2 east half of Section 3 and the other is --3 Right, and I'm not sure exactly what this Α 4 is but I --5 MR. STOGNER: Okay, thank you. 6 Would you now go to Exhibit Number Q Two 7 and review that exhibit for Mr. Stogner? 8 Α Okay. We have here a cross section of 9 the Dakota, striking from south to north from our McWhorter 10 Duncan No. 1 to our Lot No. 2 and to our Lot No. 1 Well. 11 The Lot No. -- we'll go from south to 12 north because that's the orientation of the cross section. 13 The latest well drilled was the McWhorter 14 Duncan No. 1, and it was drilled in May of 1984, and it is 15 completed in the lower bar -- channel complex, from the 16 channel complex, the lower bar complex, and in the upper bar 17 18 complex. This is a well we're production testing 19 right now and it is producing about 45 barrels of water 20 per day. 21 The next well in the cross section is the 22 Lot No. 2. The well potentialed for 2544 MCF a day and is 23 currently waiting on pipeline connection. We do not have 24 tests beyond our initial potential tests on this well. 25 It

15 should be connected within the next two weeks or so. 1 The northernmost well is the Lot No. 1, 2 which potentialed for 670 -- 666 MCF a day and is perforated 3 only in the main Dakota pay, or the lower bar complex, and 4 it's currently producing into a pipeline right now; making 5 about one barrel of water a day. 6 So as we move from north to south we seem 7 to be picking up a little water production. 8 Blandford, what conclusions can you Q Mr. 9 reach from your general study and review of this area? 10 А Based on our conclusions, as we move 11 south southwest and up dip in the Dakota formation we're 12 moving into potentially wet sands. 13 0 Do you have an opinion as to what acreage 14 in Section 15 is capable of contributing commercial produc-15 tion to a well located thereon? 16 Just the northwest quarter. А 17 And as you move toward the south, are you 18 Q moving away from the existing production in the area? 19 Yes, we are. 20 А 0 And are you moving toward dry holes? 21 22 Yes. Λ Are there dry holes shown on any of these 23 Q maps? 24 25 А Just in -- there's a dry hole in the

16 southwest quarter along the same trend. 1 And it's several miles away. Q 2 А Yes, it is. 3 In your opinion will granting the appli-0 4 cation of Southland Royalty Company be in the best interest 5 of conservation, the prevention of waste, and the protection 6 of correlative rights? 7 Yes, it will. А 8 0 Ιf additional acreage other than the 9 northwest quarter is placed in the spacing unit from which 10 this well produces, what effect will that have on Southland? 11 It may potentially cause us not to drill А 12 the well. 13 0 And if you don't drill the well, would 14 that result in hydrocarbons being left in the ground? 15 Yes, it will. А 16 If you do drill the well and have 17 Q this other acreage included, what would that do to your interest? 18 Well, it could potentially dilute our in-А 19 terest and we may have to carry more interest through 20 the drilling of the well and as the prospect is somemwhat mar-21 ginal at this point, it may kill the well altogether, as far 22 as we're concerned. 23 If your interest is diluted, would that 0 24 impair your correlative rights; if the interest of Southland 25

17 is diluted with this other acreage, would that impair the 1 correlative rights of Southland Royalty Company? 2 Yes. А 3 0 Have you reviewed Exhibits One and Two 4 and can you testify from our own knowledge as to their ac-5 curacy? 6 А Yes, I can. 7 MR. CARR: At this time, Mr. 8 Stogner, we would offer into evidence Southland Royalty Com-9 pany Exhibits One and Two. 10 STOGNER: Exhibits One and MR. 11 Two will be admitted into evidence, if there are no objec-12 tions. 13 MR. STOVALL: There's no objec-14 tion. 15 Mr. Blandford, does Southland request Q 16 this order to expedited? 17 Yes, we do. А 18 Q And why is that? 19 А We have a lease in the northwest guarter 20 of the section that's expiring on June 30th. 21 0 Do you have anything further to add 22 to your testimony? 23 24 А No, I do not. 25 MR. CARR: That concludes my

18 direct examination of Mr. Blandford. 1 MR. STOGNER: Mr. Stovall, your 2 witness. 3 MR. STOVALL: Just a couple of 4 questions, Mr. Examiner. 5 6 CROSS EXAMINATION 7 BY MR. STOVALL: 8 Q Now, based upon your -- particularly your 9 Exhibit Number One, is it not true that your proposed loca-10 tion is in fact at the outer edge of the known Dakota Field 11 in this area? 12 А Yes. 13 Q Does that not mean that your geology of 14 the proposed location is actually based upon projections and 15 not on known data? 16 Yes, it is. Α 17 18 0 Are you aware of any other wells within Section 15, the section in which you're proposing to drill 19 your well, any other wells penetrating the Dakota formation? 20 No, I'm not. Α 21 MR. STOVALL: I have no further 22 guestions. 23 MR. STOGNER: Thank you, 24 Mr. Stovall. 25

19 Mr. Carr, any redirect? 1 MR. CARR: No redirect. 2 MR. STOVALL: Excuse me just a 3 minute, Mr. Examiner. 4 One other question, if I may. 5 You mean, you did make the statement that 0 6 the infill drilling program in the Basin Dakota Pool effec-7 tively established a 160-acre spacing. 8 А Yes. 9 0 Is that -- that's not actually a correct 10 statement, is it, that the true spacing for that field is 11 320 acres. 12 That is correct. А 13 With the option. Q 14 А Option to drill one infill well. 15 MR. STOGNER: Mr. Carr. 16 17 REDIRECT EXAMINATION 18 BY MR. CARR: 19 Q Mr. Blandford, are you familiar with Or-20 der R-1670-V, which was entered by the Division approving 21 infill drilling in this pool? 22 Α Yes, I was. 23 24 Q Are you aware of anything in that order which relates to the effective drainage of wells in this 25

20 pool? 1 Just that it states that a 300 -- a well А 2 spaced on 320 acres will not effectively drain the Dakota 3 formation. 4 MR. CARR: If it -- with the 5 permission of the Examiner, I would request that you take 6 notice of Findings 13 through 17 of Order R-1670-V. 7 MR. STOGNER: The Findings 13 8 through 17 of Order --9 MR. CARR: Of Order 1670-V. 10 MR. STOGNER: Administrative 11 notice will be taken. 12 MR. CARR: I have nothing fur-13 ther. 14 MR. STOGNER: Are there 15 any other questions of the witness? 16 MR. TAYLOR: Yes, I have some. 17 18 CROSS EXAMINATION 19 BY MR. TAYLOR: 20 You stated that dilution of your interest 0 21 would impair correlative rights, your correlative rights. 22 А Yes. 23 Could you explain that? 24 0 25 А Dilution of our interest such that we

21 have to carry more interest over the -- over the life of the 1 well will impair our rights, as it will make -- we will have 2 less production for the money spent on the project. 3 We will net less. 4 Q Okay. 5 6 CROSS EXAMINATION 7 BY MR. STOGNER: 8 Q Mr. Blandford, you were asked if other 9 interest -- that other interest would dilute your interest, 10 that's essentially the statement, I think that's right. 11 What other interest were referred to? 12 Well, there -- there are certain leases Α 13 that are not -- that we do not have under our jurisdiction 14 at this point and we feel that these leases may have to be 15 force pooled and through force pooling we will potentially 16 have to carry interest for the well and that could dilute 17 our interest in the well. 18 So to set up a standard 320-acre, 19 0 or thereabouts, would dilute your interest. 20 Most potentially, yes. 21 Α And we're talking about a standard 320 22 Q taking in the west half or the north half of Section 15? 23 The west half. Α 24 The west half. 25 0 Mr. Blandford, do you

22 know of any other Basin Dakota wells or any wells that pene-1 trated the Basin Dakota to the south of your proposed loca-2 tion? 3 Α There are some wells to the northeast --4 or to the southeast, excuse me, shown on these maps over 5 here, where we have looked at the logs of those wells and 6 determined that based on our definition of net pay, net pay 7 does not exist in those wells. 8 0 And you're referring to those maps on 9 Figure One, I mean Exhibit One. 10 Yes, on Exhibit One. Α 11 Does Southland control all the interest Q 12 at this time in the northwest quarter of Section 15? 13 No, we do not. А 14 What part don't they control then in that Q 15 160? 16 А There's a 20-acre section that's being 17 subdivided by Foutz and Foutz that we do not currently con-18 trol. 19 And they are the interest owners? Q 20 Α For the most part, yes, sir. In the sub-21 division there is lot that they have released the mineral 22 interest on, but they own the majority of interest in that 23 24 20-acre plot. 25 I assume, since you're ot asking for com-Q

23 pulsory pooling that you'll be gaining those interests in a 1 short time. 2 MR. CARR: Mr. Examiner, if we 3 cannot gain those interests in a very short time we will be 4 back for a compulsory pooling. 5 MR. STOGNER: Thank you, Mr. 6 Carr, for clearing that up. 7 I have no further questions for 8 Mr. Blandford. 9 Are there any other questions 10 of this witness before --11 STOVALL: I'd just like to MR. 12 ask one other queston. 13 14 REDIRECT EXAMINATION 15 BY MR. STOVALL: 16 0 Are you committing all of your interest 17 which you have in the west half of Section 15 to this well? 18 Is there any interest which Southland has in Section 15 19 which is not being committed to this well? 20 If this order is granted, yes. 21 Α 0 What interest would that be? Can you 22 identify it? 23 24 Α It would be in the southwest quarter of the section; the interest, shadded interest in the southwest 25

24 quarter of the section. 1 And do you know who -- that is leased by Q 2 Southland? 3 Α Yes, it is. 4 0 And do you know who you are leasing 5 it from? 6 The Arnold Family. 7 Α 8 RECROSS EXAMINATION 9 BY MR. STOGNER: 10 Q That would appear to be roughly 60 acres, 11 is that right? 12 13 А More or less. Q More or less, okay. 14 15 MR. STOGNER: Any other questions of this witness? 16 Mr. Carr. 17 18 19 REDIRECT EXAMINATION BY MR. CARR: 20 21 0 Mr. Blandford, we don't want you to get off easily. 22 23 А Okay. 24 If a north half unit, standard 320-acre Q unit were dedicated to this well, there's acreage in the 25

25 northeast quarter that would share in the production, is 1 there not? 2 That is correct. А 3 And this would dilute the interest of 0 4 Southland Royalty, would it not? 5 Α Yes, it would. 6 If there is a west half unit, there's ac-Q 7 reage in the southwest quarter that would also share in pro-8 duction from that well, is that not true? 9 А And what effect would that have on South-10 land? 11 That would dilute our interest. Α 12 0 And would that impair your correlative 13 rights? 14 Yes. Α 15 MR. CARR: Nothing further. 16 17 18 RECROSS EXAMINATION BY MR. STOGNER: 19 0 Aren't your interests diluted somewhat 20 nw, even if you got a 160-acre --21 Ά Yes. 22 How much is it diluted? Q 23 Depends on the agreement we come up with А 24 on the forced pooling. 25

26 MR. CARR: That's right. 1 MR. STOGNER: Is there any 2 other questions of Mr. Blandford? 3 If not, he may be excused. 4 Thank you. Α 5 STOGNER: think we're MR. I 6 ready to proceed, Mr. Stovall. 7 STOVALL: I'll call MR. Mr. 8 John Roe. 9 Prior to examining this wit-10 Mr. Examiner, I'd like to present a letter which was ness, 11 hand delivered to Southland Royalty about two days ago. 12 Dugan Production, Mr. Tom Dugan 13 has previously signed a waiver on this application before 14 thoroughly examining that. 15 We are at this time withdrawing 16 our waiver and so notified Southland. 17 MR. STOGNER: 18 Before we continue, Mr. Carr --19 MR. CARR: Yes. 20 MR. STOGNER: -- are you aware 21 of this letter? 22 MR. CARR: -- but we don't dis-23 24 pute the fact that Mr. Dugan is withdrawing his waiver. MR. STOGNER: Okay. 25 MR. CARR: We'd ask that the

27 letter be included in the record of the proceeding but we're 1 aware that Mr. Dugan is in opposition. 2 MR. STOGNER: Mr. Stovall, what 3 was the date of the waiver that this letter withdrew? 4 STOVALL: To be quite MR. 5 honest, sir, I can't answer that question because I never 6 saw it. The information that I have, that it was submitted, 7 Dugan told me it was submitted. It may be, I don't Mr. 8 know, Southland may have it. We don't have the waiver in 9 hand. 10 MR. STOGNER: We will take 11 notice of this letter of Dugan Production Corporation to 12 Southland Royalty dated May 20, 1985. 13 Please continue, Mr. Stovall. 14 MR. STOVALL: This witness, as 15 I said, is Mr. John Roe. 16 17 JOHN ROE, 18 being called as a witness and being duly sworn upon his 19 oath, testified as follows, to-wit: 20 21 DIRECT EXAMINATION 22 BY MR. STOVALL: 23 Q Mr. Roe, would you state your name and 24 address and place of employment? 25

28 Α My name is John Roe. I live in Farming-1 ton, New Mexico, and I am employed by Dugan Production as a 2 petroleum engineer. 3 Roe, have you ever testified before 0 Mr. 4 this Commission and had your credentials accepted? 5 Yes, I have. Α 6 MR. STOVALL: I would move that 7 Mr. Roe be admitted as an expert. 8 MR. STOGNER: If there are no 9 objections --10 MR. There are no objec-CARR: 11 tions. 12 STOGNER: MR. -- Mr. Roe is so 13 gualified. 14 Q Are you familiar with the application in 15 this case, Mr. Roe? 16 Yes, I am. А 17 Q Does Dugan Production have an interest in 18 this matter? 19 Α We have an interest relative to this mat-20 ter from the standpoint that we have a leasehold interest in 21 acreage that offsets the quarter that is involved in the 22 nonstandard proration unit. 23 Would you refer to what has been marked Q 24 as Dugan Production Corporation Exhibit Number One and iden-25

29 tify that --1 Okay. Α 2 0 -- acreage in which we have lease inter-3 est? 4 Α The Exhibit Number One is a copy of a 5 copy of a map that's provided by El Paso Natural Gas of well 6 locations in the San Juan Basin. 7 I've made a reproduction of their map and 8 on that map I've identified in the cross hatched unit, the 9 northwest quarter of Section 15 of Township 29 North, Range 10 14 West, which is the 160-acre unit that Southland proposes 11 to establish as a nonstandard unit. 12 Dugan Production has leasehold interest 13 in the northeast quarter of Section 15 immediately adjacent 14 to this 160 in the northwest guarter. Our lease comprises 15 approximately 108 acres in the northeast quarter, consisting 16 of the north half of the northeast quarter and the southeast 17 18 guarter of the northeast guarter. Would that acreage be included in a 19 0 standard proration unit consisting of the north half? 20 А If a standard proration unit were estab-21 lished comprising the north half, yes, that would be 22 included. 23 Q Is Dugan Production Corporation opposed 24 25 to this application?

We are -- we are opposed to the estab-А 1 lishment of a 160-acre production unit within the bounds of 2 the Basin Dakota Field, which is being developed on 160-acre 3 spacing units. 4 are not opposed to Southland drilling We 5 a well in the northwest quarter. 6 0 Excuse me, if I may correct, is it being 7 developed on 160-acre spacing unit or 320-acre spacing unit? 8 А The Basin Dakota is developed on 320 and 9 we're opposed to the establishment of a 160 unit within the 10 bounds of the pool that has been developed on 320 acres. 11 Can you tell me why Dugan is opposed 0 to 12 this nonstandard 160? 13 А Because it is our opinion that there is 14 no actual evidence in support of the establishment of 160-15 acre nonstandard unit. There are no wells that have pene-16 trated the Dakota within Section 15. The testimony 17 that we've heard from Southland is based upon geology. 18 Ιt projects the Dakota development onto 15. There are no wells to 19 the south of Section 15, or at least within a near vicinity, 20 the nearest well being approximately five miles to 21 the southwest. 22 0 Can you, referring again to the 23 Dugan Production Exhibit Number One, can you identify any wells 24 25 which -- within this area, which have penetrated the Dakota

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31 formation? 1 Yes, I can. Based upon our research, the Α 2 only wells that penetrated the Dakota formation in this gen-3 eral vicinity are to the north and mainly to the northeast. 4 Directly offsetting the acreage in the 5 southwest quarter of Section 10, Southland has drilled the 6 McWhorter Duncan Well and it has completed that well on June 7 5th of 1984. 8 This well is located in Unit K of Section 9 10. 10 As of this date the well has not pro-11 It tested at a rate of 1891 MCF a day on the standuced. 12 dard 3-hour one-point test. 13 In addition, moving to the north, the Da-14 kota was penetrated by a well completed by Southland in 15 the northeast quarter of Section 10, their Lot No. 2. This well 16 was completed in February, 1984. Again, this well has not 17 produced. 18 It has been shut-in since completion. The only production information we have was that tested during com-19 pletion, during which time it flowed a rate of 2544 MCF a 20 day on a 3-hour potential test. 21 And the next, the next well of interest 22 in the general vicinity would be a well that Souththat's 23 land also completed in the southeast quarter of Section 3. 24 25 It's their Lot No. 1. This is the only

32 well within this area that has any production at all, other 1 than that tested during completion. 2 Lot No. 1 was completed in June The of 3 183. It tested at a rate of 666 MCF a day on a one-hour --4 or at the end of three hours on a standard 3-hour flow test 5 and as of April 1st, cumulative production amounts to 10,764 6 MCF. 7 With the exception of the Lot No. 1 there 8 is no production history from this area and the Lot No. 1 is 9 approximately a mile and a half from the proposed location 10 that Southland proposes in the northwest quarter of Section 11 15. 12 Based upon the information which you have 0 13 personal knowledge of, and the testimony presented by 14 Southland Royalty, do you have an opinion as to whether 15 or not you could limit the production from the Dakota formation 16 to the northwest quarter of Section 15, or whether the Basin 17 18 rules, proration rules should apply? It is my firm opinion that there is Α 19 no 20 data that exists that could preclude the development of the Dakota formation from the southwest quarter of Section 15 or 21 the northeast quarter of Section 15, which would be 22 the quarters that would be involved should a standard 320-acre 23 unit be established for this well. 24 25 0 You heard testimony by Southland that --

33 to the effect that they feel their interest would be diluted 1 by having a standard proration unit in this -- in Section 2 15. Did you not hear that testimony? 3 It's my opinion that that's --I did. Ά 4 any time you have less than 100 percent of acreage that that 5 is a factor, yes. 6 If a standard proration unit were estab-0 7 lished which included -- which was the north half of Section 8 15, I believe you testified before that would include ac-9 reage which Dugan Production now holds, is that correct? 10 That is correct. А 11 Do you have any knowledge of whether 0 or 12 not Dugan Production would be willing to join in drilling of 13 the well in Section 15, in the northwest guarter of Section 14 15 and commit their acreage to it? 15 Α As I previously indicated, Dugan Produc-16 tion is not opposed to Southland's plan to drill a well. 17 We 18 would -- we're not even advocating that the production unit be the north half. 19 20 Should that be the case, we woud either join or we would work with Southland in any manner that 21 would result in them being able to drill a well with farming 22 out or participating. 23 Q And that would, in effect, negate any di-24 lution of -- of Southland's interest in the well, is that 25

| correct, or reduce --

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A It would reduce their portion of the total production to come from the wel but, likewise, any cost
that would be resulting, or that would be incurred in drilling a well, would be also reduced and shared.

6 Their actual interest would not be di-7 luted percentagewise. It would be basically the same per-8 centage that they would have had they had 100 percent inter-9 est. They'd be sharing less of the production because they 10 have less of the total acreage.

Now, again, it would be my opinion that the only way Southland's interest could be diluted is if it could truly be proved that the Dakota was productive only under the northwest guarter of Section 15, and we don't believe that that data exists.

16 Q Do you believe that the granting of this 17 application would be in the best interests of conservation, 18 prevention of waste, and protection of correlative rights?

19 A It is my opinion that should a nonstand20 ard production unit be established, that not only Dugan Pro21 duction's leasehold interest, but the people we have under
22 lease, their correlative rights would not be protected un23 less an additional nonstandard unit were to be drilled in
24 the northeast quarter.

MR. STOVALL: I have no further

35 questions. 1 MR. STOGNER: Mr. Carr, your 2 witness. 3 4 CROSS EXAMINATION 5 BY MR. CARR: 6 Q Mr. Roe, what interest does Dugan Petro-7 leum Corporation, or Mr. Dugan, own in the northwest guarter 8 of this section? Does he own anything there? 9 А No, sir, we have no leasehold interest in 10 the northwest quarter. 11 a north half unit were developed 0 Ιf in 12 the north half of Section 15, do you know what percent of 13 that north half unit Mr. Dugan would actually own? 14 А It would be approximately 108/320ths, or 15 roughly, a third. I haven't figured that out exactly but 16 our acreage in the northeast guarter is approximately 17 108 acres. 18 And a north half unit would satisfy 0 Mr. 19 Dugan's concern? 20 We would be pleased with a north half Α 21 unit from the standpoint that our acreage would be repre-22 sented by production; however, as I indicated, we're not ob-23 jecting even to a west half. 24 We're just objecting to the development 25

36 of the production unit that is inconsistent with the pool 1 rules. 2 Now, if a west half unit, if I understand Q 3 your testimony, then, would not be objectionable to you. 4 That is correct. Α 5 And you would have no interest in a west 0 6 half unit whatsoever. 7 That is correct. Α 8 Q And you would be free, in that instance, 9 to drill an east half unit if you -- if you desired? 10 Α That is correct. 11 And you would be able to produce a full 0 12 allowable from your well, at least in terms of the acreage 13 factor, from an east half unit. 14 Yes, sir. Α 15 0 And if the northwest quarter is approved 16 as a nonstandard unit, you would still have the opportunity 17 to develop with an east half unit, would you not? 18 А Yes, you're exactly right, but then we 19 would have a standard unit offsetting a well that's devel-20 oped on a nonstandard, and we'd then be in a position that 21 an additional nonstandard unit would be necessary in the 22 southwest quarter. 23 And do you have any interest 0 in 24 the southwest quarter that you're interested in protecting with 25

this testimony today?

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2	A We do not, It would be, basically,
3	though, placing the leasehold ownership in that guarter in a
4	position that in order to protect their correlative rights,
5	that they would absolutely have to drill a third well in
6	Section 15, where the pool rules provide that more than two
7	wells within a section are necessary only if the operator
8	views it is necessary from an economic or necessary to pro-
9	tect drainage.
10	Q Have you had much personal experience in
11	drilling wells in the Dakota pools, in the Basin Dakota
12	Pool?
13	A I'm glad you asked that question because
14	our attorney was supposed to ask that question.
15	We have just recently we operate 8
16	wells located in the general vicinity to the northwest in
17	what we call our Turk's Toast area. That development has
18	been recent.
19	Dugan Production also operates 21 wells
20	in Townships 29 and 30 North and Ranges 14 West, just to the
21	I've identified on Exhibit One wells that have penetrated
22	the Dakota based upon my research.
23	I've identified those with a circle and
24	the majority of those wells are wells that Dugan Production
25	operates.

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38 Q How long have you been with Dugan Produc-۱ tion Company? 2 Α I have been with Dugan Production since 3 the last part of August, 1982. 4 0 Are you familiar with the acreage posi-5 tion of Mr. Dugan in the area? 6 Yes, I am. Α 7 Are you aware that the acreage which 0 is 8 the subject of today's hearing was actually acquired by 9 Southland from Mr. Dugan? 10 Yes, I am. Α 11 And do you have any idea how long Mr. Du-0 12 gan held that acreage prior to conveying it to Southland? 13 I am unaware of that. А 14 Do you have any information as to why Mr. Q 15 Dugan did not elect to develop this acreage? 16 I only have an opinion that it was pos-17 А sibly because we did not have plans to drill acreage and we 18 had indication from Southland that they had a desire 19 to drill on acreage, and the farmout arrangement which was 20 made, which it's my understanding was the Dakota rights on-21 ly, was basically in a manner that Dugan Production would be 22 happy with. 23 Now based on your experience in the area, 0 24 do you believe that Basin Dakota wells drill at -- drain 320 25

39 acres? 1 Α There has been a tremendous amount of 2 testimony presented on that. It is my personal opinion that 3 it's not likely that in this particular area a Dakota well A will drain 320 acres, that's correct. 5 Are you familiar with the infill order 0 6 for the Basin Dakota, Order R-1670-V? 7 Yes, I am. А 8 And you are aware that that order pro-0 9 vides that additional wells are necessary on each 320-acre 10 tract to effectively and efficiently drain the reserves? 11 I am not sure that the order says they're А 12 The -- it's an additional well within an estabnecessary. 13 lished 320 can be drilled if it is the opinion of the opera-14 tor that it is -- it's the operator's option, but it's not 15 established that it has to be drilled. 16 The order probably speaks best for 0 it-17 self. 18 Could I hand you a copy of what's been 19 marked -- or a copy of Oil Conservation Division Order R-20 1670-V and ask you just to read into the record Finding 13? 21 Finding 13 of the Order 1670-V Α Okay. 22 states that, that the producing formation of the Basin Dako-23 ta Gas Pool is comprised of various sands of low permeabil-24 ity and porosity which are not being effectively and effi 25

ciently drained by existing wells in the various proration 1 units in the pool, and which can be more efficiently and ef-2 fectively drained by the drilling of additional wells pur-3 suant to the rule changes proposed by the applicant. 4 Thank you. Now if -- if we look at your  $\cap$ 5 Exhibit Number One and the proposed location for the South-6 land Royalty Company well, in your professional opinion will 7 a well at that location drain substantial reserves from the 8 southwest quarter of Section 15? 9 Α I, based upon what I know about the area, 10 it's not likely that that will happen, but also based upon 11 what I know about the Dakota and with reference to the 12 potentials that I -- I identified in my earlier testimony, 13 within a half mile location offset that Southland has, they 14 tested a well that had deliverability of 666. 15 Adjacent to that, the next location 16 2.5-million, and then within that half mile location south, 17 18 they had a well with 3.9-million. So, until you actually have a test of the 19 Dakota to know what acreage that well really has ability to 20 drain, it's almost impossible to predict. 21 The information available from a geologic 22 0 point of view in this general area, particularly in Section 23 15, is limited at best. Is that a fair characterization? 24 25 А That is the basis for our feeling that

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41 for our feeling that you cannot project the development of 1 the Dakota solely upon the northwest quarter, yes, sir. 2 And when the well that is proposed in the 0 3 northwest quarter is drilled, if in fact it is drilled, that 4 would give additional data, provide additional data that 5 would enable all operators or interest owners in that sec-6 tion to evaluate the property. 7 That is correct. А 8 And the information on that well might, 0 9 in fact, have an adverse effect on the values of everyone in 10 that -- that section. 11 Yes sir, you're right. It could. Α 12 And it could also have the flip side 0 of 13 It could also prove up or improve the potential that. or 14 the perceived potential for the entire section. 15 Yes, sir, that's correct. Α 16 0 And if, in fact, that is a very good 17 well, it might show that there is acreage outside that spac-18 ing unit that -- that is capable of commercial production. 19 Yes, and that's basically why we feel it Α 20 should be developed on the pool 320's is that then you would 21 have the option to infill that acreage. 22 0 And you still would be able to put an ad-23 ditional well on either of the offsetting 160-acre tracts 24 if, in fact, this application was approved, would you not? 25

42 Yes. А ł Now, suppose that well comes in as a very Q 2 marginal or a poor well. That might have the effect of, if 3 not condemning, at least casting doubt on the productive 4 capability of the southwest quarter. Isn't that possible? 5 It would definitely provide more informa-Α 6 tion that would -- would go toward evaluating offsets, yes, 7 sir. 8 0 And if it appeared that there was very 9 limited Dakota pay under that well, it might also tend to 10 show that the prospects in the southwest quarter are not 11 very good. 12 That is correct, but it still would Ά not 13 put the people holding leases under the southwest quarter in 14 position that they were certain their mineral rights were а 15 not being drained by a well in the northwest quarter. 16 They could go out and protect their in-0 17 terest by drilling a well, could they not? 18 Which -- yes, they could. Α 19 And conversely, if there are no reserves 0 20 down there and that becomes apparent, it's barren acreage, 21 and that's only for the purpose of this question, if the ac-22 reage is barren down there and yet that acreage and the own-23 ers of that acreage are sharing in production from the well 24 in the northwest, that would in effect dilute the interest 25

43 of Southland in the northwest, would it not? 1 Provided that the Dakota formation А as 2 barren under the southwest quarter, yes, sir. 3 And if -- unless you own all the acreage, 0 4 think it was your testimony that you always dilute it I 5 somewhat unless you own all the acreage in the tract. 6 That's correct. Α 7 0 But if the acreage which is being contri-8 buted to that well is productive, everyone in that tract is 9 then just getting their fair share. Isn't that right? 10 Yes, sir. Α 11 0 But if it's barren acreage, which does 12 not have reserves in it and yet you're being asked to share 13 the proceeds from that well with those people, then your in-14 terest in fact is being diluted. 15 Yes, but in order to know that, you're А 16 forcing the drilling of two wells which, should that occur, 17 and it likely will occur should Southland complete a semi-18 marginal well in the northwest quarter, then that is econo-19 mic waste which the Commission is, part of their responsibi-20 lity is to help eliminate econmic waste. 21 0 But to get that information, you'd have 22 to really drill two wells, anyway, wouldn't you? 23 Yes, but you wouldn't be near as 24 А likelv drill two wells if the economics of the well 25 to in the

1 northwest quarter were questionable and you also had acreage 2 in the southwest -- west quarter participating in that pro-3 duction.

One way you're insuring that it's going
happen; the other way it provides ownership option.

Q If you stand with the 320, then you're
going to provide all the ownership with the -- with the option, where, if not, you're going to be only -- I'm sorry, I
just didn't understand your answer.

My answer was that if you drill and have Α 10 only 160-acre spacing unit, and you obtain a marginal well, 11 it's very likely that the ownership of the offsetting ac-12 reage will have to drill a well to establish whether that 13 acreage is in fact barren or should have been participating 14 all along, and so with 160-acre spacing unit you're almost 15 guaranteeing that there will be two wells drilled, one in 16 the northwest quarter and one at each of the adjacent quar-17 18 ters.

Where if you have a standard unit that the pool rules provide for, you allow the people that are sharing in the northwest quarter to develop the southwest quarter only -- or the northeast quarter, only if they can economically justify that.

24 Q You're not testifying that if the south25 west quarter is barren it should in fact share in production

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45 from the northwest side? 1 А No, I'm not saying we should space non-2 productive acreage with productive acreage, but I am stating 3 that there is no evidence that -- that we can know the 4 southwest quarter or northeast quarter is barren until that 5 acreage is either penetrated with a well. 6 Q Okay. 7 MR. CARR: I have nothing fur-8 ther. 9 MR. STOGNER: Mr. Stovall, re-10 direct? 11 12 REDIRECT EXAMINATION 13 BY MR. STOVALL: 14 Mr. Roe, you expressed some opinions in 0 15 response to Mr. Carr's questions. He has thrown out some 16 statements of conditions. Do you have any knowledge of 17 whether the statements that he has -- the conditions which 18 he has expressed exist or are they suppositions as to condi-19 tions that could exist? 20 А The questions Mr. Carr asked me are ques-21 tions that could pertain to any formation that has estab-22 lished production in it. 23 You -- you have in the back of your mind 24 always what acreage are you really draining. There, even if 25

we were drilling on forties, you would have a question of is there maybe a 5-acre tract within that 40 that's really barren if a well was drilled on it. That's basically the purpose of spacig, is to provide an orderly means of development within a pool.

6 Q Do not the rules of the Basin Dakota and 7 the infill order, I'm sorry, I've forgotten the number of 8 it, but --

9 A 1670-V.

10 Q -- allow in fact for that, the type of 11 develoment that he is suggesting and are you not saying that 12 that is the better way to --

A That is specifically my understanding of why the Basin Dakota Pool rules originally provided for 320s and then were modified to provide that an infill well could be developed -- drilled, if the data that existed truly suggested that an infill well was necessary to economically produce the reserves.

19 Q Based on the information that is actually 20 available, would you see any justification for modifying 21 those rules for this particular --

22AI see none.

23 Q And if those rules are modified, once
24 again I'd ask, would -- is there the potential that correla25 tive rights on adjacent properties could be adversely af-

47 fected? ۱ It is my opinion that that would happen. A 2 MR. STOVALL: Nothing further. 3 4 RECROSS EXAMINATION 5 BY MR. CARR: 6 Well, Mr. Roe, I'm going to take you back 0 7 to the infill order one more time, and I just want to be 8 sure that we have in the record Paragraph 14 of this order, 9 and I'd ask you to read that. 10 Α Okay. I might add that what item four-11 teen is, it is Finding 14 of R-1670-V, and Finding 14 says 12 that the infill drilling of a second wsell on an established 13 proration unit in the Basin Dakota Pool is necessary to ef-14 fectively and efficiently drain a portion of the reservoir 15 covered by the proration unit, which cannot be effectively 16 and efficiently drained by any existing well within the pro-17 ration unit. 18 And so if, in fact, there's going to be 0 19 full production of, say, the west half of 15, a second well 20 would have to be drilled there. 21 Yes, and if you establish it on 320s, 22 Α а second well would be drilled there only if the economics of 23 the well in the northwest guarter would support that, and 24 again, I think I've indicated, without that protection a 25

48 second well would -- would have to be drilled there irre-1 gardless of what the economics were. 2 And so again we're talking about economic 3 waste that's insured should 160 acres be designated for es-4 tablished production. 5 And there would also be physical waste if 0 6 the second well wasn't drilled. 7 Yes, there could be physical waste. А It 8 would be uneconomical to drill and develop. 9 CARR: I have nothing fur-MR. 10 ther. 11 MR. STOVALL: One point of 12 clarification, Mr. Examiner, if I may. 13 14 REDIRECT EXAMINATION 15 BY MR. STOVALL: 16 And we are talking, in effect, of a west 0 17 The same answers would apply whether we talked 18 half unit. about a north half unit or a west half unit, is that not 19 correct? 20 Α That is correct. Dugan Production is 21 taking no position as to which the unit should be. 22 Q Thank you, sir. 23 MR. 24 STOVALL: No further questions, Mr. Examiner. 25

49 1 CROSS EXAMINATION 2 BY MR. STOGNER: 3 0 Mr. Roe, does Dugan plan in the near fu-4 ture to develop the east half of Section 15? 5 Well, of course our development plans, А 6 the east half of Section 15 is not within our current devel-7 opment program. 8 Our interests are to the northwest up in 9 what we call the Turk's -- our current plans for development 10 are up in the northwest portion of 30 North, 14 and 15 West, 11 and other areas of the San Juan Basin. 12 However, if -- if a well is drilled in 13 the northwest quarter and that well does not include the ac-14 reage that Dugan Production would have an interest in in the 15 northeast quarter, we would have to re-evaluate our drilling 16 priorities at this time, yes. 17 So I don't know if that answers 18 your question, but we -- we have no plans immediately but should 19 Southland make a well, we would -- not only would we want 20 to as a prudent operator, but we do have under lease a Fed-21 eral -- our lease is a Federal acreage, and the Federal peo-22 ple are very prompt in forcing operators to evaluate whether 23 or not drainage is or possibly will occur, and that is one 24 of the bases for our concern, because we're almost guaran-25

50 teed that we will be put in a position that we will have to 1 drill a well or justify our not drilling that well to a very 2 fine degree. 3 Federal acreage where? 0 What Federal 4 acreage are you talking about? 5 Α Our whole lease, Mr. Stogner, is a 6 Federal lease and that would be the north half of 7 the northeast quarter and what is called Lot 1, and that is 8 approximately the southeast of the northeast, and again, 9 that totals to be approximately 108 acres. 10 And that's Federal Lease SF-07811-0. 11 All right. 0 12 Α Did you get that, SF-07811-0? The 13 southeast of the northeast is an irregular unit. It is not 14 a 40-acre tract. It's approximately 28-1/2 acres. 15 MR. STOGNER: I have no further 16 questions of this witness. 17 18 Are there any other questions of Mr. Roe? 19 20 MR. STOVALL: May it please the Examiner, maybe one little technical detail. It's been 21 22 awhile since I've been in a proceeding of this nature. MR. STOGNER: Please continue. 23 24 25

51 REDIRECT EXAMINATION 1 BY MR. STOVALL: 2 Mr. Roe, with respect to Exhibit One, you Q 3 indicated that that was a map provided by El Paso Natural 4 Gas, which you copied and which you placed a mark on indi-5 cating the northwest quarter of Section 15. 6 You also indicated that you placed the 7 circles around the other penetrations of the Dakota forma-8 tion on that map, is that correct? 9 That is correct. A 10 And you have -- this was done by you and Q 11 you have knowledge of the accuracy of the information inso-12 far as you have identified certain wells and have made marks 13 on the map. 14 Α That is correct. 15 MR. STOVALL: I would move ad-16 mission of Exhibit One. 17 18 MR. STOGNER: Thank you for catching me on that. 19 Are there any objections? 20 MR. CARR: No objection. 21 STOGNER: Exhibit One will MR. 22 be admitted into evidence. 23 Are there any other questions 24 of the witness? 25

52 If not, he may be excused at 1 this time. 2 Mr. Stovall? 3 MR. STOVALL: I'd like to call 4 Mr. Emery Arnold. 5 6 EMERY C. ARNOLD, 7 being called as a witness and being duly sworn upon his 8 oath, testified as follows, to-wit: 9 10 DIRECT EXAMINATION 11 BY MR. STOVALL: 12 0 Would you state your name and address and 13 occupation, please? 14 А My name is Emery C. Arnold. I live at 15 200 Crandall Drive, Aztec, New Mexico. 16 Are you currently employed, Mr. Arnold? Q 17 Yes, I'm employed as a consultant. А 18 0 By whom and --19 By myself. 20 А By yourself? Mr. Arnold, Mr. Arnold, 21 Q have you ever testified before the Commission and had your 22 credentials accepted? 23 24 А I've worked for the Commission for 25 years and for 8 years I served as -- served on the 25

53 Commission, and yes, I have testified before the Commission. 1 And you are a graduate geologist, is that Q 2 correct? 3 А Right. 4 STOVALL: We'd like to of-MR. 5 fer Mr. Arnold as an expert, unless, of course, I'm chal-6 lenged. 7 MR. CARR: We'll stipulate that 8 Mr. Arnold is an expert. 9 MR. STOGNER: Thank you, Mr. 10 Carr. Mr. Arnold is so qualified. 11 Are you -- are you familiar with the 0 12 Basin Dakota Pool, Mr. Arnold? 13 А Yes, I am. 14 And are you familiar with the application 15 Q in this case? 16 Yes, I am familiar with the application. А 17 18 0 Do you have any personal interest in -in this case or in adjacent properties? 19 Yes. My interest in this case stems from А 20 the fact that my family owns 120 acres of land and mineral 21 interest in the west half of Section 15, 29 North, 14 West. 22 Sixty acres of this interest is in the 23 northwest guarter of Section 15 and 60 acres is in the 24 southwest quarter. 25

54 This land is under lease to Southland 1 Royalty Company and Southland's application would exclude 2 that portion of our acreage located in the southwest guarter 3 from the drilling and proration unit. 4 Approval of 160-acre proration unit for 5 Southland's well would reduce the allowable assigned to the 6 well if it were completed as a nonmarginal well by approxi-7 mately 50 percent; therefore, the possibility exists that 8 our interest would be adversely affected and that our royal-9 ty would be reduced. 10 Then I take it that you are opposed 0 to 11 the application for 160-acre --12 А Yes, I'm opposed to that. 13 -- spacing unit? 0 14 You've heard the testimony of 15 Southland Royalty and of Mr. Roe, is that not correct? 16 Yes, I did. А 17 18 0 Do you feel, in your opinion is there sufficient development or information in Section 15 or adja-19 cent area to support Southland's application? 20 Α No, I concur with Mr. Roe's testimony in 21 that regard. I do not believe that there's been sufficient 22 development in the vicinity of Section 15 to project reser-23 voir limits. 24 As he testified, there have been no wells 25

55 1 drilled in Section 15 and there have been no wells drilled 2 to the south, three or four miles of the south boundary of 3 Section 15. So there certainly is no control in that 5 direction. 6 Ι think that permeability and porosity 7 trends in the Basin Dakota reservoir are very difficult to 8 project, even within sections having a -- which already have 9 an initial well drilled. 10 In this case the only control available 11 is to the north in Section 10, and I don't believe that it's 12 (not understood) to attempt to identify reservoir limit from 13 the available data. 14 And you said that the only controls are 0 15 on the north in Section 10, and I believe you're referring 16 to the two wells which Mr. Roe identified, the McWhorter 17 Duncan and the, I believe it's the Southland Royalty Lot No. 18 2, is that correct? 19 That's correct. They're both Southland Α 20 Royalty wells in Section 10. 21 And you have no production -- know of any 0 22 production information from those wells? 23 А They're not at this time connected. 24 either one of them. I think it was testified to that one 25 well has undergone some production testing.

56 0 Based upon your experience as a geolo-1 gist, do you have an opinion as to the probability of find-2 ing gas in the Dakota formation in Section 15? 3 In the northwest quarter of Section 15. 4 I should be more specific. 5 Α I think there's a reasonable possibility 6 that -- that a successful well can be completed in 7 the northwest quarter of Section 15, and I presume, also, that 8 Southland Royalty is of that opinion or they wouldn't be 9 drilling the well there. 10 If gas were found in the Dakota formation 0 11 in the northwest guarter of Section 15 in commecial guanti-12 ties, would it be reasonable to presume that such gas in 13 commercial quantities could not be found in the southwest 14 quarter or the northeast quarter of Section 15? 15 No, in general, Basin Dakota rules spec-А 16 It's a stratigraphic reservoir with very 17 ify 320 acres. 18 highly variable porosity and permeability trends. I do not believe that acreage should 19 be 20 excluded from any standard unit without irrefutable evidence such acreage is totally nonproductive. 21 22 I don't believe that the evidence in this 23 case supports the approval of 160 acres. 24 Q In other words, it's your opinion that there is insufficient evidence to determine the limits of 25

57 the reservoir, particularly as it lies in Section 15? 1 Right. А 2 And do you believe that the granting 0 of 3 petition would be in the interest of conservation or this 4 prevention of waste, or protection of correlative rights? 5 А No, I don't believe it would. 6 MR. STOVALL: I have no further 7 questions. 8 MR. STOGNER: Mr. Carr, your 9 witness. 10 11 CROSS EXAMINATION 12 BY MR. CARR: 13 Now, Mr. Arnold, as I understand Q your 14 testimony, you are a consultant for yourself. 15 I'm a consulting geologist. А 16 In this case you're consulting for your-17 0 self. 18 I actually am appearing in this case as А 19 an interest owner, and agent for my mother and my brother. 20 When consulting for yourself do you keep Q 21 accurate records for tax purposes? 22 All right, Mr. Arnold, if I understand 23 your testimony, you have 60 acres in the northwst of Section 24 115. 25

58 You also have 60 acres in the southwest 1 quarter of Section 15, is that correct? 2 А That's correct. 3 So your percentage ownership in this 0 4 spacing unit would not change if it was a northwest guarter 5 or west half unit. 6 А No, that's right. It would be 60/160ths 7 or 37-1/2 percent of the acreage within a 160-acre dedica-8 tion, or it would be 120/320ths, or 37-1/2 percent of 9 the acreage within a 320. 10 Do you have any ownership interest in the 0 11 northeast quarter of Section 15? 12 А No. 13 Q Would you be opposed to a north half 14 spacing or proration unit? 15 Basin Dakota rules, of course, allow for А 16 the wells to be drilled in any quarter section or acreage 17 dedicated in either direction. 18 And so you would not oppose a north half 0 19 unit in Section 15. 20 Α I think that a problem with a north half 21 unit, of course, is the fact that the San Juan River runs 22 across that area and all the acreage is not available for 23 dedication in the northeast quarter of Section 15. 24 25 Q Well, that same problem would exist with

59 a west half unit, would it not? 1 That's right. I think that there might А 2 possibly be a solution of forming a nonstandard unit, which 3 could include that acreage north of the river and in the 4 west half and that acreage north of the river and the east 5 half. 6 Do you have irrefutable evidence that 0 7 would establish that that nonstandard unit would be produc-8 tive? 9 Α I don't have irrefutable evidence that 10 the well you're going to drill on the northwest quarter is 11 going to be productive. 12 I thought it was your testimony that be-13 fore you changed a spacing or proration unit you thought 14 there ought to be irrefutable evidence to support that. 15 Before acreage is excluded which would А 16 normally be within a proration unit is excluded. 17 0 But it's your testimony that without the 18 same kind of evidence you can add additional acreage to a 19 proration unit. 20 Well, it's -- would you repeat the gues-А 21 tion again? 22 I'm just trying to understand your testi-Q 23 mony, Mr. Arnold. You, as I understand it, testified that 24 you shouldn't eliminate acreage unless you had irrefutable 25

1 evidence to establish that, and I'm just asking you if you
2 think then you can add acreage to a unit without irrefutable
3 evidence in support of that?

A Well, I think that it is -- that it has
5 been done in many cases in establishing one standard prora6 tion unit in the San Juan Basin, particularly ownership pro7 blems.

8 Q My question is, do you believe there
9 should be a different standard of proof for enlarging a
10 spacing unit than there is when you try and create a
11 nonstandard unit that is less than a standard unit?

Well, I think as Mr. Roe testified, that Δ 12 really the only way you can determine definitely for certain 13 that there's any gas in any one of the four quarter sections 14 within that section would be to drill a well there, and ac-15 tually, if you do drill a well on a section in the northwest 16 of Section 15, then certainly you will learn from the dril-17 ling of that well what type reservoir you have and you cer-18 tainly can make, you know, more accurate projections as to 19 whether that production probably extends into neither the 20 southwest or the northeast quarter of Section 15. 21

Q If I understand your -A However, I wouldn't say that you could,
you know, be totally certain of it (not understood.)
Q Now, if I understand your testimony, it

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61 was that you believe that should the well drilled by South-۱ land be drilled and be a nonmargjnal well, and becase there 2 are only 169-acres to dedicate to it, that it would have a 3 reduced allowable. 4 That's right. Α 5 And that would affect your royalty inter-Q 6 est. 7 It would affect the rate at which that А 8 royalty interest was earned. 9 Q If that well was a nonmarginal well, and 10 if it tended to establish that the southwest was capable of 11 commercial production, and if a well was drilled down there, 12 you would be receiving royalty down there and wouldn't that 13 take care of your problem? 14 А If there were two wells drilled on 15 the half section. 16 0 And I believe you testified that 17 you 18 needed to drill a well on each quarter section to establish whether or not they were capable of commercial production. 19 Well, I don't think that the Basin Dakota Α 20 rules require that you drill two wells in each quarter sec-21 tion. 22 Actually, the infill drilling order 23 was written for the purpose of increasing the recoverable re-24 serves, really, within a 320-acre unit and providing for 25

62 more efficent drainage, is actually a matter of time. 1 The infill, the order, I don't think, an-2 ticipated that one well in many cases wouldn't eventually 3 drain 320 acres. It simply anticipated that you could increase the recoverable reserves and recover that gas faster 5 by having two wells on a 320-acre unit. 6 0 What is the term of your lease with 7 Southland Royalty Company? 8 It's a three year lease. Α 9 Q Do you know how long that would run, how 10 long that runs? 11 А It has almost three years to year, three 12 additional. 13 0 And so that would be three additional 14 years under that same lease if Southland decided to develop 15 in the southwest guarter, still that time available. 16 As I understand it. Α 17 18 0 Did you prepare a map or attempt to map any reservoir limits in the area? 19 No, I haven't. Α 20 0 Do you have any recommendations to 21 make other than denying the application? 22 А Not at the moment. actually only 23 Ι learned last Friday that the thing was coming to hearing at 24 this time, so I --25

63 MR. CARR: I have no further 1 questions. 2 MR. STOVALL: I'd like to clar-3 ify one thing. I think perhaps there may have been a misun-4 derstanding, Mr. Arnold. 5 6 REDIRECT EXAMINATION 7 BY MR. STOVALL: 8 Q You made mention of a nonstandard prora-9 tion unit, but the unit you were describing would consist of 10 320 acres, is that not correct? 11 Right, approximately that. А 12 0 You -- you talk in terms of the, basic-13 ally the portion of the southwest quarter north of the river 14 and of the northeast quarter north of the river. 15 Well, of the west half section north of А 16 the river. 17 Right, okay. 18 0 And the northeast quarter, that portion А 19 of the northeast quarter north of the river. 20 And -- but what you would really propose 0 21 would be to then follow the survey lines and have a 320-acre 22 unit that was just irregular shaped. 23 I'd simply point out that that would be 24 А one solution to a problem where approximately 320 acres 25

64 would be dedicated to this well, so that in the event it is ۱ an edging marginal well it would require the drilling of an-2 other well for everyone to share in the production that they 3 should, should be able to. 4 0 That would indicate, then, that there 5 would not be a problem of drainage of 320 -- less than or 6 more than 320 acres, it would just be the shape of the 7 320 that we would be dealing with. 8 Α That's right. 9 MR. STOVALL: I have no further 10 questions. 11 MR. STOGNER: Mr. Carr. 12 13 RECROSS EXAMINATION 14 BY MR. CARR: 15 0 Mr. Arnold, I apparently missed it in the 16 direct, what you have suggested is an unit that would, as a 17 possible alternative, a unit that would be the acreage north 18 of the river. 19 Α Right. 20 And that contains about 320 acres. Q 21 Right. Α 22 0 And that would take in all of your 23 acreage. 24 Right. 25 А

65 Q It would take in all of that of Mr. 1 Dugan. 2 Right. А 3 MR. STOVALL: If I may make a 4 statement, no, it would not take in all of our acreage as 5 he's discussing it. It would be the acreage on the north 6 half of the northeast. 7 MR. CARR: All right, it would 8 take in a portion of Mr. Dugan's acreage. 9 MR. STOVALL: Correct. 10 Okay, that's all. MR. CARR: 11 Thank you. 12 13 CROSS EXAMINATION 14 BY MR. STOGNER: 15 Mr. Arnold, would you be in a favor of a Q 16 north half or the west half, more or less, standard --17 18 А Well, obviously because our interest is in the west half, I would favor a west half over a north 19 half dedication if it comes to making that choice. 20 How would this proration unit, what 0 ac-21 reage would it consist of? 22 Well, I understand that Southland Royalty 23 А has some acreage problems in the west half of Section 15, 24 25 not only with the Foutz acreage on the west side of the sec-

tion, but by the fact that the river cuts across the south 1 half of the southwest and some of that acreage is across the 2 river and I don't believe they have a lease on that, a1-3 though I'm -- I don't really know what Southland Royalty's 4 acreage position is, it's total. 5 But what acreage would -- would you re-Q 6 commend for it to be a standard proration unit? 7 I don't -- there isn't any way Α that 8 - well, let me -- you say what way would I recommend that it 9 be a standard proration unit? 10 Yes. 0 11 All right, if I had my choice between two А 12 standard proration units, which would be either the west 13 half, 320 acres, or the north half, 320 acres, I would pre-14 fer a west half dedication. 15 0 Okay. And that would take in portions of 16 your acreage. 17 Α That would take in all of our acreage, 18 which is why I favor that dedication. 19 Let's talk about the west half now. 0 20 Who owns the acreage to the south of the river? 21 22 А The Navajo Tribe, I presume. 0 Okay, this is the first time this 23 has come out. 24 25 А That actually -- that actually was why I

66

67 made the suggestion a minute ago that the best way to handle 1 the problem, probably, is to dedicate the acreage north of 2 the river in Section 15 to a nonstandard proration unit 3 which should approximate 320 acres and at the same time sup-4 port the formation of a nonstandard proration unit south of 5 the river, which would include the acreage in Section 15 6 which is not dedicated to --7 Q Very interesting comment, have you dis-8 cussed this with Southland? 9 It's not discussed at any great length, А 10 no. 11 MR. STOVALL: If I may correct 12 that, that has been discussed with Southland but not by Mr. 13 Arnold. 14 А Right, I'm in no position to be deciding 15 what Dugan Production's position should be on that. 16 0 But in your interest in the -- we'll call 17 south of the proposed nonstandard proration unit, it 18 your acreage that lies south of there, have you discussed it with 19 Southland? 20 Α Yes, I have discussed that possibility. 21 22 MR. STOGNER: Let's call about a ten minute break at this time. 23 24 (Thereupon a recess was taken.) 25

68 MR. STOGNER: I believe at this 1 time we are ready for closing statements, is that right, 2 gentlemen? 3 Stovall, you may go Okay, Mr. 4 first. Mr. Carr, you may go last. 5 Mr. Arnold, yes, you may be ex-6 cused. 7 MR. STOVALL: My closing argu-8 ment is basically fairly simple. 9 The Basin Dakota rules and the 10 infill rules subsequently, many of those rules are developed 11 based on hearing and evidence presented before the Commis-12 sion and at that time any variance from those rules, any ex-13 ception to those rules, would require justification in terms 14 of scientific, geological, engineering data. 15 I do not believe that Southland 16 Royalty has presented sufficient data to justify their posi-17 tion that 160-acre spacing is appropriate in Section 18 15; that a variance in the pool rules should be granted. 19 They have stated that you can 20 in effect have 160-acre spacing if you follow an infill 21 drilling program but it is different to have a mandatory 22 160-acre spacing with the necessity to drill two wells, as 23 Mr. Roe and Mr. Arnold have testified, at least two wells, a 24 25 well per quarter, versus having the option of determining

69 whether or not the economics of drilling 160 -- drilling on 1 effective 160-acre spacing units should be in the hands of 2 3 the operator. 4 The rules establish a 320-acre 5 spacing unit in the Basin Dakota Pool. This is in the Basin 6 Dakota Pool and both Mr. Arnold and Dugan Production do not 7 feel that any of the evidence which Southland has presented 8 justifies a variance from those rules, and in fact there is 9 a considerable lack of evidence in the form of control wells 10 and Dakota penetrations other than in areas ranging from a 11 half mile to a mile and a half north of the proposed loca-12 tion to justify a variance from the existing pool rules. 13 That's all I need to say, Ι think. 14 15 MR. STOGNER: Thank you, Mr. 16 Stovall. 17 Mr. Carr? 18 MR CARR: May it please the 19 Examiner, Southland Royalty Company has come before you to-20 day seeking the creation of a nonstandard spacign or prora-21 tion unit to consist of the northwest quarter of Section 15. 22 It's in the Basin Dakota Pool, and clearly the rules were 23 established for that pool that originally provided for 320-24 acre spacing, and those rules were amended some eight or ten 25 years ago to provide for additional wells on each of those

spacing or proration units because it was found the original
wells couldn't drain the reserves from underneath those 320
acre units.

There's a purpose for those 4 rules, but one of the purposes clearly is not to force non-5 productive acreage in with productive acreage so that inter-6 est owners have their correlative rights impaired by having 7 to share production from their wells with the owners of 8 tracts that cannot and do not produce commercial reserves. 9 Now Dugan has appeared here to-10 day, as has Mr. Arnold, and they have stated that they don't 11 believe that we have established with irrefutable evidence 12 or competent evidence that, in fact, there is a real likeli-13 hood that anything other than the northewest quarter of this 14 section wil contribute commercial gas to the well Southland 15

17 I asked Mr. Arnold if he'd at-18 tempted to map the area. He said no.

proposes.

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I don't think any geological 19 presentation ever presented could be irrefutable. I don't 20 think you could put two geologists in this room and ever get 21 to that point. The fact is, the only thing you know is what 22 you have based on the data you've got available at that 23 time. As more data becomes available the picture changes. 24 But if you look at the record 25

in this case, one party has come forward. One party has ۱ mapped the sand stringers, and one party stands before you 2 having shown with evidence that has been challenged, the 3 productive interval in this well is a zone that appears to 4 extend only under the northwest quarter of Section 15. 5 The question before you is cor-6 relative rights. There are interest owners in the northwest 7 quarter of this section and in the southwest quarter of the 8 They're in here and they would like to have a section. 9 standard unit. The reason is they're both concerned that 10 their acreage isn't productive and they'd like to share in 11 the production from the Southland well. 12 I don't think you can reach any 13 other conclusion, because both of them have available to 14 them the opportunity to have a standard spacing unit created 15 and their acreage dedicated to it. 16 There are problems 17 that they face coming before you. A west half unit cuts out Dugan and 18 a north half unit cuts out Mr. Arnold, and although not of-19 fered, Mr. Arnold has suggested a nonstandard spacing or 20 proration unit based on topography. That takes care of Mr. 21 Arnold; his acreage would be in it. 22 takes care by and large Ιt 23 of Mr. Dugan. A substantial portion of his acreage would be in 24 It also takes care of Southland Royalty. 25 that unit. It

71

puts all their acreage in and dedicates it to Southland's 1 a technical presentation here show that well and the 2 reserves are coming from the Southland tract, not that of 3 Arnold and not that of Mr. Dugan, and in doing this and Mr. 4 in not granting this nonstandard unit, we submit you would 5 impair the correlative rights, the correlative rights of 6 Southland, not those of Mr. Dugan, who still is free to de-7 velop an east half unit, not those of Mr. Arnold. 8 Mr. Arnold has raised the 9 allowable question in an effort, really, to confuse what's 10 before you here today. 11 If in fact the well is drilled 12 in the northwest quarter and it's a good well, Southland has 13 three years to go ahead and develop the acreage in the 14 southwest quarter which probably would be shown to be pro-15 ductive if, in fact, the proposed well is good. 16 There'd be two wells and Mr. 17 Arnold would be sharing a full royalty because he would have 18 a full acreage factor and two wells on that tract of land. 19 If it's a poor well and it has 20 the effect of condemning the southern portion of that sec-21 tion, Mr. Arnold shouldn't share in that well at all, be-22 cause he does not have reserves under his tract that he's 23 contributing. 24 We submit by and large that the 25

72

same thing applies with Mr. Dugan. If the well is good and 1 it draws a drainage demand, and perhaps there are reserves 2 there, they ought to go drill a well, and if it's poor, then 3 we submit they can beat the drainage demand and not have to 4 go out and commit economic waste by drilling an unnecessary 5 well. 6 is also before you Waste in 7

8 this case because if you refuse to approve this nonstandard 9 spacing or proration unit, Southland is going to have to go 10 out and pool or somehow bring in additional acreage, acreage 11 which if it does not participate is going to have an adverse 12 effect on their economics and, as Mr. Blandford testified, 13 could result in the well not being drilled at all. That 14 would result in physical waste of hydrocarbons.

We submit if you carry out your statutory duty to prevent waste, your duty to protect correlative rights, you only have one thing before you that you can do on this record, and that's grant the application of Southland Royalty Company.

20MR. STOGNER: Thank you, Mr.21Carr. Thank you, Mr. Stovall.

I'll also reiterate from what I've said earlier, that this case will be continued to the Examiner's Hearing scheduled for June 5th, 1985, due to the publication in the Santa Fe paper.

But before that time, I would like for, Mr. Carr, you and Mr. Stovall both to present to me a rough order or a rough draft on an order on this case. And, hopefully, at such time on June 5th, 1985, this case will be taken under advisement. Is there anything further to come today in Case Number 8608? Also, I might add that this case will be readvertised in the Farmington paper due to an error. (Hearing concluded.) 

75 1 CERTIFICATE 2 3 I, SALLY W. BOYD, C.S.R., DO HEREBY 4 CERTIFY that the foregoing Transcript of Hearing before the 5 Oil Conservation Division was reported by me; that the said 6 transcript is a full, true, and correct record of the 7 hearing, prepared by me to the best of my ability. 8 9 10 11 Sooly W. Boyd CSR 12 13 14 15 16 I do hereby center that the foregoing is 17 a complete test sub of the proceedings in 18 the Examiner meaning of Cluse No. 8608. heard by me on 22 May 1985. 19 Mus Examiner (UMI) 20 **Oil Conservation Division** 21 22 23 24 25