

1 STATE OF NEW MEXICO  
2 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
3 OIL CONSERVATION DIVISION  
4 STATE LAND OFFICE BUILDING  
5 SANTA FE, NEW MEXICO

6 12 July 1989

7 EXAMINER HEARING

8 IN THE MATTER OF:

9 Application of ORYX Energy Company,  
10 formerly Sun Exploration and Product-  
11 ion Company, for an order pooling all  
12 mineral interests in the Gavilan-Mancos  
13 Oil Pool underlying a certain 640-acre  
14 tract of land in Rio Arriba County, New  
15 Mexico.

CASE  
9694

16 BEFORE: Michael E. Stogner, Examiner

17 TRANSCRIPT OF HEARING

18 A P P E A R A N C E S

19 For the Division:

20 For ORYX Energy Company:

21 W. Thomas Kellahin  
22 Attorney at Law  
23 KELLAHIN, KELLAHIN & AUBREY  
24 P. O. Box 2265  
25 Santa Fe, New Mexico 87504

For Mesa Grande Oil  
Company:

Owen M. Lopez  
Attorney at Law  
HINKLE LAW FIRM  
P. O. Box 2068  
Santa Fe, New Mexico 87501

For Mallon Oil Company:

W. Perry Pearce  
Attorney at Law  
MONTGOMERY & ANDREWS  
P. O. Box 2307  
Santa Fe, New Mexico 87504

## I N D E X

1		
2		
3	STATEMENT BY MR. KELLAHIN	5
4	STATEMENT BY MR. LOPEX	10
5		
6	MARLENE H. STALEY	
7	Direct Examination by Mr. Kellahin	12
8	Cross Examination by Mr. Pearce	33
9	Cross Examination by Mr. Stogner	37
10		
11	RICHARD G. DILLON	
12	Direct Examination by Mr. Kellahin	42
13	Cross Examination by Mr. Pearce	79
14	Cross Examination by Mr. Lopez	88
15	Cross Examination by Mr. Stogner	90
16		
17	JOE COX	
18	Direct Examination by Mr. Pearce	92
19	Cross Examination by Mr. Kellahin	97
20	Redirect Examination by Mr. Pearce	104
21	Recross Examination by Mr. Kellahin	106
22		
23	STATEMENT BY MR. LOPEZ	108
24	STATEMENT BY MR. PEARCE	109
25	STATEMENT BY MR. KELLAHIN	111

## E X H I B I T S

1		
2		
3	ORYX Exhibit One, Map	15
4	ORYX Exhibit Two, Plat	17
5	ORYX Exhibit Three, Plat	19
6	ORYX Exhibit Four, Plat	19
7	ORYX Exhibit Five, Data	20
8	ORYX Exhibit Six, Tabulation	21
9	ORYX Exhibit Seven, Data	24
10	ORYX Exhibit Eight, Title Page	28
11	ORYX Exhibit Nine, Returns to Letter	29
12	ORYX Exhibit Ten, Lease	31
13	ORYX Exhibit Eleven, Summation	45
14	ORYX Exhibit Twelve, Map	47
15	ORYX Exhibit Thirteen, Plot	48
16	ORYX Exhibit Fourteen, Pressure Plot	51
17	ORYX Exhibit Fifteen, Tabulation	52
18	ORYX Exhibit Sixteen, Data	53
19	ORYX Exhibit Seventeen, Table	54
20	ORYX Exhibit Eighteen, Graph	55
21	ORYX Exhibit Nineteen, Graph	57
22	ORYX Exhibit Twenty, Graph	58
23	ORYX Exhibit Twenty-one, Graph	58
24	ORYX Exhibit Twenty-two, Calculations	58
25	ORYX Exhibit Twenty-three, Tabulation	59

## E X H I B I T S Cont'd

1		
2		
3	ORYX Exhibit Twenty-four, Tabulation	60
4	ORYX Exhibit Twenty-Five, APD and C-102	61
5	ORYX Exhibit Twenty-six, Letter	61
6	ORYX Exhibit Twenty-seven, Conclusions	62
7	ORYX Exhibit Twenty-eight, Graph	63
8	ORYX Exhibit Twenty-nine, Tabulation	63
9	ORYX Exhibit Thirty, Cost Data,	65
10	ORYX Exhibit Thirty-one, Proposal	67
11	ORYX Exhibit Thirty-two, Plat	69
12	ORYX Exhibit Thirty-three, Orders	70
13	ORYX Exhibit Thirty-four, Production History	72
14	ORYX Exhibit Thirty-five, Graph	73
15	ORYX Exhibit Thirty-six, Graph	75
16	ORYX Exhibit Thirty-seven, Graph	75
17	ORYX Exhibit Thirty-eight, Conclusions	76
18	ORYX Exhibit Thirty-nine, Conclusions	77
19	ORYX Exhibit Forty, Certificate of Mailing	32
20		
21	Mallon Exhibit One, AFE	93
22	Mallon Exhibit Two, Recap	105
23		
24		
25		

1 MR. STOGNER: The hearing will  
2 come to order.

3 I'll call next Case Number  
4 9694, which is the application of ORYX Energy Company, for-  
5 merly Sun Exploration and Production Company, for an order  
6 pooling all mineral interests in the Gavilan Mancos Oil  
7 Pool underlying a certain 640-acre tract of land in Rio  
8 Arriba County, New Mexico.

9 At this time I'll call for  
10 appearances.

11 MR. KELLAHIN: Mr. Examiner,  
12 I'm Tom Kellahin of the Santa Fe law firm of Kellahin,  
13 Kellahin & Aubrey. I'm appearing on behalf of the appli-  
14 cant and I have two witnesses to be sworn.

15 MR. STOGNER: Are there any  
16 other appearances?

17 MR. PEARCE: May it please  
18 the Examiner, I am W. Perry Pearce of the Santa Fe law firm  
19 of Montgomery & Andrews, appearing in this matter on behalf  
20 of Mallon Oil Company, and, Mr. Examiner, contrary to what  
21 I said earlier, I do believe I will have one very short  
22 witness to present.

23 MR. STOGNER: Okay, are there  
24 any other appearances in this matter?

25 MR. LOPEZ: Mr. Examiner, my

1 name is Owen Lopez with the Hinkle Law Firm of Santa Fe,  
2 New Mexico, appearing on behalf of Mesa Grande, Limited,  
3 and not contrary to what I said before, we don't have any  
4 witnesses.

5 MR. STOGNER: Are there any  
6 other appearances?

7 Okay, I have ORYX, Mallon and  
8 Mesa Grande, Limited, is that correct?

9 Okay, will the witnesses  
10 please stand, or potential witnesses please stand and be  
11 sworn at this time?

12

13

(Witnesses sworn.)

14

15

MR. STOGNER: Mr. Kellahin?

16

MR. KELLAHIN: Thank you, Mr.

17

Examiner.

18

19

20

21

Mr. Examiner, let me see if I  
can frame for you the issues that -- or the major issues  
that we would like you to consider the resolution of this  
morning.

22

23

24

25

We are again visiting Section  
12 in Gavilan Mancos. I'm certain you'll remember from the  
May 10th/11th hearings in Case 9671 that we came before you  
with a proposition that the east half of Section 12 be in-

1 cluded in an expansion of the Canada Ojitos Unit.

2 After that application was  
3 denied, then we have sought to consolidate the undeveloped  
4 east half of Section 12 with the currently developed west  
5 half of Section 12. The west half is held by production  
6 from the Mallon Oil Company operated Johnson Federal 12-5  
7 Well in the west half.

8 This is a pooling of undevel-  
9 oped acreage into developed acreage for an existing well.  
10 This is not the first occasion in which this has been pro-  
11 posed to the Division nor which the Division has acted.  
12 There are a number of other cases like this in Gavilan  
13 Mancos, particularly -- all of which we will discuss with  
14 you.

15 The fundamental issue which we  
16 are unable to obtain unanimous consent for is what should  
17 the interest owners, the working interest owners, if you  
18 will, in the east half of 12 pay to the owners in the west  
19 half for participation in the remaining reserves of the  
20 well, and that is the issue on which we will spend most of  
21 our presentation.

22 I have two witnesses. Miss  
23 Marlene Staley is a petroleum landman for ORYX and she will  
24 talk about her efforts to obtain voluntary joinder on  
25 640-acre spacing.

1                   The second witness is Mr.  
2 Richard Dillon. He's a petroleum engineer who testified  
3 before you on other occasions and specifically testified in  
4 the case in May, 1967. Mr. Dillon has studied the subject  
5 well and has proposals to you with regards to what he be-  
6 lieves is a method by which all parties can share in the  
7 remaining reserves for the well in the section and what he  
8 proposes to be an equitable allocation.

9                   There are a couple of issues  
10 that I want to tell you are not issues in this case. In  
11 past pooling cases such as this one of the disputes that  
12 Mr. Lopez and I have wrestled with in the Loddy case is  
13 what should be the effective date of participation of the  
14 owners in the undeveloped tract and whether that date is  
15 the date of the spacing change where we went to 640s or  
16 whether that's the effective date of the order.

17                   In this case our specific ap-  
18 plication is to make the effective date of participation of  
19 the east half with the west half the date of this hearing,  
20 July 12th, and the pooling order be effective as of this  
21 date.

22                   As best I know that is not an  
23 issue for which anyone disputes or contests.

24                   The -- another issue that has  
25 been discussed and is sometimes confusing, if you'll look

1 at some of the prior cases, is the issue of what the risk  
2 factor penalty is in the event the undeveloped interest  
3 owners elect not to participate. That is not an issue  
4 here. We are proposing that that be 200 percent. If a  
5 party elects not to pay its share of what is determined to  
6 be the cost of participation, then we believe the 200 per-  
7 cent would be appropriate.

8 Now, the Johnson Federal 12-5  
9 has already been the subject of a pooling case where there  
10 was a transition into 320-acre spacing and there was a case  
11 between Mallon and Mesa Grande on that issue for the  
12 Johnson Federal Well.

13 The issue we are focusing on,  
14 though, is what the interest owners in the east half of 12,  
15 if they are consenting interest owners, what they ought to  
16 pay to the other owners in the west half to participate,  
17 then, in the remaining reserves, and that is the issue that  
18 has given all the parties difficulty in this case and one  
19 of the primary reasons we're before you today is to ask you  
20 to decide that for us.

21 Thank you, Mr. Examiner.

22 MR. STOGNER: Mr. Pearce? Mr.  
23 Lopez? Do you all have anything?

24 MR. PEARCE: Nothing, Mr. Exa-  
25 miner.

1 MR. LOPEZ: Well, Mr. Exam-  
2 iner, I think Mr. Kellahin has pointed out at least some of  
3 the issues correctly. I believe that the issue of the  
4 basis of participation in the well is -- has also been  
5 fairly well established in these pooling orders. When Sun  
6 and Mesa Grande wrestled with the pooling of the Loddy No.  
7 1 Well, we did disagree at the time with respect to the  
8 method of participation. We felt that in joining the well  
9 we should pay our pro rata share of the well costs but that  
10 we should be entitled to share in the production revenues  
11 from the date of initial production. That request was  
12 denied us.

13 We also felt that the pooling  
14 order at the time should be as of the date of the main  
15 Gavilan order changing the spacing. That request was also  
16 denied us and it was made effective the date of the hear-  
17 ing.

18 We do not disagree with Mr.  
19 Kellahin that a compulsory pooling order in this hearing  
20 based on the (unclear) precedent should be the date of this  
21 hearing.

22 Further, we do not disagree  
23 that a 200 percent penalty for nonconsent participation  
24 would be an appropriate penalty, although I might point out  
25 to the examiner that in the Loddy case there was a 100 per-

1 cent penalty.

2                   However, and it is remarkable  
3 that -- that all three companies are represented in this  
4 hearing today on a well that's capable of producing 1-1/2  
5 barrels a day, but be that as it may, it would seem that  
6 the basis of participation in the Loddy that the Commission  
7 established, which is participation in production from the  
8 date of the hearing with the pro rata payment of well costs  
9 plus the 12 percent interest factor is the appropriate one  
10 and I think that we are going to hear a great amount of  
11 discussion about remaining reserves and what have you,  
12 which I feel is irrelevant. This well has been on produc-  
13 tion for four years; it will never pay out, and the basis  
14 on which the applicant is requesting to participate is just  
15 inappropriate and we cannot consent to it.

16                   One further collateral issue  
17 in this respect, although we do not object to the applicant  
18 exercising his clear rights under the Gavilan order to join  
19 and form -- in our well or into Mallon's well, and to form  
20 a 640, we do feel that it is appropriate that the Commis-  
21 sion do, or the Division enter this order, particularly in  
22 light of the fact that there does seem to exist some expo-  
23 sure to royalty owners on a dilution of their interest un-  
24 der the general Gavilan order.

25                   Thank you.

1 MR. STOGNER: Thank you.

2 Mr. Kellahin?

3 MR. KELLAHIN: Mr. Examiner,  
4 we'd like to go ahead with our evidentiary presentation to  
5 you and then at the conclusion of that presentation per-  
6 haps we can in turn, and as appropriate under your direc-  
7 tion, discuss with you the specific issues again.

8 At this time, Mr. Examiner, we  
9 would call Marlene Staley.

10

11 MARLENE STALEY,

12 being called as a witness and being duly sworn upon her  
13 oath, testified as follows, to-wit:

14

15 DIRECT EXAMINATION

16 BY MR. KELLAHIN:

17 Q Ms. Staley, you've been sworn by the  
18 Examiner, have you not?

19 A Yes.

20 Q Would you please state your name and oc-  
21 cupation?

22 A My name is Marlene Staley, S-T-A-L-E-Y.  
23 I'm employed by ORYX Energy Company as a landman in their  
24 Unitization Department.

25 Q Ms. Staley, would you describe for us

1 your educational background?

2           A           Yes. I have a Bachelor of Science de-  
3 gree in chemistry from the University of Dayton in 1971, a  
4 Master of Science degree in geology from the University of  
5 Wisconsin in Milwaukee in 1974.

6                       From 1974 to 1976 I was employed by ARCO  
7 as a geologist in their Uranium Group.

8                       From 1976 through 1980 I was employed by  
9 Sun as a geologist in their Uranium Group.

10                      From 1980 through 1982 I was employed by  
11 Sun's Uranium Group as a minerals landman and permit coor-  
12 dinator, obtaining their State, Federal and Forest Service,  
13 county permits for drilling projects.

14                      And from 1982 to the present I've been  
15 employed in the Unitization Group as a landman.

16           Q           And what is your current occupation and  
17 capacity with ORYX Energy?

18           A           I'm a certified professional landman;  
19 became a certified professional landman in 1986 and am a  
20 landman in their Unitization Group.

21           Q           Describe the general scope of the acti-  
22 vities you were asked to perform by your company with re-  
23 gards to this particular application.

24           A           Okay. With regard to this application I  
25 was asked to contact the operator of the Johnson Federal

1 Well 12-5 in the west half of Section 12, Township 25  
2 North, Range 2 West, and also to contact the working in-  
3 terest owners in the east half of said Section 12, to  
4 determine their interest in pursuing the formation of a  
5 voluntary 640-acre pooling unit.

6 Q And have you completed that effort?

7 A Yes, I have.

8 MR. KELLAHIN: At this time,  
9 Mr. Examiner, we tender Ms. Staley as an expert petroleum  
10 landman.

11 MR. STOGNER: Are there any  
12 objections?

13 There being none, Ms. Staley  
14 is so qualified.

15 Q Ms. Staley, before we go into the speci-  
16 fics of the exhibit book that you have organized, would you  
17 simply summarize for us the general information that's con-  
18 tained in your exhibit book?

19 A Sure. The first set of exhibits is a  
20 series of maps and plats that identify the general area,  
21 show the general area where Section 12 in question is lo-  
22 cated and the next series of plats shows ownership, lease  
23 status information, working interest percentage, informa-  
24 tion on various acreage or tract bases.

25 There is a working interest ownership

1 table that summarizes the same working interest ownership  
2 information which is shown on the previous plat.

3 There's a short chronology of events  
4 that shows some of the steps that I took in my responsibi-  
5 lity for this application. Also included is our letter to  
6 all the working interest owners in Section 12 requesting  
7 their assistance in the formation of a voluntary unit. In  
8 response to that we have a series of letters we received in  
9 reply or ballots that were returned to us.

10 And the final exhibit is a copy of the  
11 State of New Mexico lease in which Sun and Dugan own an in-  
12 terest that covers the northeast quarter of Section 12.

13 Q Let's go to what is marked as Exhibit  
14 Number One and have you identify that exhibit for us.

15 A Exhibit Number One is an index map that  
16 shows the location of Section 12, Township 25 North, Range  
17 2 West that's the subject of this application. It's noted  
18 by the diagonal hachures, the section where we propose a  
19 640-acre proration unit. It's also located just adjacent  
20 to the western boundary of the Canada Ojitos Unit.

21 Q At the time you commenced -- well, at  
22 what point did you commence working on your efforts to con-  
23 solidate this as a 640-acre spaced unit dedicated to the  
24 Johnson Federal 12-5 Well?

25 A Okay. Shortly after Sun received the

1 denial of their application to have the east half of Sec-  
2 tion 12 committed or -- or taken into the Canada Ojitos  
3 Unit I was asked to pursue a voluntary 640-acre proration  
4 unit.

5 Q What is the basis of the data or the  
6 land information that you utilized in order to satisfy  
7 yourself that you were dealing with the appropriate parties  
8 in your effort to consolidate the acreage?

9 A Okay. We had a land check conducted of  
10 both the BLM state record and of the county records in Rio  
11 Arriba County to determine the ownership in the area.

12 Q Did you contact the operator of the Mal-  
13 lon Johnson Federal 12-5 Well to determine whether or not  
14 the information that had been supplied to you was verifi-  
15 able with their records?

16 A Yes. In addition to our records check  
17 we have also tendered a copy of the communitization agree-  
18 ment that was prepared in 1986 for Mallon and compared the  
19 interest with that, and I had several conversations with  
20 their Division Order Analyst who handled this well and she  
21 assisted me with some of the overriding royalty interests  
22 that we were not quite sure of.

23 Q Let's turn to Exhibit Number Two and  
24 have you describe the basic tracts that make up or compose  
25 the mineral ownership in Section 12.

1           A           Okay.    On Section 12 there's a plat in  
2 which we show interest on the tract basis and the basis of  
3 a tract was the individual lease, individual State of New  
4 Mexico lease, comprised a tract.

5                        At the top of each tract you'll see the  
6 major lessee of record on the BLM records.

7                        Below that we show the status of the in-  
8 dividual lease.

9                        Below that is the tract number.

10                      Below that, the tract acreage.

11                      And that basically is what is summarized  
12 on this exhibit.

13           Q           When we look at the Johnson Federal 12-5  
14 Well, what is the current spacing unit dedicated for the  
15 Gavilan Mancos production from that well?

16           A           Well, the current spacing unit for that  
17 well is a 320-acre unit comprised of the west half of Sec-  
18 tion 12 and, as those are all Federal leases, they have  
19 been communitized to a 320-acre unit.

20           Q           When we look at the east half of Section  
21 12 are we also dealing with all Federal leases --

22           A           Yes, all --

23           Q           -- Federal mineral ownership?

24           A           All the royalty ownership and mineral  
25 ownership is Federal.

1 Q When you look at the southeast quarter  
2 of Section 12, you've got that divided into Tracts 5 and 6?

3 A That's correct.

4 Q Are the base leases in either one of  
5 those tracts held by production from wells in other forma-  
6 tions?

7 A Yes, they are.

8 Q When we look at the northeast quarter of  
9 Section 12, what's the status of that lease?

10 A The status of the Sun and Dugan lease is  
11 that it's in a nondevelopment status and has an expiration  
12 date of July 31st, 1989.

13 MR. STOGNER: And which one --  
14 which tract is due for July 31st?

15 A Tract No. 1 in the northeast quarter of  
16 Section 12.

17 Q And the working interest ownership in  
18 that tract is as shown on the display?

19 A Yes, it is.

20 Q Divided between Sun, now ORYX, and  
21 Dugan?

22 A Yes.

23 Q All right, let's turn now to Exhibit  
24 Number Three, Ms. Staley, and have you identify and de-  
25 scribe that display.

1           A           Okay.    On Exhibit Number Three we still  
2 show working interest ownership on the tract basis but on  
3 this exhibit I've put the owners of the oil and gas lease-  
4 hold present working interest as opposed to just the major  
5 lessees of record which were shown on the previous plat,  
6 and I hope you can read the interest on here. We wanted to  
7 fit them all on one plat so they're rather small.

8           Q           Have you attempted to verify with the  
9 various working interest owners in the individual tracts  
10 that to the best of your knowledge, information and belief,  
11 this information is correct?

12          A           Yes, I have.

13          Q           All right, let's turn now to Exhibit  
14 Number Four. What have you demonstrated in this display,  
15 Ms. Staley?

16          A           Okay.    On Exhibit Number Four I've shown  
17 the ownership of the working interest in the west half  
18 based on the 320-acre existing unit and I've shown the  
19 working interest on the east half if it were in a 320-acre  
20 spaced unit as opposed to the individual leases or tracts  
21 that make up the east half.

22          Q           All right, let's turn to Exhibit Number  
23 --

24                               MR. STOGNER: Before we leave  
25 that one, what's on that one? Now looking at the west half

1 you have the initials BPO and APO? What are those?

2 A Okay, I'm sorry. BPO stands for before  
3 payout and APO stands for at payout.

4 MR. STOGNER: And in all in-  
5 stances those are different numbers, is that correct?

6 A No, I don't believe in all instances.

7 MR. STOGNER: Could you give  
8 me a little knowledge on why that is, why the (unclear  
9 changes as after payout and before?

10 A Well, some of the assignments there were  
11 involved in Mallon's leases assigned a certain working in-  
12 terest from inception of the well, I guess you could say  
13 inception of the lease. And other of the assignments actu-  
14 ally assign a before payout interest and an after payout  
15 interest, or had overrides that were convertible to a  
16 working interest at payout; just according to Mallon's con-  
17 tract.

18 MR. STOGNER: Okay, so it de-  
19 pended on -- it all depended on each individual --

20 A Each individual contract or assignment.

21 MR. STOGNER: Thank you. Mr.  
22 Kellahin?

23 Q Let's turn now to Exhibit Number Five,  
24 Ms. Staley, and have you describe for us the information  
25 shown on this display.



1 of fitting plat into where it was readable, I only included  
2 the after payout figures for the working interest owners.

3           The last two columns I'll discuss next.  
4 The second to the last column is headed ORYX Proposed Cost  
5 Allocation and that is the summary of parties responses to  
6 our letter that was sent out to them on June 8th requesting  
7 their interest in the formation for the approval or disap-  
8 proval of the formation of a 640-acre unit with specific  
9 cost allocation.

10           The last column which is (unclear)  
11 640-acre spacing unit summarizes that party's position just  
12 on the formation of a 640-acre spacing unit.

13           Q           Let me ask you, as of today in response  
14 to all of the inquiries you've made of the various working  
15 interest owners in both the undeveloped and the developed  
16 320, have you had any party request you to delay the hear-  
17 ing or request that they need more time in order to make a  
18 decision about your application?

19           A           No, I have not.

20           Q           Have you had any party object to the  
21 inclusion of the undeveloped east half with the developed  
22 west half?

23           A           No, we've had no one say that they were  
24 against forming a 640-acre unit. Of course, if you look at  
25 the second to last column on my Exhibit Six, you will see

1 that a number of parties were against the formation of the  
2 unit as proposed in ORYX's June 8th letter.

3 Q The proposal for the formation had to do  
4 with the -- the compensation the owners in the east half  
5 would pay the owners in the west half for the remaining re-  
6 serves of the well.

7 A That's correct.

8 Q And that is what's in intended to be  
9 shown the second to last tabulation --

10 A Yes.

11 Q -- where is says proposed cost alloca-  
12 tion?

13 A That's correct.

14 Q Can you summarize what is shown in that  
15 tabulation so that we can see in relation to east half and  
16 west half owners how they have lined up on that issue?

17 A Okay. If you look at the second last  
18 column, we've had approximately -- if you look on a  
19 640-acre basis, we've had approximately 25.39 percent of  
20 the working interest ownership in favor of the 640-acre  
21 unit as ORYX proposed.

22 And if you look at the last column, I  
23 didn't total up the interest of those parties in favor but  
24 the most important point is that I did have no party object  
25 at all to the formation of the 640-acre unit, including the

1 east half owners with the west half owners.

2 Q In your opinion based upon your efforts  
3 with regards to voluntary joinder in consolidating the  
4 acreage on some participation basis, will more time allow  
5 you to successfully obtain 100 percent voluntary joinder?

6 A No.

7 Q Let's turn now to Exhibit Number Seven  
8 and talk about some of the events that you have personally  
9 been involved in with regards to discussions with various  
10 interest owners on consolidating the acreage.

11 Would you summarize your particular ac-  
12 tivity?

13 A Sure. As I have stated earlier, after  
14 we received the application denying the inclusion of the  
15 east half of Section 12 in the Canada Ojitos Unit, I was  
16 asked to contact the operator of the Johnson Federal Well  
17 12-5 and the working interest owners in the east half of  
18 that section to determine their interest in the formation  
19 of a 640-acre spacing unit.

20 When I contacted both Mallon Oil and  
21 Mesa Grande they indicated they would still probably be in  
22 favor of forming a 640-acre unit and asked that we send  
23 them a letter regarding such formation of a pooled unit  
24 and said they would respond to the letter.

25 Most of the owners in the east half of

1 the section also said they would like to see a letter  
2 proposal and they would respond to that.

3 So on June 8th a letter providing Sun's  
4 proposal for a voluntary and a forced pooling unit was sent  
5 to all the working interest owners in Section 12 with a  
6 ballot attached where the party could indicate their re-  
7 sponse as far as approval or disapproval of the proposal.

8 Then I've included from July -- from  
9 June 11th to June 20th we were receiving replies to that  
10 June 8th letter and ballot from some of the working inter-  
11 est owners.

12 After receiving responses from Mesa  
13 Grande and from Mallon on behalf of a number of their own-  
14 ers, it became evident we had a disagreement over the par-  
15 ticipation or the cost allocation for forming a 640-acre  
16 unit and both Mallon and Mesa Grande's letter indicated  
17 they thought the best forum for forming a 640-acre spacing  
18 unit would be come to the Commission and have a compulsory  
19 pooling hearing.

20 So on June 20th application was filed in  
21 this case for the compulsory pooling.

22 Subsequent to that I --

23 Q Let me stop you for a moment.

24 A Okay.

25 Q On the June 20th entry you've indicated

1 that the application of pooling was filed. Did you prepare  
2 the tabulation of working interest owners names and addres-  
3 ses for notices for that hearing purposes?

4 A Yes, I did.

5 Q In addition did you cause to be prepared  
6 the royalty and overriding royalty interest tabulation of  
7 owners and their addresses?

8 A Yes, I did.

9 Q Let me show you a copy of the applica-  
10 tion that was filed in this case and ask you to review for  
11 me Exhibit A, B and C to that application and make sure  
12 that those exhibits are the same ones that you caused to be  
13 prepared.

14 A Yes, those are the same exhibits.

15 Q To the best of your knowledge, informa-  
16 tion and belief are the working interest, royalty owners  
17 and overriding royalty owners in the entire section reflec-  
18 ted on Exhibits A, B and C to the application?

19 A Yes, they are.

20 Q Apart from the contacts and unable to  
21 resolve the issue of participation, did you also discuss  
22 with Mallon and/or Mesa Grande their joint operating  
23 agreement by which they currently operate the well?

24 A I didn't have too much discussion with  
25 them other than I'd asked their landman to send me the ap-

1 plicable JOA to the west half and she indicated they oper-  
2 ated under three separate JOAs and she would send all those  
3 to me, and she did, and I have reviewed those. I've not  
4 discussed them further with them.

5 Q Within each of those JOAs do you have a  
6 tabulation of what is set forth in those joint operating  
7 agreements for overhead rates?

8 A Yes, I do.

9 Q Can you recite those for us?

10 A Yes. One of the JOAs has a \$3500  
11 drilling well rate; \$350, producing well rate.

12 The second JOA has \$4000 -- I'm sorry,  
13 yes, \$4000 drilling well rate; \$400, producing well rate.

14 And the third has \$4108.08 drilling well  
15 rate, and \$410.08, I believe, producing well rate.

16 Q It is common for pooling orders to in-  
17 clude approval of an overhead rate.

18 A That's correct, from -- from my know-  
19 ledge of reading several of the past orders in these cases.

20 Q Do you have any recommendation or sug-  
21 gestion to the Examiner as to which of these rates to uti-  
22 lize in his pooling order?

23 A I think that ORYX Energy could probably  
24 live with the overhead rate of about \$4000, producing well  
25 rate; \$400, drilling well rate. If that's not acceptable,

1 I feel certain we could negotiate a rate that would be  
2 agreeable to all the parties.

3 Q Of the three rates that you are aware  
4 of, none of those is so far out of line that it would merit  
5 an objection from ORYX?

6 A That's correct.

7 Q Are you currently aware of exactly what  
8 Mallon is charging for a producing well rate for the wells?

9 A No, I only know what is stated in the  
10 joint operating agreements.

11 Q All right. Let's turn now to the exhi-  
12 bits that are contained behind what is a title page, Mr.  
13 Examiner. The title page is marked as Exhibit Eight and  
14 then behind that title page we have included a number of  
15 documents and correspondence that apply to the June 8th  
16 letter.

17 Ms. Stacey, would you simply describe  
18 what you have set forth behind that exhibit page for us?

19 A Okay. Behind that exhibit page that's  
20 in front of Exhibit Number Eight is a copy of the June 8th,  
21 1989 letter that went to working owners with Sun's proposal  
22 for the formation of a voluntary 640-acre spacing unit.

23 Attached to that letter is the address  
24 mailing list for that letter.

25 Also attached behind that are -- or is

1 proof of mailing and delivery. All of the deliveries with  
2 the exception of two were made by Federal Express. The  
3 other two we could not obtain street addresses on so they  
4 were sent by certified U. S. mail.

5 The bulk of the attachment you'll see  
6 with delivery of record is the Federal Express proof of  
7 delivery.

8 Q Let me go -- the June 8th letter, then,  
9 has been sent out over your signature?

10 A Yes, it has.

11 Q Let's turn to the third page of that  
12 letter, --

13 A Okay.

14 Q -- which is the page that has your sig-  
15 nature at the bottom.

16 A Okay.

17 Q If you'll look at the first full para-  
18 graph on that page and then the last half of that first  
19 paragraph where you put forth in writing, then, ORYX's  
20 proposed participation formula for the undeveloped interest  
21 owners to participate with the developed owners, would you  
22 tell the Examiner specifically what ORYX was proposing so  
23 he'll have that in mind as we continue our discussion?

24 A Okay. ORYX was proposing that the  
25 working interest owners in the east half of Section 12 pay

1 to the working interest owners in the west half their pro  
2 rata share of \$40,000 which ORYX Energy stated represented  
3 50 percent of the current net present value of Mallon's  
4 Federal -- Johnson Federal No. 12-5 Well discounted at 15  
5 percent.

6 Q The current net present value calcula-  
7 tions based upon remaining reserves were performed by what  
8 engineering individual with ORYX?

9 A These calculations were performed by  
10 Richard Dillon.

11 Q And is Mr. Dillon present in the hearing  
12 room today?

13 A Yes, he is.

14 Q All right, let's turn after the mailing  
15 list and all the ballots and information contained in  
16 Exhibit A, and have you locate for us the next numbered  
17 exhibit.

18 A Okay. The next numbered exhibit is Ex-  
19 hibit Number Nine. It's noted by a cover page that says  
20 returned ballot (not clearly understood) from working in-  
21 terest owners to June 8th, 1989, letter, and it follows the  
22 last sheet or delivery record for the Federal Express proof  
23 of delivery.

24 Q All right, what have -- what have you  
25 placed in the exhibit book after this page showing Exhibit

1 Number Nine as the cover sheet?

2 A Okay. After the cover page for Exhibit  
3 Number Nine, we've included any of the letter responses we  
4 had to our June 8th letter from any of the working interest  
5 owners and in addition any of the ballots that the working  
6 interest owners sent back to us with either their approval  
7 or disapproval or abstention as far as the voluntary 640-  
8 acre spacing unit that was proposed in our letter.

9 Q All right, and after the additional cor-  
10 respondence and returned ballots, what is the next exhibit  
11 that you have?

12 A The next exhibit, which is also the last  
13 exhibit, which is marked Exhibit Number Ten, is a copy of  
14 the State of New Mexico Oil and Gas Lease -- I'm sorry, not  
15 the State of New Mexico, Federal Lease No. 58855.

16 This lease covers the northeast quarter  
17 of Section 12, 25 North, 2 West, and the the leasehold is  
18 owned by Sun Operating Limited Partnership and Dugan Pro-  
19 duction Corp. and this lease shows that unless it is placed  
20 in a development status by July 31st of 1989, it would ex-  
21 pire under its own terms.

22 ORYX Energy is therefore respectfully  
23 requesting the Commission to issue an expedited order that  
24 would place this lease in a development status prior to  
25 July 31st with an effective date for the pooling unit of

1 July 12th, the date of this hearing. We feel that as there  
2 was no other alternative as our enlargement of Canada  
3 Ojitos Unit was turned down, that at this point the most  
4 viable way to put this lease in a producing status for the  
5 east half owners to recover any reserves out of their tract  
6 is to include it in a 640-acre unit.

7 Q Thank you, Ms. Staley.

8 MR. KELLAHIN: I have not  
9 marked this as an exhibit yet, and I'll have to take a  
10 moment and find what the last exhibit number is, but I have  
11 a certificate of mailing that corresponds to Ms. Staley's  
12 testimony about the prepared mailing list for the working  
13 interest owners, royalty and overriding royalty owners,  
14 which we have sent out from my office to notify parties of  
15 the hearing, Mr. Examiner, and at this point let me locate  
16 my last exhibit and I'll mark it for you.

17 This will be Exhibit Number  
18 Forty, Mr. Examiner.

19 That concludes our examination  
20 of Ms. Staley, Mr. Examiner.

21 We would move the introduction  
22 of her Exhibits One through Ten, as well as our certificate  
23 of mailing which is marked Exhibit Number Forty.

24 MR. STOGNER: Are there any  
25 objections?

1 Exhibits -- if not, Exhibits  
2 One through Ten and Exhibit Number Forty will be admitted  
3 into evidence at this time.

4 Mr. Pearce, your witness.

5 MR. PEARCE: Thank you, Mr.  
6 Examiner.

7

8

CROSS EXAMINATION

9

BY MR. PEARCE:

10 Q Ms. Staley, I have just a couple of  
11 things I want to clear up with you, if I may.

12 I'd ask you to turn back to the early  
13 part of your exhibit booklet. Let's look at Exhibit Number  
14 Three, please, and I notice that, as was discussed, the  
15 before payout and after payout figures?

16 A Yes.

17 Q Do you know if the Johnson 12-5 Well has  
18 paid out?

19 A I do not.

20 Q And I assume you therefore wouldn't know  
21 if it hadn't paid out how much remains to be paid out.

22 A That's correct, I do not know.

23 Q Let's look, if we may, Ms. Staley, at  
24 your letter of June 8th. I want to focus on the same para-  
25 graph that Mr. Kellahin talked to you about. It's the top

1 paragraph on page 4. The third page, I apologize.

2 MR. STOGNER: I'm sorry, the  
3 third page of Exhibit Four, you said?

4 MR. PEARCE: Actually it's the  
5 third page of a letter, the fourth page of the exhibit, if  
6 you count that preference sheet and Exhibit Number Eight,  
7 the June 8th letter.

8 MR. STOGNER: Okay.

9 Q The third page of that letter, the top  
10 paragraph that begins with the word "historical". Do you  
11 have that paragraph, Ms. Staley?

12 A Yes.

13 Q Thank you, ma'am.

14 A Uh-huh.

15 Q As I understand the first sentence of  
16 that paragraph, it's discussing the way the Division has  
17 historically handled pooling cases of this type. Is that  
18 what you intended to convey with that?

19 A Yes.

20 Q And that was, as I understand it, a par-  
21 agraph similar to what the Division did in the Loddy case,  
22 is that correct?

23 A That's correct.

24 Q Let's keep that with you, a finger in  
25 that page, but let's turn back to Exhibit Number Nine,

1 which are the ballots you received.

2 A Okay. I found Exhibit Number Nine.

3 Q And the first ballot shown is from  
4 Mallon Oil Company, is that correct?

5 A Yes.

6 Q I'd ask you to turn to the last para-  
7 graph of that letter from Mallon.

8 A Okay.

9 Q And would you read into the record,  
10 please, the last sentence of that letter, beginning with  
11 the word "Mallon"?

12 A Okay. "Mallon, et al, would have no  
13 objection to the forced pooling through a Commission hear-  
14 ing and under terms consistent to those ordered by the  
15 Commission in the 640-acre pooling of the Loddy No. 1  
16 Well."

17 Q Now let's flip back up, if we could, to  
18 your Exhibit Number Eight, the June 8th letter. What did  
19 the Loddy order do?

20 A The Loddy order communitized or I  
21 should say formed a 640-acre spacing unit with undeveloped  
22 acreage into an existing well, much the same as the appli-  
23 cation here today.

24 The Loddy order, from my recollection  
25 of reading the copy of it, came up with a figure for the

1 cost of the drilling and completing of the well and the  
2 owners who were coming into that well, I believe the order  
3 stated, would pay the cost for drilling, equipping, com-  
4 pleting the well plus an interest rate. I believe that  
5 interest rate was 12 percent, as a basis for coming into  
6 the well.

7 Q Do you remember from what date the 12  
8 percent interest ran?

9 A I'm not certain. I believe it ran from  
10 -- I'm sorry, I can't recollect. I've got several pooling  
11 orders mixed up, I apologize.

12 Q Do you know what the cost of drilling,  
13 equipping and completing the Johnson Federal 12-5 -- I  
14 forgot how I started that, I apologize. Do you know what  
15 those costs are?

16 A The cost that I -- the cost figure I've  
17 seen for the Johnson Federal 12-5 Well was in the order  
18 issued, I believe, when Mesa Grande was being communitized  
19 into that well and I believe it was a figure of \$565,840,  
20 indicated by Mallon Oil in that hearing. Of my own know-  
21 ledge that is from reading it in the order.

22 Q Mr. Kellahin mentioned that the \$40,000  
23 cost figure set forth in that paragraph of the letter had  
24 been worked up by Mr. Dillon, is that right?

25 A That's correct.

1 Q Is he going to testify?  
2 A Yes, Mr. Dillon is going to testify --  
3 Q I won't ask --  
4 A -- today.  
5 Q -- you to crank that number in for me.  
6 A Okay.  
7 Q Thank you.

8 MR. PEARCE: I don't think I  
9 have anything further of this witness, Mr. Examiner.  
10 Thank you.

11 MR. STOGNER: Thank you, Mr.  
12 Pearce.

13 Mr. Lopez?

14 MR. LOPEZ: No questions.

15

16 CROSS EXAMINATION

17 BY MR. STOGNER:

18 Q I need to get a few things straight  
19 here in my mind.

20 Let's talk about the page 2 of the  
21 Mallon letter, that being Exhibit Number Nine.

22 Now we've been talking about this Loddy  
23 order and it's coming up -- came up several times.

24 Does anybody have that order number?

25 MR. KELLAHIN: We have it in

1 our exhibit book, the actual order. The Loddy order is  
2 R-8639 and it will be in Mr. Dillon's exhibit book.

3 MR. STOGNER: Okay. R-8639?

4 MR. KELLAHIN: Yes, sir.

5 Q Now, Ms. Staley, you mentioned a number  
6 just a little while ago when Mr. Pearce first cross exa-  
7 mined you, \$565,848?

8 A 840.

9 Q 840 dollars and that comes out of an  
10 order. What order are you referring to?

11 A Okay, it --

12 Q That wasn't that Loddy order, was it?

13 A No.

14 MR. KELLAHIN: No, sir. Mr.  
15 Examiner, that's Order No. R-8262, which is the order  
16 entered on the Mallon application to pool Mesa Grande when  
17 the Johnson Federal spacing unit went to 320 in the west  
18 half of the section.

19 You may remember that the  
20 Gavilan Mancos went through a series of spacings, if you  
21 will; went from 40s to 320s to 640s, so this well has been  
22 the subject of a prior pooling case. Mr. Dillon's exhibit  
23 book also contains a copy of that order.

24 MR. STOGNER: And at that  
25 time that went from 160 to 320 --

1 MR. KELLAHIN: Mr. Sweet may  
2 remember better than I do, but it was drilled on 40s. It  
3 went from 40s to 320s as a result of the Gavilan orders.

4 And then -- and the Gavilan  
5 spacing change in '87 to 640s resulted in the Loddy Well,  
6 Seifert Well and the Wildfire Well.

7 MR. STOGNER: I'm going to  
8 take administrative notice of those two orders on the re-  
9 cord right now, Order R-8639 and R-8260, just the orders  
10 alone at this point.

11 Q On Exhibit Number Three, all the work-  
12 ing interest owners, do you have a recollection of which  
13 ones were force pooled at that time or which ones were  
14 voluntarily communitized?

15 A No, I do not.

16 MR. PEARCE: Mr. Examiner.

17 MR. STOGNER: Yes, sir.

18 MR. PEARCE: If I may step  
19 in, if you'd look at Exhibit Number Three, if in that case  
20 the well went from 40 to 320, it appears that all of the  
21 interest owners in Tract 3 own a common interest in one  
22 lease, so the interest owners in Tract 2 and the interest  
23 owners in Tract 4 had to be pooled into that well in addi-  
24 tion to half of Tract 3, because if the well was on a 40,  
25 it was the southwest quarter of the northwest quarter of

1 Section 12 because that's where the well is, as shown on  
2 Exhibit Number Two.

3 MR. LOPEZ: Mr. Examiner, if I  
4 might jump in here, too.

5 The order that changed the  
6 spacing from 320 to 640 excepted 320, as well, -- exempted  
7 320 in the Gavilan Pool, which was part of the problem and  
8 why we're here.

9 MR. STOGNER: Thank you, Mr.  
10 Lopez.

11 Q Ms. Staley, in Exhibit Number Six, that  
12 is the results of the ballot, I would assume. This is  
13 information that was obtained from June 11th to June 20th,  
14 is that correct?

15 A Yes, those were written responses that I  
16 received during that time.

17 Q Have you had any other responses after  
18 June 20th that is not shown on this particular tally?

19 A I did have a phone conversation with  
20 Mountain States Petroleum Company just last week and one  
21 with Ibex Partnership and PC Limited. They just called  
22 indicating they would hold their official response until  
23 they saw the results of this July 12th (unclear). They in-  
24 dicated there that they did not expect to have any opposi-  
25 tion to the formation of the unit.

1           Q           So with that conversation the informa-  
2 tion that's shown here is accurate.

3           A           Yes.

4           Q           Even after that conversation.

5           A           Yes.

6                           MR. STOGNER: Gentlemen, help  
7 me keep on track here, Mr. Kellahin, Mr. Pearce, we seem to  
8 be agreeing on everything but this \$40,000. Is that where  
9 we're heading?

10                          MR. KELLAHIN: Yes, sir, and  
11 that's the focus of Mr. Dillon's testimony, is cost appli-  
12 cation.

13                          MR. STOGNER: Do you agree  
14 with that statement, Mr. Pearce?

15                          MR. PEARCE: Yes, sir.

16                          MR. STOGNER: All right.  
17 Thank you, Ms. Staley.

18                          I have no further questions of  
19 the witness. Is there any other questions of Ms. Staley?

20                          MR. KELLAHIN: Nothing.

21                          MR. STOGNER: The witness may  
22 be dismissed.

23                          MR. KELLAHIN: Mr. Examiner,  
24 at this time I'd call Mr. Richard Dillon.

25                          MR. STOGNER: Mr. Kellahin,

1 you may continue.

2 MR. KELLAHIN: Thank you, Mr.  
3 Examiner.

4

5

RICHARD G. DILLON,

6 being called as a witness and being duly sworn upon his  
7 oath, testified as follows, to-wit:

8

9

DIRECT EXAMINATION

10 BY MR. KELLAHIN:

11 Q Mr. Dillon, for the record you please  
12 state your name and occupation?

13 A My name is Richard Dillon. I'm a staff  
14 reservoir engineer for ORYX Energy Company in Midland,  
15 Texas.

16 Q Mr. Dillon, have you on prior occasions  
17 testified before the Oil Conservation Division of New  
18 Mexico?

19 A Yes, I have.

20 Q Were your qualifications accepted and  
21 made a matter of record on those occasions?

22 A Yes, sir.

23 Q Did you testify before Examiner Stogner  
24 on the May 10th and 11th hearings in Case 9671 with regards  
25 to the application to include the east half of 12 into an

1 expansion of the Canada Ojitos Unit?

2 A Yes.

3 Q Some of the information that you pre-  
4 sented in that case you have reexamined and propose to  
5 present today?

6 A Correct.

7 Q What specifically did you do as a staff  
8 reservoir engineer with regards to this particular appli-  
9 cation, Mr. Dillon?

10 A In regards to this application my re-  
11 sponsibility was to determine what an equitable and fair  
12 cost basis for participation in the Johnson Federal 12-5  
13 Well would be from ORYX's viewpoint in terms of joining  
14 that well under a compulsory pooling.

15 In order to do that I would have to do a  
16 reservoir analysis, reserve estimation, some economic cal-  
17 culations in order to determine that and it was my objec-  
18 tive to come up with a conclusion and a recommendation of  
19 what would be a fair and equitable value to pay to the ex-  
20 isting owners of the well.

21 Q In making that study did it include ex-  
22 amining the orders the Commission had entered in the John-  
23 son Federal 12-5 when the 320-acre spacing order was enter-  
24 ed?

25 A Yes.

1           Q           And did it also include an examination  
2 of the pooling order on the Seifert Well in Order No. R-  
3 8641?

4           A           Yes.

5           Q           And you've examined the production from  
6 both those wells?

7           A           Yes.

8           Q           In addition, did you examine the pro-  
9 duction and the order entered for the Wildfire Well in  
10 Order No. R-8664?

11          A           Yes.

12          Q           And finally in the Loddy Well, Order No.  
13 R-8639?

14          A           Yes, I did.

15          Q           And have you completed your study?

16          A           Yes, I have.

17                           MR. KELLAHIN: At this time,  
18 Mr. Examiner, we tender Mr. Dillon as an expert reservoir  
19 engineer.

20                           MR. STOGNER: Are there any  
21 objections?

22                           Mr. Dillon is so qualified.

23          Q           What did your conclusions show you, Mr.  
24 Dillon? What did you conclude?

25          A           My conclusions showed me that, one, at

1 this point, and we might want to refer to Exhibit Eleven in  
2 the exhibit book, which is immediately in front of Tab A,  
3 so, first of all, we find that we are down to two options  
4 at this point in order to put this tract of land, the east  
5 half of Section 12, into production in the Mancos, we can  
6 at this point either drill a new well or, as we have pro-  
7 posed today, pool the entire 640-acre section into the  
8 existing Johnson Federal Well.

9 I found from studying the reservoir that  
10 the main reserves can be effectively recovered with the ex-  
11 isting wells and a new well was unnecessary and would be  
12 uneconomic in all likelihood, and that pooling the east  
13 half of the section with the west half allows the working  
14 interest owners and royalty owners in the east half an op-  
15 portunity to participate in the Mancos which they otherwise  
16 would not have.

17 Pooling all of the section protects the  
18 correlative rights of all the owners in the section. I  
19 believe it would be the fair -- be the -- the natural thing  
20 to do at this point.

21 Q Before we talk about the reasons and the  
22 facts that you have elicited to support your summary, let's  
23 talk generally how you've organized your exhibit book.

24 Let me ask you to turn behind Tab A and  
25 let's examine, without going into the detail of all the

1 entries, but examining generally where you're taking us  
2 with an examination of your study.

3           A           As you can see there listed on the in-  
4 dex, the first section is Section B, which is the land  
5 section, which Ms. Staley presented, there is an oppor-  
6 tunity to add those exhibits in the book here.

7                       My first section that I have prepared  
8 was Section C, entitled Reservoir. We have pressure plots,  
9 a map, tabulation of pressure data, and we'll draw conclu-  
10 sions from that data as to what status the reservoir is in  
11 at this point.

12                      Section D outlines what's termed the  
13 drilling option whereby we would drill a new well in the  
14 east half of the section. We have data from surrounding  
15 wells and which we've used as an analogy to what we'd ex-  
16 pect in terms of reserves for a new well. We present our  
17 conclusions from that.

18                      Section E we have what we term the  
19 pooling option, which is our recommendation. We have an  
20 analysis that the Johnson Federal 12-5, the economics and  
21 the present value of that well and what we propose as our  
22 basis for participation.

23                      Behind that we have a review of previous  
24 poolings. We have a map showing where the wells at that  
25 have been pooled, a summary of previous orders, production

1 plots.

2 Behind that we have Section G, which is  
3 a copy of those orders.

4 And in conclusion we have our summary  
5 and what we would recommend.

6 Q Let's commence now with your reservoir  
7 study, Mr. Dillon. Let me ask you to turn behind Tab B.  
8 The first display is unnumbered. It's simply identical to  
9 Ms. Staley's display, showing the well locations in the  
10 area?

11 A That's correct.

12 Q Let's turn behind Tab C, then, which is  
13 your first numbered Exhibit Twelve?

14 A That's correct.

15 Q In conducting your reservoir study,  
16 would you identify for us the area that you've studied?

17 A Shown on this map is a partial area of  
18 the Gavilan Mancos Pool along with a small section of the  
19 West Puerto Chiquito Pool. This is all in Township 25  
20 North, Range 2 West, and a portion of Range 1 West.

21 Centered in the plat, stippled with a  
22 slash going from northwest to southeast, is the subject  
23 Section 12, wherein the Johnson Federal 12-5 Well is. This  
24 is our proposed 640-acre proration unit.

25 Surrounding that we have a dashed line

1 which is indicated as the reservoir study area. This in-  
2 cludes four wells which I've analyzed in some detail as to  
3 remaining reserves, which we will here in a bit pursue in  
4 terms of running economics for what we'd expect to get from  
5 a new well drilled in this area.

6 The pressure data that's available from  
7 the surrounding wells is tabulated in the next two exhibits  
8 that we'll discuss in just a moment.

9 Q All right, let's turn now to Exhibit  
10 Number Thirteen. Before you describe your conclusions from  
11 this display, simply tell us what it is.

12 A Exhibit Thirteen is a partial reproduc-  
13 tion of a previous exhibit that has been entered in num-  
14 erous occasions in the past in Gavilan Mancos Pool hear-  
15 ings. It's a plot of cumulative oil production from the  
16 pool versus reservoir pressure. The cumulative oil pro-  
17 duction is shown on the horizontal axis, the X axis.

18 Q You've done something to that basic dis-  
19 play subsequent to hearing. What was it?

20 A The most recent data that we are aware  
21 of and that we have obtained has been plotted on this and  
22 we have extrapolated to be a graph downward, expanded it so  
23 that we can include all the data that we presently have ob-  
24 tained.

25 Q What does an interpretation of this re-

1    servoir data show you as a reservoir engineer?

2           A           This graph shows, as we've stated in  
3    previous occasions, that one, there's effective communi-  
4    cation in terms of pressure throughout the pool. You can  
5    see the trend is shown in the upper lefthand portion of the  
6    graph. As you come down you see there's a difference.  
7    There's a grouping of two separate groups of wells in terms  
8    of what their -- their actual production -- or, excuse me,  
9    their pressure is in terms of -- versus the cumulative pro-  
10   duction from the pool; however, you can see the trends are  
11   very similar. There's not a great difference in the pres-  
12   sure of the data which we have added to the bottom of this  
13   graph from the Canada Ojitos Unit B No. 17 Well, which is  
14   shown extrapolated there, which goes through the 1600 bar-  
15   rel of oil per psi indication.

16                    It shows that as we have seen in the  
17   past, we are still on a severely rapid decline in pressure  
18   in the pool. The present pressure of that well, which is  
19   an observation well in the unit, is approximately 600  
20   pounds as of April of this year. This is at a datum of  
21   +370 feet above sea level.

22                    A pressure taken from the ORYX Native  
23   Son No. 1, which is within the interior of the pool, shows  
24   again about that same date that we are on the order of 470  
25   pounds at the datum of 370 feet. It shows that again we're

1 somewhere in the order of 450 to perhaps 600 pounds in the  
2 pool, which is less than one third of the original pres-  
3 sure of 1800 pounds that we found upon discovery of the  
4 Gavilan Mancos Pool.

5 It shows that, one, we have established  
6 a severe state of depletion for the reservoir, that cer-  
7 tainly we would expect an extended long life after this  
8 point.

9 It shows that we've recovered substan-  
10 tially, essentially all of the oil that we would term from  
11 the early primary stages of the reservoir and that, as  
12 we've seen in performance, we'll see in performance from  
13 the well plots that we examine later, that we certainly  
14 aren't within the early what we would call prolific produc-  
15 tion that we experienced and were able to enjoy. We're in  
16 a, if you would permit me, a depleted state at this point,  
17 simply trying to show that one, we are in pressure commun-  
18 ication; two, that we are in the unit nearing the end of  
19 the life of the reservoir.

20 Q How does that information and conclusion  
21 fit into your analysis, then, for purposes of this hearing?

22 A One, in analyzing whether or not we  
23 would drill a well in the area which includes the pressures  
24 we've shown here that are on the order or 550 to 600  
25 pounds, so that we would certainly not expect to find cer-

1 tainly virgin pressure and that we'd find a pressure that  
2 certainly wouldn't enable us to produce a sufficient amount  
3 of oil to pay for the well.

4 At the same time it tells us that the  
5 oil that in all likelihood underlies the tract that we are  
6 speaking to today will be recovered, I believe, by the ex-  
7 isting wells.

8 Q Do you have an opinion with regards to  
9 your study as to whether a well in the east half of 12  
10 would be an unnecessary well in the Gavilan Mancos Pool?

11 A Yes, I believe it would be unnecessary.

12 Q Turn to Exhibit Number Fourteen, Mr.  
13 Dillon. Will you tell us how to read that display?

14 A Exhibit Fourteen again is a plot of  
15 pressure; at this point, however, it's versus date. As you  
16 can see, we have points, vertical reference marks, annual  
17 intervals here, starting with all the available data that  
18 we know of in the map that has been -- going back to Exhi-  
19 bit Twelve.

20 Q Does this plot all the producing well  
21 pressure information within your specific area of study for  
22 this application?

23 A Yes, it does. It's all that I'm aware  
24 of.

25 Q What does it show you?

1           A           It shows me, as you can see, we indi-  
2 cated by various symbols and colors that all of the wells  
3 with the exception, perhaps, of the Howard Federal Well  
4 Reading & Bates operates, are on a very similar trend, once  
5 again showing effective pressure communication.

6                       Shown in red with the circular symbols  
7 is the Johnson Federal Well. Again it falls on trend, for  
8 example, with the Canada Ojitos Well E-6. Again we are in  
9 effective pressure communication, again showing the data  
10 that we obtained recently on the Canada Ojitos Unit B-17,  
11 it shows around the order of 600 pounds and extrapolating  
12 that down, you can see, as we end of the graph that there  
13 is not a lot of time left in terms of the life of the re-  
14 servoir should we -- assuming a reasonable abandonment  
15 pressure along the order of some say around 200 pounds.  
16 we're looking at a few years of productive life.

17           Q           Turn to Exhibit Number Fifteen now and  
18 identify that information.

19           A           Exhibit Fifteen is simply a tabulation  
20 of the pressure data that is presented on the previous  
21 plot.

22           Q           All right, let's turn now to the infor-  
23 mation behind Tab D and that is the section in which you  
24 have studied and proposed conclusions on the drilling op-  
25 tions.

1           A           That's correct.

2           Q           All right. My first exhibit is Sixteen?

3           A           Yes.

4           Q           Describe what you've summarized here.

5           A           I've summarized here again, once the two  
6 options that we are down to, one, of course, is drilling a  
7 new well. Looking at that we find that we've essentially  
8 come up with reasons not to do that.

9                       First of all, once again, reserves will  
10 be recovered by existing wells; an additional well was un-  
11 necessary. If it were drilled it would be an uneconomic  
12 investment; very, very small probability of obtaining a  
13 economic, successful well.

14                      If it were to be drilled and under cer0  
15 tain circumstances it could necessitate an offset well in  
16 the Canada Ojitos Unit in order to prevent any sort of  
17 drainage, and again, this would be an unnecessary well, so  
18 we would in this case perhaps have two unnecessary wells.

19                      On the other hand, our recommendation  
20 today, that the pooling option, we find nothing but pros on  
21 that side. We would have an opportunity for the east half  
22 working owners (unclear) to participate in the Mancos de-  
23 velopment. I believe it would protect the correlative  
24 rights in terms of those owners under both tracts of land  
25 to be able to obtain their fair share of remaining re-

1 serves. Again, should we pool it, I believe we would avoid  
2 any drilling of unnecessary wells. I don't believe there  
3 would be a well proposed, at least ORYX would not propose a  
4 well should that area be pooled.

5 Q Let's turn to Exhibit Number Seventeen,  
6 Mr. Dillon. What's the purpose of this exhibit?

7 A Seventeen shows the cumulative produc-  
8 tion data; shows the performance of the wells in the area.

9 The first four wells that have been  
10 tabulated there are in the direct study area, as I have  
11 termed it, around the subject tract.

12 The other wells are on the previous  
13 plat, again, that we looked at previously.

14 As you can see, there've been a variety  
15 of dates of initial production and to a certain extent  
16 there's a correlation between wells of equal ability to  
17 produce in terms of cumulative oil over that period of  
18 time. We've had some wells that have come on relatively  
19 late that have been poor. The Davis Federal Well, for  
20 example.

21 On the other hand a well such as the  
22 Canada Ojitos Unit F-7, the No. 38 Well in the Unit, date  
23 of first production was December of '87, it has produced  
24 26,000 barrels already to date.

25 So it shows that, again, as we've seen

1 before, there's erratic production in terms of -- of you  
2 cannot make a consistent estimate in terms of how produc-  
3 tive a well is going to be in Gavilan simply by analysis of  
4 offsetting wells; however, it's one of the few ways that we  
5 can make a reasonable estimate of what we'd expect from --  
6 from a new well.

7 As you see, though, we do have a variety  
8 of recoveries.

9 Q Your production information is  
10 cumulative through February of 1989?

11 A Correct.

12 Q And when we look specifically at the  
13 Johnson Federal 12-5 Well, from initial production through  
14 February of '89 its cumulative oil and gas is shown on the  
15 display?

16 A Yes.

17 Q Are you proposing in your conclusions  
18 that the east half owners share in this past production?

19 A No, I'm not.

20 Q Go to Exhibit Number Eighteen, Mr.  
21 Dillon. What have you shown here?

22 A Exhibit Eighteen is a plot of the pro-  
23 duction history of the Johnson Federal 12-5 Well, which is  
24 in the west half of Section 12.

25 We have on the lefthand axis barrels of

1 oil, MCF per day, and GOR plotted versus that scale; again  
2 date along the bottom.

3 As you can see, the solid green line is  
4 the oil production.

5 Gas is shown by a dashed line, with long  
6 dashes intermittent with two smaller dashes, and the GOR is  
7 shown with a dashed line consistently.

8 Q After that, then, you have interpreted a  
9 decline for the oil and the gas production?

10 A That's correct, based on the intuitive  
11 knowledge of what the pressure history has been along with  
12 past performance from the well, we've estimated what the  
13 future performance might be. That's shown by the -- again,  
14 a dashed green line for the oil. That number has been pro-  
15 bably optimistically estimated to be relatively consistent  
16 as a barrel and a half a day throughout the remaining life  
17 of the well.

18 The gas is expected to decline at a rate  
19 of 38 percent per year starting from its current rate of  
20 approximately 180 MCF per day.

21 That would leave a remaining reserve for  
22 the well of 1,500 barrels of oil and 105-million cubic feet  
23 of gas.

24 This graph, along with the next three,  
25 are the basis for our estimate of reserves for a new well,

1 or using the surrounding offset wells from that tract as  
2 analogy wells as to what we might expect from a new well  
3 drilled on that tract.

4 Q Is this a conventional, widely accepted  
5 method by which engineers determine remaining reserves for  
6 a well?

7 A Yes, it is.

8 Q All right, let's go through Exhibits  
9 Nineteen, Twenty and Twenty-one.

10 A Okay. Exhibit Nineteen is a plot for  
11 the Howard Federal 1-11. This is the north offset to the  
12 subject tract. Again we have the past production plotted  
13 and the forecast for the oil and gas shown in dashed green  
14 and red lines.

15 We have observed in state reports that  
16 the well is capable of producing more than is shown. This  
17 is a -- the previous production has been shown on a per  
18 calendar day basis, should the well, you know, be allowed  
19 to produce or to flow a month, we'd expect to see the rates  
20 that we've shown on our forecast.

21 The oil we'd expect to decline at rough-  
22 90 percent per year; the gas at about a 64 percent decline,  
23 which means there's about a 3-year life for the well, which  
24 would leave remaining reserves of 1.6-million barrels --  
25 excuse me -- thousand barrels of oil, 335.8-million cubic

1 feet of gas.

2 Q Exhibit Twenty is the same methodology  
3 applied to the Post Federal 13-6 Well?

4 A That's correct.

5 Q And Twenty-one is the same methodology  
6 applied to the Canada Ojitos Unit F-7.

7 A That's correct.

8 Q All right. Exhibit Twenty-two, then,  
9 shows us what?

10 A Exhibit Twenty-two is a tabulation and  
11 the calculation for our estimate of remaining reserves.  
12 Again we're using analogy of these four wells to determine  
13 what we might expect for a new well.

14 As shown in the columns, we first of all  
15 have the well name. We have the decline for a year we ex-  
16 pect for the oil, the initial rate, or what is exactly the  
17 current rate for the oil; remaining reserves are calculated  
18 from those numbers. The same for the gas.

19 As we can see, if we consider all four  
20 wells, we would have the total remaining reserves of 70,000  
21 barrels of oil or an average of the four would be 18,000  
22 barrels.

23 Remaining reserves in terms of gas would  
24 be 274-million cubic feet.

25 If we were to not consider the Canada

1 Ojitos Unit F-7, which we believe to a certain extent is  
2 benefitting from the gravity drainage and from the struc-  
3 tural position of the well, it's performance, as you can  
4 see, is somewhat different and it's more, certainly, pro-  
5 lific than the other wells in the Gavilan area in terms of  
6 oil production.

7 If we were to remove that well we'd see  
8 that we would have an average of only 1200 barrels of oil  
9 and 170-million cubic feet of gas. This would establish a  
10 range in which we think we would encounter the reserves for  
11 any new well.

12 At the bottom of the page is a similar  
13 calculation for what we expect initial potential for the  
14 well would be based on current rates of the existing wells.

15 Q Have you taken your estimate of the  
16 upper range of remaining reserves for the well and applied  
17 it to the east half of 12 to determine whether or not a new  
18 well could be drilled in that half section and be economic?

19 A Yes, I have.

20 Q And that's what's shown on Exhibit  
21 Twenty-three?

22 A That's correct.

23 Q And what do you conclude?

24 A Exhibit Twenty-three, which is a before  
25 Federal income tax non-escalated simple cash flow analysis,

1 shows that based on our estimated cost of a new well of  
2 \$750,000, and using a current oil price of \$19.00 per  
3 barrel and \$1.70 per MCF gas, which does not represent what  
4 ORYX would obtain or any particular individual, but simply  
5 an educated guess as to what the average price that might  
6 be in this area, shows that upon calculating based on the  
7 oil production per month and gas production per month, and  
8 counting the revenues and subtracting the operating ex-  
9 penses, severance and ad valorem taxes, that we would end  
10 up with a net revenue, not counting investment, of  
11 \$560,000, but seeing as how we would have a drilling cost  
12 of \$750,000, our net cash flow would be a negative \$190,000  
13 in this case. Again, this is the upper limit. This as-  
14 sumes we would obtain 18,000 barrels of oil and 274-million  
15 cubic feet of gas from the well.

16 Q If you use the lower range of estimated  
17 reserves, you're using 1200 barrels of oil?

18 A That's correct.

19 Q And that's going to be much worse.

20 A Yes.

21 Q And the conclusion, then, is shown at  
22 the bottom right of Exhibit Number Twenty-four. It's a --  
23 it's a loss of \$560,000 plus?

24 A That's correct.

25 Q One of the issues we discussed at length

1 at the past hearing was what activities Sun and Dugan had  
2 undertaken prior to seeking expansion into the unit for  
3 drilling of a well in the east half of 12, and I don't  
4 propose that you tell us in detail all that discussion, but  
5 would you simply highlight the information shown on Exhibit  
6 Number Twenty-five and Twenty-six?

7 A Exhibit Number Twenty-five and Twenty-  
8 six, which were again presented at the May 10th, Case  
9 Number 9671, first of all, we have the application to drill  
10 that was submitted by Jerome P. McHugh.

11 Behind that, again on Exhibit Twenty-  
12 five, we have the OCD Form C-102 for the well.

13 Behind that, Exhibit Twenty-six, we have  
14 a letter that outlines the various problems that were en-  
15 countered in trying to drill the originally proposed Con-  
16 tinental Divide No. 1, which would have been in the east  
17 half of Section 12. The second paragraph shows that ini-  
18 tially the east half was force pooled. The well, you know,  
19 was proposed, was force pooled; however, there were other  
20 complications, a right-of-way with the National Forest Ser-  
21 vice. The forced pooling order expired, reinstated, and as  
22 it turns out, the Forest Service required a road that would  
23 be in excess of \$100,000 to -- to get into the location and  
24 all of these things coupled with the fact that at this  
25 point in time in late 1986, early '87, the rules for the

1 pool were somewhat in a state of flux and the reservoir was  
2 under a great deal of study. The pressure was dropping at  
3 a serious rate that would cause consideration and certainly  
4 review of a drilling plan. It shows that there were seri-  
5 ous efforts made in order to initially develop this by  
6 drilling a new well and at that point in time it simply  
7 wasn't a prudent thing to do.

8 Q Let's go to your conclusions, then, on  
9 the drilling options which are shown on Exhibit Twenty-  
10 seven, Mr. Dillon.

11 A Four basic conclusions show that, one,  
12 the reservoir data indicates that the existing wells again  
13 will recover all the reserves that there are in Section 12,  
14 east half and west half. An additional well is unnecessary  
15 and again it would only drain reserves away from the  
16 existing wells, including the Johnson Federal Well. A new  
17 well would be uneconomic and thus is not an effective way  
18 to develop the east half of the section. That would be a  
19 very short term solution if it were economic from the date  
20 of initial potential.

21 Previous efforts to drill a well again  
22 met with numerous obstacles and again that avenue was ex-  
23 plored and since it wasn't an option then, it's not an op-  
24 tion now.

25 Q Having concluded that the only remaining

1 viable option for putting the east half into a producing  
2 status is participation of the Johnson Federal Well?

3 A That's correct.

4 Q Let's turn to Tab E and the information  
5 behind that display and see how you have analyzed the  
6 method of participation in that well.

7 What is Exhibit Twenty-eight?

8 A Exhibit Twenty-eight is a repetition of  
9 the previous exhibit that we looked at that showed the  
10 production history plotted for the Johnson Federal 12-5.  
11 Again we have our forecast plotted here as to what we think  
12 the oil and gas production will be in the future from this  
13 well. Again we're looking at remaining reserves of  
14 1.5-thousand barrels of oil and 105-million cubic feet of  
15 gas.

16 Q Turn to Exhibit Twenty-nine. What is  
17 that?

18 A Exhibit Twenty-nine is again a net cash  
19 flow analysis of the well, present day economics, if you  
20 will. Again it's before Federal income tax. There are no  
21 escalations. The same assumptions were made. Again, re-  
22 serves, we just stated, were used.

23 It shows, taking out operating expenses  
24 and severance taxes and ad valorem taxes that our net reve-  
25 nue or our net cash flow at the end of the life of the well

1 when we expect it would be shut in due to being uneconomic  
2 at the end of approximately 32 months, would be approxi-  
3 mately \$84,000.

4 Q Is this a method that would be utilized  
5 if you were making a study to determine whether or not you  
6 would recommend to your company to purchase or acquire a  
7 producing property?

8 A Yes.

9 Q What, if any, relationship does this  
10 present value analysis have to the actual cost of the well  
11 itself?

12 A There's really no correlation between  
13 this and what the well cost to drill back in 1985.

14 Q Should there be, Mr. Dillon?

15 A At this point if we were to again, as  
16 you said, using this as an analysis to buy into the well or  
17 if we were -- if we owned the well and were considering  
18 selling the well, this would be the type analysis that we'd  
19 use and any money that had been spent in the past could be  
20 somewhat irrelevant in the future value of the well.

21 Q What does your present value cash flow  
22 analysis show you as a bottom line number?

23 A Again the bottom line undiscounted cash  
24 flow would be approximately \$84,000.

25 Q How have you utilized that to determine

1 what your recommendation is for the participation in the  
2 well by the undeveloped east half interest owners?

3 A Taking that data and the suggestion that  
4 was received in the previous hearing from the OCD in terms  
5 of what a reasonable -- what would be expected to be a cost  
6 basis for participation in the well, as you can see in  
7 Exhibit Number Thirty, first of all, we've -- we've taken  
8 the cash flow and discounted it at various rates.

9 What we show here are 100 percent cost  
10 for the well. We have not broken out 50 percent of it for  
11 the east half, we're looking at 100 percent and we'll try  
12 to keep that clear as we go through here. We're looking at  
13 thousands of dollars plotted here.

14 You can see in the first group of dis-  
15 count rates we go from zero to 20 percent. We assume that  
16 there's no pooling cost. We're looking at simply what the  
17 discounted cash flow is from the well. We're looking at no  
18 discount again as approximately \$84,000. If we were to  
19 discount that at 20 percent annually, we would have a dis-  
20 counted cash flow of \$70,000.

21 We can simply apply that, that number  
22 versus a current pooling cost which we would expect to pay  
23 in order to obtain a net total discounted cash flow of  
24 zero, thus giving us various rates of return for our in-  
25 vestment. Again it would show that if we had a pooling

1 cost of approximately \$84,000 that with no discount rate,  
2 we would simply obtain no rate of return. We would simply  
3 pay out our investment with the proceeds we would receive  
4 from the well.

5 If we were to pay \$80,000 or our share  
6 of \$80,000, it would be \$40,000, for the east half owners,  
7 we would obtain a 5 percent rate of return.

8 If we were to obtain a reasonable rate  
9 of return that's accepted industry-wide at 15 percent, we  
10 would see that we'd be looking on the order of \$73,000,  
11 half of which would be approximately \$37,000 for the east  
12 half owners to pay. Again this is something that if we  
13 were to purchase, be purchasing an interest in the well as  
14 opposed to a formal forced pooling, this is a type of  
15 number that we would be expecting to look at.

16 Q The bottom of the display shows the  
17 original well cost of \$565,408?

18 A Correct.

19 Q What's the source of that information?

20 A The source of that information was the  
21 order that was entered in 1986 for the original pooling for  
22 the Johnson Federal Well.

23 Q And the \$826,000 number is simply a 12  
24 percent annual escalation of the original cost of the well?

25 A That's correct. If we were to receive

1 an order that would propose that we pay a basis that was  
2 equal to this amount, which -- and this was taken from the  
3 Loddy order again, the 12 percent annual interest rate, we  
4 would be expected to pay our share or the half of the  
5 \$826,000. You see there on the righthand side what kind of  
6 discounted cash flow we would see and you can see there's  
7 clearly no way that that type of investment would be econ-  
8 omic for the east half owners for the remaining reserves  
9 from the well.

10 Q Turn now to Exhibit Number Thirty-one,  
11 Mr. Dillon.

12 What is your proposed basis for partici-  
13 pation in the well?

14 A Our basis would be that, one, we'd have  
15 an effective date of July 12th, which we had asked for.

16 The pooling cost would be shared propor-  
17 tionately according to their interest amongst the east half  
18 working interest owners again in the unpooled area. These  
19 would be paid to the west half owners proportionately ac-  
20 cording to their interest in the -- in the existing pool.

21 Our proposal is, as taken from the pre-  
22 vious page, a pooling cost of -- for the east half owners  
23 of \$36,000, which would allow us a reasonable rate of re-  
24 turn of 15 percent. It would be also based on the current  
25 cash flow of existing wells, certainly would be an influx

1 of money for the existing owners.

2           The income distribution upon pooling  
3 would be shared proportionately, of course, amongst the  
4 owners in the entire pool. Of course, for those that  
5 consented, royalty owners on both sides again would share  
6 proportionately according to their interest. We're pro-  
7 posing a nonconsent penalty for those who do not join in  
8 the pooling of 200 percent and again we'd like to point out  
9 that, one, the east half owners show only future produc-  
10 tion. We're not asking for a retroactive order. We don't  
11 propose to ask for any compensation for the reserves that  
12 have been produced and at the same time we -- the east  
13 owners, (unclear) owners, are still at risk in that this  
14 analysis is subject to, you know, the different conditions  
15 of the reservoir and we certainly don't have any guarantee  
16 that we would receive 15 percent or any, any rate of return  
17 that the well could become economic in the next month.

18           And by the same token we aren't asking  
19 for any guarantees. We're simply asking for a fair and  
20 equitable rate to join in the existing well.

21           Q           Have you also studied the other wells  
22 that have been subject to pooling orders in the Gavilan  
23 Mancos where existing wells were involved?

24           A           Yes, I have.

25           Q           And is that the information that's shown

1 behind Exhibit F?

2 A That's correct.

3 Q All right. Let's go to the orientation  
4 display which is Exhibit Thirty-two and have you identify  
5 for us the other pooling cases that you have studied.

6 A Yes. There have been four orders enter-  
7 ed for the cases in which wells have been pooled from some  
8 acreage to a larger acreage spacing basis. Three of those  
9 have been 640s. One, as we've discussed before has been  
10 the Johnson Federal Well in question, where it went from 40  
11 to 320 acres.

12 The other 640-acre proration units are  
13 shown by the northeast-southwest dashed lines within the  
14 sections.

15 We have the Amoco Seifert Gas Com No. 1  
16 in Section 22 of 26 North; the ORYX Wildfire Well in Sec-  
17 tion 26, that same township; and the ORYX Loddy No. 1,  
18 which is in Section 20, Township 25 North.

19 Q All right, sir, have you summarized some  
20 of the basic terms of those various orders?

21 A Yes, I have.

22 Q That's Exhibit Number Thirty-three?

23 A That's correct.

24 Q And what do you find when you look at  
25 those various orders?

1           A           Exhibit Thirty-three shows when you look  
2 at the basis for pooling costs and nonconsent, that there  
3 had not been a real consistent basis that had been provided  
4 by previous orders.

5                       We have shown here on this table the  
6 well, the date of the order, the basis for pooling.

7                       There's data for the Loddy No. 1. The  
8 basis there was 100 percent of the total well cost plus an  
9 interest rate applied to that between the date that the  
10 well was drilled and the date of the pooling order.

11                      The Seifert Gas Com No. 1 was based on  
12 125 percent of actual drilling cost. It was based on what  
13 was a turnkey type of operation from a drilling company and  
14 it was not related to (not clearly understood) either.

15                      The Wildfire No. 1 was based on 100 per-  
16 cent of actual total well cost with no other monies invol-  
17 ved at all.

18                      The Johnson Federal 12-5, back in 1986,  
19 again was 100 percent of actual well cost.

20                      The case in question again is not unique  
21 in that the Wildfire and the Seifert cases again involved  
22 leases that within a relatively short time after the date  
23 of the hearing expiring and were simply ways of putting the  
24 tracts into production that otherwise probably would not be  
25 able to get into production in the Mancos Pool.

1           Q           Excuse me, which ones were other cases  
2 that were generated because of short term leases?

3           A           That would be the Seifert Gas Com No. 1  
4 and the Wildfire No. 1.

5           Q           Do you have an opinion, Mr. Dillon, as  
6 to whether or not the Examiner ought to adopt as a parti-  
7 cipation formula a sharing of the actual total costs on the  
8 Johnson Federal 12-5 Well for the east half owners now?

9           A           Yes, I do.

10          Q           And what is that opinion?

11          A           Based on the (unclear) of these four  
12 previous pooling, which were all entered and were all ac-  
13 complished early in the life of the wells, within a time  
14 when the wells were still in a clearly economic state, the  
15 -- what was appropriate at that point was some basis of the  
16 pooling cost that was relative to the actual drilling  
17 costs.

18                   The Johnson Federal at this point is  
19 somewhat an exception to that in that we're nowhere near  
20 the initial date of completion. There is no question that  
21 the remaining reserves are certainly not sufficient to pay  
22 out what would be the well cost should we redrill the well  
23 at this point in time.

24                   So that at this point in order for a  
25 fair basis to be established, the participation would be --

1 have to be done on some other basis, which I believe would  
2 have to be related to the remaining reserves from the well.

3 Q Let's turn to your production history on  
4 the Loddy No. Well, Well No. 1, Exhibit Thirty-four.

5 A Yes.

6 Q At what point in the producing life did  
7 the Division enter a pooling order as you've described?

8 A The Loddy No. 1 had been producing for a  
9 little over a year at the point that a pooling order was  
10 issued there. You can see that annotated at the bottom of  
11 the graph. Again we have oil, gas and GOR plotted here.

12 We can see that the well was consistent  
13 in production and in trend actually was stable, if not  
14 somewhat trending upward in terms of production. The  
15 fluctuation was due primarily to various allowables that  
16 were stated as we -- as we know in the pool over the last  
17 few years.

18 In general it shows that the well was  
19 certainly still economic and still certainly capable of  
20 producing a substantial number of reserves at the time that  
21 the pooling was initiated.

22 Q Let me make sure I understand. At the  
23 time of the pooling initiation the -- what's the general  
24 range of the cost of these wells that we're dealing with in  
25 the Gavilan?

1           A           The, as we can see, the Johnson Federal  
2 was on the order of \$565,000. Our most recent estimates  
3 are on the order of \$750,000. Wells have been drilled for  
4 everything in between those two numbers. An average num-  
5 ber might be somewhere on the order of \$650-to-700,000.

6           Q           In reviewing the information from the  
7 Loddy order and identifying the decision date in relation  
8 to its producing date, was there anyone, or can you con-  
9 tend, based upon this data, could anyone contend that the  
10 remaining future reserves for the well were going to be  
11 insufficient to pay for the cost of contributing 50 per-  
12 cent of the cost of the Loddy well?

13           A           I don't believe so.

14           Q           Correspondingly, then, the remaining re-  
15 serves should have been sufficient at that point that the  
16 order was entered, to pay for the cost of contributing 50  
17 percent of the well by those owners that had not yet par-  
18 ticipated.

19           A           Yes.

20           Q           When we look at Exhibit Number  
21 Thirty-five what do we see?

22           A           On Exhibit Thirty-five we see the same  
23 type of plot for the Seifert Gas Com No. 1. Again the date  
24 of the pooling order was in late April of '88. At that  
25 point the well was -- had not established a trend. It was

1 producing on the order of 30 barrels of oil per day, around  
2 150 MCF per day.

3                   Again it was clearly economic at that  
4 point and based on surrounding history certainly was in all  
5 probability capable of paying out and there would not be  
6 any basis for saying that it was clear that the well would  
7 not pay out and that there was no basis for tying the  
8 pooling cost to the original well cost of the well.

9                   Q           I believe you've shown us in a prior  
10 display that the Seifert solution was for the undrilled or  
11 undeveloped 320 to pay 125 percent of the actual cost of  
12 the well for participation in the well?

13                   A           That's correct.

14                   Q           And that, and the Seifert interest own-  
15 ers in the undeveloped tract participated from the date of  
16 first production, did they not?

17                   A           I believe there's a question as to when  
18 that date was, but, yes, that's -- that's what the order  
19 established, I believe.

20                   Q           And again with the Seifert Well based  
21 upon the production history at the time of the order,  
22 there's no question that the data showed that the remaining  
23 reserves would pay for the cost of buying your way into the  
24 well at 50 percent of the actual cost?

25                   A           Yes. There was -- that interpretation

1 certainly is -- can be made, yes.

2 Q Let's go to the Wildfire Well, Mr.  
3 Dillon. That's Exhibit Number Thirty-six. What did you  
4 find when you examined the Wildfire Well?

5 A At the time that the Wildfire Well was  
6 pooled there was no significant trend in production data  
7 due to a number of complicating factors, gas line hook-up,  
8 marketing, and such. There was -- there was not a signi-  
9 ficant amount of production prior to the time that the  
10 pooling was performed. There were early tests that indi-  
11 cated that the well was a -- certainly is a very capable  
12 well, somewhat high in GOR, but yet the total revenue from  
13 the well certainly would be -- make it an economic venture.  
14 Again the decision there would be it would require some  
15 engineering and economic judgment, but it certainly wasn't  
16 an obvious case where the well was going to be uneconomic.

17 Q All right, sir, and Exhibit Thirty-  
18 seven?

19 A Exhibit Thirty-seven is the -- again the  
20 Johnson Federal Well. As we see back in 1986 when that  
21 well was pooled initially, it's initial production from the  
22 first part of 1986 was on the order of 90 to 100 barrels of  
23 oil per day. You can see with that type of an initial per-  
24 formance that that certainly is going to be a well that  
25 you would expect at that point in time and based on indivi-

1 dual engineering judgment, you would assume that it would  
2 easily pay out any portion of the original well cost.

3 Q Turn to Exhibit Number Thirty-eight and  
4 have you detail for us your conclusions again.

5 A Again conclusions from study of previous  
6 pooling shows that once again consistently all these were  
7 done early in the producing life of the existing wells at a  
8 point when the wells were clearly economic and producing at  
9 rates that certainly would give you some comfort in the  
10 fact that they would compensate you for your pooling cost  
11 if it were tied to the original well cost, and it appears,  
12 it shows that looking at the previous order, that compen-  
13 sation of original owners of a pooled well included some  
14 consideration of the potential future recovery from the  
15 well. There was never any question brought up that all the  
16 wells would be economic in any of the orders or findings  
17 that I can find. When a well is pooled early in its life,  
18 of course, a pooling cost near the actual well cost, may be  
19 appropriate and probably is appropriate, and there's no --  
20 certainly no reason that a -- some compensation shouldn't  
21 be made for the risk that was taken at that point in a  
22 well's life but, however, based on an expected return for  
23 the pooling cost of a well relatively late in its life, I  
24 believe should be downward, be adjusted according to -- to  
25 what we expect it to produce in the future.



1 fair, we believe, to those now joining in the proration  
2 unit without creating additional burdens for those who are  
3 already interest owners in the well or reducing their  
4 value.

5 We have come to this conclusion and  
6 pursued this avenue based primarily on the suggestion of  
7 the -- of the Commission at the previous hearing, that some  
8 basis other than the well cost might be appropriate, and  
9 that's why we're here today and that's why we have this  
10 recommendation.

11 MR. KELLAHIN: Mr. Examiner,  
12 that concludes my examination of Mr. Dillon.

13 We would move the introduction  
14 of his Exhibits Eleven through Thirty-nine.

15 MR. STOGNER: Are there any  
16 objections?

17 Exhibits Eleven through  
18 Thirty-nine will be admitted into evidence at this time.

19 Mr. Pearce, your witness.

20 MR. PEARCE: Thank you, Mr.  
21 Examiner.

22

23

#### CROSS EXAMINATION

24 BY MR. PEARCE:

25

Q Mr. Dillon, just a few questions. I am

1 unclear. There was a June 8th letter from ORYX to other  
2 working interest owners that we discussed with the pre-  
3 vious witness. Are you familiar with that?

4 A Yes.

5 Q That letter made a reference to paying  
6 your -- the costs assessed against ORYX if they are pooled  
7 into this well out of production from the well. Do you  
8 recall that?

9 A Specifically that option, I -- I really  
10 don't recall. No, I have to admit that. I've got  
11 (unclear) in front of me here.

12 Q Okay. If you would turn to the third  
13 page of the letter which is Exhibit Number Eight that we  
14 discussed earlier.

15 A Yes.

16 Q It says that they shall have the option  
17 to either pay the \$40,000 or recoup it out of production.  
18 About four lines from the bottom of that paragraph, do you  
19 see that sentence I'm talking about?

20 A Okay, yes.

21 Q Has ORYX made a decision, if it gets the  
22 order it seeks in this case, whether or not it would pay  
23 those -- what you now propose, \$36,300 participation costs,  
24 whether you would pay that or pay that out of production?

25 A That approval has not been obtained from

1 management. It would be my recommendation to them, and I  
2 would anticipate that that would occur; however, I cannot  
3 guarantee what -- what our management would approve, but  
4 that is what I would recommend, yes.

5 Q Okay, and if I understand correctly, the  
6 payment of that sum in your best engineering judgment would  
7 result in a 15 percent return, is that correct?

8 A That's correct.

9 Q Okay. We talked about a couple of other  
10 wells. If we can look at them one at a time and we may  
11 need to do some flipping back and forth.

12 Let's look first at the Seifert Well.  
13 Do you recall who operates the Seifert Well?

14 A That's operated by Amoco.

15 Q And someone pooled into that well, as I  
16 understand it?

17 A That's correct.

18 Q And who was that?

19 A I believe that was initiated by Dugan  
20 Production.

21 Q And by the terms of your exhibit which  
22 summarized those previous orders, and if you could help me  
23 with an exhibit number, I do not remember it.

24 A The summary? That would be behind Tab  
25 F, about the second page.

1           Q           Thank you. Under the provisions of the  
2 Seifert order, which is located behind Tab G, the party who  
3 pooled into that well was to pay Amoco 125 percent of the  
4 actual costs of drilling and 100 percent of surface equip-  
5 ment cost, is that right?

6           A           That's correct.

7           Q           Do you know if those payments were made  
8 or if those parties are going nonconsent in that well?

9           A           The Seifert, I do not know the results  
10 of that.

11          Q           Do you know whether or not the Seifert  
12 Well has paid out?

13          A           I would anticipate based on its life  
14 that it probably has not, but I do not know that for a  
15 fact.

16          Q           Do you know whether or not the Seifert  
17 Well will pay out during the course of its life?

18          A           I have not made an analysis of -- of the  
19 future production from that well, no.

20          Q           Do you know what the current production  
21 rates from the Seifert Well are?

22          A           According to the information which I  
23 have, which would be the plot that would -- that I have  
24 included as Exhibit Number Thirty-five, that shows that the  
25 current oil rate from the well is -- has been fluctuating.

1 The latest one that I have is approximately 18 barrels of  
2 oil per day, producing about 180 MCF per day.

3 And that would -- based on the past  
4 performance, it would -- it would be difficult to determine  
5 it. It's certainly possible that the well could pay out.  
6 I would be certainly speculating if I were to hazard a  
7 guess as to whether or not that well will pay out.

8 Q I assume from the way you answered that  
9 question that you don't think the Seifert Well is going to  
10 make anybody rich.

11 A It's not an obvious decision, no.

12 Q Let's look at the Wildfire Well, please.  
13 Could you tell me who operates the Wildfire Well?

14 A That's operated by ORYX.

15 Q And someone pooled into the Wildfire  
16 Well?

17 A That's correct.

18 Q And who was that?

19 A That was Hixon.

20 Q And the terms of that pooling, looking  
21 back to our summary again?

22 A That was 100 percent of the actual cost.

23 Q Has the Wildfire Well paid out?

24 A No, it has not.

25 Q Do you expect it to?

1           A           Based on the amount of data that we  
2 have, again it's certainly possible that that well could  
3 pay out. I do not have those figures. I have not made  
4 that analysis for these purposes.

5                        Again, it's very possible based on its  
6 gas rate. It's a fairly high GOR well. It's not a proli-  
7 fic oil well; however, it certainly would generate a con-  
8 siderable amount of revenue.

9           Q           And, I'm sorry, who pooled into that  
10 well? I've forgotten.

11           A           The Wildfire, it was Hixon.

12           Q           And did Hixon pay that 100 percent of  
13 cost or are they going nonconsent?

14           A           I believe in that case their option, to  
15 the best of my recollection, is to go nonconsent.

16           Q           The Loddy Well was pooled 100 percent of  
17 total cost plus the interest from drilling pooling?

18           A           That's correct.

19           Q           Who pooled into that well?

20           A           That was a unit, an ORYX operated well,  
21 and it was pooled into by Mesa Grande.

22           Q           And did Mesa Grande pay their portion of  
23 well costs or are they going nonconsent?

24           A           I believe their option is to go noncon-  
25 sent.

1           Q           Do you believe the Loddy Well will pay  
2 out? Or has it? I apologize, I've assumed something. Has  
3 the Loddy Well paid out?

4           A           From initial production I cannot say  
5 whether or not it's paid out. It certainly, if it hasn't,  
6 it probably is close. I believe it will and I believe it  
7 will probably pay out again from the date of the order.

8           Q           Look, please, with me at your Exhibit  
9 Number Thirty-nine. Looking at the last conclusion stated  
10 there, the pooling basis can be made fair for those now  
11 joining in the proration unit without creating additional  
12 burden or reducing value to the current working interest  
13 owners.

14                        Could you describe for me what you be-  
15 lieve the value to the current working interest owners is?

16           A           Their value certainly is what revenue  
17 they would obtain from future production from the well.

18                        If it were pooled, obviously part of  
19 that value would be the compensation they would receive  
20 from the east half owners. That compensation they would  
21 receive would be current value, money, cash that they would  
22 put into the bank at his point. Any future production  
23 would be subject to discounting in terms of bringing it to  
24 present value and would subject to, of course, any risks in  
25 obtaining those additional reserves.

1           Q           What is the value to the current working  
2 interest owners if the east half is not pooled with the  
3 west half?

4           A           According to my cash flow calculation  
5 that would be for 100 percent basis, approximately \$84,000.

6           Q           That \$84,000 consists of pooling into  
7 the west half.

8           A           No, that's the simply the undiscounted  
9 cash flow that the west half owners would see from this  
10 point forward from the well.

11          Q           If the east half is not pooled with the  
12 west half, what is the value to the current working inter-  
13 est owners of the east half?

14          A           If I understand what you're saying, if  
15 it's not pooled?

16          Q           Yes.

17          A           The -- I'll say there is no value if  
18 there is no compensation to the east half owners.

19          Q           And one of the analyses you did was the  
20 amount that would be lost if the east half were drilled  
21 separately, and that was between \$190 and, I believe,  
22 \$560,000, is that correct?

23          A           Yes, I believe that is correct.

24          Q           Mr. Dillon, when you began your testi-  
25 mony a little while ago, you had some -- some comments

1 about what the purpose of your study was, as I recall.

2                   What -- what was the purpose of your  
3 study that you've been discussing with us?

4                   A           As part of the continuing effort to put  
5 the east half into production was to look at all options  
6 that we might have. We've explored those on some previous  
7 occasions, and, as we say, we're down to two. The final  
8 objective, as we've seen in the majority of the study as we  
9 see it here today, was to determine what kind of a value  
10 basically that we believe the east half owners could pay  
11 and expect to participate in the pooling and the additional  
12 production we expect from the Johnson Federal 12-5.

13                  Q           The object was to analyze the best way  
14 to get the east half of Section 12 on production.

15                  A           Yes.

16                  Q           Is that accurate?

17                  A           That's accurate.

18                  Q           And you just indicated that the current  
19 value of the east half standing alone is a negative number  
20 ranging from 197 to \$560,000. Is that correct?

21                  A           Correct.

22                  Q           And your proposal summarizing your study  
23 would in your best engineering judgment provide to ORYX a  
24 15 percent return on its proposed investment in a well on a  
25 640-acre spacing unit.

1           A           Yes.

2           Q           I have a feeling that at another hearing  
3 you've answered this question for me or someone else did,  
4 and I apologize, I don't remember the answer.

5                        In the lease that you hold of this acre-  
6 age that's due to expire on July 31st, 1989, is there any  
7 other acreage covered by that lease or is that just a  
8 quarter section of acreage?

9           A           That is just a quarter section of acre-  
10 age, to my knowledge.

11          Q           Looking at the summary behind Tab F that  
12 we've discussed a couple of times for other pooling cases  
13 that have been heard, you're proposing participation in  
14 this well on payment of \$36,300. What kind of percentage  
15 number of total well costs would that result in compared to  
16 the 100 and 125 and the 100 and 100 numbers on that  
17 summary? Isn't that the order you wanted and summarized it  
18 in this form?

19          A           Uh-huh.

20          Q           What would that summary say?

21          A           Relative to total well costs, of course,  
22 it would be the -- simply the 36,000, whatever, divided by  
23 the original well cost, being \$565 - \$566,000, approximate-  
24 ly. It's going to be less than 10 percent of the -- I'm  
25 not sure exactly, 7 or 8 percent, probably, of original

1 well cost.

2 Q I think for -- for clarification looking  
3 at the 100 percent, 125 percent figure set forth on Exhibit  
4 Thirty-three, I think you would find that those are for  
5 full wells, so in this case the numerator, I think, would  
6 be 72 rather than -- 72-6 rather than 565, but roughly that  
7 sounds like it's 13, 14 percent, and I haven't figured it  
8 out, but it's 72,000 over 565,000, so we would have a  
9 string of pooling orders which provide for 100 percent and  
10 125 percent and 100 percent and 100 percent and 13 percent.

11 MR. PEARCE: I don't think I  
12 have any questions. Thank you, sir.

13 MR. STOGNER: Mr. Pearce. Mr.  
14 Lopez, your witness.

15

16 CROSS EXAMINATION

17 BY MR. LOPEZ:

18 Q Mr. Dillon, in general, when ORYX  
19 drilled the well to recover anticipated reserves underlying  
20 (unclear) I believe ORYX would expect to recover its well  
21 cost plus how much rate of return would, 3-to-1, 2-to-1,  
22 what in general does ORYX hope to recover when it takes on  
23 the risk of drilling a well?

24 A There are a number of economic indica-  
25 tors that are looked at. It's usually not one single indi-

1 cator. Certainly something on the order of what you've  
2 just stated would be something that we would expect to find  
3 here.

4 Q I'd like you to refer to your Exhibit  
5 Number Twenty-nine and where you're estimating the current  
6 remaining value of the Johnson Federal Well, and you ar-  
7 rived at the net revenue cash flow of 83.73 thousand. This  
8 figure doesn't provide any value or compensate the opera-  
9 tor of the well for any of his drilling (unclear)?

10 A No, it does not.

11 Q Nor does it include the salvage value of  
12 the equipment that might be sold after (not clearly  
13 audible).

14 A No, that's correct. The assumption is  
15 made that any salvage value would be simply equal to what-  
16 ever costs are involved in actually salvaging that equip-  
17 ment so that that would be a net zero negative and no cash  
18 flow at that time.

19 MR. LOPEZ: No further ques-  
20 tions.

21 MR. STOGNER: Mr. Kellahin,  
22 any redirect?

23 MR. KELLAHIN: No, sir.

24

25

## CROSS EXAMINATION

1  
2 BY MR. STOGNER:

3 Q I want to clarify one thing that I'm  
4 still a little fuzzy about. Where did you come up with  
5 36.3? I want to make sure I have exactly where I can put  
6 my finger on that figure, and, let's see, the way I inter-  
7 pret that in your letter of June 8th is half of the cur-  
8 rent net present value of the subject well, is that cor-  
9 rect?

10 A Yes.

11 Q And where do I find that present value  
12 at?

13 A That present value is on the exhibit we  
14 were just talking about, Exhibit Number Twenty-nine.

15 Q Okay.

16 A And at this point our -- we've refined  
17 to just a very small degree since that letter that number.  
18 We're looking on the order of \$84,000 a day in undiscounted  
19 net cash flow rate, net revenue for that well.

20 Q So it's half of 83.73?

21 A Well, the -- now, that's again undis-  
22 counted. In order to come up with the number we assumed  
23 that in order to simply more than just pay out the well,  
24 rather than simply obtain, you know, our last dollar of  
25 revenue at the same time that would simply compensate our

1 last dollar of cost in getting the well, Sun sort of re-  
2 turned with the same by ORYX, and that is shown on the next  
3 exhibit, Number Thirty, where if you look, you know, both  
4 the middle set of discount rates, a 5 percent discount rate  
5 on that \$83.7 thousand would be \$80,000.

6 If we go down to the 15 percent number  
7 that we've proposed, we've proposed that half of that --  
8 again, this 84,000 or the 73,000, which is discounted, is  
9 for 100 percent of the well as it exists today.

10 When -- once it goes from the 320 to the  
11 640, the east half would be essentially involved in one-  
12 half of that well, so we would take half of that number, so  
13 that's where we come up with the 36,000-odd number.

14 MR. STOGNER: Any other ques-  
15 tions of this witness?

16 If not, he may be excused.

17 Let's take about a 15 minute  
18 recess.

19  
20 (Thereupon a recess was taken.)

21  
22 MR. STOGNER: The hearing will  
23 come to order.

24 Mr. Pearce?

25 MR. PEARCE: Thank you, Mr.

1 Examiner.

2 If I may, I would like to call  
3 Mr. Joe Cox to the stand, please.

4

5

JOE COX,

6 being called as a witness and being duly sworn upon his  
7 oath, testified as follows, to-wit:

8

9

DIRECT EXAMINATION

10 BY MR. PEARCE:

11 Q Mr. Cox, for the record would you please  
12 state your name and your employer?

13 A Joe Cox. I'm employed by Mallon Oil  
14 Company as Production Manager.

15 Q Mr. Cox, have you testified before the  
16 New Mexico Oil Conservation Division or one of its hearing  
17 examiners previously?

18 A Yes, I have.

19 Q And were your credentials at that time  
20 accepted as an expert in the field of petroleum engi-  
21 neering?

22 A They were.

23 Q And are you familiar with the case being  
24 heard by the Examiner today?

25 A Yes, I am.

1           Q           And have you conducted a study, the  
2 results of which you propose to present at this hearing?

3           A           Yes, I do.

4           Q           All right.

5                           MR. PEARCE: At this time, Mr.  
6 Examiner, I tender Mr. Cox as an expert in the field of  
7 petroleum engineering.

8                           MR. STOGNER: Is there any ob-  
9 jection?

10                          MR. KELLAHIN: No objection.

11                          MR. STOGNER: Mr. Cox is so  
12 qualified.

13           Q           All right. At this time, sir, I'd ask  
14 you to refer to what we've marked as Mallon Exhibit Number  
15 One and would you please describe that for the examiner and  
16 those in attendance?

17           A           Okay. This is an AFE recap, a summary  
18 of all the costs in the drilling and completion phase of  
19 the Johnson Federal 12-5 Well.

20           Q           Were you in the hearing room this morn-  
21 ing when the first part of this case was heard?

22           A           Yes, I was.

23           Q           And you heard the testimony that a cost  
24 figure for the Johnson 12-5 Well had been derived from the  
25 previous order, is that correct?

1           A           Yes, I heard that.

2           Q           Do you recall what that number was?

3           A           Roughly \$565,800 and some.

4           Q           And \$40.00.

5           A           \$40.00.

6           Q           And I'm taking that from Exhibit Number  
7 Thirty previously admitted into evidence.

8                       I would ask you, sir, to turn to the  
9 second page of your Exhibit Number One. There is a figure  
10 shown at the bottom of those columns, far lefthand column,  
11 of \$566,971. Do you see that number, sir?

12          A           Yes.

13          Q           Is that the most recent accounting sum-  
14 mary which relates to the \$565,000 number we talked about  
15 before?

16          A           Yes. This is from a June 28th account-  
17 ing statement on those costs.

18          Q           So about \$1100 has been added to the  
19 drilling and completion accounting for this well since the  
20 time of that hearing?

21          A           Correct.

22          Q           And to the best of your knowledge the  
23 566,971 is the -- is presently the most accurate accounting  
24 number available?

25          A           Yes.

1           Q           Mr. Cox, have you reviewed the produc-  
2           tion history and economics of the Johnson 12-5 Well prior  
3           to coming to this hearing?

4           A           Yes, not in any great detail or evalu-  
5           ationwise, but I've reviewed the history and know the cur-  
6           rent production status and everything.

7           Q           Has the 12-5 Well paid out yet?

8           A           No, it has not.

9           Q           What is the current sum due to be paid  
10          before payout is reached on this well?

11          A           It still has \$348,020 remaining to pay-  
12          out.

13          Q           And, under current operating conditions,  
14          Mr. Cox, is the Johnson 12-5 Well ever going to pay out?

15          A           Not under present circumstances, I don't  
16          foresee that.

17          Q           I assume, therefore, that Mallon as the  
18          party who spent the money to drill this well and bore the  
19          risk, is not going to get 15 percent, is that accurate?

20          A           That's the prospect facing Mallon and  
21          its partners.

22          Q           Mr. Cox, during testimony of Ms. Staley  
23          earlier in the morning, she made reference to a letter and  
24          we discussed a letter which she had received from Mallon  
25          Oil Company in response to the request for the pooling. Do

1 you recall that discussion?

2 A Yes.

3 MR. PEARCE: That is, Mr. Exa-  
4 miner, the first letter shown in Exhibit Number Nine to the  
5 previous -- to Ms., I'm sorry, to Ms. Staley's testimony.

6 I have just handed a copy of  
7 that letter to the witness.

8 Q I would ask you, Mr. Cox, to turn to the  
9 second page of that letter. The last paragraph indicates  
10 that Mallon at that time was willing to agree to ORYX' par-  
11 ticipation in this well on terms similar to those which  
12 Mesa Grande received in the Loddy pooling case. Do you see  
13 that?

14 A Yes.

15 Q And is that still Mallon's position,  
16 that that is an appropriate order to be entered in this  
17 case?

18 A Yes, that would be agreeable to us with  
19 some returns.

20 MR. PEARCE: I don't think  
21 I've got anything further, Mr. Examiner. Thank you.

22 MR. STOGNER: Thank you, Mr.  
23 Pearce.

24 Mr. Kellahin?

25 MR. KELLAHIN: Thank you, Mr.

1 Examiner.

2

3

CROSS EXAMINATION

4

BY MR. KELLAHIN:

5

6

7

8

Q Mr. Cox, did you participate in any way on behalf of your company in the hearing on the Johnson Federal 12-5 Well that resulted in the pooling of the Mesa Grande interest?

9

10

A No, I was not directly involved with that.

11

12

Q Were you employed at that time with Mallon Oil Company?

13

14

A I was employed but I was involved with other areas operations then.

15

16

17

Q Did you bring with you your economics to show the status of payout? You said you reviewed some data. Did you bring those with you?

18

19

A I have another Accounting Department statement that shows that.

20

21

There are some additional copies (unclear).

22

23

24

Q You were here in the hearing room when Mr. Dillon testified about his study of the well and the specific area involved, were you not, sir?

25

A I was.

1           Q           Do you have any available data to you  
2 that would give you a contrary conclusion from Mr. Dillon's  
3 about the drilling of a well in the east half of 12?

4           A           No, I would not dispute his conclusions  
5 about the noncommerciality of drilling a well in the east  
6 half.

7           Q           You concur, then, that the -- a well in  
8 the east half of 12 for the Gavilan Mancos would in fact be  
9 an unnecessary well?

10          A           Yes, without having studied it, I would.

11          Q           Do you have any disagreement with Mr.  
12 Dillon's reserve calculations using his methodology to show  
13 the remaining producible reserves for the Johnson Federal  
14 12-5 Well?

15          A           There are a few concerns that I have  
16 had, one being the fact that no consideration was given for  
17 the mechanical status of the well with -- for the producing  
18 months that the initial producing rate was established  
19 from and the well's been affected by gas plant shut-ins and  
20 by changing of lift systems and at present we don't have  
21 any lift system on the well. We're in between running rods  
22 back in the well and a plunger lift.

23          Q           Have you done an economic analysis --  
24 I'm sorry, a reserve analysis to determine what are the re-  
25 maining reserves for the Johnson Federal 12-5 Well?

1           A           I really haven't done a formal analysis  
2 of that current completion.

3           Q           Has anyone in Mallon Oil Company done  
4 that?

5           A           There have been a number of economics  
6 run on various Mallon properties recently and I'm sure that  
7 there has been, but I did not bring one with me.

8           Q           Do you know what Mallon is utilizing for  
9 your remaining reserves for the Johnson Federal 12-5 Well?

10          A           I do not, no.

11          Q           I'm trying to understand the basis upon  
12 which you told Mr. Pearce that you doubt that the well  
13 would pay out and that was my only purpose in the question,  
14 is to see to what extent you'd attempted to quantify the  
15 degree of payout you might achieve in the well.

16          A           Well, just with the -- with the reserves  
17 recovered so far being recovered at so much higher rate, so  
18 much further above the economic limit, and still having a  
19 fairly large amount of money left to recover to pay out, it  
20 does not appear that we're going to be able to sustain  
21 production long enough to get the well paid out.

22          Q           Do you know or have you determined  
23 whether or not the parties that were pooled as a result of  
24 the first Johnson Federal order in fact exercised the  
25 election to participate in that well?

1           A           I do not know.

2           Q           Do you know what parties were in fact  
3 pooled by the Johnson Federal order that was entered to  
4 change this to 320 pool spacing?

5           A           Mesa Grande originated the action for  
6 pooling.

7           Q           All right. But do you know what parties  
8 were subject to the order?

9           A           Mallon, et al, original working interest  
10 in the well, and Mesa Grande.

11          Q           Let me show it to you. It's Order  
12 R-8262. It was entered August of '86. It's Mallon's ap-  
13 plication.

14                       Have you studied to determine whether or  
15 not Mesa Grande paid its share and participated then with  
16 Mallon in -- in the production from the Johnson Federal 12-  
17 5 Well?

18          A           No, I just very briefly got a look at  
19 that pooling procedure and I really don't recall whether  
20 they did or not.

21          Q           Is it your proposal that the current  
22 interest owners in the west half of 12 will in fact keep  
23 the past production from the well and not have to share  
24 that part production with the owners in the east half?

25          A           Yes, I think that would be a reasonable

1 way of proceeding on this well, just looking at the pro-  
2 duction figures versus the date of the change to 640-acre  
3 spacing in the pool. About 95 percent of the production  
4 occurred prior to that date.

5 Q You propose not to allow the east half  
6 owners to participate in past production but your proposal  
7 is that they ought to pay 50 percent of the actual costs of  
8 the well as originally drilled?

9 A Yeah, I would feel like the precedent  
10 that has been set by previous poolings should be followed  
11 in this for consistency purposes.

12 Q Is there any other basis for your opin-  
13 ion that that is fair other than it's simply consistent?

14 A Just that any future unrealized poten-  
15 tial, unevaluated potential, from the well would not be  
16 covered and the partners that have put their money at risk  
17 would be giving away a good deal should that occur.

18 Q Have you attempted to evaluate what this  
19 property is worth now, meaning the west half of Section 12?

20 A I've done a rough calculation, just to  
21 see where my calculation stands compared to ORYX's. I come  
22 up with a figure that's not too far, within 50 percent of  
23 their figure.

24 Q What figure do you come up with, Mr.  
25 Cox?

1           A           About \$125,000 but that again is a very  
2 rough calculation.

3           Q           What's the basis for a difference be-  
4 tween you and Mr. Dillon on how you got your number?

5           A           Probably initial production rate and  
6 then the fact that his gas/oil ratio shows a decrease with  
7 time and in reality I held mine constant, but up till the  
8 present it has been continually increasing.

9           Q           Mr. Dillon's economics were based upon  
10 remaining oil reserves of about 1500 barrels of oil, I  
11 believe.

12                           What did you use?

13           A           Again, in this rough calculation, this  
14 was not a formal computer evaluation run, but I think it  
15 was about 2800 barrels. And again, that is at the present  
16 mode of operation of the well without any changes or work  
17 done on it.

18           Q           Have you determined what level of con-  
19 tribution the east half owners would have to pay the west  
20 half owners in order to have a break even investment for  
21 the remaining future production on the well?

22           A           Well, not having a number that I'm very  
23 comfortable with as far as an evaluation for the reserves  
24 under the present producing situation, it would be some-  
25 where around this figure that I threw out, the 124,000,

1 plus -- their share of that, plus the balance to pay out,  
2 plus a reasonable amount for a risk factor on their money.

3 Q The actual cost on the well is on your  
4 exhibit, the 566,971, right?

5 A That's correct.

6 Q And so you're proposing that the east  
7 half owners pay something in excess of \$283,000 to share in  
8 their share of the 2800 barrels of oil and other hydrocar-  
9 bons that are yet to be produced from the well.

10 A Yes, it would be in excess of that, yes.

11 Q If you were in their position would you  
12 make that payment to participate in the remaining reserves?

13 A I don't know exactly what they have in  
14 mind so I really can't make a judgment for them, but I  
15 probably would not elect -- I would probably not consent to  
16 that.

17 Q Yeah, you wouldn't write your check and  
18 participate on a pooling order, would you?

19 A No.

20 Q Would you do it for \$200,000?

21 A I doubt it.

22 Q 150,000?

23 A You're asking me personally.

24 Q I'm asking you as a recognized expert  
25 that's qualified before the Commission as an engineer --

1           A           No, I --

2           Q           -- and testifying about this particular  
3 well of which you have personal knowledge.

4           A           I would not.

5           Q           How about 100,000?

6           A           I may at 100,000, yeah. That again is  
7 without any consideration that any production beyond what's  
8 (not clearly understood) production history of the well,  
9 without any further knowledge.

10                           MR. KELLAHIN: No further  
11 questions.

12                           MR. STOGNER: Any redirect?

13                           MR. PEARCE: A couple more,  
14 Mr. Examiner, if I may.

15

16                           REDIRECT EXAMINATION

17 BY MR. PEARCE:

18           Q           Mr. Cox, you went through some analysis  
19 with Mr. Kellahin about the payments to get into this well.

20                           If an order consistent with orders pre-  
21 viously entered results from this case and the cost to  
22 participate is \$286,000 or whatever the number is, will the  
23 royalty owners under the east half begin receiving royalty  
24 immediately?

25           A           Yes, that's the way the other orders

1 have been issued.

2 Q And do you understand that the lease  
3 would be held if that were done?

4 A Yes.

5 Q Mr. Kellahin asked you a question about  
6 what payments would be necessary to break even to allow a  
7 party to participate in this well in the future. What's 50  
8 percent of the cost of this well ignoring its operating  
9 expenses, looking at your Exhibit Number One? What's 50  
10 percent of that number?

11 A It would be \$283,500.

12 MR. PEARCE: Nothing further,  
13 Mr. Examiner.

14 One matter for clarification  
15 before we go further.

16 Mr. Examiner, we -- we put  
17 before the other parties in this room, but not before you,  
18 a summary of a recap of the payout statement on the Johnson  
19 12-5 Well. Would you like that made an exhibit to this  
20 proceeding?

21 MR. STOGNER: We might as  
22 well.

23 MR. PEARCE: All right. I  
24 will, if it's all right, I'll mark it as Mallon's Two, if  
25 that's acceptable. It is called a recap of payout state-

1 ment.

2 Nothing further, Mr. Examiner.

3 MR. STOGNER: I guess we  
4 should enter this at this time. Is there any objection?

5 MR. KELLAHIN: No objection,  
6 Mr. Examiner.

7 MR. STOGNER: Exhibit --  
8 Mallon Exhibit Number Two will be admitted into evidence at  
9 this time.

10 Mr. Kellahin?

11

12 RE-CROSS EXAMINATION

13 BY MR. KELLAHIN:

14 Q Mr. Cox, let me follow up with you on  
15 Mr. Pearce's question. Let me show you Ms. Staley's exhibit  
16 book which has Exhibit Three in it. I put in front of  
17 the witness, Mr. Examiner, Exhibit Three from the ORYX exhibit  
18 book.

19 Mr. Pearce asked you whether or not the  
20 royalty owners in the east half of the section would as a  
21 result of the pooling participate then in receiving royalties  
22 from future production and the answer was yes.

23 My question for you, sir, the royalty  
24 owners are the same for the east half and the west half,  
25 are they not? It's the Federal government, isn't it?

1           A           There are some overriding royalty owners  
2 that are different in the west half than from the east  
3 half.

4           Q           The royalty owners, apart from the over-  
5 riding royalty owners, the royalty owners are common,  
6 that's the same.

7           A           Yeah, to my understanding, yes.

8           Q           What are you using for your overhead  
9 rates for the well? Ms. Staley talked about three differ-  
10 ent JOA's, each of which had a slightly different overhead  
11 rate? If the Examiner enters a pooling order and utilizes  
12 a rate, what is the current rate?

13          A           The current rate that apparently comes  
14 out in the average of the monthly rates that you use, is  
15 \$389 per month, producing.

16                               MR. KELLAHIN: Thank you, Mr.  
17 Examiner.

18                               MR. STOGNER: Thank you, Mr.  
19 Kellahin.

20                               Is there any other questions  
21 of this witness?

22                               He may be excused.

23                               Are there any other witnesses  
24 to be called by either party?

25                               I believe we're ready for

1 closing statements if there's any to be made.

2 Mr. Lopez, I'll let you go  
3 first. Mr. Pearce, second, and Mr. Kellahin, you may go  
4 last.

5 MR. LOPEZ: Thank you, Mr.  
6 Chairman, Mr. Examiner.

7 I believe as I stated at the  
8 opening, Mesa Grande has no objection to the tract being  
9 pooled as a 640-acre tract. That's not at issue.

10 The issue is the basis on  
11 which ORYX should participate.

12 It is our position that since  
13 it is manifestly clear, even based on ORYX's own testimony  
14 and evidence that, as they calculate the value of the re-  
15 maining reserves in place to be \$83,730, that with the  
16 operator, Mallon, looking at \$348,000 to recoup it's in-  
17 vestment, to allow ORYX to come in on the basis that they  
18 have requested is just simply unfair.

19 They can elect to go noncon-  
20 sent, as most of the force pooled parties have in the other  
21 orders, and play the game that way, or they can allow the  
22 lease to lapse. They have other options rather than coming  
23 on a well that Mallon and Mesa Grande, who elected to par-  
24 ticipate, have paid significant sums of money which they  
25 never expect to recuperate; they will never to compensated

1 for the risk they undertook, and for ORYX to expect at this  
2 point in the game to come in and obtain a reasonable re-  
3 turn just doesn't make sense.

4 That's all I have to say.

5 MR. STOGNER: Thank you, Mr.

6 Lopez.

7 Mr. Pearce.

8 MR. PEARCE: Thank you, Mr.

9 Examiner.

10 I think it's an unusual pro-  
11 ceeding. Witnesses have testified that the value of the  
12 east half of Section 12 is somewhere between minus 200,000  
13 and minus \$560,000.

14 Witnesses have testified that  
15 the cost of drilling the Johnson Federal 12-5 Well was  
16 \$566,000.

17 Witnesses testified that re-  
18 maining to be paid before payout of the Johnson 12-5 Well  
19 is about \$348,000.

20 The application is to pool  
21 into the Johnson 12-5 Well, pay \$36,300 and get a 15 per-  
22 cent return. That's in the face of a rather extended and  
23 rather well documented Commission position on these mat-  
24 ters. We've been referenced to four cases in which a party  
25 has pooled into a well because of an increase in spacing in

1 this particular pool.

2                   One of those parties paid 100  
3 percent of cost and one of those parties paid 125 percent  
4 of cost. A third of those parties paid 100 percent of  
5 cost. A fourth of those, the fourth of those, the order  
6 provided for 100 percent of your share to get into the  
7 well.

8                   We're confronted with that  
9 application which seeks to contribute 13 or 14 percent and  
10 according to -- to the witness, would be the only party who  
11 gets any return out of the investment in this well.

12                   I'd just like to echo Mr.  
13 Lopez' sentiment that that's not fair. If ORYX is desirous  
14 of holding the lease in the east half of Section 12, ORYX  
15 may do so, but the tradition of the Commission has set  
16 forth the conditions under which it has to do that in two  
17 other cases which involve leases with very short expiration  
18 dates.

19                   I don't know those parties, I  
20 don't know what they did, but that's what they had to live  
21 with, what other people who have come before this body have  
22 had to live with, and I don't think there's anything dif-  
23 ferent about this case. If the lease is that important to  
24 them, then they can pay their share of the fair cost, and  
25 if it is not that important to them, they may either ride

1 the well so that it's paid out of production or they can  
2 let the lease lapse.

3 The function is running ram-  
4 pant that somehow this property has to be brought on pro-  
5 duction, although it can't be developed (unclear). It has  
6 a negative present value. Something's awry and the Com-  
7 mission knows how to handle these cases and people ought to  
8 be able to the decision of what they're going to do and get  
9 on with it.

10 Nothing has been presented at  
11 this hearing which shows that this differs radically from  
12 anything else that the Commission has considered in this  
13 type of case and I suggest that an order along the line of  
14 the Loddy order, referenced as what's been done historical-  
15 ly in ORYX's correspondence, is the appropriate order to  
16 have entered in this case.

17 Thank you.

18 MR. STOGNER: Thank you, Mr.  
19 Pearce.

20 Mr. Kellahin.

21 MR. KELLAHIN: Thank you, Mr.  
22 Examiner.

23 I'd like to reference you to  
24 the pooling statute for a couple of items that I think are  
25 of importance.

1                   We're looking at 70-2-17,  
2 Subparagraph C. You'll find in the top of the continua-  
3 tion of the paragraph from the bottom of the page, it says  
4 the Commission can do certain things concerning forced  
5 pooling orders, and it's interesting language that I must  
6 say I hadn't recognized until recently. We often talk to  
7 you about waste and correlative rights with an "and" be-  
8 tween the words, but you are entitled by statute to enter a  
9 pooling order that accomplishes no other purpose than the  
10 avoidance of the drilling of an unnecessary well. It's an  
11 interesting sentence. It says, "The Division, to avoid the  
12 drilling of unnecessary wells or to protect correlative  
13 rights or to prevent waste...". It doesn't say "and" in  
14 there. It says "or" and "or" must have some meaning or  
15 they wouldn't have put it in there.

16                   We think that you can enter  
17 the order simply for the undisputed, uncontested fact that  
18 this well is unnecessary.

19                   This reservoir is highly con-  
20 nected fracturally; that the reserves in the east half for  
21 which those owners are entitled to compensation is being  
22 depleted by other wells.

23                   To say it has no value simply  
24 means that it no longer affords or supports the cost of  
25 drilling a new well to get those reserves, but there is no

1 one here contending this is goat pasture. This is not one  
2 of those pooling cases where someone is seeking to parti-  
3 cipate with barren lands. No one has raised that yet in  
4 this case and certainly no one will.

5 I think that's an interesting  
6 point.

7 The other one in the statute  
8 is that well costs. If you'll read the next full para-  
9 graph and it takes some patience to get through all the  
10 complicated sentences, but if you read the next full para-  
11 graph, you'll find that well costs are pegged only against  
12 nonconsenting owners when you determine risk factor. There  
13 is nothing in here about pegging well costs as the basis  
14 upon participation for a consenting owner. The language is  
15 in the top of that paragraph and it says, "On such terms  
16 and conditions as are just and reasonable and will afford  
17 the owners, or owners of each tract or interest in the unit  
18 the opportunity to recover or receive without unnecessary  
19 expense his just and fair share."

20 We say our just and fair share  
21 is 50 percent of the remaining reserves and we ought not to  
22 have to pay 50 percent of the original cost of the well and  
23 let Mallon and Mesa Grande keep some 30,000 barrels of oil.  
24 There's nothing fair about that. How are we ever going to  
25 participate? We can't. And so what occurs is what has

1 happened in all the rest of these pooling orders that Mr.  
2 Pearce took great patience with Mr. Dillon to explore.  
3 They're absolute failures. Are we going to repeat that  
4 again?

5 None of those were constructed  
6 in a way that induced the people to participate.

7 Look at the Loddy order, the  
8 Seifert order. They were all constructed well in the early  
9 life of the property in which parties could make a con-  
10 scious choice based upon those decline curves, they say  
11 yes, they had remaining reserves that were going to pay for  
12 their contribution.

13 That is not the case here.  
14 And even in those cases where there was remaining future  
15 production, people didn't exercise the choice to join. How  
16 is that going to be fair? To do that now in the later life  
17 of a well that obviously is not going to return to the east  
18 half owners the \$268,000 that Mr. Cox would like to get  
19 from them for which he certainly recommend anyone paying.

20 If we follow the solution in  
21 the Loddy order I think it's factually distinguishable and  
22 it's certainly no solution at all. We'll simply end up  
23 being nonconsent interest owners. We think that's a poor  
24 choice. It's inconsistent with the statutory language in  
25 the rule. We have brought forth to you what we think is



1 to suggest a date when you may have these in?

2 MR. KELLAHIN: We'll have you  
3 one by Tuesday.

4 MR. STOGNER: Mr. Pearce?

5 MR. PEARCE: That's fine.

6 MR. STOGNER: Tuesday it is,  
7 and we'll hold the record open just for those two docu-  
8 ments and in that case we're through with this case today.

9

10 (Hearing concluded.)

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

C E R T I F I C A T E

I, SALLY W. BOYD, C. S. R. DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 9694, heard by me on 12 July 1989.  
Martin E. Stogner, Examiner  
Oil Conservation Division