

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

IN THE MATTER OF THE HEARING CALLED BY )  
 THE OIL CONSERVATION DIVISION FOR THE )  
 PURPOSE OF CONSIDERING: ) CASE NO. 11,925  
 )  
 APPLICATION OF KCS MEDALLION RESOURCES, )  
 INC., FOR AN UNORTHODOX GAS WELL )  
 LOCATION, EDDY COUNTY, NEW MEXICO )

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: MICHAEL E. STOGNER, Hearing Examiner

February 19, 1998

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, MICHAEL E. STOGNER, Hearing Examiner, on Thursday, February 19th, 1998, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

\* \* \*

## I N D E X

February 19th, 1998  
 Examiner Hearing  
 CASE NO. 11,925

	PAGE
EXHIBITS	3
APPEARANCES	4
APPLICANT'S WITNESSES:	
<u>WILLIAM A. SIRUTA</u> (Geologist)	
Direct Examination by Mr. Bruce	7
Examination by Examiner Stogner	18
SOUTHWEST ROYALTIES WITNESSES:	
<u>DAVID F. ALDERKS</u> (Geologist)	
Direct Examination by Mr. Cooter	22
Cross-Examination by Mr. Bruce	26
Examination by Examiner Stogner	27
<u>JAMES BLOUNT</u> (Engineer)	
Direct Examination by Mr. Cooter	29
Cross-Examination by Mr. Bruce	41
Examination by Examiner Stogner	47
REPORTER'S CERTIFICATE	51

\* \* \*

## E X H I B I T S

Applicant's	Identified	Admitted
Exhibit 1	8	18
Exhibit 2	10	18
Exhibit 3	10	18
Exhibit 4	12	18
Exhibit 5	12	18
Exhibit 6	12	18
Exhibit 7	18	18

\* \* \*

Southwest Royalties	Identified	Admitted
Exhibit 1	23	25
Exhibit 2	23	25
Exhibit 3	24	25
Exhibit 4	30	41
Exhibit 5	32	41
Exhibit 6	33	41
Exhibit 7	34	41
Exhibit 8	34	41
Exhibit 9	35	41
Exhibit 10	36	41
Exhibit 11	37	41
Exhibit 12	37	41

\* \* \*

## A P P E A R A N C E S

## FOR THE DIVISION:

RAND L. CARROLL  
Attorney at Law  
Legal Counsel to the Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505

## FOR THE APPLICANT:

JAMES G. BRUCE, Attorney at Law  
612 Old Santa Fe Trail, Suite B  
Santa Fe, New Mexico 87501  
P.O. Box 1056  
Santa Fe, New Mexico 87504

## FOR SOUTHWEST ROYALTIES, INC.:

KEMP, SMITH, DUNCAN & HAMMOND, P.C.  
500 Marquette, NW, Suite 1200  
P.O. Box 1276  
Albuquerque, New Mexico 87103-1276  
By: PAUL A. COOTER

\* \* \*

1           WHEREUPON, the following proceedings were had at  
2   8:20 a.m.:

3           EXAMINER STOGNER: At this time we'll call Case  
4   Number 11,925.

5           MR. CARROLL: Application of KCS Medallion  
6   Resources, Inc., for an unorthodox gas well location, Eddy  
7   County, New Mexico.

8           EXAMINER STOGNER: Call for appearances.

9           MR. BRUCE: Mr. Examiner, Jim Bruce on behalf the  
10   Applicant.

11           I'd really like to move forward with this case,  
12   but Mr. Cooter has entered an appearance in opposition to  
13   this case, and so I would presume this will go to the end  
14   of the day also.

15           EXAMINER STOGNER: Yeah, I guess that's what  
16   we'll do. If you're prepared, I was fixing to say let's go  
17   ahead and hear it. But we'll move that one to the end of  
18   the docket.

19                           \* \* \*

20

21           (Thereupon, the following proceedings were had at  
22   11:11 a.m.)

23           EXAMINER STOGNER: At this time we will call Case  
24   11,925.

25           MR. CARROLL: Application of KCS Medallion

1 Resources, Inc., for an unorthodox gas well location, Eddy  
2 County, New Mexico.

3 EXAMINER STOGNER: Call for appearances.

4 MR. BRUCE: Mr. Examiner, Jim Bruce of Santa Fe,  
5 New Mexico representing the Applicant.

6 I have one witness to be sworn.

7 MR. COOTER: Mr. Stogner, Paul Cooter appearing  
8 on behalf of Southwest Royalties, Inc., which has protested  
9 the unorthodox location.

10 We have two witnesses, Dave Alderks and Jim  
11 Blount.

12 EXAMINER STOGNER: Any other appearances?

13 Will the witnesses please stand to be sworn at  
14 this time?

15 (Thereupon, the witnesses were sworn.)

16 EXAMINER STOGNER: Is there any reason for  
17 opening remarks, or shall we just get right on into it?

18 MR. BRUCE: I would just rather get right on into  
19 it.

20 EXAMINER STOGNER: Mr. Cooter?

21 MR. COOTER: I have no opening remarks, other  
22 than to state for the record that Mr. Bruce and I have  
23 exchanged exhibits before the hearing.

24 EXAMINER STOGNER: Okay. Mr. Bruce, you may  
25 proceed.

1                    WILLIAM A. SIRUTA,  
2     the witness herein, after having been first duly sworn upon  
3     his oath, was examined and testified as follows:

4                    DIRECT EXAMINATION

5     BY MR. BRUCE:

6            Q.     Would you please state your name and city of  
7     residence for the record?

8            A.     William Siruta, Midland, Texas.

9            Q.     Who do you work for and in what capacity?

10          A.     I'm a senior geologist with KCS Medallion  
11     Resources, Inc.

12          Q.     Have you previously testified before the  
13     Division?

14          A.     Yes, I have.

15          Q.     And were your credentials as an expert geologist  
16     accepted as a matter of record?

17          A.     Yes.

18          Q.     And are you familiar with the geologic matters  
19     involved in this Application?

20          A.     Yes.

21                MR. BRUCE: Mr. Examiner, I'd tender Mr. Siruta  
22     as an expert geologist.

23                EXAMINER STOGNER: Any objections?

24                MR. COOTER: No, sir.

25                EXAMINER STOGNER: Mr. Siruta is so qualified.

1 Q. (By Mr. Bruce) Mr. Siruta, what does KCS seek in  
2 this case?

3 A. We seek approval of an unorthodox location for a  
4 well 860 feet from the south line, 660 feet from the west  
5 line of Section 16, Township 19 South, Range 29 East. The  
6 south half of the section will be dedicated to the well.

7 Q. What is the primary target zone in this well?

8 A. The primary zone is the middle Morrow sands.

9 Q. Would you refer to Exhibit 1 and identify it for  
10 the Examiner and discuss its contents, please?

11 A. It's the production map of the area that we're  
12 discussing. All the wells on this map penetrate the Morrow  
13 except for the two oil wells in Section 15. All of the  
14 circled wells that are shaded in green are all Morrow  
15 producers.

16 Right next to each well is a little box, and in  
17 that box is the date the well was first produced. The top  
18 number is the cumulative gas, the second number is the  
19 cumulative oil, the third number is the daily rate or the  
20 date that the well went in active or was P-and-A'd.

21 Q. What are the key wells in this area?

22 A. There are really four key wells in here. There's  
23 the Southwest Royalties well, which is in the southwest  
24 quarter of 17. That well has made 5.2 BCF, 64,000 barrels  
25 of oil, and has produced for almost 24 years.



1           The well in the northeast of 17 is a Burlington  
2 Resources well. It's made 2 BCF, 20,000 barrels of oil,  
3 making about 369 MCF a day, and it's been producing since  
4 1985.

5           The well in the northwest of Section 16, a  
6 Burlington Resources well, has made 1.5 BCF, 16,000 barrels  
7 of oil, and has been inactive since 12 of 1995.

8           And the well in the southeast of Section 16,  
9 another Burlington-operated well, has made 325 million, 3.7  
10 MBO, and has been inactive since 11 of 1986 in the Morrow.

11          Q.    That well in the southeast quarter of Section 16  
12 was noncommercial, was it not?

13          A.    No, it was not.

14          Q.    There's also, to complete the pattern around your  
15 proposed well, there's a well in the north half of Section  
16 20 and a well in the north half of Section 21. What can  
17 you tell us about those wells?

18          A.    Both of those wells penetrated the Morrow and  
19 were not productive in the Morrow interval.

20          Q.    If you're allowed to drill your proposed well,  
21 what type of reserves does KCS hope to recover?

22          A.    We're hoping to recover 1.5 BCF. We feel like if  
23 we would have drilled this well earlier, that we would have  
24 seen substantially more reserves.

25                But we feel now that we're going to experience

1 some partial depletion by the surrounding wells, which --  
2 Three wells in here have basically cum'd 10 BCF. The two  
3 wells in 17 and the northwest of 16, added together, have  
4 made 10 BCF.

5 Q. Let's move on to your Exhibit 2. What is that?

6 A. That's a structure map based on the base of the  
7 Morrow massive shale.

8 Q. Is structure important in the middle Morrow?

9 A. No, not typically in this area.

10 Q. Okay. This line also shows a cross-section,  
11 A-A'?

12 A. Right, the line marked in red connecting the  
13 wells is the cross-section we'll show later.

14 Q. Why don't you move on to that cross-section,  
15 Exhibit 3, and identify the main zone of interest for the  
16 Examiner.

17 A. The main zones of interest here are the middle  
18 Morrow sands, which I have labeled as "A", "B" and "C"  
19 sands.

20 Q. Now, are these sands always continuous across  
21 this area?

22 A. No, as you can see from the cross-section,  
23 they're very lenticular. I've separated the sandbodies,  
24 trying to indicate zones of deposition here by some shale  
25 markers, but you can see in between the shales they come

1 and go pretty erratically.

2 Q. Okay. Now, this "A", "B" and "C" designation,  
3 that's internal to your --

4 A. That's correct. That's just the way I happened  
5 to label them.

6 Q. A couple more questions on this. Is the lower  
7 Morrow potential in this area?

8 A. No, not typically. Most of the lower Morrow  
9 sands that have been completed out here are either not  
10 commercial or are wet.

11 Q. Okay. Now, you're hoping to get all three sands  
12 in your proposed location; is that correct?

13 A. That's correct.

14 Q. Now, the well immediately to the east of your  
15 proposed location, the one in the southeast quarter of  
16 Section 16 -- First of all, that well was not commercial;  
17 is that correct?

18 A. That's correct.

19 Q. And it was not perforated in these "A", "B" and  
20 "C" sands, the main sands, was it?

21 A. That's correct, it was not.

22 Q. It was only perforated in what? A stray zone?

23 A. Yeah, a couple of stray zones that develop above  
24 the middle Morrow here. The main pay sands were extremely  
25 thin.

1 Q. Well, since the "A", "B" and "C" sands are not  
2 present, or at least not present in commercial thicknesses,  
3 in that well in the southeast quarter of Section 16, is  
4 that a reason for moving to the west, moving to an  
5 unorthodox location?

6 A. Yes.

7 Q. If KCS has to drill at an orthodox location or  
8 fairly close to that noncommercial well in the southeast  
9 quarter of Section 16, is there a high probability it could  
10 be noncommercial?

11 A. Yes.

12 Q. And that would -- Your company could not justify  
13 drilling in that circumstance?

14 A. That's correct.

15 Q. Mr. Siruta, let's discuss these three main Morrow  
16 zones. Maybe let's do it all at once.

17 Could you just put Exhibits 4, 5 and 6 in front  
18 of you and discuss these three main Morrow pay zones for  
19 the Examiner?

20 A. These three maps that I have are net isopachs on  
21 the Morrow "A", Morrow "B" and Morrow "C" sands.

22 The wells that are shaded in -- or colored in  
23 green, the circles, are wells that produce from the sand  
24 that's mapped. So if you -- Like, for example, the net  
25 isopach on the Morrow "A" sand, the two wells in 17, the

1 well in 16 and the well in 22 produce from that sand. They  
2 may produce also from other sands, but they do produce from  
3 that sand.

4 Q. Okay. Now, looking overall at this, in your  
5 opinion is it good enough to hit one of these sands, or do  
6 you need to stack these sands to have a good chance of  
7 getting a commercial well?

8 A. We feel like to have a commercial well, we at  
9 least have to have two of these sands and would like to be  
10 able to stack all three of them to assure a commercial  
11 well.

12 Q. The really good well in this area, the Southwest  
13 Royalties well, has all three zones, doesn't it?

14 A. That's correct.

15 Q. Now, why don't you go through these exhibits  
16 briefly and discuss, you know, the trend of the reservoir  
17 and the other items that are shown on these maps.

18 A. Typically, out here what I have right next to the  
19 well is a number, and that illustrates the net sand for  
20 that well.

21 As you can see on all three of these sands, the  
22 general trend is in a northwest-southeast direction. For  
23 example, in the Morrow "A" sand it trends from the north  
24 and then it kind of makes a turn and goes of to the east,  
25 and there's quite a bit of control out here to the east.

1           You can also see that the sand cuts, really, the  
2 east half of Section 17. Most of the sand is present  
3 there.

4           And the Morrow "B" sand, it's almost a true  
5 north-south sand. Again, most of the sand in Section 17 is  
6 present in the east side of the section.

7           The Morrow "C" sand is, again, a north-south-  
8 trending sand. It bifurcates and does cut through Section  
9 16, but again in Section 17, the majority of the sand is in  
10 the east half of the section.

11          Q. Now, once again, what about these -- Well, a  
12 couple of questions. Looking at the well in the southwest  
13 quarter of Section 17, the Southwest Royalties well,  
14 there's very little sand development to the west of that  
15 well, is there?

16          A. That's correct.

17          Q. Based on that, would that well drain much from  
18 the west?

19          A. I think the primary drainage from that well in  
20 all three of these sands would have to be from an easterly  
21 direction.

22          Q. Okay. Another thing on these exhibits, regarding  
23 the well in the southeast quarter of Section 16, the well  
24 you're moving away from, it does have some net thickness in  
25 a couple of these sands, doesn't it?

1           A.    That's correct. I've based that on a resistivity  
2 log, which is the only log that I had available.

3           Q.    Okay.

4           A.    But there is just traces of the sand.

5           Q.    Okay. So it was not present in quantities that -  
6 - Obviously, the operator didn't perforate or produce that?

7           A.    That's correct.

8           Q.    So once again, you'd want to stay away from that  
9 well?

10          A.    That's correct.

11          Q.    Now, in the north half of Section 20 there's a  
12 well just to the south of the Southwest Royalties well.  
13 What can you tell us about that?

14          A.    That well had none of the three pay sands present  
15 at all, in terms of a net sand.

16          Q.    So it's apparently -- Once you get almost  
17 immediately to the south of the Southwest Royalties well,  
18 it's dry?

19          A.    That's right.

20          Q.    What about the north half of Section 21? There's  
21 a well there that apparently didn't produce from the  
22 Morrow, but it has some pretty good thicknesses.

23          A.    Yeah, that was kind of an interesting well. They  
24 did perforate and test these sands, and they're all pretty  
25 thick and they look pretty good on the porosity logs. But

1 they attempted to complete it and never made a well out of  
2 it. So the assumption that I've made is that these sands  
3 must have real poor permeability.

4 Q. Because of that, would you also want to stay a  
5 reasonable distance away from that well in the north half  
6 of Section 21?

7 A. Yes.

8 Q. You don't want to hit a low-permeability area, do  
9 you?

10 A. That's correct.

11 Q. Based on the dryhole in the north half of Section  
12 20 and the low permeability in the north half of Section  
13 21, from a geologic perspective, is the Southwest Royalties  
14 well draining from the south?

15 A. Probably not to a great degree. I think the  
16 geology shows that there's probably not that much sand to  
17 be drained from that direction.

18 Q. Okay. Now, if you go to the north of the  
19 Southwest Royalties well, there's a decent Burlington well  
20 there, isn't there?

21 A. That's correct. That well has made 2 BCF.

22 Q. Because of that competition, would you expect the  
23 Southwest Royalties well to be draining significantly from  
24 the north?

25 A. No.



1 Q. Really all that leaves, then, is drainage  
2 primarily in the direction of KCS's proposed well?

3 A. That's correct, from the east side of the  
4 section.

5 Q. In your opinion, is the proposed location  
6 necessary to adequately test the Morrow and ensure a  
7 reasonable chance of success?

8 A. Yes.

9 Q. Based on what you've shown here, will your  
10 location adversely affect the Southwest Royalties well?

11 A. In my opinion, it wouldn't. This well has been  
12 producing for almost 25 years. It's made 5.2 BCF and, you  
13 know, they've had ample opportunity to drain their  
14 reserves. I think 25 years is plenty long.

15 Q. Is your opinion, is the granting of this  
16 Application in the interests of conservation and the  
17 prevention of waste?

18 A. Yes.

19 Q. Regarding offset operators, the Southwest  
20 Royalties well is a south-half well unit, is it not?

21 A. That's correct.

22 Q. And the acreage to the south is all within the  
23 Parkway West Unit --

24 A. Yes.

25 Q. -- operated by UMC Petroleum Corporation?

1 A. Yes, that's correct.

2 Q. And those are the only two offsets?

3 A. That's correct.

4 Q. Is Exhibit 7 my affidavit regarding notice to  
5 those offsets?

6 A. Yes.

7 Q. Mr. Siruta, were Exhibits 1 through 6 prepared by  
8 you or under your direction?

9 A. Yes.

10 Q. And Exhibit 7 was prepared by me?

11 A. That's correct.

12 MR. BRUCE: Mr. Examiner, at this time we would  
13 move the admission of KCS Medallion's Exhibits 1 through 7.

14 EXAMINER STOGNER: Exhibits 1 through 7 will be  
15 admitted into evidence.

16 Thank you, Mr. Bruce.

17 Mr. Cooter, your witness, please.

18 MR. COOTER: I have no questions.

19 EXAMINATION

20 BY EXAMINER STOGNER:

21 Q. The well in the north half of 17, who's the  
22 operator of that?

23 A. Burlington Resources.

24 Q. And were they notified?

25 MR. BRUCE: I did not notify them, Mr. Examiner.

1 EXAMINER STOGNER: Wouldn't they have been an  
2 affected operator?

3 MR. BRUCE: The way I read the rule, Mr.  
4 Examiner, it would be the people to the -- the unit to  
5 the -- the immediate unit to the west, and the unit to the  
6 southwest.

7 Q. (By Examiner Stogner) Now, you've broken this  
8 middle Morrow out into the "A", "B" and "C" sand, and you  
9 attribute it to different sands and production. Is there  
10 any way to come up with percentages, which is the more  
11 prolific sand, which is --

12 A. Well, it's -- You know, it's pretty difficult in  
13 here if you look at the Southland well. You know, all  
14 three sands are fairly porous in that well, and they look  
15 fairly good on the log. It really is difficult to do that.

16 I try to break these sands out into what I think  
17 are as small of a depositional interval as you can. That  
18 kind of assists you in mapping the trend.

19 And I have tried to do this, I have tried to do a  
20 reserve analysis, trying to base what amount of the  
21 production comes from which sands, and I just haven't been  
22 able to do it.

23 Q. Okay. Now, the old well in the south half of 16,  
24 who drilled that and what's the history of that?

25 A. I can't say for certain who drilled that. I

1 don't recall. But Burlington operates it. That well was  
2 drilled into the Morrow. A couple of stray sands were  
3 shot. It made a marginal well, and now it's been  
4 recompleted into the Atoka.

5 Q. And so that's an Atoka producer?

6 A. Right, and it's fairly marginal itself. I think  
7 it's making less than 50, 60 MCF.

8 Q. Okay, now, is that -- The figure that you show to  
9 the left, in Exhibit Number 1, of that box, that is the  
10 Morrow production?

11 A. That's correct.

12 Q. Okay, now which sand did it come from? Because I  
13 don't show your Exhibits 4, 5 or 6 indicate it.

14 A. Okay, it came from a sand above the "A", "B" and  
15 "C" sands, kind of a stray.

16 Q. So that corresponds to your A' cross-section --

17 A. That's correct.

18 Q. -- just to the top of the "C" sand, that one  
19 straggler?

20 A. That's correct.

21 Q. Okay. Now, the closest standard location would  
22 be 1650 feet off of that west line; is that correct?

23 A. That's correct.

24 Q. Okay. In looking at your Exhibits 4, 5 and 6,  
25 where would you end up on those isopachs?

1           A.    In the Morrow "A" sand you would end up just to  
2   the east of the 10-foot contour, probably with about eight  
3   foot of sand.

4           Q.    And that's not enough, in your opinion, to be  
5   commercial?

6           A.    I don't believe so. My experience out here in  
7   the Morrow in this area, you've got to have, you know, 10  
8   to 12 feet of sand to really be commercial. And in this  
9   area I'm skeptical, if you cut one sand and don't have the  
10  other two, whether you'll have a commercial well. I think  
11  you've got to at least have a couple of the sands.

12                   In the Morrow "B", that would put you just about  
13  on the 10-foot isopach.

14                   In the Morrow "C", again, it would put you at  
15  about eight feet.

16           Q.    You discussed with Southwest Royalties what would  
17  be an adequate location?

18           A.    Yes, we did before the hearing, and we proposed a  
19  990 location, and the exact words were, they really didn't  
20  want us to drill there at all.

21                   EXAMINER STOGNER: Okay, any other questions of  
22  this witness?

23                   You may be excused at this time?

24                   Mr. Bruce?

25                   MR. BRUCE: That's all I have in this case, Mr.

1 Examiner.

2 EXAMINER STOGNER: Mr. Cooter?

3 Let's go off the record just for a minute.

4 (Off the record)

5 EXAMINER STOGNER: Okay, Mr. Cooter, you may  
6 proceed.

7 DAVID F. ALDERKS,

8 the witness herein, after having been first duly sworn upon  
9 his oath, was examined and testified as follows:

10 DIRECT EXAMINATION

11 BY MR. COOTER:

12 Q. Would you state your name for the record, please,  
13 sir?

14 A. I'm David F. Alderks.

15 Q. And by whom are you employed?

16 A. Southwest Royalties.

17 Q. In what capacity?

18 A. I am a geologist.

19 Q. Have you previously appeared before the New  
20 Mexico Oil Conservation Division --

21 A. Yes, sir.

22 Q. -- as a witness --

23 A. Yes, sir.

24 Q. -- geologist?

25 A. Yes, sir.

1 Q. To refresh the Examiner's recollection, would you  
2 please give a brief résumé of your education and  
3 professional experience?

4 A. I graduated with a BS degree in geology from  
5 Brigham Young University in 1977, master's degree in  
6 geology from the University of Wisconsin in Milwaukee.

7 I've been employed in the oil business as a  
8 geologist for 19 years, doing exploration and development-  
9 type work. I am a registered geologist in the State of  
10 Wyoming and in the State of Illinois.

11 Q. There are a series of exhibits in front of you.  
12 Let me direct your attention, if I may, to Exhibit 1.  
13 Would you explain that to the Examiner?

14 A. This is a structure map which is on the top of my  
15 Morrow C, which is essentially the same thing as Mr.  
16 Siruta's structure map on his shale, and it shows  
17 essentially the same thing.

18 Some very minor dip in the area. Outlined on  
19 this map is the Southwest Royalties lease in green, and  
20 then a cross-section which comprises our Exhibit Number 2.

21 Q. Let's turn to that Exhibit Number 2, if you  
22 would, identify the wells first in the cross-section.

23 A. Starting at A we have the Southwest Royalties  
24 Union Texas State, which is our well in Section 17, Unit N.

25 Then we go up to the Parkway State 17-1 in Unit

1 Letter G of Section 17.

2 Come over to the State Com 16-1 in Unit Letter F  
3 of 16.

4 And then down to the State Com 1-16 A in Unit  
5 Letter O of Section 16.

6 What this cross-section also shows is my datum,  
7 which is on the top of my lower Morrow, which I call Morrow  
8 C, and then also shows my Morrow B section, which is the  
9 interval between the oolitic limestone down to the base of  
10 the big shale, which is the middle Morrow section.

11 The Morrow C is the lower Morrow, which is not of  
12 an issue here in this case.

13 Q. When did Southwest Royalties acquire its interest  
14 in the Union Texas State Com Number 1 well?

15 A. It's been about a year, a year and a half or so  
16 ago.

17 Q. From the cross-section what mapping criteria were  
18 used for your next exhibit, Exhibit 3?

19 A. I have made a net sand map of my Morrow B whereby  
20 I use an API 50 gamma-ray cutoff and then supplement that  
21 with 8-percent density to make my net maps.

22 Q. Okay, let's turn to Exhibit 3. Identify that.

23 A. Exhibit 3 is a net Morrow B sand isopach showing  
24 porosity greater than 8 percent. This is a composite map  
25 utilizing my criteria of the sands in the Morrow B section.



1           In my past experience, I have split sands out to  
2 try to map individual sands. That can be sometimes done,  
3 but it's tenuous at best because it's hard to specifically  
4 say that one sand is exactly the same as another sand.

5           By doing so, I've been able to determine that by  
6 lumping sands together to find where most of the sand  
7 packages are, the thickest parts, that that works just as  
8 well as trying to split something out into minute detail.

9           Q.   Exhibit 3, being the isopach, obviously the sands  
10 trend from the northwest to the southeast across this --

11          A.   Yes, sir.

12          Q.   -- area that we're talking about?

13          A.   That is correct.

14          Q.   Were Exhibits Numbers 1, 2 and 3 prepared by you  
15 or under your direction and supervision?

16          A.   Yes, sir.

17          MR. COOTER: We offer those three exhibits at  
18 this time, Mr. Stogner.

19          EXAMINER STOGNER: Any objections?

20          MR. BRUCE: No, sir.

21          EXAMINER STOGNER: Exhibits 1, 2 and 3 will be  
22 admitted into evidence at this time.

23          MR. COOTER: That concludes our direct  
24 examination of this witness.

25          EXAMINER STOGNER: Thank you, Mr. Cooter.

1 Mr. Bruce?

2 CROSS-EXAMINATION

3 BY MR. BRUCE:

4 Q. Just a couple of questions, Mr. Alderks.

5 Just for definition purposes, does your Morrow B  
6 designation correlate with Mr. Siruta's?

7 A. It does not.

8 Q. Does not?

9 A. Does not.

10 Q. Does it include all of Mr. Siruta's "A", "B" and  
11 "C"?

12 A. Yes, it does.

13 Q. Okay. So what you're calling Morrow B is what  
14 Mr. Siruta has broken out into "A", "B" and "C"?

15 A. Yes, and it will also include what he has not  
16 included in there. It will include some of that upper  
17 middle Morrow sands.

18 Q. What he referred to as stray sands?

19 A. Yes. However, I'm not sure that you can say  
20 they're always stray.

21 Q. Let's look at your cross-section. You give your  
22 well, which is the Union Texaco State Com Number 1,  
23 substantially less sand than Mr. Siruta -- sand net  
24 thickness than Mr. Siruta does, don't you?

25 A. I have given eight feet in there, and that's

1 based on my criteria. This well is -- does not meet much  
2 of my 50 API sand cutoff on the gamma ray.

3 Q. Why is this the best well in the pool, then?

4 A. Because it has some good porosity in there. Some  
5 of these sands may be a little bit -- I think this well  
6 connects into our -- the main channel that you can see in  
7 my Exhibit 3, here on the edge.

8 Q. If you were drilling a well in the -- or  
9 recommending a well in the south half of Section 16 to your  
10 management, would you want to drill a well close to the  
11 noncommercial well in the southeast quarter of Section 16?

12 A. I would -- No, I would like to not be right on  
13 top of that well, but I would like to be in the channel, if  
14 I could be, in a legal location.

15 MR. BRUCE: That's all I have, Mr. Examiner.

16 EXAMINATION

17 BY EXAMINER STOGNER:

18 Q. Your well in the south half of Section 17, has  
19 that gone through any recompletions or refracturing or  
20 restimulation since its inception? Is this a 20-year-old  
21 well?

22 A. Yes, sir, that well was originally drilled by  
23 Hondo in October of 1974.

24 Q. Okay. Do you know if there have been any  
25 recompletions or anything?

1           A.    That well was -- I think it was -- this well was  
2 originally perforated down in the C sands, below the middle  
3 Morrow shale, and they were not particularly productive,  
4 and the well was then come up and recompleted into the B  
5 sands.

6                    So I think there was, in the past, some attempt  
7 at some recompletions, and that's where the well is  
8 producing now, out of the B.

9           Q.    Do you know when that recompletion or upper sands  
10 were perforated?

11           A.    It was not long after that well was drilled, I  
12 believe. I can't give you a specific --

13           Q.    So nothing with the last ten years or --

14           A.    No, sir.

15           Q.    -- recent history?

16           A.    No, sir.

17           Q.    Do you know how that well was stimulated or...

18                    What I'm trying to figure out, why this is a  
19 better well than that other one. Was stimulation  
20 techniques done?

21           A.    This -- The scout ticket at the base here shows a  
22 small frac, 5000 gallons of acid, and then a frac, 20,000  
23 with 30,000 pounds of sand.

24           Q.    How long has that Burlington well to the north,  
25 how long has it been producing?

1           A.    That well was completed in 1984, in October of  
2   1984.

3           Q.    Essentially producing from the same intervals?

4           A.    Yes, sir.

5           EXAMINER STOGNER:  No other questions for this  
6   witness.  You may be excused.

7                               JAMES BLOUNT,

8   the witness herein, after having been first duly sworn upon  
9   his oath, was examined and testified as follows:

10                               DIRECT EXAMINATION

11   BY MR. COOTER:

12           Q.    Would you state your name for the record, please,  
13   sir?

14           A.    James Blount.

15           Q.    And for whom are -- By whom are you employed?

16           A.    Southwest Royalties.

17           Q.    Have you previously appeared before the New  
18   Mexico Oil Conservation Division and made your educational  
19   and professional experience a matter of record?

20           A.    Yes, I have.

21           Q.    Just to assist the Examiner in that regard, would  
22   you briefly restate it at this time?  Don't go into an  
23   awful lot of detail, but just cover the high points for me.

24           A.    Yes, I have a petroleum engineering degree from  
25   Texas A&M University.  I graduated in 1984.  I worked for

1 Mitchell Energy for eight years as a petroleum production  
2 engineer, and I worked for Southland -- or for Santa Fe  
3 Resources as a contract engineer in both reservoir and  
4 production for two years, and I've been employed with  
5 Southwest Royalties as an area supervisor for one year.

6 Q. Certain exhibits are on the table in front of  
7 you. Exhibits 4, 5 and 6 appear to be well drainage radius  
8 plats, and Exhibit 7 a map -- a tabulation of map circle  
9 volumes.

10 Let's start with Exhibit 4, and explain that, if  
11 you would, to the Examiner.

12 A. Okay, what I've done here is, I've incorporated  
13 the isopach map that Mr. Alderks has presented, and I've --  
14 what I've done is drawn radius circles around each of the  
15 wells out there.

16 And then what I've gone and done is, I've  
17 calculated volumetrically what the reserves for these wells  
18 based on the original bottomhole pressure of these wells,  
19 and I've come up with a yield per acre-foot.

20 And then what I did was figured out how much area  
21 was inside of each one of those circles between the isopach  
22 lines. And I would multiply that times that gas volume  
23 factor to determine how much gas would be produced inside  
24 of each of those circles.

25 And then I've projected that back into the actual

1 production history of these wells to determine the date  
2 which each of these circles would have been reached.

3 And the Union TX well was the first well produced  
4 -- or that was completed in the area. It had a bottomhole  
5 pressure of 4400 pounds, and it produced for basically ten  
6 years before the Parkway 17 Number 1 was drilled.

7 When the Parkway 17 Number 1 was drilled it had a  
8 bottomhole pressure of 2200 pounds. So that showed obvious  
9 drainage into that area, pressure drainage, probably from  
10 the Union TX well.

11 The State 16 Number 1 well that's in the north  
12 half of 16 was drilled also in the early -- or mid-1970,  
13 and it produced out to that third radius in its lifetime.  
14 And it also had an original bottomhole pressure of about  
15 4300 pounds, which was close to virgin pressure out there.

16 And then I've done is kind of come up with an  
17 interference point between the Union TX and the Parkway 17  
18 Number 1, whereas when this -- The third circle on the  
19 Union TX was reached in June of 1984, whereas that Parkway  
20 17 Number 1 well was drilled in the -- I believe the later  
21 part of 1984, possibly 1985.

22 And so I kind of from that point on assumed that  
23 there should have been some kind of communication -- or  
24 interference, to prevent more drainage to the north of that  
25 particular well. And that's why there's a line drawn in

1 between those two wells.

2 And as you get out to the fifth circle, the fifth  
3 circle shows approximately the drainage radius that would  
4 be encountered to this day. And using decline curve  
5 analysis, it's projected that the reserves of this well  
6 could be as high as 7.5 BCF, and that would be reached  
7 approximately in the year 2040. And that's basically the  
8 seventh circle.

9 Q. Would you explain -- compare Exhibit 4 with  
10 Exhibit 5, Mr. Blount?

11 A. Okay, Exhibit 5 has the unorthodox location that  
12 KCS Medallion is proposing. And what I tried to show with  
13 that is that they will be reaching the section line from  
14 their proposed location in a matter of two -- of one year,  
15 and would be draining reserves from Section 17 shortly  
16 thereafter.

17 As far as the projection of the date was  
18 concerned, I had to make some assumptions on that. And  
19 what I assume was, their production from that well would be  
20 similar to what the Parkway 17 Number 1 would be. And  
21 basically, that well came in at a little over a million  
22 cubic feet of gas a day and produced at a decline if 13  
23 percent per year.

24 Now, the reason I used it as my anomaly was due  
25 to the fact that I expect the bottomhole pressure of the



1 KCS Medallion well to be similarly depleted as the Parkway  
2 17 Number 1 was. So using a bottomhole pressure of 2200  
3 for my volumetric calculations to determine the gas per  
4 acre-foot, that's how I determined those drainage areas.

5 And I have the circle cut off when it hits the  
6 sixth circle of the Union TX, but actually it would breach  
7 that circle before the Union TX would. So it would  
8 actually drain well into Section 17 where -- and well into  
9 the meat of the reservoir out there.

10 Q. Compare Exhibit -- what's shown by Exhibit 5 with  
11 Exhibit 6.

12 A. Okay, Exhibit 6 would be a legal location that  
13 would be located 1650 from the west line. And that well,  
14 similarly, was drawn -- I drew circles around the well and  
15 did volumetric calculations again. And once again, I'm  
16 assuming production based on the Parkway 17 Number 1.

17 And using that same production decline and the  
18 same production starting point, the section line would not  
19 be reached until approximately March of 2003. And at that  
20 time they would still be at that section line well before  
21 the Union TX would and would still be draining reserves in  
22 Section 17, but with it being a legal location, that's just  
23 -- That's a part of the oil business.

24 And we also feel that each of these wells has an  
25 almost equally good chance to produce the same amount of

1 reserves, mainly because of interference in that area with  
2 the Union TX coming across, the majority of their drainage  
3 will be to the south in the channel. The south part of the  
4 channel can be achieved just as easily from the -- an  
5 orthodox location as it can from an unorthodox location.

6 Q. In talking about the information shown on Exhibit  
7 7, perhaps I also should have asked you to look at Exhibit  
8 8. Explain that, if you would.

9 A. Yes, sir. Exhibit 8 is just a compilation of the  
10 actual calculated volumes of the amount of gas in each of  
11 those circles.

12 And basically what it was doing there was, the  
13 circle areas that were bounded by a particular isopach line  
14 were calculated using a planimeter, and then a factor was  
15 used to convert that into acres.

16 Once the acres were determined, then I took an  
17 average thickness between the isopach lines.

18 For example, between the zero and the 10-foot  
19 line I used a five-foot thickness with the number of acres  
20 inside of that circle and determined an acre-foot volume.  
21 And then I multiplied that times my gas factor that was  
22 calculated using volumetrics and determined the gas in  
23 place in each of the circles.

24 Q. Do you have anything else you would like to add  
25 about these five exhibits, Exhibits 4, 5, 6, 7 and 8,

1 before we turn to the next series of exhibits?

2 A. I don't believe I do.

3 Q. Let me ask you to turn to what has been marked as  
4 Exhibit Number 9 --

5 A. Okay.

6 Q. -- and at that time you might also want to have  
7 in front of you Exhibit 10.

8 First Exhibit 9, what is that?

9 A. Exhibit 9 is a production curve, a production  
10 plot versus time on our Union Texas State well, and it  
11 shows the decline curve fit for the well that achieved that  
12 -- the current five-percent decline rate that this well is  
13 declining at.

14 And from the current decline rate, a projection  
15 was made as to the reserves, the potential ultimate  
16 reserves remaining, which was calculated using a Power  
17 Tools reserve analysis program. And it projected reserves  
18 out to 7.3 BCF of reserves. That would be achieved by the  
19 year 2047. And this was using a net -- or a gross 100-  
20 percent working interest and a 90- -- or an 82-percent net  
21 revenue interest, which is the percentage net revenue  
22 interest we have.

23 Our current working interest is only in the 37-  
24 percent range, but the value of this would be for all  
25 operators combined, or all interested parties combined.

1           It also calculated the discount present worth, at  
2   a 10-percent discount rate, of about \$1.1 million that this  
3   well would achieve if it was produced to depletion.

4           Now, something I might note is that the  
5   extrapolation of it out to 2047 is an extremely long  
6   extrapolation, but the first 12 years that are shown on  
7   there account for over a million dollars of the value,  
8   because the additional 30 years after that were -- only  
9   accounted for another \$107,000 of the present value, due to  
10  the fact that the gas is so far out in the future.

11          Q.   On your Exhibit 9, which is your rate-time graph,  
12  it appears in three colors. Explain that, would you?

13          A.   Well, the top line is your gas production, and it  
14  shows that currently we're making about 400 MCF per day, or  
15  about -- just a little over 10,000 a month. And then the  
16  oil was -- oh, it was 30, 35 barrels a month --

17          Q.   That's in green?

18          A.   -- approximately -- yes, that was in green --  
19  -- approximate barrels a day.

20                The water was basically insignificant. We  
21  produced less than a half a barrel of water a day.

22          Q.   Do you believe that the annual cash flow report,  
23  which is Exhibit Number 10 -- First, was that compiled by  
24  you?

25          A.   Yes, it was.

1 Q. And did you, in your opinion, use standard,  
2 reasonable engineering criteria for that?

3 A. Yes, I did.

4 Q. Anything else you want to add about Exhibits 9 or  
5 10?

6 A. No, sir.

7 Q. Then let's go to what has been marked as Exhibits  
8 11 and 12. First explain what those graphs are.

9 A. Okay, Exhibits 11 and 12 are two wells that are  
10 to the south of our Union TX well and also the KCS proposed  
11 well. And the purpose of these wells was to show the  
12 possible interference that could be caused by a well that  
13 was drilled into the heart of the channel out there in an  
14 unorthodox location.

15 These wells are located in Section 20 and 21, to  
16 the south of the area of interest. And if you could refer  
17 back to Exhibit Number 3 --

18 Q. Okay, let me find it. That's the isopach?

19 A. That's correct.

20 Q. Okay, I've got it.

21 A. Okay, Exhibit Number 3, the Parkway West Unit  
22 Number 5 well would be the well located in the south half  
23 of Section 20 with a number "4" next to it.

24 Q. Okay.

25 A. The Parkway West Unit Number 6 is located in the

1 south half of 21 with a "35" located next to it.

2 And basically what this shows, these two plots  
3 were done on the same-year basis. And if you could hold  
4 one just below the other, you can see as the Parkway 5 was  
5 producing at a fairly flat rate -- probably a rate real  
6 similar to our decline, five percent per year, by 1995, you  
7 see a tremendous dropoff. They drop from 180 MCF per day  
8 down to, oh, 10 to 20 MCF per day.

9 And at that same period of time, the Parkway West  
10 Unit Number 6 went from a rate of 100 MCF a day up to a  
11 rate of 750 MCF per day.

12 I talked to UMC to find out if they had done  
13 anything different in this well, because the -- according  
14 to *Dwight's* production information, they had the 6 as a  
15 Morrow C sand producer, and the Number 5 was a Morrow B  
16 sand producer.

17 And I talked to UMC, and they informed me that  
18 they recompleted the Number 6 into the B sand at that time.  
19 And as you can see, it had a tremendous effect on the 5.

20 And my contention is, because the drainage radius  
21 of the Number 5 well was probably about into the yellow  
22 portion of that isopach out there, and they were just --  
23 they were producing it out of the thick of the channel from  
24 a long distance off, from basically a half a mile away, and  
25 when the 35 -- or the Number 6 well was recompleted, with

1 it being in the heart of the channel, being into a higher  
2 perm area just due to the fact that you have a lot higher  
3 porosity through the main part of the channel, that the gas  
4 had an easier channel of flow going to that well and  
5 therefore basically cut off the Number 4 well.

6 And I feel like that is exactly what's going to  
7 happen if the KCS Medallion well is drilled 660 feet from  
8 the west line of our -- of Section 16, is that it will have  
9 -- the gas will have a -- the gas that's -- the majority in  
10 Section 17 will have a lot easier flow channel into Section  
11 16, and we'd be foregoing about 2 BCF of reserves when that  
12 happened.

13 Q. Mr. Blount, in your opinion, if Medallion  
14 Resources drilled its proposed well in a legal location, in  
15 your opinion would it produce substantially the same amount  
16 of gas as an unorthodox location that it seeks?

17 A. I believe it would. It may not have as high an  
18 initial production, but I believe it would produce -- it  
19 would be an economic well. It looks like from our isopach  
20 that they would encounter over 20 foot of sand,  
21 approximately 25 foot of sand, and we produce -- You know,  
22 with Mr. Alderks' cutoff of 50 percent, he shows us  
23 producing out of 8 percent. But even without that 50  
24 percent, we only produce out of 25 foot of pay in that  
25 particular well.

1           So I think that 25 foot is substantial for a  
2     producing interval out there. The State 16 Number 1 in the  
3     north half of 16 was an economic well, and it produced out  
4     of 10 feet.

5           Q.     In your opinion, would the drilling of the well  
6     at the unorthodox location drain portions of your lease  
7     covering the south half of Section 17?

8           A.     Absolutely.

9           Q.     Maybe it's conclusionary, but would that be, in  
10    your opinion, some violation of the correlative rights of  
11    Southwest Royalties?

12          A.     Yes, I believe it would.

13          Q.     Would the drilling of the Medallion Resources  
14    well at the proposed unorthodox location result in  
15    substantial financial loss to Southwest Royalties?

16          A.     Yes, it would. We bought this well just last  
17    year, back in January of last year, from Hondo Exploration,  
18    and we paid the equivalent of \$600,000 for our  
19    proportionate share of this well.

20                 And even though this well has produced since 1974  
21    and it may look like it made a lot of reserves, it hasn't  
22    made a lot of reserves for Southwest Royalties.

23                 And we bought this well on an assumption that the  
24    production was going to continue at the current level.

25          Q.     Were Exhibits Numbers 4 through 12 prepared by



1 you or under your direction and supervision?

2 A. Yes, they were.

3 Q. In your opinion, is the information reflected on  
4 those exhibits true and correct?

5 A. Yes.

6 MR. COOTER: We offer Exhibits 4 through 12 Mr.  
7 Stogner.

8 EXAMINER STOGNER: Any objections?

9 MR. BRUCE: No, sir.

10 EXAMINER STOGNER: Exhibits 4 through 12 will be  
11 admitted into evidence.

12 Thank you, Mr. Cooter.

13 Mr. Bruce, your witness.

14 CROSS-EXAMINATION

15 BY MR. BRUCE:

16 Q. Mr. Blount, let's start off with -- I think Mr.  
17 Cooter was referring to your Exhibits 11 and 12, together  
18 with Mr. Alderks' Exhibit 3.

19 A. Uh-huh.

20 Q. Now, looking at Exhibit 3, what we're talking  
21 about is the well in the south half of Section 20 and the  
22 south half of Section 21?

23 A. That's correct.

24 Q. Those wells are what? About a mile and a half  
25 apart?

1 A. That's correct.

2 Q. So you're showing interference effect a mile and  
3 a half apart?

4 A. That's right.

5 Q. Now, your well in the south half of Section 17 is  
6 not even three-quarters of a mile from KCS's acreage, isn't  
7 it?

8 A. That's correct.

9 Q. Doesn't that mean that you're probably already  
10 draining the southwest quarter of Section 16?

11 A. Pressurewise, that's accurate.

12 Q. You talked about the shut-in bottomhole  
13 pressures. What was the Southwest Royalties pressure?

14 A. 4400 pounds.

15 Q. 4400? And then that Union -- or excuse me, that  
16 Burlington well in the north half of Section 17, what was  
17 that pressure?

18 A. 2200 pounds.

19 Q. So it had already declined by half in -- what?  
20 Ten years?

21 A. That's correct.

22 Q. And that well is about -- The distance between  
23 those two wells is about the distance between your well and  
24 the section line between Sections 16 and 17, isn't it?

25 A. That's right.

1 Q. So it seems to me the south half of Section 16  
2 has already been affected adversely.

3 A. Very possibly.

4 Q. Based on that, I mean, you'd prefer not even to  
5 see a well drilled in the south half of Section 16?

6 A. Sure, if that was a choice.

7 Q. Is KCS Medallion entitled to recover its fair  
8 share of reserves under the south half of Section 16?

9 A. Absolutely. And I think they would from an  
10 orthodox location.

11 Q. But you can't tell that until a well is drilled?

12 A. No, sir. But you can't tell me you're not going  
13 to cross their lease line till the well is drilled either.

14 Q. Now, you're talking about Southwest Royalties'  
15 well producing out until the year 2040?

16 A. That's from the decline-curve analysis, that's  
17 correct.

18 Q. Can you point me to any Morrow well in southeast  
19 New Mexico that's produced for 65 years?

20 A. As I pointed out earlier, the majority of those  
21 reserves were recovered in the next 14 years.

22 Q. Let's look at your Exhibits 4, 5 and 6, your  
23 drainage circle maps.

24 A. Uh-huh.

25 Q. Let's take Exhibit 6 first. That's the one with

1 a proposed KCS Medallion well at an orthodox location; is  
2 that correct?

3 A. That's correct.

4 Q. By being at an orthodox location, wouldn't KCS's  
5 well be more affected by drainage from the 16 Number 1 well  
6 in the north half of Section 16?

7 A. Only marginally.

8 Q. But it would be affected?

9 A. Possibly.

10 Q. Your maps show it, doesn't it?

11 A. Uh-huh, it's closer to the circle.

12 Q. Now, looking at -- Well, let's look at Exhibit 4,  
13 same basic map. Now, you show Southwest Royalties -- In  
14 effect, you're showing radial drainage?

15 A. That's correct.

16 Q. Now, there is a dry hole in the Morrow directly  
17 south of Southwest Royalties' well about, as far as I can  
18 tell, 1320 feet south of the Southwest Royalties well, yet  
19 you show that you're draining that area.

20 A. You see a zero line coming over, pulling towards  
21 that well.

22 Q. Well, if that well is a dry hole would you be  
23 draining anything from that very northern part of Section  
24 20?

25 A. Very possibly. And the reason is that they may

1 have had two or three feet in that particular well that  
2 they shot and elected not to shoot that. Two or three feet  
3 may not have been an economic well for them.

4 Q. Would the --

5 A. The amount of gas coming from between the zero  
6 line and the 10 line is very minute in comparison to the  
7 gas coming from the red area on the map.

8 Q. Okay, so most of your production, then, would  
9 come from that red and dark yellow area?

10 A. Sure.

11 Q. That's the heart of the acreage?

12 A. That's correct.

13 Q. Or I should say the heart of the reservoir?

14 A. That's correct.

15 Q. Probably has better permeability?

16 A. I would say so.

17 Q. Wouldn't drainage be preferable from the east, as  
18 opposed to just radial drainage from all directions?

19 A. From the east?

20 Q. Wouldn't you be draining more reserves from the  
21 east -- In other words, wouldn't this be more of an oblong  
22 drainage, rather than a radial drainage?

23 A. Possibly. I mean, when you're looking at  
24 percentage of gas drained that is possibly the case. I  
25 wouldn't say definitely the case.

1 Q. But it's probably the case?

2 A. Possibly.

3 Q. I think I really only have one final question. I  
4 think I heard you say that regardless of the location of  
5 KCS Medallion's well, the drainage would be more along the  
6 trend of the reservoir, wouldn't it?

7 A. Yes.

8 Q. So more of northwest-southeast, and therefore  
9 that would lessen any effect, if at all, on Southwest  
10 Royalties, would it not?

11 A. Oh, no, they would still cross that lease line a  
12 lot sooner than they would from a conventional location.

13 Q. But that would lessen the effect, wouldn't it?

14 A. It would lessen -- I don't understand your  
15 question. It would lessen the effect on what? On -- The  
16 effect on us? I think I've already shown that if a well is  
17 drilled into the -- basically the heart of the reservoir,  
18 that it would have a tremendous effect on us, on any future  
19 reserves. And standard decline curve analysis shows that  
20 there's at least 2 BCF of reserves left.

21 Q. And you've probably also pressure-depleted the  
22 southwest quarter of Section 16?

23 A. That's very possible. I mean, you don't have a  
24 uniform circle drainage. I mean, you have an effect of a  
25 funnel with a pressure sink in the middle. I mean, you're

1 going to have pressure communication a lot further out than  
2 you have total depletion.

3 MR. BRUCE: Thank you, Mr. Blount. That's all I  
4 have.

5 EXAMINATION

6 BY EXAMINER STOGNER:

7 Q. Mr. Blount, as far as Section 16 goes, there's  
8 not a Morrow well there now; is that correct?

9 A. That is correct. Yes, that's correct. There's  
10 no producers in that Section 16.

11 Q. And this is unorthodox only if you're drilling a  
12 laydown proration unit as far as 660 foot off of the west  
13 line of the section that's common between you and them. If  
14 this was a standup unit --

15 A. That's right.

16 Q. -- it would be standard, wouldn't that be right?

17 A. If they went 660 and 1980 from the south, it  
18 would be standard.

19 Q. How about 1650?

20 A. Or even 1650, that's correct.

21 Q. We wouldn't be here today?

22 A. That's correct.

23 Q. There's been some advocates, operators and in  
24 government to change this to 660-660, would be a standard.  
25 I assume that you probably would agree to that?

1           A.    If that was the law, sir, I couldn't do anything  
2    about that.  If that was the law, I would be proposing my  
3    own 660 from the south and west line to protect the rest of  
4    my reserves.

5           Q.    Okay, so you wouldn't be in here either to  
6    support it or deny it if it came to a rulemaking; would  
7    that be --

8           A.    That's correct.

9           Q.    Is that what I'm hearing you say?

10          A.    That's correct.

11          Q.    Then what kind of a penalty would you propose  
12    that I put on this well, since it being -- crowding your  
13    line for a laydown proration unit?  Do you have any --

14          A.    Well, if I knew the exact effect of what it would  
15    do to my well, I could come up with an actual dollar value.  
16    But I mean, I actually predict that when this well is  
17    drilled in an unorthodox location and perforated in the  
18    Morrow B, that our well would be dead within a month.

19          Q.    And if it was a standup proration unit, yours  
20    would still be dead in a month?

21          A.    It possibly could be, although if it's a standup  
22    we would be producing out of the tail end of that red  
23    portion a lot quicker -- or before their particular well  
24    would be.  They would be affecting more the area between  
25    all four of the circles, up there by the northeast corner



1 of our acreage.

2 Q. Well, if they proposed an unorthodox location for  
3 a standup, you wouldn't have been notified, would you?

4 A. If they would have -- Yes, sir, we would have.  
5 We would have been -- Well, no, I don't know that. I don't  
6 know that for sure. Is that the rule?

7 Q. Okay, now your well drainage radiuses -- that's  
8 4, 5 and 6 --

9 A. Uh-huh.

10 Q. -- that's not necessarily -- You're not showing  
11 the pressure drop, you're showing the effect of the actual  
12 production being affected or actual movement of production;  
13 is that what the --

14 A. Yes, sir, I mean, this is --

15 Q. -- particular exhibit is showing?

16 A. Yeah, this is an estimation based on volumetric  
17 calculations. We could have built the reservoir model and  
18 paid some consultant to build us a modeling of it and  
19 showing the pressure effects throughout it, but that would  
20 have cost us several thousand dollars to do.

21 And basically what we're trying to show is that  
22 volumetrically we still have reserves in our acreage that  
23 haven't been produced. And this is assuming an abandonment  
24 pressure of 800 pounds.

25 EXAMINER STOGNER: Anything further of this

1 witness?

2 MR. BRUCE: I have nothing further, Mr. Examiner.

3 EXAMINER STOGNER: You may be excused.

4 MR. COOTER: I did offer the last exhibits, 4  
5 through 12?

6 EXAMINER STOGNER: Yes, you did.

7 MR. COOTER: That concludes our...

8 EXAMINER STOGNER: Okay, is there anything  
9 further, Mr. Bruce, from your side?

10 MR. BRUCE: I have nothing further to present.

11 EXAMINER STOGNER: Okay, is there any need for  
12 closing arguments?

13 MR. BRUCE: I'll waive it if Mr. Cooter will.

14 MR. COOTER: (Nods)

15 EXAMINER STOGNER: Can I get rough draft orders  
16 from the both of you?

17 Since there's nothing further in Case Number  
18 11,925, this matter will be taken under advisement.

19 And let's take a lunch recess until -- We'll  
20 reconvene at 1:15. 1:15.

21 (Thereupon, these proceedings were concluded at  
22 12:20 p.m.)

23 I do hereby certify that the foregoing is  
24 a complete record of the proceedings in  
25 the Examiner hearing of Case No. 11925.  
negro by me *[Signature]* February 1998.  
*[Signature]*, Examiner  
Oil Conservation Division

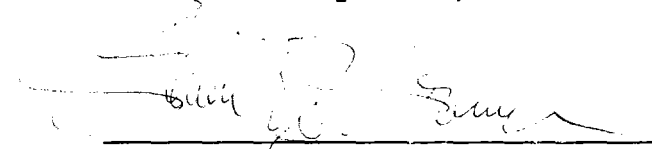
CERTIFICATE OF REPORTER

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

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

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

WITNESS MY HAND AND SEAL February 22nd, 1998.

  
 STEVEN T. BRENNER  
 CCR No. 7

My commission expires: October 14, 1998