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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. 10,280

In the matter of Case No. 10,280
being reopened pursuant to the
provisions of Division Order No.
R-9594, which order promulgated
temporary special rules and
regulations for the Milnesand-Abo
Pool in Lea and Roosevelt Counties,
New Mexico, including a provision
for 80-acre spacing.

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: Michael E. Stogner, Hearing Examiner

October 21, 1993

Santa Fe, New Mexico

This matter came on for hearing before the Oil
Conservation Division on Thursday, October 21, 1991, at
Morgan Hall, State Land Office Building, 310 Old Santa Fe
Trail, Santa Fe, New Mexico, before Steven T. Brenner,
Certified Court Reporter No. 7 for the State of New Mexico.

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I N D E X

October 21, 1993
Examiner Hearing
CASE NO. 10,280

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APPEARANCES

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GLEN C. LUFF

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* * *

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FOR THE APPLICANT:

CAMPBELL, CARR, BERGE & SHERIDAN, P.A.
Attorneys at Law
By: WILLIAM F. CARR
Suite 1 - 110 N. Guadalupe
P.O. Box 2208
Santa Fe, New Mexico 87504-2208

* * *

1 WHEREUPON, the following proceedings were had at
2 8:19 a.m.:

3 EXAMINER STOGNER: Today's hearing will come to
4 order for Docket Number 31-93. Note today's date, October
5 21st, 1993.

6 I'm Michael Stogner, appointed Hearing Examiner
7 for today's cases.

8 At this time I'll call Case Number 10,280, which
9 is In the matter of said case being reopened pursuant to
10 the provisions of Division Order Number R-9594, which Order
11 promulgated temporary special rules and regulations for the
12 Milnesand-Abo Pool in Lea and Roosevelt Counties, New
13 Mexico.

14 At this time I'll call for any appearances.

15 MR. CARR: May it please the Examiner, my name is
16 William F. Carr with the Santa Fe law firm, Campbell, Carr,
17 Berge and Sheridan.

18 We represent Petroleum Production Management,
19 Inc., in this matter, and I have one witness.

20 EXAMINER STOGNER: Are there any other
21 appearances?

22 Will the witness please stand at this time to be
23 sworn?

24 (Thereupon, the witness was sworn.)

25 EXAMINER STOGNER: Thank you, sir.

1 Mr. Carr?

2 GLEN C. LUFF,

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

5 DIRECT EXAMINATION

6 BY MR. CARR:

7 Q. Would you state your name for the record, please?

8 A. My name is Glen C. Luff. I live in Midland,
9 Texas.

10 Q. And by whom are you employed?

11 A. Currently I'm self-employed as a consulting
12 geologist but, as concerns this case by Petroleum
13 Production Management, Incorporated.

14 Q. And in what discipline are you a consultant?
15 Petroleum geology?

16 A. Petroleum geology, yes, sir.

17 Q. Have you previously testified before the Oil
18 Conservation Division?

19 A. No.

20 Q. Could you summarize your educational background
21 and then briefly review your work experience for Mr.
22 Stogner?

23 A. I attended the University of Oklahoma, received a
24 bachelor of science and a master of science degree in
25 geology in 1951 and 1957.

1 I worked for Atlantic Richfield Company for 22
2 years, principally in Roswell and Midland, Texas; AGL, an
3 independent oil producer; Ammon Oil Company; and Coastal
4 Oil and Gas.

5 Since 1988 I've been self-employed, and I have
6 around 37 years experience in the petroleum industry.

7 The last 33 years were primarily in the Permian
8 Basin. And of that, around 30 years working the geology in
9 southeast New Mexico.

10 Q. In all these various roles you have been employed
11 as a geologist?

12 A. Yes, sir.

13 Q. Are you familiar with the Application that was
14 originally filed in this case?

15 A. Yes, I am.

16 Q. And have you made a geological study of the area
17 surrounding the Milnesand-Abo Pool?

18 A. Yes, I've studied the area. In fact, I've done
19 the geological work for Petroleum Production Management and
20 also watched the two wells that they have in this pool
21 during their drilling.

22 MR. CARR: Mr. Stogner, we would tender Mr. Luff
23 as an expert witness in petroleum geology.

24 EXAMINER STOGNER: Mr. Luff is so qualified.

25 Q. (By Mr. Carr) Mr. Luff, would you briefly state

1 what Petroleum Production Management, Inc., seeks in this
2 case?

3 A. We ask for adoption of the permanent special
4 rules for the Milnesand-Abo Pool that provide for 80-acre
5 spacing in the proration units.

6 Q. In the original case, Petroleum Production
7 Management, Inc., was not the Applicant, were they?

8 A. No, sir.

9 Q. The Applicant was Knox Industries?

10 A. Knox Industries.

11 Q. Have you prepared certain exhibits for
12 presentation in this hearing?

13 A. Yes, I have.

14 Q. Could you identify for Mr. Stogner what has been
15 marked as Petroleum Management Exhibit Number 1 and then
16 review the information on this exhibit for him?

17 A. Exhibit 1 is a plat outlining the OCD pool
18 boundary as defined by the temporary rules two years ago.
19 This plat has been updated to show the current producing
20 wells in the field and also to correct some errors in the
21 posting of wells.

22 On this plat, all of the wells shown, with the
23 exception of one in the northwest of the southeast of
24 Section 34, Township 8 South, 35 East, have penetrated the
25 Abo formation.

1 The information shown on this plat today is
2 correct as it exists.

3 It's interesting to note that the pool outline
4 crosses the county line between Lea and Roosevelt County.
5 Part of the acreage is in Township 8 South, Range 35 East,
6 in Roosevelt County, and part in Township 9 South, Range 35
7 East, of Lea County.

8 Q. How many wells have been drilled since the
9 original hearing?

10 A. There's one well, the BTA Willo Number 1, which
11 is in the southeast, southeast of Section 33.

12 Q. Now, this is basically the same exhibit that was
13 presented in the original hearing for special pool rules;
14 is that correct?

15 A. That's true.

16 Q. And what you have done is taken this and
17 corrected it so that it accurately reflects the development
18 in the pool as it stands today?

19 A. That's true.

20 Q. All right, let's move to the next exhibit. But
21 before we do, could you briefly provide Mr. Stogner with a
22 general history of this pool?

23 A. The pool was originally discovered by the
24 Williamson Number 2 Mobile Federal in the northeast,
25 northeast of Section 33. This well was drilled in 1963 but

1 plugged back in 1965 to complete in the Abo formation. It
2 produced around 5600 barrels of oil and was P-and-A'd in
3 1967.

4 PPMI rediscovered the Abo with the completion of
5 the well number 3 in August of 1990. That well is located
6 in the southeast of the southwest of Section 34.

7 Knox, in parentheses, Purvis, completed the 3C
8 Federal well, which is located in the northeast of the
9 northwest of Section 3 in October of 1990.

10 And then PPMI drilled the Number 4 well in
11 November of 1990, and that well is located in the northwest
12 of the southeast of Section 34.

13 The temporary field rules with Order Number
14 R-9594 were established in October of 1991, set up
15 80-acre spacing.

16 And with the exception of the production history,
17 very little additional information has been obtained since
18 the temporary rules were adopted.

19 Q. BTA has drilled their Willo Number 1, they did
20 that in 1992, did they not?

21 A. In March of 1993.

22 Q. And that's the only additional well that's been
23 drilled?

24 A. That's true.

25 Q. This exhibit also contains a trace for a

1 subsequent cross-section that you will be presenting; is
2 that correct?

3 A. Exhibit 2 does, yes.

4 Q. Yes. Let's go now to Exhibit Number 2, and let's
5 review that.

6 A. Exhibit 2 is similar to the exhibit that was
7 presented in September of 1991. It is a combination
8 isopach/structure map of the lower Abo porosity.

9 The structure, as shown, is basically a
10 monoclinal dip to the southeast with a very low relief
11 flattening in the area of Section 34.

12 The isopach shows the isopach of Abo porosity
13 with approximately a 10-percent cutoff. And you can see
14 that there's a thickening centered around the Knox well and
15 the PPMI Well Number 3 well.

16 The trace for the cross-section which will be
17 shown later is marked as line B-B'.

18 EXAMINER STOGNER: Excuse me just a second.

19 (Off the record)

20 EXAMINER STOGNER: All right, thank you.

21 Q. (By Mr. Carr) All right, Mr. Luff, let's go to
22 Exhibit Number 3. Could you just identify this exhibit?

23 A. Exhibit Number 3 is an ownership plat of the
24 area. The OCD boundary outline is marked in yellow.

25 It shows the principal operators or owners of

1 acreage in this area, which are PPMI, BTA, Knox and Purvis,
2 which are considered one entity in here. And Yates -- Some
3 of the acreage that is listed as M.L.Brown is under PPMI.

4 Q. All right. Let's move to Exhibit Number 4. This
5 is your cross-section. Could you first identify this
6 exhibit and then review it for the Examiner?

7 A. The cross-section is a new exhibit which I've
8 constructed using the new logs on the four wells that are
9 currently producing in the Milnesand-Abo field, and it
10 depicts the producing zone, and you can see that it's made
11 up of thin-bedded porous streaks within that interval. The
12 main zones appear to be continuous throughout all four
13 wells.

14 The original exhibit was made up of old logs on
15 wells that were drilled in 19- -- late 1950s to 1960s. And
16 the logs at that time were not the quality that we have
17 today.

18 Q. Could you generally describe the nature of this
19 formation for the Examiner?

20 A. This is -- Unlike the Abo in other parts of
21 southeast New Mexico, it's a thin-bedded detrital zone that
22 rests on top of the Wolfcamp formation. The Abo in other
23 parts of the state are the sands at the Pecos slope and the
24 Abo reef trend, but this is a different formation.

25 Q. All right, let's go to Exhibit Number 5. Would

1 you identify that, please, and then review it?

2 A. Exhibit 5 is a listing of the production of the
3 four wells that are currently producing in the field, month
4 by month from the date of inception through August of this
5 year.

6 I've listed also the initial potential and some
7 of the data that was reported at the time they were
8 completed and the dates of completion.

9 As you can see, the BTA well is -- I have data
10 only for six months.

11 The Knox well listed underneath that was
12 completed in October and has, as you can see, has declined
13 quite steadily through August of this year.

14 The best well in the field is the PPMI Well
15 Number 3, which was completed in August of 1990 and still
16 held up reasonably well through this year.

17 The Well Number 4 was not quite as good as the
18 Number 3, but it has also declined and is quite similar to
19 the Knox well, except that in the latter part of 1992, when
20 the Abo production was declining, they perforated the Bough
21 "C" and commingled that test.

22 Q. All right. Let's go to Exhibit Number 6. Could
23 you identify this?

24 A. Exhibit 6 is a graphic presentation of the data
25 from Exhibit 5, and it's showing a plot of the production

1 of those four wells.

2 The interesting thing is that they are showing a
3 steady declining and are tending to flatten out from the
4 data that we have.

5 The other important point on this graph is that
6 the Well Number 3 well started out initially at a much
7 higher rate than the other three wells did.

8 Q. All right. Let's go to Exhibit 18. What is
9 this?

10 I'm sorry, Exhibit 7.

11 A. Exhibit 7 is the exhibit that was presented two
12 years ago, wherein the calculations were made by volumetric
13 and pressure to come up with the reserve calculations for
14 the wells. And I have no doubt about these. I think these
15 calculations are accurate.

16 Q. They would be appropriate for use in this hearing
17 today?

18 A. Yes.

19 Q. And the ultimate recovery figures for the wells
20 in this pool are, in your opinion, also correct and
21 accurate and still applicable?

22 A. Yes. Some are in the range of 130,000 barrels
23 per well.

24 Q. This exhibit was presented in the prior hearing?

25 A. That's true.

1 Q. Was Exhibit 8 also presented in the 1991 hearing?

2 A. Yes, Exhibit 8 is a projection, a plot of
3 production of the Knox 3C and a projection on a steady
4 decline, with an eight percent rate of decline to
5 abandonment.

6 This curve appears to be an accurate portrayal of
7 what will happen.

8 Q. And how does this curve compare with the curves
9 that you have presented in your Exhibit Number 6?

10 A. The curves in Exhibit 6, we do not have a full
11 range as we show on this Exhibit 8. But what we do have
12 approximates the initial part of the curves as depicted on
13 8, and I feel very certain that with time these curves will
14 exhibit the same form that we have on the -- as presented
15 here on Exhibit 8.

16 Q. Okay, what is Exhibit Number 9?

17 A. Exhibit 9 is a remake of the exhibit that was
18 turned in two years ago, except I have recalculated the
19 profit-to-investment ratios based on more up-to-date costs
20 per well.

21 At the bottom of the page are the costs that were
22 given to me by the operators of the four wells that were
23 drilled, and I have used in this case \$650,000 as a cost
24 for an Abo test to drill and complete, versus the \$510,000
25 that was used two years ago.

1 There is a comparison here between 80-acre
2 spacing, the economics of 80-acre spacing as to 40-acre
3 spacing, and you can see that the profit-to-investment
4 ratio on the 80-acre spacing is low at 1.27, which can
5 still be made if the price of crude stays up.

6 However, on 40-acre spacing the profit-to-
7 investment ratio is barely above zero.

8 Q. Based on this, is it fair to say that on 40-acre
9 spacing it simply isn't economical to develop this
10 reservoir?

11 A. No, I don't think it can be. I think it's very
12 economical on the 80-acre spacing, depending upon the rate
13 of production, and certainly would not be on 40 acres.

14 Q. Have the four wells in this pool reached pay-out?

15 A. The information from the operators say that only
16 one well has reached payout, and the three others have not.

17 The PPMI well had very flush production in the
18 first six months and paid out in seven months.

19 The PPMI Number 4 well, which was drilled in
20 November of 1990, will not pay out for another seven to
21 eight months, and that is with the commingled production of
22 the Bough "C".

23 The Knox well, which was drilled in October of
24 1990, they say, will not pay out for about another six
25 months, which will give you a total payout of around three

1 and a half years.

2 And the data that we have on the BTA well,
3 they're saying that it may not ever pay out.

4 Q. All right. Let's go to Exhibit Number 10. Could
5 you identify this and explain it to the Examiner?

6 A. Exhibit 10 is a plot of the monthly average crude
7 oil price summary for New Mexico intermediate posting, and
8 this is from June of 1990 through September of 1993.

9 And the point of this is that the PPMI well was
10 at this peak where oil ranged from 25 to 34 barrels -- \$34
11 per barrel, which was the Iraq crisis, and since then has
12 dropped down. So their payout was due to unusual
13 circumstances of high rate of production, plus a high price
14 for crude.

15 Q. And that's the PPMI Number 3 well?

16 A. Number 3 well, yes.

17 Q. That's the only well that has paid out --

18 A. That's true.

19 Q. -- at this time.

20 So basically what we're looking at is a field in
21 which we need the special pool rules for economic reasons?

22 A. That's true.

23 Q. Could you identify what has been marked as
24 Exhibit Number 11?

25 A. Exhibit 11 is letters from the two other current

1 operators or producers in the area, one from Knox
2 Industries supporting our testimony today, and the second
3 is from the BTA to the same effect.

4 Q. Mr. Luff, in your opinion will additional wells
5 be drilled in this pool if 80-acre spacing is adopted on a
6 permanent basis?

7 A. Well, to go back to Exhibits 1 or 2, there is a
8 location staked in the northeast of the southwest of
9 Section 3 by Purvis, and Knox has an interest in that.
10 This well is to be drilled, they say, by the end of the
11 year.

12 PPMI and BTA have discussions going on as to
13 drilling other wells in the area, in the range, probably
14 three to four wells.

15 Q. In your opinion, would these wells be drilled if
16 the spacing of the pool reverts to 40 acres?

17 A. In my opinion, no, I don't think so, because I
18 think it -- They won't be able to get the return on their
19 investment. And certainly the operators would go back and
20 review their economics if you do have 40-acre spacing.

21 Q. Does Petroleum Production Management, Inc.,
22 request that rules be established for this pool, including
23 80-acre spacing on a permanent basis?

24 A. Yes, they do.

25 Q. In your opinion, if those rules are adopted will

1 it be in the best interest of conservation, the prevention
2 of waste, and the protection of correlative rights?

3 A. Yes, I think it will.

4 Q. If the rules are adopted on a permanent basis, do
5 you believe additional development will occur in the pool
6 that otherwise would not take place?

7 A. Yes, sir.

8 Q. Were Exhibits 1 through 11 prepared by you or
9 compiled under your supervision?

10 A. Yes, sir.

11 MR. CARR: At this time, Mr. Stogner, we move the
12 introduction of Petroleum Production Management, Inc,"s
13 Exhibits 1 through 11.

14 EXAMINER STOGNER: Exhibits 1 through 11 will be
15 admitted into evidence.

16 MR. CARR: And that concludes my direct
17 examination of Mr. Luff.

18 EXAMINATION

19 BY EXAMINER STOGNER:

20 Q. Mr. Luff, in looking at the original order -- I
21 wasn't a hearing examiner then, but there was a finding in
22 there that evidence available indicates that the Number 2
23 well was capable of draining an area in excess of 40 acres.

24 Let's talk about the capability of these wells
25 draining more than 40 and up to 80 adequately, and I'm

1 assuming that's what your Exhibit Number 7 is trying to
2 show me today?

3 A. Let me get the right exhibit.

4 Q. I'm not clear just where we're going with the
5 drainage on this.

6 A. Yes. Well, I think if you go back to the cross-
7 section -- And that was one of the purposes of the cross-
8 section, which was Exhibit 6, was that in trying to
9 identify the zones -- and they appear to be in all wells;
10 they're certainly not the same thickness, but they appear
11 to be continuous over the area that I have mapped -- it is
12 difficult to map beyond what we have today because of the
13 old logs that we have, and sometimes you really don't see
14 this zone on there. In many cases the operators did not
15 even log this interval.

16 To back up a little bit on the history, the wells
17 in this area were drilled for the Bough "C", and they were
18 drilled quite rapidly, and the operators did not look at
19 the Abo zone. And since those wells have been plugged out,
20 we're currently going back and looking for behind-pipe
21 reserves, and that's how we got into this.

22 I do think, though, that the zone, as shown on
23 Exhibit 2 of the map, does cover the area. Certainly it's
24 not going to be the same quality in all wells.

25 And one of the problems we have is with the

1 permeability, which is, as you know, a hard factor to
2 determine.

3 Certainly we must have had greater permeability
4 in the Well Number 3 than we did in the other three wells.
5 But they -- It flowed at a higher production rate than the
6 other three wells did initially.

7 Q. Do you know, or have you seen any indication that
8 any kind of -- I don't want to say breakthrough, but
9 indication of the Knox Number 2 well and your Number 3
10 well, any indication of communications?

11 A. No, sir.

12 Q. The reason I say that, I mean, those are the two
13 closest wells.

14 A. Yes.

15 Q. I'm still going back to the drainage. I just
16 don't see that these wells are adequately draining 80-
17 acres. That's -- as was founded in the original order.

18 Do you have anything to substantiate that today
19 or help me out on that?

20 A. No, there were no pressures taken by any of the
21 operators, you know, since -- initially or since then, so I
22 have nothing to back up that there is any local limits to
23 this thing or they would drain more or less than we have
24 today.

25 And I think it's primarily going back to the cost

1 of drilling the wells, you know, on that -- 40-acre
2 spacing, would be quite high for the return you get.

3 Q. Of these four wells out there, they do presently
4 have 80-acres dedicated to them?

5 A. Yes, sir.

6 Q. Okay. What would happen at this particular time
7 if these wells are producing and even planned on some
8 additional wells, away from this general area? You said,
9 down to the southwest quarter; is that correct? The
10 proposed well?

11 A. Yes.

12 Q. And that's that --

13 A. If we can go to Exhibit 3, I'll point out the 80-
14 acre tracts that are dedicated to each well.

15 Q. Okay.

16 A. In Section 33, the BTA well is in a laydown 80-
17 acres covering the south half of the southeast.

18 In Section 34 the Well Number 3 is a laydown 80
19 covering the south half of the southwest. And the Well
20 Number 4 is a laydown 80 covering the north half of the
21 southeast.

22 The Knox well in Section 3 is a standup covering
23 the east half of the northwest. And I'm not sure how
24 Purvis has dedicated his well in the southwest quarter of
25 Section 3, but I would imagine it's going to be standup

1 also.

2 So this still leaves some, you know, spacing in
3 between on undrilled 80s at this time. But some of this
4 has been due to who owns the rights and how that's going to
5 be determined between -- For instance, in Section 34,
6 between PPMI and BTA.

7 Q. Are you referring to that Number 4 well?

8 A. Well, I'm referring to -- At this time, there is
9 not a well on the north half of the southwest or on the
10 south half of the southeast.

11 Q. Okay.

12 A. Which I think probably will be drilled, but it
13 depends on negotiations and so on. That still is to be
14 determined.

15 And as you can see, the Purvis lease in Section 3
16 is due to expire on December 1st of this year. So future
17 development of that, I guess, will depend on the results of
18 their test.

19 Q. If this well was to be developed from here on out
20 on 40-acre spacing, what would happen to the present 80-
21 acre proration units if they were to be cut in half? Would
22 there be any -- How would you say? -- deletion of interest
23 owners or of parties being -- that are now presently
24 benefitting from production? Or are they all on one lease?

25 A. No, I don't think there would be any reduction in

1 that. However, I'm just not sure there'd ever be any more
2 development on 40 acres as -- versus the 80 acres, because
3 of the cost factor.

4 EXAMINER STOGNER: Mr. Carr, do you have any
5 other questions?

6 MR. CARR: I don't believe so, Mr. Stogner.

7 EXAMINER STOGNER: Mr. Carr, help me out just a
8 little bit here. I'm not asking you to be a witness or
9 anything, but do you -- Can you recall any previous
10 establishment of 80 acres on economics alone?

11 MR. CARR: No, and in the prior case there was
12 some testimony about the number of acres or the volume that
13 each of these wells might be able to drill. We simply
14 don't have any data, Mr. Stogner, to bring this matter
15 forward. We took this matter over from Knox just in the
16 last few weeks.

17 The only thought that I have is that since there
18 are several additional wells that we anticipate will be
19 drilled, that it puts all of us, us as well as you, in an
20 awkward position, trying to reach these ultimate findings
21 on drainage without any pressure information or anything of
22 that nature.

23 Operators are hoping to go forward with the
24 additional development. It might be prudent to continue
25 temporary rules for an additional one-year period of time

1 with the direction that this kind of pressure information
2 be obtained.

3 Other than that, I mean, you're having,
4 obviously, today, Mr. Stogner, the same problem we've been
5 having with the case, trying to prepare it and bring it to
6 you. There is a potential here to drill additional wells,
7 but if the rules do go back to 40, the operators are
8 frankly concerned that it isn't economic.

9 And that is -- I think it might be helpful to
10 incorporate the record -- although I assume that it is
11 since it's a re-opened case -- of the prior hearing,
12 because in that case they did present the best information
13 available on the limited data that exists on this pool.

14 EXAMINER STOGNER: Other than the question of
15 purely economics or economics being the main factor, then
16 you would suggest either a one- or two-year continuation of
17 the temporary?

18 MR. CARR: Yes, sir, with the direction that as
19 this additional development does go forward, that certain
20 pressure information be obtained.

21 EXAMINER STOGNER: Okay. With that, I don't have
22 any other questions of Mr. Luff. If there's nothing else
23 further at this time --

24 MR. CARR: We have nothing further in this case.

25 EXAMINER STOGNER: -- then I will take the re-

1 opened Case 10,280 under advisement.

2 Mr. Carr, could you provide me a rough draft --

3 MR. CARR: Yes, sir, I will.

4 EXAMINER STOGNER: -- on this particular Order?

5 MR. CARR: My pleasure.

6 (Thereupon, these proceedings were concluded at

7 8:50 a.m.)

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NEW MEXICO OIL CONSERVATION COMMISSION
 EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date OCTOBER 21, 1993 Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION
Maurice Trimmer	Byram	SF
Steve Brewer	Cumbre Court Reporting	SF
Bice Seeger	PPMI	Midland
Alan Luff	PPMI	midland
William F. Cook	Tampabay, Jan, Dug & Skanda	Santa Fe
Art L. Brown	Phillips & Sayer	Santa Fe
W. J. ...	Phillips Petroleum	Santa Fe
Ken Schmitt	Humble Law Firm	Odessa
James Bruce		Santa Fe

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date OCTOBER 21, 1993 Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION