

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date MAY 8, 1985 Time: 8:00 A.M.

NAME	REPRESENTING	LOCATION
Karen Aubrey	Kellahan + Kellahan	Santa Fe
C J Boyce	Amoco	Donner
W. J. Kellahan	Kellahan + Kellahan	Santa Fe
William J. Carr	Campbell and Beck	Santa Fe
Bub Hahn	Byram	Santa Fe
W. B. McCoy	Lumpert	Santa Fe
Jan Bruce	Hinkle Law Firm	Santa Fe
J. P. Bobe Keedrick	El Paso Natural Gas	El Paso
Sandy Fess	Northwest Pipeline	Farmington
E. Marcum	Mediam Oil	"
Z. Clary	OCD	Oster
Bill Seltzer	Amerind	Midland
Lonna White	V-F Petroleum	Midland
V.F. Vasick	" "	"
Bob Leibrock	Amerind Oil Co.	"

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NAME	REPRESENTING	LOCATION
NEWTON L. LANG	APACHE CORP.	HOUSTON, TX
DICK BRUNNER	Apache Corp	Denver Colo.
HAREN BALL	Apache Corp.	Denver
STEVEN R. FOY	Craig Corp	Midland
WAYNE R. HILSON	Earle M Craig Corp	Midland, TX
DAVE JAVENART	Earl M. Craig Corp	Santa Fe, NM
PATRICIA WIDEN	Southern Royalty Co	Midland, TX
DON DAVIS	SRC	Midland TX
JIMMY LUTTS	OCID	Hobbs.
MARSHA BUTLER	Kellakin & Kellakin	Santa Fe, N. M.
Red Dan	Coves Co	MIDLAND,
MARK J. COSTELLO	GULF OIL	HOUSTON, TX.
Bill LeMay	Don Link	Santa Fe
TOMMY SANDERS	Gas Co of NM	ALBUQUERQUE
Joel Levine	Gas Company of NM	AIB
Alman & Jensen	El Paso Natural Gas	El Paso

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO

8 May 1985

EXAMINER HEARING

IN THE MATTER OF:

The hearing called by the Oil Conservation Division on its own motion for rescission of Division Order R-333, as amended, for the San Juan Basin in San Juan, Sandoval, and Rio Arriba Counties, New Mexico.

CASE
8586

BEFORE: Gilbert P. Quintana, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Jeff Taylor
Attorney at Law
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

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I N D E X

HAROLD L. KENDRICK

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MR. QUINTANA: We'll call next the last, but not least, Case 8586.

MR. TAYLOR: In the matter of the hearing called by the Oil Conservation Division on its own motion for rescision of Division Order No. R-333, as amended, and for recodification, amendment, and issuance of the gas well test requirements, as contained therein, for the San Juan Basin Area, in San Juan, Sandoval, Rio Arriba, and McKinley Counties, New Mexico.

MR. QUINTANA: Are there appearances in this matter?

MR. TAYLOR: Mr. Examiner, my name is Jeff Taylor and I'm appearing on behalf of the Oil Conservation Commission and I have one expert witness.

MR. QUINTANA: Are there other appearances?

If not, would the witness please stand up and be sworn in at this time?

(Witness sworn.)

MR. QUINTANA: You may proceed.

1 HAROLD L. KENDRICK,
2 being called as a witness and being duly sworn upon his
3 oath, testified as follows, to-wit:

4
5 DIRECT EXAMINATION

6 BY MR. TAYLOR:

7 Q Would you please state your name, by whom
8 you're employed, and in what capacity?

9 A I'm Harold L. Kendrick, employed by El
10 Paso Natural Gas Company as a Conservation Engineer.

11 Q And in what capacity are you testifying
12 today?

13 A Today I'm to testify as the Chairman of
14 the Deliverability Test Committee of the New Mexico Oil Con-
15 servation Division for Northwest New Mexico.

16 Q And have you previously testified before
17 the committee or its Examiners and had your expert qualifi-
18 cations accepted?

19 A Yes, sir.

20 MR. TAYLOR: Mr. Examiner, are
21 the witness' qualifications acceptable?

22 MR. QUINTANA: They are.

23 Q You say you served as a member of the New
24 Mexico Oil Conservation Deliverability Test Committee?

25 A Yes, sir.

1 Q Has the committee reached an agreement on
2 what to propose as a new testing order for gas wells in the
3 San Juan Basin Area of northwestern New Mexico?

4 A I believe we have.

5 Q And it is your purpose to present that
6 data at this time?

7 A Yes, sir.

8 Q Would you state -- first of all, could
9 you briefly state the purpose that the committee was formed
10 and how it went about its duties?

11 A The committee was formed or was called to
12 order in January, 1984, by the fact that deliverability as
13 one of the elements that is used in proration in the four
14 prorated gas pools in the San Juan Basin of New Mexico, we
15 felt it was time to update some of the things that presently
16 exist in Order R-333, and its many amendments; to update it
17 and clarify, be more modern with its use, would be better
18 for the industry to follow in that area, and the Proration
19 Committee that is working at this same time might have prob-
20 lems with some of the things that exist in the deliverabil-
21 ity portion of it.

22 Not that the two are in conflict. It's a
23 matter of clarifying the interest throughout the state.

24 Q Would you state the major changes that
25 the committee proposes to be made to the existing Order R-

1 333, as amended, to provide a new testing order for the
2 northwestern part of the state?

3 A Yes, sir. We have as Exhibit One a
4 write-up of a proposed testing order that consists of some
5 thirteen pages, and the first page, appended to the top of
6 that is a list of some of the major changes, or what was
7 written as the major changes to the proposed existing Order
8 R-333, as amended.

9 Q Excuse me, that should be Exhibit A.

10 A Exhibit A, fine, thank you.

11 Q And will you -- you want to briefly sum-
12 marize these changes?

13 A Yes, I would like to go through that por-
14 tion of that and make a few comments about these changes and
15 a few other changes that should be noted for the record.

16 The first two items listed, Items 1 and
17 2, are deliverability tests are required for wells in pro-
18 rated pools on a biennial basis.

19 And number two, shut-in pressures are re-
20 quired for wells in nonprorated pools on a biennial basis.

21 The situation as we have developed it in
22 this proposed order is that wells in nonprorated pools will
23 not be required to be tested with a deliverability test.
24 Only wells in prorated pools will be required deliverability
25 tests, but with the nonprorated pools, all wells in nonpro-

1 rated pools will be required to file a shut-in pressure on a
2 biennial basis.

3 That's kind of a major step on that, in
4 that we have probably lessened the load on deliverability
5 testing by probably fifty percent, maybe a little more.

6 Item Number 3 is the deliverability test
7 year shall be the same as the calendar year.

8 As a matter of scheduling wells for
9 deliverability test, we find that the pipeline companies
10 need the additional load that they might be able to enjoy in
11 the wintertime of the year to get the wells producing long
12 enough to get deliverability tests conducted.

13 So we are asking that this be a January
14 through December test year, and also that that test year may
15 begin by having some of the conditioning period and flow
16 period occur in the previous year in the month of December,
17 and we have that so written in the order, at the beginning
18 in a test period the conditioning period and flow period can
19 exist in December but the shut-in pressure if it follows im-
20 mediately after the flow period, test flow period of the de-
21 liverability test, the shut-in pressure would be measured in
22 January of the following year, being a 7-day shut-in pres-
23 sure.

24 Also on the first page of the proposed
25 order, we have an exempt classification. That is in Para-

1 graph 2 under Item B.

2 We have sometimes lived in what might be
3 a mysterious world of what wells are required to be tested
4 when an infill well is drilled. We find that exempt wells
5 might have existed on a proration unit and now an infill
6 well is drilled and you now have a new producing ability for
7 that gas proration unit.

8 The exempt well in this case would lose
9 its exemption and become part of a new gas proration unit's
10 total deliverability as formed by the combination of the two
11 wells.

12 I think that should be noted. It also
13 clears the air so that everyone knows when you have to test
14 and when you don't have to test on infill drilled wells.

15 Also, the exempt classification has been
16 changed and that's on Page 2 in part -- Section 2-A-2, wells
17 classified as "exempt" shall not be subject to the require-
18 ments of annual or biennial deliverability tests.

19 In that we have changed the requirements
20 on Pictured Cliff wells where that they can be exempt only
21 if they produce less than 250 MCF per month; can't produce,
22 do produce, are incapable of producing greater than 250 MCF
23 per month.

24 And the words "incapable of producing" is
25 certainly included in this proposed order.

1 The Mesaverde and deeper formations has
2 been written that if they produce less than 2000 MCF per
3 month, they could also be exempt.

4 We talk about multiple well units and on
5 that, where we have infill drilling permitted in the Blanco
6 Mesaverde and the Basin Dakota that are covered by this or-
7 der, that the unit becomes a factor that would be exempt
8 from deliverability testing instead of on an individual well
9 basis when we have more than one well on a unit, and that
10 producing capacity we recommend is set at 2000 MCF per month
11 for the gas proration unit.

12 That's the unit is incapable of producing
13 greater than 2000 MCF per month.

14 Now we'll add to that, there has been
15 conjecture, there has been disagreement, there has been dif-
16 ferent figures thrown out. I don't know a better figure to
17 recommend than 2000 MCF per month. So this might not have
18 been an all-inclusive agreement by the committee the 2000
19 figure to recommend, but for the reason we've had it up,
20 we've had it down, one way and another, and 2000 seems to
21 be satisfactory or maybe a median figure to use for that.

22 On Page 4 in Paragraph 3, if I'm reading
23 the right one, if a test is filed on any well on a gas pro-
24 ration unit, the test requirement for the gas proration unit
25 has been met.

1 There has been a little bit of a hazy
2 area in that. What that sentence states to us, if you have
3 more than one well on a gas proration unit and you test and
4 file that test on one of the wells in the unit, the unit is
5 not delinquent on a deliverability test. It gets the deliv-
6 erability of whatever that test is submitted as showing and
7 that's all you get.

8 In the Blanco Mesaverde and the Basin Da-
9 kota, where you add the deliverabilities together to get a
10 total deliverability for the gas proration unit, if you fail
11 to test of the wells, you're not being penalized for not
12 testing it, other than the fact you get to add zero to what-
13 ever deliverability you have from the one well that you do
14 test.

15 On Page 4, -- I'm sorry, on Page 3, Para-
16 graph 4, if a test is not received for a proration unit,
17 then a shut-in pressure is also not received. We hope
18 that's self-explanatory.

19 If you failed to file a test, you cer-
20 tainly haven't filed a shut-in pressure, so if you do file a
21 test that says that no gas was passed from the well, at
22 least go ahead and file the shut-in pressure for that well,
23 also, and you can file that shut-in pressure on your C-122-
24 A, so you've met the requirements, it just happened that
25 your deliverability is zero, but you do have the shut-in

1 pressure for the well recorded.

2 MR. STAMETS: Mr. Kendrick, I
3 find that fascinating use of the English language.

4 MR. KENDRICK: Thank you, sir,
5 I had lots of help.

6 MR. STAMETS: It looks like it.
7 We might need -- need some more help on that before this is
8 over.

9 MR. KENDRICK: Some of the
10 wording on this proposal has been changed many times.

11 MR. NUTTER: This was put to-
12 gether by a committee?

13 MR. KENDRICK: Yes, but we're
14 not the same one that built the camel.

15 MR. NUTTER: This might be a
16 new camel.

17 A (Mr. Kendrick continuing) Also on Page 3
18 we find that the exempt status, the exempt wells do not re-
19 quire filling of a shut-in pressure. That's included in
20 that same Paragraph 4 that we just were discussing.

21 We have started the testing procedure
22 now, at the bottom of Page 3 under Scheduling of Tests, the
23 District Supervisor of the Aztec District Office of the Di-
24 vision shall notify each gas transportation facility and
25 each operator of the pools which are to be scheduled for

1 biennial testing during the following testing period from
2 January through the last day of December of that test year.

3 This is moving the dates a little to get
4 us onto the calendar year of testing.

5 Also at the top of Page 4 it says, the
6 District Supervisor will also provide those operators and
7 transportation facilities with a list of exempt wells, and
8 we find a little further on how that list of exempt wells is
9 derived.

10 The second paragraph from the bottom of
11 Page 4 says notice to the Division of shut-in pressure tests
12 which are scheduled at a time other than immediately fol-
13 lowing the flow test must be received prior to the time that
14 the well is shut-in.

15 This is to allow the Division Office the
16 opportunity to witness shut-in pressures being measured on
17 any of the wells as they're shut-in for the 7-day shut-in
18 pressure.

19 On Page 5 the first paragraph says that
20 if a well is ordered shut-in due to overproduction it can be
21 produced for testing, all right, for a period of time to se-
22 cure a test after notification to the Division.

23 All gas produced during this testing
24 period will be used in determining the over/under produced
25 status of the well.

1 We're not changing a thing in that except
2 we're trying to alert everybody that, yes, your well has
3 been ordered shut-in because it has for some reason been
4 overproduced to a status that it must be shut-in, but it's
5 scheduled for deliverability test at this time, go ahead and
6 notify the Commission that it is scheduled and test it ac-
7 cording to the schedule, and this is an approved situation
8 and that any gas you produce from the well is certainly
9 going into the account of overproduction or underproduction,
10 whatever the status of the well might be; that it's not
11 being ignored, in other words. It's just part of the normal
12 production of the well.

13 Page 6. In Section 2 at the bottom of
14 the page, we have relieved some of the restrictions that
15 have been placed on the flow from the well during the condi-
16 tioning period of a well.

17 In the presently existing order it says
18 that a well may be shut-in one time for a period not to ex-
19 ceed 36 hours during the first week of conditioning period.

20 Now we have changed that to 48 hours of
21 cumulative shut-in time during the first 10 days of the con-
22 ditioning period. Now we're saying the 11th to the 14th day
23 of the conditioning period should not have any shut-in time
24 and then the flow period should not have any shut-in time
25 immediately following.

1 We find that on older wells the possibil-
2 ity of shut-in time, we could be more lenient with it. We
3 could save a lot of rescheduling that has been done in the
4 past and still get the same quality test, if we just relieve
5 a little of the restrictions in there.

6 On Page 7, Paragraph 3, when it is neces-
7 sary to restrict the flow of gas between the orifice and the
8 wellhead meter, the ratio of the downstream pressure in psia
9 to the upstream pressure in psia shall be determined.

10 When this ratio is .57 or less critical
11 flow conditions shall be considered to exist across the re-
12 striction.

13 In the existing order we did not know
14 whether the pressures were gauge pressures absolute or any
15 particular way you wanted to use them, so we have just added
16 psia in there and I think all of the people in the field
17 understand what that means at this time.

18 Page 8. The Paragraph numbered 3 near
19 the top of the page says a calculated surface pressure based
20 on a measured bottom hole pressure, and the following sen-
21 tence, such calculation shall be made in accordance with the
22 New Mexico Oil Conservation Division Back Pressure Manual,
23 Example No. 7.

24 I wish to elaborate a little more fully
25 on this at a later date but this is one statement that oc-

1 curs in our proposed testing order where we're quoting an-
2 other manual.

3 We wish to move Example No. 7 from the
4 New Mexico Oil Conservation Division Back Pressure Manual
5 to an exhibit, if you please, in what would be a manual for
6 this, so that we would have incorporated with this proposed
7 order, or testing procedures, if you please, all of the data
8 that is necessary to handle any calculation of any test in
9 the San Juan Basin.

10 This is just one example, as it shows in
11 Item No. 3.

12 In the next paragraph it says all well-
13 head pressures, as well as the flowing meter pressure tests
14 which are to be taken during the 7-day or 8-day deliverabil-
15 ity test period, as hereinabove -- required hereinabove,
16 shall be taken with a dead weight gauge or other method ap-
17 proved by the Division.

18 Those are definitely new words but there
19 is a move within the industry where there has been develop-
20 ment of certain other type of measuring devices they believe
21 are as accurate as dead weight gauges may be, and are easier
22 to use, less time consuming, and one thing or another.

23 With that thought in mind, this committee
24 has decided to give it to the Commission that should someone
25 come up with a device that can measure pressures satisfac-

1 torily to convince the Commission that this is a -- convince
2 the Division that this is an accurate method of measuring,
3 once that tool is adopted by the Division, it will meet the
4 requirements set out in this testing procedure.

5 There are a few manufacturers of gauges
6 now on the market that they believe will meet these require-
7 ments. Further study of them might be necessary or the Com-
8 mission might like to have a real sales test to see if they
9 do go along with it; otherwise, we have left it with dead
10 weight gauges and now it's up to the Division to add any new
11 equipment that might become available to the industry.

12 On Page 10 we have an exhibit that we
13 would like to include at this point. It concerns the first
14 paragraph at the top of Page 10, deliverability pressure as
15 used herein is a defined pressure applied to each pool as
16 used in the process of comparing the abilities of wells in a
17 pool to produce at static wellhead working pressure equal to
18 a percentage of the 7-day shut-in pressure of -- in respec-
19 tive individual wells.

20 Such percentage shall be determined and
21 announced periodically by the Division based on the rela-
22 tionship of the average static wellhead working pressures,
23 P_w , divided by the average 7-day shut-in pressure, P_c , of
24 the pool.

25 I have an exhibit that we marked as Exhi-

1 Pw versus Pc and for the year 1978 I show that Pw was 35.97
2 percent of Pc.

3 And that data for each of the subsequent
4 years from 1978 is shown on down the page going through
5 1983, and this data came from the New Mexico Oil and Gas En-
6 gineering Report, Annual Report.

7 Then also the Pd value was compared to Pc
8 and it came out approximately 50 percent in all cases for
9 that pool, and just as a matter of interest, I compared the
10 deliverability value to the flow rate value of Q and that's
11 anywhere from 90 to 99-1/2 percent.

12 The 1984 value shown at the bottom of the
13 page came from a Commission report that was in the office in
14 Aztec and I got the values from that report and being as
15 there were only 607 tests reported for that year, I did not
16 use any of that data in a new total.

17 But if you look at the second page of
18 this, for the Blanco Mesaverde, you'll find the same data
19 available for the year 1978 through 1983 with totals for
20 that, averages for that.

21 Then an 1984 value added, which showed
22 3,071 wells tested, and their test data.

23 Now Pw compared to Pc in this particular
24 pool showed to be roughly 60 to 70 percent, the Pw 60 to 70
25 percent. We've been using Pd as 80 percent.

1 So we think that value should be redeter-
2 mined to be a value of 70 percent instead of 80.

3 Now, for the test year of 1985, which we
4 are into at this time, the figure for the Dakota Pool, we
5 believe, should be -- Pd should be calculated at 40 percent
6 of the shut-in pressure.

7 For the South Blanco Pictured Cliff Pool,
8 which is the third exhibit -- third page of this exhibit, we
9 believe that the proper percentage for that pool, that Pd
10 should be -- of the shut-in pressure should be 60 percent.

11 Now, the Blanco Mesaverde Pool and the
12 Tapacito Pictured Cliffs Pool need to continue on the per-
13 centages that are now assigned through 1985 for any wells
14 that require testing at this time, because it would be a
15 test for the 1986 year and all other wells have already been
16 tested and calculated at those values made.

17 So we're not recommending a change to
18 those two pools at this time, but the Basin Dakota and South
19 Blanco Pictured Cliffs, we feel should be changed.

20 Also on Page 10 we find the nomenclature
21 of Pw, average static wellhead working pressure as deter-
22 mined from 7-day or 8-day flow period psia and calculated
23 from table in this manual entitled "Pressure Loss Due to
24 Friction" Tables for San Juan Basin.

25 Here again are words that we're not happy

1 with. We'd like to have those friction tables made a part
2 of this manual and the friction tables at this time, we do
3 not wish to move the entry directly from the tables we're
4 using right now, because we have found a little bit of dis-
5 crepancy in those tables.

6 We trying to regenerate new values that
7 -- the correct values for all of the figures that are cur-
8 rently being used and that we will provide those to the Com-
9 mission, to the Division, help them to get this altogether
10 as one table as soon as we can possibly do that.

11 I was explaining to the Director that
12 sometimes the computers you have at your disposal don't
13 always give you the answers you'd like to have and certainly
14 that's been the case in this and I believe that it can be
15 worked out and we can get values that are appropriate to use
16 in all instances.

17 This would concern the values of F_c
18 description factor for various sized flow streams and also
19 values of $l-c$ to $-s$ for various gravity times length
20 calculations.

21 The last paragraph on Page 10 says the
22 value of the multiplier in the above formula, the ratio
23 factor after the application of the pool slope, by which Q
24 is multiplied shall not exceed a limiting value to be
25 determined and announced periodically by the Division. Such

1 determination shall be made after a study of the test data
2 of the pool obtained during the previous testing session.

3 And there's two things we're trying to
4 do.

5 If we note the value that P_d is compared
6 to P_c , it would be normally equal to the same value that P_w
7 is compared to P_c .

8 We've moving in a direction where that
9 that multiplier approaches one. Then, if for some strange
10 reason, we have other wells that the test is a greater
11 figure or a larger figure, a limiting multiplier may be put
12 on that calculation so that the deliverability would not be
13 assigned as an astronomical figure and be some unrealistic
14 figure that may have occurred in the past on some wells.

15 I feel that that pretty well covers the
16 actual procedure or procedural changes that have been pre-
17 scribed in conducting the deliverability test formula, the
18 deliverability test procedure.

19 I do recall of one other item that should
20 be mentioned and I'm not sure that I can place my hands on
21 the exact page, but it states that if you do not measure the
22 shut-in pressure immediately after the flow period, meaning
23 that as soon as the test flow period is completed as the 7
24 or 8-day test flow chart, you shut the well in for 7-days to
25 measure the 7-day shut-in pressure. That 7-day shut-in

1 pressure may be measured at any other time during the year.

2 It, too, will be scheduled by the trans-
3 portation company in cooperation with the operators so that
4 they'll all know when the test will be and the well shall be
5 flowed for a minimum of 7 days before this shut-in occurs,
6 so that everyone gets somewhat of a similar type 7-day shut-
7 in pressure.

8 Now certainly 7 days does not compare to
9 22 days of flow, but it's better than just, say, well, I'll
10 turn the well for an hour and shut it in for 7 days, and it
11 might have been shut-in for a month before, but it more
12 nearly equalizes what you have for your well as any other
13 operator has for his well.

14 At the bottom of Page 11 we have informa-
15 tional tests continuing over into the bottom -- onto Page 12
16 and 13. I feel that those are pretty much self-explanatory,
17 particularly for nonprorated pools; however, we do have one
18 thing added to the San Juan Basin.

19 We're asking that all shut-in pressure on
20 nonprorated wells be filed on Form C-125.

21 We're also asking that that pressure be
22 recorded in psia. The present day form of C-125 has that
23 column unlabeled. It does have a shut-in pressure in psig
24 and I recommend to the Division that they modify that form
25 and put a shut-in pressure column on the form to show a psia

1 column for that shut-in pressure.

2 MR. STAMETS: If I could inter-
3 rupt again, and say that the reason it doesn't have psia on
4 there is because many of the people who file those forms
5 don't seem to know what that's all about and they don't know
6 what it is.

7 Most of those are in southeast
8 New Mexico right now, but the -- to make a psia you add 13.2
9 pounds. We'd see them with 25 pounds, no pounds, and 10
10 pounds, and so we said the simplest way to do this, tell
11 everybody to report gauge pressure and we'll let the com-
12 puter add 13.2 pounds to get psia.

13 Now do you see a problem with
14 that in the San Juan Basin?

15 A I think I see a problem with it because,
16 as the data is recorded in the Division records in Aztec,
17 everything is recorded in psia from the summary of the
18 deliverability test sheet.

19 And we move into another area of a non-
20 prorated well and it is, all its data to date has been re-
21 corded in psia and now we start recording it in a psig.

22 I think that would cause a problem.

23 MR. STAMETS: Well, Mr. Ken-
24 drick, all -- right now all the C-125 testing is done based
25 upon a computer listing we send to the operator saying test

1 these wells. We get that back here and we do all the pro-
2 cessing here.

3 The completed printout, then,
4 could be furnished to a District Office with psia figures on
5 it.

6 A Mr. Director, I believe what you're re-
7 ferring to there again is in southeast New Mexico and you do
8 not schedule those for northwest New Mexico, and that would
9 be done by -- in a like manner to what the deliverability
10 tests are scheduled there now.

11 MR. STAMETS: We could do it
12 the other way, though.

13 A The transportation facilities occupying
14 space in the San Juan Basin Area of New Mexico would prefer
15 that they schedule the wells for the shut-in pressure tests
16 at a time that might be convenient to them and the operator.

17 Not saying that it is not done so in
18 southeast New Mexico, but certainly they would like to have
19 a strong control on the dates when the shut-in pressures
20 will be conducted in the San Juan Basin.

21 Q Okay, Mr. Kendrick, does that conclude
22 the summary of your -- of the recommendations of the
23 Deliverability Test Committee as far as the important
24 changes that you recommended?

25 A No, sir, not yet. My attention has been

1 data back out of the Measurement Department and get to the
2 operator where he could calculate this test or to whatever
3 transportation facilities may calculate the test for them.

4 Q Mr. Kendrick, if we could just for a
5 second go a little bit into why these recommendations are
6 being made, you said previously that part of it is because
7 of the way Rule R-333 is compiled it's difficult to deter-
8 mine what the actual rules are in some situations, and you
9 also said that there are some discrepancies and mistakes in
10 tables.

11 What other reasons are -- is the Commit-
12 tee recommending that these various rules be changed?

13 A I feel that we're updating the rules to a
14 point where they're actually more workable and certainly,
15 we're proposing that this be put together as a test package
16 so that if a new person moved into the San Juan Basin to
17 operate a gas well, he can be handed one package that says
18 this will tell you all you need to know about testing of
19 your gas well to meet the requirements of the State of New
20 Mexico.

21 I would certainly feel sorry for a new
22 individual moving there now and trying to dig through the
23 records himself to find out what is required and how to go
24 about it, but it might be a little bit difficult to grasp
25 the full meaning of what he's required to do.

1 Q Let's see, is your Exhibit A which you've
2 provided to us ready to be copied as it is into the record
3 or into a manual outlining test procedures?

4 A Not on an "as is" basis. As I mentioned
5 a little bit earlier, there are certain words in this that
6 made reference to other tables that may be in other pre-
7 scribed test manuals of the New Mexico Oil Conservation Com-
8 mission or Oil Conservation Division, that we would like
9 those references to be made to tables that exist within this
10 package, if I may use the word package, to represent this
11 envelope of data now that has the procedure for testing, the
12 requirements of testing, how to file, where to file, how to
13 calculate.

14 We would like to have in that a copy of a
15 C-122-A Form, which the deliverability test is filed -- is
16 filled in on and submitted to the Aztec Office of the Divi-
17 sion, a copy of that so that the manner in which that is
18 calculated from start to finish would be a model for anyone
19 to follow.

20 We do not have that in here today as an
21 exhibit. It's certainly one that is easily prepared and
22 that we can have that to you on short notice to get that
23 part in it, also.

24 We'd like to get as many operators doing
25 everything the same as all other operators as is possible.

1 We think with a few guidelines we could do it.

2 Q Are there any other changes that need to
3 be made before this can be utilized in the package manner
4 that you want to do to hand it out, any other things to be
5 added that you want to mention right now, or changes that
6 need to be made in it?

7 A I do not recall any other specific
8 changes there.

9 There may be need to mention that in Or-
10 der R-1670, which is the general proration rules of New Mex-
11 ico, there may be some reference made to Order R-333, that
12 if this Order R-333 is rescinded and a new order written,
13 then any reference to 333 would automatically be transferred
14 to this new order from this hearing.

15 Q Okay. On this, this proposed order which
16 you have here, is -- was arrived at by a consensus of the
17 committee, or do you want to briefly explain exactly how you
18 -- I know you stated at one point that the 2000 cutoff for
19 exemption wells wasn't exactly a consensus or everybody
20 didn't agree to it.

21 Could you tell us how you arrived at all
22 these recommendations?

23 A Possibly the answer to that is that it
24 was a consensus of the committee but not a unanimous deci-
25 sion of the committee or of every member of the committee

1 making it unanimous.

2 One thing that we started with on the
3 exempt, as a particular example was that it one time we had
4 that hooked together with minimum allowable, and one of the
5 thinking members of the committee said there's no need to
6 connect that with minimum allowable. It doesn't have a
7 bearing on it.

8 Sure enough, he'd turned the light on and
9 we saw that and we said we could set that where we would
10 like to have it and let minimum allowables go wherever they
11 pleased, but it's just a figure that seems reasonable and
12 many of the operators said we're going to test exempt wells
13 anyway. Some operators would test only the wells they're
14 required to. We feel that this is a good range to work on.

15 Q Okay, you --

16 A I wish to add something about the commit-
17 tee. I have another exhibit I'd like to enter as Exhibit C.

18 This is the names of people that have
19 shown up on the mailing list for this committee, but most
20 every person named on this list has been a part of the com-
21 mittee at one time or the other. They have all worked well
22 with the committee. This has been a very useful committee
23 and I think they have worked hard and diligently and I com-
24 mend every one for their efforts that they put in on this.

25 It's been a pleasure to work with this

1 committee and certainly we didn't have any knockdown drag-
2 outs, but gosh, maybe we missed the fun of it all. But this
3 was a real pleasure to work with this group on this commit-
4 tee.

5 Q Does this proposed order, which we've de-
6 nominated as Exhibit A, in your opinion is it in the best
7 interest of preventing waste and protecting correlative
8 rights?

9 A I believe it is.

10 Q Do you have anything else that you'd like
11 to add to your testimony?

12 A No.

13 MR. TAYLOR: That's all we
14 have, Mr. Examiner.

15 MR. QUINTANA: Are there fur-
16 ther questions of the witness?

17

18 CROSS EXAMINATION

19 BY MR. STAMETS:

20 Q Mr. Kendrick, you've entitled this thing
21 Gas Well Testing Rules and Procedures, San Juan Basin, New
22 Mexico.

23 Is there any reason we couldn't
24 change the title of this to Manual for Gas Well Testing, San
25 Juan Basin, New Mexico?

1 A I think that's a wonderful idea.

2 Q Okay. On Page 3, at this strange sen-
3 tence in Number 4, let me see if I understand what you're
4 saying there.

5 Are you saying that even if you aren't
6 submitting any information on deliverability on this well,
7 on a no gas passed well, you still have to file shut-in
8 pressure or you're not going to get any allowable.

9 Is that what you're saying?

10 A Yes, sir, to the extent that if a well is
11 required to have a deliverability test, meaning that it's
12 not exempt from deliverability test, if some test should be
13 filed, if all you can get from the well's flow is zero, then
14 measure 7-day shut-in pressure and submit that with the zero
15 flow.

16 If you do not submit a C-122-A, the test
17 is delinquent for that well or for that gas proraition unit.

18 Q Okay. That's certainly clearer than
19 what's here. I think we can fix this.

20 A Hopefully.

21 MR. NUTTER: But would it have
22 to be a well that doesn't produce any gas, can't produce
23 gas?

24 A If the well does produce gas and you cal-
25 culate a deliverability test showing gas flow and a deliver-

1 ability, certainly you will have a Pc value in your summary.

2 This is to cover the point that, by
3 George, I didn't get any gas flow at all. What am I going
4 to do? We're telling you to write down a shut-in pressure
5 on the C-122-A, fill in as much data as you've got, and sub-
6 mit it.

7 MR. NUTTER: It would presume
8 that a deliverability test had been attempted.

9 A Yes, sir, and that deliverability, appar-
10 ently, is --

11 MR. NUTTER: Zilch.

12 A Yes, sir.

13 MR. NUTTER: Mr. Stamets, or
14 Mr. Quintana, I don't know if I'm supposed to ask questions.
15 Maybe I can make an observation and get a response.

16 I notice that in Section --
17 I've got it somewhere -- okay, annual or biennial deliver-
18 ability and shut-in pressure tests shall be made on all gas
19 wells during the period, except as follows, and then one of
20 the things that follows is, two, wells classified exempt
21 shall not be subject to the requirements of annual or bien-
22 nial deliverability tests.

23 Then you go over to Section 4
24 that you were just referring to, Mr. Stamets, it says exempt
25 wells do not require the filing of shut-in pressures.

1 Now, this is all relating --
2 now exempt wells are in prorated pools only, but the first
3 statement back over here, saying that annual deliverability
4 or shut-in pressure tests shall be made on all gas wells,
5 would include prorated or nonprorated, but exempt -- exempt
6 -- nonprorated wells under the wording as I read it, would
7 require shut-in pressure tests regardless of their size.

8 A Mr. Nutter, may I attempt to answer that?
9 If you will go to the Page 1, right under the title that Mr.
10 Stamets read and recommended the delightful change for the
11 title, Chapter 1 says, the Type of Tests Required for Wells
12 Completed in Prorated Gas Pools.

13 MR. NUTTER: So these do not
14 refer to nonprorated pools in any respect, none of these
15 rules do.

16 A Only Chapter 1 is prorated gas pools.
17 Chapter II, III, and IV shows up in the
18 back part.

19 MR. NUTTER: Okay.

20 A Chapter II is still prorated and -- Chap-
21 ter II is the Procedure for Testing, so certainly that
22 is part of prorated pools.

23 Chapter III is Informational Tests, and
24 Chapter IV, Tests Required for Wells Completed in Nonpro-
25 rated Pools.

1 MR. NUTTER: Okay. Now, under
2 IV, then, for wells in nonprorated pools, there must be a
3 biennial shut-in pressure test except as follows, and then
4 there is an exempt classification there, too, is there not?

5 A Yes, sir.

6 MR. NUTTER: Okay. That's what
7 I was concerned about, small wells having to take shut-in
8 pressures.

9 A Yes, sir.

10 Q A couple more things, Mr. Kendrick.

11 Now you indicated you wanted Form C-125
12 amended with the psia back on there.

13 Would it be acceptable if we came up with
14 C-125-A for the southeast and C-125-B for the northwest and
15 kept the procedure that we currently have in the southeast,
16 which is working very well?

17 A I certainly would not propose that we in-
18 terfere with something that is working well in southeast
19 that we could work around that some way to a form that's
20 just for northwest, and a 125-B would not necessarily crimp
21 northwest operations in any manner, would it?

22 I believe not.

23 Q Now you indicated that some tables would
24 be added, and I thought I heard you talk about two separate
25 tables altogether.

1 A There should be more tables than two.

2 The two that I believe that I named were
3 Fc values for friction loss through the flow stream; the
4 values of l -e to the -s for calculated gravity time length
5 values.

6 There should certainly be tables in it
7 for pitot tube reading.

8 There should be table of coefficients for
9 choke type tests, as information tests are provided for.

10 Supercompressibility tables, gravity tab-
11 les, temperature tables, I might say any table that is pre-
12 sently in use in calculating any of the tests in the San
13 Juan Basin at this time should be included into this test
14 manual, with a 15025 pressure base; temperature base, 60 de-
15 grees; gravity base .6.

16 Q And you would propose these would just be
17 added in as table to the manual.

18 A Yes, sir, I would.

19 Q Now you indicated some -- an example form
20 on how to fill one of these C-120-A's out.

21 Would you think it would be appropriate
22 to show one where you had no gas passed and reporting only
23 the shut-in pressure?

24 A Yes, sir, we could certainly do that.

25 Q And how about one with one of these new

1 C-125's with a pressure test, would that be appropriate as
2 an example?

3 A Yes, sir, we could do that on the new C-
4 125-B form.

5 Q There are three formations we're dealing
6 with in the San Juan Basin, prorated, Dakota, Mesaverde, and
7 Pictured Cliffs. It certainly would be handy to go a tri-
8 annual testing and have the Pictured Cliffs all one year,
9 the Dakota all another year, and the Mesaverde all another
10 year.

11 You all have not recommended that so I
12 presume you don't think too highly of that. Tell us why.

13 A As a committee, we did not dwell on that
14 for any real length of time, but I do recall personally when
15 we went from the annual required test to the biennially re-
16 quired test, that there was a certain amount of reluctance
17 of giving up something that you have at the best data avail-
18 able to allocate production with.

19 I feel that you can go so far and the
20 value of your data starts losing its significance and yet
21 you're still allocating production from that.

22 I'm not saying that trying every third
23 year is too infrequent a testing period for that.

24 Seemingly the operators testing their
25 wells are not necessarily having a real problem getting to

1 them biennially or getting to them annually until they have
2 three annual tests recorded for each well, so without com-
3 plaints from these other operators, as to the well test cost
4 being too great, that possibly we're doing well enough on a
5 biennial basis.

6 And further, I don't know that dividing
7 that by formations necessarily gains anything that we would
8 not be testing the same number of wells each year, if that
9 were a figure we were looking at; that the Mesaverde may
10 have a lot more wells than the Dakota, with the Dakota being
11 tested one year and the Mesaverde the other, and the Pic-
12 tured Cliffs having a different set of figures, too.

13 So I don't -- I don't realize what we
14 would really gain out of a testing every third year basis.

15 Q Mr. Kendrick, I wasn't really thinking of
16 the operator, I'm sorry to say, but I was thinking of the
17 Division staff and a relatively small number of people we
18 have in Aztec and the thousands of tests that they have to
19 deal with annually; looking for some way to sort of work
20 their workload down.

21 A There are possibly two answers to that.
22 One of the particulars accomplished with this proposed or-
23 der, and that is not requiring deliverability tests for non-
24 prorated pools. That one step alone will probably reduce
25 the amount of tests by 50 percent.

1 MR. TAYLOR: Mr. Quintana, we
2 would offer Exhibits A, B, and C into evidence.

3 MR. QUINTANA: Exhibits A, B,
4 and C will be admitted.

5 If there is nothing further,
6 Case 8586 will be taken under advisement.

7

8

(Hearing concluded.)

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C E R T I F I C A T E

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I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division 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. 8586 heard by me on MAY 8 1985.

si. Oct. R. Quintana Examiner
Oil Conservation Division

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

6 3 December 1986

7 EXAMINER HEARING

8 IN THE MATTER OF:

9 Application of the Oil Conservation
10 Division on its own motion to reopen
11 Case No. 8586.

CASE
8586

12 and

13 Application of the Oil Conservation
14 Division on its own motion to amend
15 Order No. R-8170.

CASE
9050

16 BEFORE: Michael E. Stogner, Examiner
17
18

19 TRANSCRIPT OF HEARING

20 A P P E A R A N C E S

21 For the Oil Conservation
22 Division:

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23 For Gas Company:

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A-8170-B

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I N D E X

STATEMENT BY H. L. KENDRICK

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STATEMENT BY MR. STAMETS

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Committee Exhibit A-One, Report	11
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E X H I B I T S C O N T ' D

Committee Exhibit E-One, Tables	13
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1 MR. STOGNER: We'll call next
2 Case Number 8586.

3 MR. TAYLOR: May it please the
4 Examiner, Counsel for the Division, and I have one witness.

5 MR STOGNER: Are there any
6 other appearances in this matter?

7 MR. STOGNER: This is Case
8 8586.

9 MR. TAYLOR: Mr. Examiner, I'd
10 like to request that we consolidate for purposes of
11 testimony Case 9050 with this case?

12 MR. STOGNER: Are there any ob-
13 jections to consolidating these two cases?

14 MR. DUKE: I have an appearance
15 to make, Mr. Examiner.

16 I'm Jonathon Duke, Keleher and
17 McLeod, Albuquerque, representing Gas Company of New Mexico.

18 I don't anticipate calling any
19 witnesses but I would ask leave to make a brief statement.

20 MR. STOGNER: Okay.

21 MR. DUKE: And also cross exa-
22 mine, if I can, --

23 MR. STOGNER: Okay, are you en-
24 tering an appearance, Mr. -- what was your name, I'm sorry

25 --

1 MR. DUKE: Johnathan Duke.

2 MR. STOGNER: -- Mr. Duke, in
3 Case Number 9050?

4 MR. DUKE: 9050 and 8586.

5 MR. STOGNER: All right. Let's
6 go ahead, and if there's no objection in consolidating these
7 two cases, I will now call Case Number 9050, which is also
8 the application of the Oil Conservation Division on its own
9 motion to amend Order No. R-8170.

10 So we have the OCD, Mr. Taylor,
11 and you're putting in an appearance for this case, right?

12 MR. TAYLOR: Yes, sir, in both
13 cases.

14 MR. STOGNER: Okay, and Mr.
15 Duke, you are also appearing in both cases.

16 MR. DUKE: Yes, I am.

17 MR. STOGNER: Are there any
18 other appearances in either case, or both?

19 Okay, there being none, Mr.
20 Duke, do you wish to make an opening statement or a closing
21 statement?

22 MR. DUKE: Whatever pleases
23 you, Mr. Examiner. Either way it will be very brief.

24 MR. STOGNER: Why don't we just
25 go ahead and hold it to the end?

1 MR. DUKE: All right, fine.

2

3

H. L. KENDRICK,

4

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

6

7

DIRECT EXAMINATION

8

BY MR. TAYLOR:

9

A Would you please state your name, occupa-
10 tion, and place of residence?

11

A I'm Harold L. Kendrick. I work for El
12 Paso Natural Gas Company as Conservation Engineer. I live
13 in El Paso, Texas.

14

Q And are you familiar, Mr. Kendrick, with
15 the matters in Cases 8586 and 9050?

16

A Yes, sir, I am.

17

Q And have you testified previously before
18 the Commission or its examiners and had your credentials ac-
19 cepted?

20

A Yes, I have.

21

MR. TAYLOR: Mr. Examiner, I
22 tender the witness as an expert.

23

MR. STOGNER: If there are no
24 objections Mr. Kendrick's qualifications are accepted.

25

Q Mr. Kendrick, would you tell us in what

1 capacity you're appearing here today?

2 A In January, 1984, the New Mexico Oil Con-
3 servation Division appointed a committee to study the de-
4 liverability testing procedures for gas wells in the San
5 Juan Basin area of New Mexico, and I have served as Commit-
6 tee Chairman since that time and today we're trying to
7 flange (sic) up the activity of this committee and leave the
8 data on the desk of the Commission and let them publish a
9 manual from it.

10 Q And we've had a hearing in this matter
11 before, have we not?

12 A Yes, a hearing was held on May the 8th of
13 1985 at which time we had much of the data in a submittable
14 form at that time but there was other data needed and since
15 then we have gathered all or most all of that data and are
16 now ready to go ahead with that.

17 Q And you're presenting your testimony to-
18 day as chairman of that committee on behalf of the commit-
19 tee, are you not?

20 A Yes, sir.

21 Q Would you please then give us the recom-
22 mendations or the decisions of the committee?

23 A First I need to make some comments about
24 the testimony given at the previous hearing on May the 8th
25 of 1985.

1 At that hearing I supposedly was reading
2 into the record some of the material contained in the test
3 procedure that we in the committee had formulated and in
4 doing so I paraphrased some of the words from the document.

5 Regardless of what I said that day, or
6 may say today, the written text as we had it is the text
7 that we would like to submit to the Division to be enacted
8 as the rules of procedure for testing in the San Juan Basin.

9 Unless it is decided at this hearing to
10 specifically change certain words in the written text.

11
12 (Thereupon a brief recess was taken.)

13
14 MR. STOGNER: Recess is over.

15 Q Okay, Mr. Kendrick, I'm not exactly sure
16 where we are but were you ready to give us the recommenda-
17 tions of the Committee, then?

18 A Yes, I have some table and the written
19 material to supply into this testing procedure as we now re-
20 commend it to the Division.

21 This that I'm handing you is an exhibit
22 which you may mark as we go.

23 This is updated through November with the
24 latest additions we have from the Committee, and the only
25 change in this one, other than the corrections that were

1 made at the hearing on May the 8th, 1985, is a paragraph ad-
2 ded on Page 7 of this, and I think we should go over that
3 wording on that. I believe it's the second paragraph in
4 that addition and it starts: "If a well is producing
5 through a compressor that is located between the wellhead
6 and the meter run, the meter run pressure and the wellhead
7 casing pressure and the wellhead tubing pressure are to be
8 reported on Form C-122A." Then in parenthesis, (Neither the
9 suction pressure nor the discharge pressure of the compres-
10 sor is considered wellhead pressure.)

11 "A note shall be entered in the remarks
12 portion on Form C-122A stating this well produces through a
13 compressor."

14 That was the addition to that particular
15 document.

16 Also I notice on the very last page, the
17 last line on that page says that completes this report.
18 That should be stricken from the back of that.

19 MR. STOGNER: What page is that
20 again, sir?

21 A The last page, I believe it's 14.

22 MR. TAYLOR: And that was in-
23 troduced at the last hearing.

24 A Yes, that exhibit was introduced at the
25 last hearing. The corrections were made to that and you now

1 have that document as Exhibit One, plus the addition of the
2 paragrph that I just read that shows on Page 7.

3 Now this exhibit is the same exhibit as
4 was passed out with the last line of the document stricken
5 from it and that paragraph that I read is in it but this has
6 a little different sequencing tab stops throughout the
7 paper. All it was doing was trying to beautify it somewhat
8 for the Commission's handling, and I would say that if they
9 have recommendations to make to that, I'd be happy to change
10 it in form they'd like to have.

11 The paragraph that I read was place in
12 the procedure because we believe that there are or have been
13 testers in the area that have not fully understood what the
14 correct procedure should be when compressor is in use on an
15 individual well.

16 The committee believes that this testing
17 procedure will define the types of tests that are required
18 in the San Juan Basin and that everyone testing wells in the
19 area will do it in the same manner; at least this is our
20 intention.

21 Along with this text we are submitting a
22 group a table to be incorporated into the test manual and
23 these table include a table of values of l-E to the -S power
24 calculated from various values of gravity times length, and
25 I have a few copies of that. That will be Exhibit Three, I

1 suppose.

2 Mr. Counselor, I don't know whether you
3 want to stamp all of those because if we're going to print
4 from that they may want a clean one for it or if they need a
5 clean one let me know and I'll submit it.

6 Q I've noticed, Mr. Kendrick, in these ex-
7 hibits that they were, at least the first one, was intro-
8 duced at the last hearing, and I believe at that time it was
9 marked Exhibit A.

10 A All right.

11 Q Do you think we should then, the one that
12 we have marked Exhibit 1, instead we should mark that Exhi-
13 bit A-1 as it would be clear that it's a -

14 MR. STOGNER: Sure, that way we
15 won't have to --

16 MR. TAYLOR: And have counsel
17 clarify that they were introduced at different times.

18 MR. STOGNER: So today's Exhi-
19 bit One is A-1.

20 MR. TAYLOR: Right.

21 MR. STOGNER: And Exhibit A was
22 the same thing that was --

23 MR. TAYLOR: Right, at the
24 earlier hearing.

25 MR. STOGNER: And the earlier

1 hearing being the one back in 1985?

2 MR. TAYLOR: May of '85, right.

3 So we can label this second one
4 B-1 and the charts we can label C-1. Hopefully at least
5 that will differentiate it from --

6 A B-1 is the rewrite of the committee re-
7 port.

8 MR. TAYLOR: Just the rewrite.

9 And then C-1 would be the
10 charts.

11 A A set of tables for friction factors, or
12 F sub C values for small and large size tubing and for annu-
13 lar flow with various combinations of casing and tubing
14 sizes is presented.

15 I have only one set of those exhibits.
16 That has small tubing, large tubing, and then annual flow.

17 MR. DUKE: And what is this one
18 marked?

19 Q And should we designate this one D-One to
20 make it clear?

21 A That will be okay, whatever is satisfac-
22 tory with the examiner and the Division.

23 One of the things missing at the last
24 hearing was a set of tables to interpret the value for the
25 amount of gas glowing from a well with a pitot tube measure-

1 ment.

2 I now have a set of table made up for
3 that that are made at an elevation of 6000 feet and are made
4 with a gas gravity of .600 and with a table of impact pres-
5 sures there is also a table of specific gravity correction
6 factors to correct that flow rate value to the proper value
7 if the gravity is other than .600.

8 Q And we will denominate this as Exhibit E-
9 One.

10 A Fine. The other tables and examples of
11 calculations for various procedures are to be taken from the
12 back pressure manual as published by the NMOCC. The copy
13 that I have is dated January the 1st, 1966.

14 The pages of material that should be
15 duplicated from this manual and placed in the new manual
16 for the San Juan Basin would be listed as -- I have a list
17 for those various values, and forgive me if I get mixed up
18 on them.

19 This \$5.00 book lost its cover on the way
20 to the car. I'm sorry about that but we'll do better next
21 time. This page one, the cover page, needs to be changed.

22 Acknowledgment page could stay or we
23 could drop it.

24 A new table of contents does need to be
25 made and the preface, a new preface has not been written.

1 This book contains and introduction and a
2 new introduction has not been written. If the Division so
3 desires I'd suggest that those items be taken.

4 The introduction is Section 1 of this
5 booklet.

6 Section 2 has nomenclature and I am not
7 certain that all the nomenclature is complete in that data
8 as we will need by adding the deliverability test to it, but
9 it can be quickly updated. It would be only values that
10 would come out of deliverability type testing that would
11 have to be added to this if any of those are lacking. Pos-
12 sibly someone here today can answer whether that needs any
13 additional data or not.

14 Section 3 is a test procedure that is
15 talking about back pressure testing, rules of procedure for
16 back pressure testing, and this section is what I would re-
17 commend be withdrawn from the booklet and our Exhibit A-One
18 or Exhibit B-One be put in its place, because that would a
19 complete set of testing rules as applied in the San Juan Ba-
20 sin of New Mexico.

21 Section 4 has the various forms of the
22 Commission that are required to be filed with the test pro-
23 cedure. This will need a C-122A form and we propose to show
24 with that how each of the values are ascertained and what
25 values are to be placed on that form, and I do have a sample

1 of that to add to that.

2 Q And we'll mark this as Exhibit E-One --
3 F, F-One.

4 A Also a Form C-122 is the initial
5 potential type test and we should have one of those filled
6 in with the data and telling where the data comes from for
7 that should also be added into this booklet, and a Form C-
8 125, by whatever nomenclature the Division uses for the
9 electronic data processing form as printed in Santa Fe and
10 sent to the field for the shut-in pressures to be filed on
11 and sent back. I've asked that as question. Is it C-125-B?
12 C-125-B, if that number is correct; if
13 not, use the proper number for it.

14 There are wells in the San Juan Basin
15 that are nonprorated wells that the shut-in pressures are
16 required to be measured and they would be submitted either
17 on Form C-122-A or C-125 and the C-125 needs to be identi-
18 fied in this manner.

19 Section 5 of this back pressure testing
20 manual has basic calculations and those could be carried
21 forward into the new booklet.

22 Section 6 has test examples and in the
23 deliverability test procedure that was passed out as Exhibit
24 A-One or Exhibit B-One, there is a reference to the back
25 pressure testing manual and I cannot tell you what page

1 that's on, but that should be -- the wording should be chan-
2 ged in that to examples in this manual. I'll find you a
3 page for that, if I had a copy of that,

4 Q A copy of this?

5 A Yes.

6 MR. STOGNER: B-One?

7 A Yes, sir, either A-One or B-One. One re-
8 ference is in Exhibit A-One, the fourth paragraph on Page
9 10, that states, "and it should specifically conform to the
10 New Mexico Oil Conservation Division back pressure test man-
11 ual", in quotes, and it says, "or this manual."

12 I believe there is one other reference to
13 the back pressure test manual in this booklet.

14 In any case, the test booklet that would
15 be published from this data, test manual, will have all the
16 data necessary to file those tests.

17 Section Seven contains many tables. Some
18 of the tables are square root tables and with the advent of
19 various types of calculators and computers in use today, I
20 think the tables Roman Numeral VII-6 through VII-8 could be
21 eliminated because I feel that no one has a real need for
22 them.

23 Pages Roman Numeral VII through 86
24 should be left in the booklet. This concerns other tables
25 and particularly the supercompressibility tables, which are

1 the largest ones, shown as Page 17 through 83 in Section
2 VII.

3
4
5 Table Roman Numeral VII Pages 87 to 93
6 are calculated tables for values of 1 - E to the - S, and
7 those should be withdrawn from the booklet and new tables
8 put in it that I have for you as an exhibit today, and I
9 think I passed out with something else, but -- but they are
10 specifically calculated for the conditions of the San Juan
11 Basin.

12 Table 14, Page Roman Number VII, 87 to 93
13 will be replaced. That -- I just mentioned that, okay.

14 Table VII-94 and 95 will be replaced and
15 95-A and 96 would be replaced.

16 Pages A-1 and B-1 can stay in the book;
17 C-1 to C-5 might be eliminated.

18 Pages D-1 to 6 can stay in the book.

19 Let's see if I got it all. At this time
20 I do not know of other data that should be submitted into
21 this for the San Juan Basin testing procedure.

22 I'd like to go now to Case 9050 for a
23 statement.

24 As advertised on the docket, this case
25 includes language that asks to define retest in Order No. R-

1 8170.

2 We feel that a re-definition or a defini
3 tion of retest is necessary to cover the process applied to
4 deliverability retests as they occur in the San Juan Basin.
5 We are looking for a procedure to be applied to all wells so
6 that they can be treated automatically and all in the same
7 manner when so needed.

8 The definition of deliverability retest,
9 as we have it defined, and as we propose that it replace the
10 rule 9-B in Order R-8170, is, and I quote: Rule 9-B.
11 Deliverability retest, a change in a well's deliverability
12 due to retest after any activity other than routine
13 maintenance, which changes the deliverability of the well to
14 become effective the later of (1) the date of redelivery
15 after such activity, such date to be indicated on the sundry
16 notice if a sundry notice is required, and on the remarks
17 portion of the Form C-122-A, or (2) ninety days prior to the
18 date of receipt of the appropriate deliverability test
19 report form at the appropriate Division District Office.

20 A change in a well's deliverability due
21 to any other reason shall become effective on the first day
22 of the month following the month during which the retest is
23 approved in the appropriate Division District Office.

24 And as I say, this we feel is necessary
25 so that everyone will be playing by the same rules according

1 to the conditions that he is retesting a well whatever he
2 has done.

3 In reading the rules as written in Order
4 R-8170 for the four prorated gas pools in northwest New
5 Mexico, I notice that Rule 9-A is included in each of the
6 special pool rules. I feel that it is not necessary to in-
7 clude Rule 9-B in each of the special pool rules as it is a
8 common rule to all of those pools.

9 Now, the Committee recommended that we do
10 a little bit of changing in this 1985/1986 question mark
11 1987 hectic year of testing wells. Presently there are a
12 few wells that have not had a test for 1986 completed and it
13 is the recommendation of the Committee that we extend the
14 delinquent date until March 31st of 1987 in order to conduct
15 the 1986 deliverability tests that are required for 1986.

16 With this late date in getting the 1986
17 tests completed, the Committee felt it might be a headache
18 problem to be able to schedule all of the necessary wells
19 under the presently presumed scheduling of tests for 1987,
20 particularly in that we would start conditioning periods for
21 1987 in December of 1986 in a normal year.

22 So far we have not started a conditioning
23 period in December but the attitude at the last Committee
24 meeting was that we should suspend deliverability test re-
25 quirements for the year 1987, of the biennial test require-

1 ments to obtain the flow pressures, flow pressures and flow
2 data, necessary to conduct a deliverability test, and what
3 I'm trying to say is that for those pools that would normal-
4 ly be required to be tested in 1987, that those tests be
5 suspended until the same normal testing period of 1988 and
6 the wells that would normally be tested in 1988 would be
7 suspended for a year until 1989.

8 Now there are certain wells in the San
9 Juan Basin as new wells or worked over wells, wells that do
10 not have three annual deliverability tests on file with the
11 Commission at this time. Those would normally be tested
12 this year regardless of what pool they're producing from.
13 We do not ask for a suspension of testing on those wells be-
14 cause until they get three tests, they are tested annually
15 anyway.

16 So with that recommendation we would like
17 to submit that as a Committee recommendation and there are
18 people here today from various companies that may have their
19 own idea of what their company would desire to do and they
20 have been advised to freely give that information to the
21 Division.

22 Q Mr. Kendrick, if I just might interrupt
23 for a second, in reference to this latest recommendation for
24 an extension of the 1986 deliverability test period and a
25 suspension of the 1987 deliverability flow test requirement,

1 I've received some calls from -- from people involved in the
2 business and their concern is that if this test period is
3 suspended, that it may affect various contract rights, espe-
4 cially take or pay, if that determined by deliverability.

5 Do you know how they might deal with this
6 or what the -- how this might affect them?

7 A No, I do not how this might affect them,
8 but surely if they have the space to take the gas into their
9 pipeline I would think for them to go ahead and take at test
10 in the normal manner, but not use that test value as a pro-
11 portion factor in mixing with other wells in the same pool
12 that are tested the same year.

13 Q So you're saying that the extension is
14 optional and operators and producers can go ahead and test
15 their well if they desire.

16 A Yes, I would think that they could.

17 Q And use that. Okay. Do you have any-
18 thing further before I get into a few general questions we
19 have?

20 A Just on this deliverability testing we're
21 asking for suspension of the flow test part for 1986, mean-
22 ing the 21 days that is made up of the 2-week conditioning
23 period and 7-day flow period, but we're asking that they
24 still take a shut-in pressure that year, and whether it's
25 seven days or more, as long as it is seven days or more,

1 submit that pressure to the Division, Division's District
2 Office.

3 Well testing in nonprorated pools would
4 not be suspended for 1987 and the test would be scheduled
5 and tested according to the normal test procedure.

6 I have a list of members that have worked
7 with me on this deliverability test committee through the
8 years. This has been updated as well as I can and I'm not
9 sure today that I have left some of the people off that were
10 in the early days that are no longer with us, but I'd like
11 to submit that to the Commission and thank each of those
12 people for the help that they have given to the committee
13 and doing the work that we have tried desparately to do in
14 the three year time.

15 Q And we'll -- could we mark that as Exhi-
16 bit G-1?

17 Okay, Mr. Kendrick, you answered one of
18 my questions by giving us that membership list.

19 Another one is that since it's been such
20 a period of time since we had the last hearing on this, I
21 recall at that hearing that you testified the purpose for --
22 for having this hearing and changing the rules was that old
23 Rule 333 had been compiled over a period of time. It was
24 confusing and difficult to understand, and that this was es-
25 sentially a recompilation to simplify the understanding of

1 the rule. Is that why we've reopened the case today? Es-
2 sentially there's -- we're not really changing a lot, you're
3 simply continuing the process of recompiling, making that
4 rule simpler to understand?

5 A Yes, sir.

6 Q And just also to clarify the record,
7 could you explain how the committee met and went about mak-
8 ing these latest recommendations, just very briefly?

9 A The committee met in Farmington on Novem-
10 ber the 6th and at that time we did have a good discussion
11 about how many tests were lacking tied to different pipe-
12 lines. Would you as a pipeline be able to take the gas for
13 deliverability testing next year? When can you finish up
14 this year's test? The whole compendium of items were well
15 discussed and we felt that these recommendations that we
16 have given you today best satisfies the overall attitude of
17 the industry at that time.

18 Q Okay. I believe that's all the general
19 questions I have and because this is a complex subject I'll
20 let industry representatives that are more familiar with it
21 ask you any more specific questions if they have any.

22 MR. TAYLOR: So that's all I --
23 I would, I suppose, ask if Exhibits A-One through G-One were
24 prepared by you or under your supervision or are they com-
25 pilations of the recommendations of the Committee?

1 A They're more a compilation of the recom-
2 mendations of the Committee.

3 MR. TAYLOR: And I would move
4 that those be admitted as exhibits.

5 MR. STOGNER: Exhibits A-One
6 through G-One will be admitted into evidence at this time.

7 Does that conclude your ques-
8 tions, Mr. Taylor?

9 MR. TAYLOR: Yes, sir.

10 MR. STOGNER: Mr. Duke, I'll
11 have you -- I'll open questioning up to you before I open it
12 up to the general --

13

14

CROSS EXAMINATION

15 BY MR. DUKE:

16 Q Very briefly, Mr. Kendrick. Are you re-
17 commending that 1987 flow tests be suspended and not shut-in
18 pressure tests?

19 A Yes, sir, the requirements for the flow
20 tests be suspended, yes, sir.

21 Q And how about for '86?

22 A '86 we will -- the requirements will re-
23 main that that test must be filed but we have extended the
24 filing date until March the 31st of '87 to get all of the
25 1986 deliverability tests on file with the Aztec Office of

1 the NMOCD.

2 Q Thank you, that's all I have.

3 MR. STOGNER: Mr. Stamets?

4

5 QUESTIONS BY MR. STAMETS:

6 Q Mr. Kendrick, as I recall originally the
7 discussion was to come up with a testing manual for the San
8 Juan Basin that would be a separate document. What you've
9 identified as Exhibit A-One, I think, is this the -- has the
10 title page and everything?

11 A Yes, sir.

12 Q Now is that going to be a separate docu-
13 ment or do you propose that that be a part of the Division's
14 Gas Well Test Manual?

15 A May I answer it this way: That's -- we
16 have certain proposals that we would give to the Commission
17 to recognize a new manual to take the place of the back
18 pressure test manual of New Mexico; that this manual would
19 be identified as for San Juan Basin use. It would be all
20 inclusive of everything we do in the San Juan Basin but
21 would not necessarily be applicable to the rest of the State
22 of New Mexico.

23 Q So what we wind up with would be two gas
24 testing manuals, one the general manual, one specifically
25 for deliverability for San Juan Basin.

1 A Deliverability and any other testing that
2 is required in San Juan Basin, yes, sir.

3 Q Okay, and what you've presented here to-
4 day would be a part of that manual.

5 A Yes, sir.

6 Q All right, and are you going to subse-
7 quent to this hearing submit me a complete copy of that that
8 we can use to -- for printing purposes or are we going to
9 have to go through the transcript and figure out exactly
10 what it was you said each page, each section?

11 A I thought that's what the hearing was
12 for?

13 I would be happy to help you any way I
14 can at putting this together.

15 Q Outstanding. In these rules tell me
16 where it makes it clear when you're supposed to only take a
17 shut-in pressure as opposed to a full deliverability test.

18 A The write-up that you are holding in your
19 hand, which I believe is Exhibit B-One, starts with prorated
20 well testing requirements and near the back of that write-up
21 is nonprorated wells.

22 Now, there are only four prorated pools
23 in San Juan Basin, four prorated gas pools, so whoever is
24 operator of a well should know what pool they're in and
25 whether it's prorated or not, and then could go to prorated

1 or nonprorated and I believe the description found in that
2 write-up in Exhibit B-One will tell whether.

3 Q So the -- if you are filing a shut-in
4 pressure for a prorated pool because you had no gas passed,
5 that would be on form C-122-A.

6 A Yes, sir, and I believe that's covered.

7 Q Okay, and then if you're in an unprorated
8 pool, you would be required to take a biennial shut-in pres-
9 sure test and that would be -- let's see -- that would be
10 filed then on Form C-122 -- or C-125-B.

11 A Yes, sir.

12 Q Now, remembering back, the C-125 that we
13 used for the rest of the state is one that we would now gen-
14 erate by computer and send to each operator and say to the
15 operator, you've got to test your wells and submit the data
16 on this form and that avoids a tremendous amount of head-
17 aches for the Division.

18 Are we talking about that same sort of a
19 procedure for the San Juan Basin?

20 A Yes, sir, we are. We're talking about
21 using the same form that's generated in Santa Fe and submit-
22 ted to the operator and he puts the shut-in pressure on that
23 and submits it back to the --

24 Q Okay, now why does that need a separate
25 number?

1 A It does not need a separate number. I
2 was trying to identify that as the same form that you are
3 using in southeast at the present time.

4 Q Okay, so if it's a C-125 in the southeast
5 it will still be a C-125.

6 A Yes, sir. I had understood that the
7 electronic data process printed form did have a separate
8 number of suffix letters, or something. I'm not --

9 Q No, it doesn't.

10 The other thing that I recall from ear-
11 lier discussions on this is that the C-125 that we use does
12 not have a psia on it; that we have programmed the computer
13 to automatically add 13.2 psia to all of the reported pres-
14 sures. Is there any problem with that same sort of a proce-
15 dure in the San Juan Basin where we'll get the gauge pres-
16 sure and plug in the San Juan Basin number to get psia?

17 A As long as the form identifies what
18 pressure is submitted so that everyone submits the same
19 pressure, whether it be gauge pressure or absolute pressure,
20 then 12 pounds added to gauge pressure for San Juan Basin.
21 I see no problem with either way as long as everyone knows,
22 and there may be another answer from another staff member
23 available to that question.

24 Q Okay. Moving on to other areas, the --
25 what's the reasoning behind the proposed change in the

1 definition of a -- it's not a workover any more, it's re-
2 test. Why? Why has that been done?

3 A In the taking of deliverability test in
4 the San Juan Basin, it has become extremely difficult at
5 some times to decipher, to discern, to truly know what is a
6 workover, and in two conditions nearly identical one could
7 be a workover and treated as a workover and one would not be
8 a workover and would not be treated.

9 So the definition that we have recommend-
10 ed to the Division here is that anything that changes the
11 deliverability which is the element of the producing ability
12 of that well, that becomes used in allocating the monthly
13 allowables to the well, that factor changing needs a new de-
14 liverability test, and as deliverability is used only in the
15 San Juan Basin as one of the factors in assigning allow-
16 ables, then this is the main place that that would be neces-
17 sary.

18 Q And the reason for the extension of the
19 period of time for submittal of 1986 deliverability is what?

20 A 1986 being as hectic a year as it has
21 been, some pipelines have not been able to schedule all of
22 the wells tied to their system for the deliverability test
23 up to this date.

24 Q And that goes back to the problems of
25 marketing gas.

1 A Yes, sir, it does.

2 Q And would those same problems be the
3 reason for suspension of the 1987 testing or delay of 1987
4 testing.

5 A If we look at what has happened in the
6 year of 1985 and 1986 in the marketing problems, and those
7 problems experienced by various pipelines, I think they
8 might look and say we may expect problems in 1987, and this
9 may be one way to alleviate the problem and still be -- have
10 wells evaluated on an equitable basis to prorate between
11 wells in the same pool.

12 MR. STAMETS: That's all.

13 MR. STOGNER: We'll open it up
14 to Mr. Chavez?

15

16 QUESTIONS BY MR. CHAVEZ:

17 Q Mr. Kendrick, by moving the test year up
18 one year for the different pools, would we possibly miss a
19 pool, for example, the '87 test year would be for taking the
20 Basin Dakota Pool, if we were to move the deliverability
21 testing of that pool to 1988, what would happen to the Mesa-
22 verde information which would be lost during what would nor-
23 mally have been its test year during 1988?

24 A It -- its flow test requirement would
25 move to '89, so there would be a 3-year span of data for each

1 of the four pools for the flow test data of deliverability
2 between '86 and '88 that -- it would go on a 3-year cycle
3 for a one time only time period.

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

5 MR. STOGNER: Then we'll start
6 with general questions.

7 We'll start on this side of the
8 room and go around. If you'll stand up, state your name and
9 your affiliation it will make it a lot quicker.

10
11 QUESTIONS BY MR. WILLIAM CLARK:

12 Q William Clark, Blackwood and Nichols.

13 Babe, is it the intention of the Commis-
14 sion or of your test committee there, that if an opertor did
15 something like installed a stopcock or a plunger lift sys-
16 tem, that that would qualify for any activity and he could
17 then go and request a retest of that well?

18 A I'll answer that with a semi-question and
19 say that if it changes the deliverability of the well, then
20 it meets the requirement for a deliverability retest.

21 Q Okay, normally those are installed to im-
22 prove performance of the wells.

23 A And if it causes a change in deliver-
24 ability that qualifies for a retest.

25 Q Okay, thank you.

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QUESTIONS BY MR. ED MARCUM:

Q Ed Marcum with El Paso Natural Gas.

On your question about this testing is optional, Babe, I didn't really understand there on the take or pay contract. Was it your interpretation that if an operator under a take or pay contract had a desire to have a deliverability test run, would that be run just for the take or pay contract or would that test be filed with the OCC?

Because if that's true, I think we're going to have some tests filed and some not next year.

A My answer to that is it's not a required test. It is satisfying a condition between the operator and the pipeline and what they do is beyond the testing requirement by the Division for that testing, and it would not be necessary to file that test with the Division if the operator of that well should be -- continued to be prorated on the same deliverability that was of the same year as all other wells in that pool.

Q Okay, it would not be filed through Frank's office, then.

A It would not be necessary to file it through his office.

Q We -- I agree heartily with what Babe said here about the relief that we need in the pipeline area

1 about deliverability scheduling.

2 But at the same time quite a few
3 operators have addressed the question to me in Farmington
4 that they're concerned that they would like to run
5 deliverability tests, and I don't know if they have got back
6 to you people or not or if Frank can help answer that.

7 We didn't get very much input, did we?
8

9 STATEMENT BY MR. JOEL FOX:

10 Joel Fox, with Tenneco Oil. As
11 part of the Deliverability Test Committee, as being a member
12 of that and also representing Tenneco, our definite stance
13 is somewhat dependent upon the pipelines in the San Juan
14 Basin area and their ability to take the gas due to the de-
15 mand situation more than a contractual.

16 Our stance would be to continue
17 with deliverability testing for '87 unless there exists the
18 testimony from any pipeline such that the testing would
19 really -- that such testing would really be impossible due
20 to contract or demand, system demand problems.

21 If there is such a moratorium
22 on testing issued, we would be in favor of reinstating the
23 past deliverability on record for that well to account for
24 its allowable. In other words, we'd be afraid, we would not
25 want the allowable of that particular proration unit to be

1 lost if delayed by the testing of that unit was not able to
2 be completed.

3 So kind of in conclusion, we're at the
4 mercy of the pipelines, I guess, on the testing.

5 MR. STOGNER: Any questions?
6

7 QUESTIONS BY MR. STAMETS:

8 Q Babe, I understood that your propos
9 would do what Tenneco asked for at the end, which was that
10 we continue the current deliverability until a new test be-
11 gan.

12 A Until new tests are required for all
13 wells in the pool, yes, sir.

14 Q Right.
15

16 QUESTIONS BY MR. CHAVEZ:

17 Q Mr. Kendrick, one point for clarification
18 in the change to Rule 9-B, the word in there is changes of
19 deliverability. That will account for any decreases in de-
20 liverability that may require testing also, doesn't it?

21 A The door is open. If I were an operator
22 and did something to a well that caused my deliverability to
23 go down, I might be hesitant about telling anyone about it
24 but I think that I would not be hesitant to tell anyone that
25

1 I had done something to my well to increase the deliver-
2 ability, and if I have increased that deliverability, then I
3 would try to get credit for that by a new deliverability
4 test, getting a higher deliverability, and consequentially a
5 higher allowable.

6 MR. STOGNER: Are there any --
7 okay, Mr. Marcum?

8 MR. MARCUM: I have a question.

9
10 QUESTIONS BY MR. MARCUM:

11 Q On brand new wells, Babe, I understood
12 the 3-year test would be required for (not understood) but
13 on the new wells, prorated pools, they still would require
14 the deliverability test, right?

15 A Yes, a brand new well in any prorated
16 pool would be required to be -- to have a deliverability
17 test conducted until there are three annual tests on record
18 before they could fall into any suspended period of time.

19 Q Following the guidelines that we now
20 stipulate in the manual for ninety days.

21 A Yes, sir.

22 MR. STAMETS: I'd also point
23 out that Exhibits C-One and D-One might ought to have some
24 titles on them to say what they are.

25 A Mr. Stamets, that's one thing I haven't

1 learned how to do on that magic box is put titles on pages
2 of calculations. Some way we can doctor that, I hope.

3 MR. STAMETS: I think we've
4 probably got a typewriter that will do it if you'll tell us
5 what the titles ought to be.

6 A Okay.

7 MR. STOGNER: Scissors and
8 other paper work wonders.

9 Any further questions of Mr.
10 Kendrick at this time?

11 I believe we're ready for
12 statements.

13 Is there any further testimony
14 at this time from anybody?

15 We're ready for -- I believe
16 we're ready for statements at this time.

17 Mr. Duke, I'll let you go
18 first, and Mr. Taylor, if you have anything further, or is
19 there anybody else that would like to make a statement at
20 this time?

21 Okay, Mr. Duke.

22 MR. DUKE: Mr. Chairman, Mr.
23 Examiner, I think many of our concerns have been addressed
24 by Mr. Kendrick. I guess what Gas Company's main concern is
25 that as old deliverability tests become more and more stale

1 that they become more inaccurate and thus the allowables be-
2 come unrealistic.

3 We're afraid, and I don't know
4 the extent of this possibility, that a producer could be
5 producing at capacity and still not meeting his allowable
6 and be subject to a cancelled allowable, and of course, this
7 affects us as far as take or pay and our contractual obliga-
8 tions. Like I say, I don't know the extent of the problem.
9 I think the Division would be in a better position to assess
10 that.

11 I concur with Mr. Fox that if
12 -- if it is a case of impossibility, that then some relief
13 needs to be granted as far as testing goes.

14 But I would ask that the Divi-
15 sion take -- take this possibility into account of allow-
16 ables being based on old deliverability data.

17 That's all.

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

20 Mr. Taylor:

21 MR. TAYLOR: I have no state-
22 ment.

23 MR. STOGNER: Does anybody else
24 have anything further in either of these cases at this time?

25 If not, both Cases Numbers 9050

1 and 8586 will be taken under advisement.

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(Hearing concluded.)

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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 Nos. 8586 and 9050 heard by me on 3 December 1986.

Michael J. Jones, Examiner
Oil Conservation Division