CASE 4649: MOTION OF OCC FOR THE AMENDMENT OF GAS WELL TESTING PROCEDURES PROMULGATED BY R-333-F.

Case Number 4649

Application

Trascripts

Small Exhibits

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Before the

NEW MEXICO OIL CONSERVATION COMMISSION STATE LAND OFFICE BUILDING SANTA PE, NEW MEXICO January 19, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of the Oil Conservation Commission on its own motion for the amendment of the gas well testing procedures promulgated by Order No. R-333-F for Northwest New Mexico.

Case No. 4649

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

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MMS BLDG.e.P.O. BOX 1092-PHONE 243-6601-ALBUQUERQUE. WEW MEXICO 87103

MR. NUTTER: We will call the next case, Mr. Hatch.

MR. HATCH: The next case if the Application of the

Oil Conservation Commission on its own motion to advertise

procedures promulgated by Order R-333-F, Northwest New Mexico.

I am George Hatch, appearing on behalf of the Commission and the staff.

I just have one witness, Mr. Arnold.

EMORY ARNOLD

a witness, having been first duly sworn according to law, upon his oath, testified as follows:

DIRECT EXAMINATION

BY MR. HATCH

- Q Would you identify yourself?
- A I am Emory Arnold, supervision commission of District 3, Aztec, New Mexico.
- Q Would you briefly describe the area covered by District 3?
- A The San Juan-Rio Arriba-Sandoval and McKinley Counties.
- Q Are you familiar with Case 4649 and what it proposes?
- A Yes.
- O Are you familiar with the gas-well testing procedures required by the Commission, the Counties of San Juan, Rio Arriba, and Sandoval?
- A Yes, I am.
- Q Those are set forth in Order R-35-F?
- 5 A Right.

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1	Ö	Would	you	turn	your	attention	now	then	to	Chapter	1	of
2		Order	R-33	3-F?								

Do you have a copy of that order?

A Yes.

O Explain to the Examiner the changes that are proposed in Chapter 1, the reasons for the changes.

Actually, I am proposing three amended orders, R-3-33-F, the first is in Chapter 1; the second is in Chapter 2; and the third is in Chapter 1 again.

The first amendment would change the Chapter 1, Section 2, sub-section B and would change the first sentence on this sub-section to read as follows:

"All annual deliverability and shut-in pressure tests required by these rules must be filed with the Commission's Aztec Office and the appropriate gas transmission facility within sixty days following completion of the test."

Actually, the changes, the word changing portion is the last, which says sixty days following completion of the test.

At the present time the rule provides that these tests be submitted within thirty days after the end of the month during which the test is completed, and the reason I am proposing that this be changed is that it doesn't give the same period of time for the submission of all tests.

Obviously, if a well is complete tested early in the

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month an operator has close to sixty days.

If it is completed late in the month, he has only approximately thirty days, so I think that should be changed to allow the same elapse of time between completion of the test and submission of the tests for all wells.

- Before you go on to the next part, I notice you are Q recommending that all tests--what is the wording?
- I believe the question all annual deliverability tests, and was for most annual deliverability tests.
- Could you question the Examiner perhaps on why that change was made?
- I discussed that with Mr. Nutter prior to the hearing, and he was pointing out that the wells, tested wells which have tests completed between December 1st and December 31 must be submitted no later than January 10th.

I am not recommending that the test be completed December 1st and December 31, be allowed sixty days before submission, so I think that he was accepting those wells which have tests completed between December 1st and December 31.

MR. NUTTER: That is the reason the ad said "Most." THE WITNESS: Right.

MR. NUTTER: If we change the thirty to sixty, and leave the sentence provided however that any tests completed between December 1 and December 31 must be filed no later than

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January 10, then the rule would serve, as you propose, would it not?

Right, that would take care of that situation, and I don't Α propose that be changed.

Q (By Mr. Hatch) Go ahead with your other proposed changes.

Yes, the second amendment would be to Chapter 2, Section 2, paragraph 9, which is a paragraph that we have been suspending yearly and substituting an amendment for during 1969, 1970 and 1971.

The amendment I am proposing would be to the first two sentences, mentioned previously in the amendment, and would read as follows:

"To obtain the shut-in pressure of a well under the test, the well should be shut-in sometime during the annual testing season for a period of seven to fourteen consecutive days, such shut-in pressure shall be measured during the eighth and fifteenth day following the shutting-in of the well."

This is the exact wordage that we have used in order R-3673; R-3870 and R-4089, which amended annually this section.

During 1970 and '71 -- we felt that we know enough history on this change to recommend that the order be itself amended so that we wouldn't have to come back each year for amendments, special amendments.

EXPERT TESTIMONY, DAILY COPY, CONVENTION

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Why were those--why was it suspended before?

Well, it was suspended because of the fact that we were having a great deal of difficulty in shutting-in wells for seven days during periods of high demand, and upon recommendation of pipeline companies and operators in the area, we granted these exceptions to allow float tests during high demand periods from January through May, about the first of June. That is the way they have been doing it the last few years.

Mainly it has to do with meeting gas demands and also we have found that there doesn't seem to be anything detrimental insofar as test accuracy is concerned by taking these in pressures at other times during the year then following a flow period.

You got a third revision?

Yes, the third revision would be to add a sentence at the end of Chapter 1, Section 3, sub-section A, paragraph 2.

The added sentence would read as follows:

"Notice to the Commission of shut-in pressure tests which are to be scheduled at a time other than following the flow test must be received prior to the time that the well is shut-in."

Actually, this is simply to clarify procedure insofar as separately scheduled shut-in pressure tests are concerned.

SPECIALIZING IN: DEPOSITIONS, MEARINGS, STATEMENTS, EXPERT TESTIMONY, DALLY COFY, CONVENTIONS

The way the thing has been working, sometimes the seven day shut-ins have to be re-scheduled during the summer, and sometimes an operator doesn't know very far ahead of time when he is going to be able to shut it in, and if we can get notification just prior to the time it shuts in, then the Commission will be on notice, so if they want to notice a test they can do so, or so can anyone else. In your opinion, will the changes recommended by you cause any undue or unnecessary burden upon any operators or transportation facilities?

Not that I am aware of.

MR. NUTTER: Are there any other questions of Mr.

Arnold?

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You may be excused. Do you have a twin copy of your proposed changes, Mr. Arnold?

THE WITNESS: Yes.

MR. HATCH: I have the original of the record.

MR. NUTTER: Anything further, Mr. Hatch?

MR. HATCH: No. That is all.

Does anyone have anything they wish to MR. NUTTER: offer in the case?

MR. MANGEL: I am Mr. Mangel from El Paso Natural Gas.

I have a written statement here I would like to make in this case, surprisingly, it is in support of the Commission

PTELIALIZING IN: DEFONTIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DALLY COPY, CONVENTIO 209 SIMMS BLDG. P.O. BOX 1092 PPHONE 243-6601 PALBUGUERGUE, NEW MEXICO 67103 PIRST NATIONAL BANK BLDG. EAST PALBUGUERGUE, NEW MEXICO 67108 10

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proposal.

We have no objection to what Mr. Arnold proposed for the end of the year. This would suit us fine. The timely filing of the tests will aid all parties concerned. Thank you, Mr. Examiner.

MR. NUTTER: Yes, sir, Mr. Manning.

Does anyone else have anything else to offer in Case 4649?

We will take the case under advisement and call Case 4637.

SIMMS PLDG.2 P.O. BOX 1092-PHONE 243-66910-ALBUQUERQUE. NEW MEXICO 87103

STATE OF NEW MEXICO)

OUNTY OF BERNALILLO)

I, RICHARD STURGES, a Certified Shorthand Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability

CERTIFIED SHORTHAND REPORTER

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209 SIMMS DLDG.8 P.O. BOX 1092.8 PHONE 243-6691.8 ALBUQUERQUE. NEW MEXICO 87103 First national bank bldg. East-841. Buquerque, new mexico 87108

 \overline{I} \overline{N} \overline{D} \overline{E} \overline{X} PAGE WITNESS EMORY ARNOLD Direct Examination by Mr. Hatch



Dear Sir:

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

February 2, 1972

GOVERNOR
BRUCE KING
CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY – DIRECTOR

Mr. Bob Manning El Paso Natural Gas Company Post Office Box 1492 El Paso, Texas 79999	Rei	Order No. Applicant:	4649 R-333-G

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

A. L. PORTER, Jr.
Secretary-Director

Very truly yours,

ALP/1r			•	
Copy of orde	er al s o sent	to:		
Hobbs OCCArtesia OCC	*		•	
Aztec OCC	X			
Other				

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 4649 Order No. R-333-G

APPLICATION OF THE OIL CONSERVATION COMMISSION ON ITS OWN MOTION FOR THE AMENDMENT OF THE GAS WELL TESTING PROCEDURES PROMULGATED BY ORDER NO. R-333-F FOR NORTHWEST NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 19, 1972, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>lst</u> day of February, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That there is need for a number of amendments to Order R-333-F, heretofore entered by the Commission, said order outlining the testing procedure for gas wells completed in San Juan, Rio Arriba, McKinley, and Sandoval Counties, New Mexico.
- (3) That the following amendments should be adopted, in the interests of conservation.

IT IS THEREFORE ORDERED:

(1) That Sub-Section B. of Chapter I, Section 2, Order No. R-333-F, is hereby amended to read as follows:

-2-CASE NO. 4649 Order No. R-333-G

"All Annual Deliverability and Shut-In Pressure Tests required by these rules must be filed with the Commission's Aztec office and with the appropriate gas transportation facility within 60 days following the completion of each test. Provided however, that any test completed between December 1 and December 31 must be filed not later than January 10. Failure to file any test within the above-prescribed times will subject the well to the loss of one day's allowable for each day the test is late. No extension of time for filing tests beyond January 10 will be granted except after notice and hearing."

(2) That Paragraph 2 of Sub-Section A of Chapter I, Section 3, of Order No. R-333-F, is hereby amended to read as follows:

"The gas transportation facility shall be notified immediately by any operator unable to conduct any test as scheduled. In the event a well is not tested in accordance with the test schedule, the well shall be re-scheduled by the gas transportation facility, and the Commission and the operator of the well so notified in writing. Notice to the Commission must be received prior to the conclusion of the 14-day conditioning period. Notice to the Commission of shut-in pressure tests which are scheduled at a time other than immediately following the flow test must be received prior to the time that the well is shut-in."

(3) That Paragraph nine of Chapter II, Section 2 of Order No. R-333-F is hereby amended to read as follows:

"To obtain the shut-in pressure of a well under test, the well shall be shut in some time during the annual testing season for a period of seven to fourteen consecutive days. Such shut-in pressure shall be measured during the eighth to fifteenth day following shutting in of the well. The 7-day shut-in pressure shall be measured on both the tubing and the casing when communication exists between the two strings. The higher of such pressures shall be used as P_C in the deliverability calculation. When any such shut-in pressure is determined by the Commission to be abnormally low, the shut-in pressure to be used shall be determined by one of the following methods:"

-3-CASE NO. 4649 Order No. R-333-G

- 1. A Commission-designated value.
- 2. An average shut-in pressure of all offset wells completed in the same zone.
- 3. A calculated surface pressure based on a measured bottom-hole pressure. Such calculation shall be made in accordance with the New Mexico Oil Conservation Commission "Back Pressure Manual," Example No. 7.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

> STATE OF NEW MEDICO OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

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A. L. PORTER, Jr., Member & Secretary

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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO 1000 RIO BRAZOS ROAD - AZTEC

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OIL CONSERVATION COMM.

GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

Dear George:

December 27, 1971

Mr. George Hatch

Santa Fe, New Mexico

P. O. Box 2088

Oil Conservation Commission

When in Santa Fe the other day Elvis and I discussed proposed revisions to Order R 333-F shich is the San Juan Basin Gas Well Testing Order. It was decided that I will put on the case and that we should advertise for January 19 if possible.

The first amendment would be to Chapter 1, Section 2, Subsection B and would change the first sentence of this subsection to read as follows: "All annual deliverability and shut in pressure tests required by these rules must be filed with the Commission's Aztec office and the appropriate gas transmission facility within sixty days following the completion of each test" (underlined portion represents change from the present rule). The remainder of paragraph B would remain unchanged.

The second amendment would be to Chapter 11, Section 2, papagraph 9 which is the paragraph which we have been suspending and substituting an amendment for yearly during 1969, 1970 and 1971. The amendment orders are R 3673, R 3878 and R 4089. The first two sentences of this paragraph would be amended to read as follows: "To obtain the shut in pressure of a well under test, the well shall be shut in some time during the annual testing season for a period of seven to fourteen consecutive days. Such shut in pressure shall be measured during the eighth to fifteenth day following shutting in of the well,"

The third revision would be to add a sentence at the end of Chapter 1, Section 3, Subsection A, Paragraph 2. The added sentence would read as follows: "Notice to the Commission of shut in pressure tests which are scheduled at a time other than following the flow test must be received prior to the time that the well is shut in."

Please contact me if you need further information in order to set the case for hearing.

Happy New Year.

Emery d. Arnold

Yours very truly,

Supervisor, District #3

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BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 2695 Order No. R-333-F

THE APPLICATION OF THE OIL CONSERVATION COMMISSION UPON ITS OWN MOTION FOR AN ORDER REVISING, AMENDING, OR DELETING CERTAIN PORTIONS OF ORDER R-333-C & D AS AMENDED BY ORDER R-333-E PERTAINING TO GAS WELL TESTING PROCEDURE APPLICABLE TO GAS WELLS COMPLETED IN SAN JUAN, RIO ARRIBA, MCKINLEY, AND SANDOVAL COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 8, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 30th day of November, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That there is need for a number of additions to and revisions of Order No. R-333-C & D as amended by Order No. R-333-E, heretofore entered by the Commission, said order outlining a testing procedure for gas wells completed in the Counties of San Juan, Rio Arriba, McKinley, and Sandoval, New Mexico.
- (3) That the following rules and regulations should be adopted, and that said rules and regulations are in the interest of conservation.

-3-CASE No. 2695 Order No. R-333-F

through December 31 each year except as follows:

- 1. An Annual Deliverability and Shut-In Pressure Test will not be required during the current year for any well connected to a gas transportation facility after October 31. Such tests may be taken at the option of the operator of the well, however.
- 2. When the Initial Deliverability and Shut-In Pressure Test required by Section 1-B above has been taken in accordance with the annual testing procedure outlined in Section 2 of Chapter II of these rules, the initial test may be considered the annual test for the year in which the test was completed. Provided however, that if an operator intends to use such initial test as the first annual test, he must notify the Commission and the gas transportation facility to which the well is connected of his intent in writing prior to the conclusion of the 14-day conditioning period.
- B. All Annual Deliverability and Shut-In Pressure Tests required by these rules must be filed with the Commission's Aztec office and with the appropriate gas transportation facility within 60 days after the end of the month during which the test is completed. Provided however, that any test completed between December 1 and December 31 must be filed not later than January 10. Failure to file any test within the above-prescribed times will subject the well to the loss of one day's allowable for each day the test is late. No extension of time for filing tests beyond January 10 will be granted except after notice and hearing.

Section 3: Scheduling of Tests

A. Annual Deliverability Tests

By December 1 of each year, each gas transportation facility shall, in cooperation with the operators involved, prepare and submit a schedule of the wells to which it is connected which are to be tested during the ensuing January and February. Said schedule shall be entitled, "Annual Deliverability and Shut-In Pressure Test Schedule," and shall be submitted in triplicate to the Commission's Aztec office. At least one copy shall also be furnished each operator concerned. The schedule shall indicate the date of tests, pool, operator, lease, well number, and location of each well. At least 30 days prior to the beginning of each succeeding 2-month testing interval, a similar schedule shall be prepared and filed in accordance with the above.

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BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 2695 Order No. R-333-F

THE APPLICATION OF THE OIL CONSERVATION COMMISSION UPON ITS OWN MOTION FOR AN ORDER REVISING, AMENDING, OR DELETING CERTAIN PORTIONS OF ORDER R-333-C & D AS AMENDED BY ORDER R-333-E PERTAINING TO GAS WELL TESTING PROCEDURE APPLICABLE TO GAS WELLS COMPLETED IN SAN JUAN, RIO ARRIBA, MCKINLEY, AND SANDOVAL COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

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NOW, on this 30th day of November, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, evidence adduced, and being fully advised in the premises,

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That there is need for a number of additions to and revisions of Order No. R-333-C & D as amended by Order No. R-333-E, heretofore entered by the Commission, said order outlining a test-ing procedure for gas wells completed in the Counties of San Juan, and Amended Movinsian and Sandayal Nov. Movinsian Movinsian Movinsian and Sandayal Nov. Movinsian and Sandayal No Rio Arriba, McKinley, and Sandoval, New Mexico.
- (3) That the following rules and regulations should be adopted, and that said rules and regulations are in the interest of conservation.

-3-CASE No. 2695 Order No. R-333-F

through December 31 each year except as follows:

- An Annual Deliverability and Shut-In Pressure Test will not be required during the current year for any well connected to a gas transportation facility after october 31. Such tests may be taken at the option of the operator of the well, however.
- 2. When the Initial Deliverability and Shut-In Pressure Test required by Section 1-B above has been taken in accordance with the annual testing procedure outlined in Section 2 of Chapter II of these rules, the initial test may be considered the annual test for the year in which the test was completed. Provided however, that if an operator intends to use such initial test as the first annual test, he must notify the Commission and the gas transportation facility to which the well is connected of his intent in writing prior to the conclusion of the 14-day conditioning period.
- B. All Annual Deliverability and Shut-In Pressure Tests required by these rules must be filed with the Commission's Aztec office and with the appropriate gas transportation facility within 60 days after the end of the month during which the test is completed. Provided however, that any test completed between December 1 and December 31 must be filed not later than January 10. Failure to file any test within the above-prescribed times will subject the well to the loss of one day's allowable for each day the test is late. No extension of time for filing tests beyond January 10 will be granted except after notice and hearing.

Section 3: Scheduling of Tests

A. Annual Deliverability Tests

By December 1 of each year, each gas transportation facility shall, in cooperation with the operators involved, prepare and submit a schedule of the wells to which it is connected which are to be tested during the ensuing January and February. Said schedule shall be entitled, "Annual Deliverability and Shut-In Pressure Test Schedule," and shall be submitted in triplicate to the Commission's Aztec office. At least one copy shall also be furnished each operator concerned. The schedule shall indicate the date of tests, pool, operator, lease, well number, and location of each well. At least 30 days prior to the beginning of each succeeding 2-month testing interval, a similar schedule shall be prepared and filed in accordance with the above.

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-4-CASE No. 2695 Order No. R-333-F

The gas transportation facility shall be notified immediately by any operator unable to conduct any test as scheduled. In the event a well is not tested in accordance with the test schedule, the well shall be re-scheduled by the gas transportation facility, and the Commission and the operator of the well so notified in writing. Notice to the Commission must be received prior to the conclusion of the 14-day conditioning period.

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It shall be the responsibility of each operator to determine that all of its wells are properly scheduled for testing by the gas transportation facility to which they are connected, in order that all annual tests may be completed during the testing season.

B. Deliverability Re-Tests

An operator may, in cooperation with the gas transportation facility, schedule a well for a deliverability re-test upon notification to the Commission's Aztec office at least ten days before the test is to be commenced. Such re-test shall be for good and substantial reason and shall be subject to the approval of the Commission. Re-tests shall in all ways be conducted in conformance with the Annual Deliverability Test Procedures of these rules. The Commission, at its discretion, may require the re-testing of any well by notification to the operator to schedule such re-test.

Section 4: Witnessing of Tests

Any Initial or Annual Deliverability and Shut-In Pressure Test may be witnessed by any or all of the following: an agent of the Commission, an offset operator, a representative of the gas transportation facility connected to the well under test, or a representative of the gas transportation facility taking gas from an offset operator.

CHAPTER II PROCEDURE FOR TESTING

Section 1: <u>Initial Deliverability and Shut-In Pressure Test</u> Procedure

A. Within 60 days after a newly completed well is connected to a gas transportation facility, the operator shall complete a deliverability and shut-in pressure test of the well in conformance with the "Annual Deliverability and Shut-In Pressure Test Procedures" prescribed in Section 2 of this

-5-CASE No. 2695 Order No. R-333-F

chapter. Results of the test shall be filed as required by Section 1 of Chapter I of these rules.

- B. In the event it is impractical to test a newly completed well in conformance with Paragraph A above, the operator may conduct the deliverability and shut-in pressure test in the following manner (provided, however, that any test so conducted will not be accepted as the first annual deliverability and shut-in pressure test as described in Paragraph A-2 of Section 2, Chapter I):
 - 1. A 7- or 8-day production chart may be used as the basis for determining the well's deliverability, providing the chart so used is preceded by at least 14 days continuous production. The well shall produce through either the casing or tubing, but not both, into a pipeline during these periods. The production valve and the choke settings shall not be changed during either the conditioning or flow period with the exception of the first week of the conditioning period when maximum production would over-range the meter chart or location production equipment.
 - 2. A shut-in pressure of at least seven days duration shall be taken. This shall be the shut-in test required in Paragraph A, Section 1 of Chapter I of these rules.
 - 3. The average daily static meter pressure shall be determined in accordance with Section 2 of Chapter II of these rules. This pressure shall be used as Pt in calculating Pw for the Deliverability Calculation.
 - 4. The daily average rate of flow shall be determined in accordance with Section 2 of Chapter II.
 - 5. The static wellhead working pressure (Pw) shall be determined in accordance with Section 2 of Chapter
 - 6. The deliverability of the well shall be determined by using the data determined in Paragraphs 1 through 5 above in the deliverability formula in accordance with Section 2 of Chapter II.
 - 7. The data and calculations for Paragraphs 1 through 6 above shall be reported as required in Section 1 of Chapter I of these rules, upon the blue-colored Form C-122-A.

-6-CASE No. 2695 Order No. R-333-F

Section 2: Annual Deliverability and Shut-In Pressure Test Procedure

This test shall be taken by producing a well into the pipeline through either the casing or tubing, but not both. The production valve and choke settings shall not be changed during either the conditioning or flow periods except during the first seven days of the conditioning period when maximum production would over-range the meter chart or the location production equipment. The daily flowing rate shall be determined from an average of seven consecutive producing days, following a minimum conditioning period of 14 consecutive days production. The first seven days of said conditioning period shall have not more than one interruption, which interruption shall be no more than 36 continuous hours in duration. The eighth to fourteenth days, inclusive, of said conditioning period shall have no interruptions whatsoever. All production during the 14-day conditioning period plus the 7-day deliverability test period shall be at static wellhead working pressures not in excess of 75 percent of the previous annual 7-day shut-in pressure of the well if such previous annual shut-in pressure information is available; otherwise, the 7-day initial deliverability shut-in pressure of the well shall be used.

In the event that the existing line pressure does not permit a drawdown as specified above with the well producing unrestrictedly into the pipeline, the operator shall request an exception to this requirement on Form C-122-A. The request shall state the reasons for the necessity for the exception.

Instantaneous pressures shall be measured by deadweight gauge during the 7-day flow period at the casinghead, tubinghead, and orifice meter, and shall be recorded along with instantaneous meter-chart static pressure reading.

When it is necessary to restrict the flow of gas between the wellhead and orifice meter, the ratio of the downstream pressure to the upstream pressure shall be determined. When this ratio is 0.57, or less, critical flow conditions shall be considered to exist across the restriction.

When more than one restriction between the wellhead and orifice meter causes the pressures to reflect critical flow between the wellhead and orifice meter, the pressures across each of these restrictions shall be measured to determine whether critical flow exists at any restriction. When critical flow does not exist at any restriction, the pressures taken to disprove critical flow shall be reported to the Commission on Form C-122-A in the "Remarks" section of the form. When critical flow conditions exist, the instantaneous flowing pressures required hereinabove shall be measured during the last 48 hours of the 7-day flow period.

-7-CASE No. 2695 Order No. R-333-F

When critical flow exists between the wellhead and orifice meter, the measured wellhead flowing pressure of the string through which the well flowed during test shall be used as P_t when calculating the static wellhead working pressure (P_w) using the method established below.

When critical flow does not exist at any restriction, P_t shall be the corrected average static pressure from the meter chart plus friction loss from the wellhead to the orifice meter.

The static wellhead working pressure (P_w) of any well under test shall be the calculated 7-day average static tubing pressure if the well is flowing through the casing; it shall be the calculated 7-day average static casing pressure if the well is flowing through the tubing. The static wellhead working pressure (P_w) shall be calculated by applying the tables and procedures set out in the New Mexico Oil Conservation Commission Manual entitled "Method of Calculating Pressure Loss Due to Friction in Gas Well Flow Strings for San Juan Basin."

To obtain the shut-in pressure of a well under test, the well shall be shut in immediately after the 7-day deliverability flow test for the full period of seven consecutive days. Such shut-in pressure shall be measured within the next succeeding twenty-four hours following the 7-day shut-in period. The 7-day shut-in pressure shall be measured on both the tubing and the casing when communication exists between the two strings. The higher of such pressures shall be used as P in the deliverability calculation. When any such shut-in pressure is determined by the Commission to be abnormally low, the shut-in pressure to be used shall be determined by one of the following methods:

1. A Commission-designated value.

- 2. An average shut-in pressure of all offset wells completed in the same zone.
- 3. A calculated surface pressure based on a measured bottom-hole pressure. Such calculation shall be made in accordance with the New Mexico Oil Conservation Commission "Back Pressure Mannual," Example No. 7.

All wellhead pressures as well as the flowing meter pressure tests which are to be taken during the 7-day deliverability test period as required hereinabove shall be taken with a deadweight gauge. The deadweight reading and the date and time according to the chart shall be recorded and maintained in the operator's records with the test information.

Orifice meter charts shall be changed and so arranged as to reflect upon a single chart the flow data for the gas from each well

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for the full 7-day deliverability test period; however, no tests shall be voided if satisfactory explanation is made as to the necessity for using test volumes through two chart periods. Corrections shall be made for pressure base, measured flowing temperature, specific gravity, and supercompressibility; provided however, if the specific gravity of the gas from any well under test is not available, an estimated specific gravity may be assumed therefor, based upon that of gas from near-by wells, the specific gravity of which has been actually determined by measurement.

The 7-day average flowing meter pressure shall be calculated by taking the average of all consecutive 2-hour flowing meter pressure readings as recorded on the 7-day flow period chart. The pressure so calculated shall be used in calculating the wellhead working pressure, determining supercompressibility factors, and calculating flow volumes.

The 7-day flow period volume shall be calculated from the integrated readings as determined from the flow period orifice meter chart. The volume so calculated shall be divided by the number of testing days on the chart to determine the average daily rate of flow during said flow period. The flow chart shall have a minimum of seven and a maximum of eight legibly recorded flowing days to be acceptable for test purposes. The volume used in this calculation shall be corrected to New Mexico Oil Conservation Commission standard conditions.

The average flowing meter pressure for the 7-day or 8-day flow period and the corrected integrated volume shall be determined by the purchasing company that integrates the flow charts and furnished to the operator or testing agency when such operator or testing agency requests such information.

The daily volume of flow as determined from the flow period chart integrator readings shall be calculated by applying the Basic Orific Meter Formula:

$$Q = C' \sqrt{h_w P_f}$$

Where:

Q = Metered volume of flow Mcfd @ 15.025, 60° F., and 0.60 specific gravity.

C' = The 24-hour basic orifice meter flow factor corrected for flowing temperature, gravity, and supercompressibility.

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> h_w = Daily average differential meter pressure from flow period chart.

> Pf = Daily average flowing meter pressure from flow period chart.

The basic orifice meter flow factors, flowing temperature factor, and specific gravity factor shall be determined from the New Mexico Oil Conservation Commission "Back Pressure Test Manual."

The daily flow period average corrected flowing meter pressure, psig, shall be used to determine the supercompressibility factor. Supercompressibility Tables may be obtained from the New Mexico Oil Conservation Commission.

When supercompressibility correction is made for a gas containing either nitrogen or carbon dioxide in excess of two percent, the supercompressibility factors of such gas shall be determined by the use of Table V of the C.N.G.A. Bulletin TS-402 for pressures 100-500 psig. or Table II, TS-461 for pressures in excess of 500 psig.

The use of tables for calculating rates of flow from integrator readings which do not specifically conform to the New Mexico Oil Conservation Commission "Back Pressure Test Manual" may be approved for determining the daily flow period rates of flow upon a showing that such tables are appropriate and necessary.

The daily average integrated rate of flow for the 7-day flow period shall be corrected for meter error by multiplication by a correction factor. Said correction factor shall be determined by dividing the square root of the chart flowing meter pressure, psia, into the square root of the deadweight flowing meter pressure, psia.

Deliverability pressure, as used herein, is a defined pressure applied to each well and used in the process of comparing the abilities of wells in a pool to produce at static wellhead working pressures equal to a percentage of the 7-day shut-in pressure of the respective individual wells. Such percentage shall be determined and announced periodically by the Commission based on the relationship of the average static wellhead working pressures $(P_{\rm W})$ divided by the average 7-day shut-in pressure $(P_{\rm C})$ of the pool.

The deliverability of gas at the "deliverability pressure" of any well under test shall be calculated from the test data derived from the tests hereinabove required by use of the following deliverability formula:

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$$D = Q \begin{bmatrix} \begin{pmatrix} 2 & 2 \\ P_C & -P_d \end{pmatrix} \\ \begin{pmatrix} 2 & 2 \\ P_C & -P_w \end{pmatrix} \end{bmatrix}^n$$

Where:

- D = Deliverability Mcfd at the deliverability pressure, (P_d) , (at Standard Conditions of 15.025 psia and $60^{\circ}F$).
- Q = Daily flow rate in Mcfd, at wellhead pressure (P_w) .
- P_C = 7-day shut-in wellhead pressure, psia, determined in accordance with Section 2 of Chapter II.
- P_d = Deliverability pressure, psia, as defined above.
- Pw = Average static wellhead working pressure, as determined from 7-day flow period, psia, and calculated from New Mexico Oil Conservation Commission "Pressure Loss Due to Friction" Tables for San Juan Basin.

Mesaverde Formation	0.75
Dakota Producing Interval	0.75
Fruitland Formation	0.85
Farmington Formation	0.85
Pictured Cliffs Formation	0.85
Other Formations	0.75

(Note: Special Rules for Any Specific Pool or Formation May Supersede The Above Values. Check Special Rules If In Doubt.)

The value of the multiplier in the above formula (ratio factor after the application of the pool slope) by which Q is multiplied shall not exceed a limiting value to be determined and announced periodically by the Commission. Such determination shall be made after a study of the test data of the pool obtained during the previous testing season. The limiting value of the multiplier may be exceeded only after the operator has conclusively shown to the Commission that the shut-in pressure $(P_{\rm C})$ is accurate or that

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the static wellhead pressure $(P_{\mathbf{w}})$ cannot be lowered due to existing producing conditions.

Any test prescribed herein will be considered unacceptable if the average flow rate for the final 7-day deliverability test is more than ten percent in excess of any consecutive 7-day average of the preceding two weeks. A deliverability test not meeting this requirement shall be invalid and the well shall be re-tested.

All charts relative to initial or annual deliverability tests or photostats thereof shall be made available to the Commission upon its request.

All testing agencies, whether individuals, companies, pipeline companies, or operators, shall maintain a log of all tests accomplished by them, including all field test data.

All forms heretofore mentioned are hereby adopted for use in the San Juan Basin Area in open form subject to such modification as experience may indicate desirable or necessary.

Initial and Annual Deliverability and Shut-In Pressure Tests for gas wells in all formations shall be conducted and reported in accordance with these rules and procedures. Provided however, these rules shall be subject to any specific modification or change contained in Special Pool Rules adopted for any pool after notice and hearing.

CHAPTER 111 INFORMATIONAL TESTS

A. A one-point back pressure test may be taken on newly completed wells before their connection or reconnection to a gas transportation facility. This test shall not be a required official test but may be taken for informational purposes at the option of the operator. When taken, this test must be taken and reported as prescribed below:

ONE-POINT BACK PRESSURE POTENTIAL TEST PROCEDURE

- 1. This test shall be accomplished after a minimum shut-in of seven days. The shut-in pressure shall be measured with a deadweight gauge.
- 2. The flow rate shall be measured by flowing the well three hours through a positive choke, which has a 3/4-inch orifice.
- 3. A 2-inch nipple which provides a mechanical means of accurately measuring the pressure and temperature

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of the flowing gas shall be installed immediately upstream from the positive choke.

- 4. The absolute open flow shall be calculated using the conventional back pressure formula as shown in the New Mexico Oil Conservation Commission "Back Pressure Test Manual."
- 5. The observed data and flow calculations shall be reported in duplicate on Form C-122, "Multi-Point Back Pressure Test for Gas Wells."
- 6. Non-critical flow shall be considered to exist when the choke pressure is 13 psig or less. When this condition exists the flow rate shall be measured with a pitot tube and nipple as specified in the Commission's Manual of "Tables and Procedure for Pitot Tests." The pitot test nipple shall be installed immediately downstream from the 3/4-inch positive choke.
- 7. Any well completed with 2-inch nominal size tubing (1.995-inch ID) or larger shall be tested through the tubing.
- B. Other tests for informational purposes may be conducted prior to obtaining a pipeline connection for a newly completed well upon receiving specific approval therefor from the Commission's Aztec office. Approval of these tests shall be based primarily upon the volume of gas to be vented.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

E. S. WALKER, Member

SEAL

A. L. PORTER, Jr., Member & Secretary

esr/

DOCKET; EXAMINER HEARING - WEDNESDAY - JANUARY 19, 1972

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for February, 1972, from fifteen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
 - (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for February, 1972.
- CASE 4645: Application of Acoma Oil Corporation for down-hole commingling,
 Lea County, New Mexico. Applicant, in the above-styled
 cause, seeks authority to commingle production from the
 Drinkard Pool and Wantz-Abo Pool in the well-bore of its
 S. J. Sarkeys A Well No. 1, a triple completion, located
 in Unit A of Section 26, Township 21 South. Range 37 East,
 Lea County, New Mexico.
- CASE 4648: Application of Aztec Oil & Gas Company for an unorthodox well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the off-pattern unorthodox location for its Vasaly Federal Well No. 1-Y to be located 790 feet from the North line and 1795 feet from the West line of Section 31, Township 32 North, Range from the West, Blanco-Mesaverde Pool, San Juan County, New Mexico.
- CASE 4625: (Continued from the December 15, 1971, Examiner Hearing)
 Application of Texaco Inc. for downhole commingling,
 Eddy County, New Mexico. Applicant, in the above-styled
 cause, seeks authority to commingle production from the
 Paduca-Morrow and Paduca-Wolfcamp Gas Pools in the wellbore of its Cotton Draw Unit Well No. 65 located in Unit
 G of Section 2, Township 25 South, Range 31 East, Eddy
 County, New Mexico.
- CASE 4642: (Continued from the January 5, 1972, Examiner Hearing)

 Application of Fluid Power Pump Company for special pool rules and a pressure maintenance project, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Media-Entrada Pool, including a provision for 160-acre spacing and proration units. Applicant further seeks authority to

CASE 4649:

Application of the Oil Conservation Commission on its own motion for the amendment of the gas well testing procedures promulgated by Order No. R-333-F for Northwest New Mexico. The Commission proposes to amend Chapter I of said Order No. R-333-F in such a manner as to provide that most annual deliverability and shut-in pressure tests required by said order be filed within 60 days following the completion of the test and to provide for notice to the Commission of any rescheduling of shut-in pressure tests. The Commission further proposes to amend the ninth paragraph of Chapter II, Section 2 of said order to permit shutting in gas wells for the required shut-in test other than immediately following the 7-day deliverability flow test and to permit measuring the shut-in test pressure during the 8th to 15th day of shut-in of of the well rather than on the 8th day as presently required.

CASE 4637:

(Continued from the December 15, 1971, Examiner Hearing)
In the matter of the hearing called by the Oil Conservation
Commission on its own motion to permit Luttrell Oil Company
and all other interested persons to appear and show cause
why the following-described wells in New Mexico should not
be plugged and abandoned in accordance with a Commissionapproved plugging program:

Luttrell Oil Company State Well No. 1 - Unit M, Section 28, Township 2 South, Range 26 East, De Baca County;

Luttrell Oil Company Corn Well No. 1 - Unit A, Section 5, Township 8 South, Range 24 East, Chaves County.

CASE 4651: Southeastern New Mexico nomenclature case calling for an order for the creation and extension of certain pools in Lea and Roosevelt Counties, New Mexico.

(a) Create a new pool in Roosevelt County, New Mexico, classified as a gas pool for San Andres production and designated as the Baker-San Andres Gas Pool. The discovery well is the Cactus Drilling Corporation of Texas Kewanee State No. 2 located in Unit G of Section 9, Township 7 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 7 SOUTH, RANGE 35 EAST, NMPM SECTION 9: NE/4

(Case 4651 continued)

(b) Extend the Bluitt-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM SECTION 15: All

(c) Extend the Littman-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM SECTION 20: SE/4

(d) Extend the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM SECTION 27: SW/4

(e) Extend the North Vacuum-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM SECTION 18: W/2

(f) Extend the Vada-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 34 EAST, NMPM SECTION 36: NW/4

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM SECTION 17: NW/4 SECTION 18: N/2

Statement of El Paso Natural Gas Company in Case 4649

El Paso Natural Gas Company supports the application of the Commission for an order amending the ninth paragraph of Chapter II, Section 2, of Order R-333-F. This would permit shutting in of gas wells for the required shut-in test at some period during the test season other than immediately following the seven day deliverability flow test and to permit measuring the shut-in pressure test during the eighth to the fifteenth day of shut-in of the well rather than precisely on the eighth day as presently required.

El Paso Natural Gas Company also concurs with the Oil Conservation Commission's proposal to amend Order R-333-F for Northwest New Mexico specifically Chapter I of the said Order in such a manner as to provide that all annual deliverability and shut-in pressure tests required by said Order be filled within sixty days following the completion of the test and to provide for notice to the Commission of any re-scheduling of shut-in tests. The timely filing of tests will aid all parties concerned.

An exception was granted for the testing of wells in the San Juan Basin area for the years 1969, 1970, and 1971. El Paso considers that the tests taken during these years, in accordance with the exceptions, have given results comparable in accuracy and validity to those obtained for the testing method presently outlined in Order R-333-F. The same factors necessitating the exception for the years 1969, 1970, and 1971; namely, high and varying market demand for gas from the San Juan Basin area, are expected to prevail during the coming years consequently it is considered appropriate to modify the provisions of Order R-333-F in order to avoid the need for annual exceptions. El Paso urges the approval of the proposed amendments to the provisions of Order R-333-F.

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Case 4649 AMENDMENT - Order R 333-F

1. Chapter 1, Section 2, Subsection B presently reads as follows: All annual Deliverability and Shut in pressure tests required by these rules must be filed with the Commission's Aztec Office and with the appropriate gas transportation facility within 30 days after the end of the month during which the test is completed

The proposed amendment would change the underlined portion to read "within sixty days following the completion of each test".

Reason for proposal:

The new wording would allow the same length of time to elapse between completion of testing and submission of the test for each well, whereas this time period in the present rule varies from 30 to 60 days depending upon whether a test is completed early or late in a given month. This makes it difficult for an operator to secure the needed information from the pipeline and submit the test in time, if the test was completed late in the month.

2. The second amendment is to Chapter II, Section 2, Paragraph 9 and amends the section which states that a well must be shut in for seven days immediately following the flow test. This section has been amended yearly by special orders during 1969, 1970 and 1971 because of the fact that it has been difficult, if not impossible, to schedule shut in pressure tests during periods of high demand. For that reason it has been the practice during these three years to schedule all flow tests possible during the winter and early spring and to schedule corresponding shut in pressure tests commencing about June I when the demand is lower. There has been no indication that this procedure adversely effects test accuracy. As it appears that the problem of being able to secure shut in pressures during high demand periods will continue indefinitely, it is proposed that R- 333-F be amended so that it will not be necessary to conduct annual hearings to provide yearly exceptions.

Page 2

3. The third revision is to Chapter 1, Section 3, Subsection A, Paragraph 2. It is proposed a sentence be added to the end of Paragraph 2 which would read as follows: "Notice to the Commission of shut in pressure tests which are scheduled at a time other than following the 7 day flow test must be received prior to the time that the well is shut in".

The purpose of this sentence is to clarify notification proceedures for shut in pressure tests. We have found that it is often necessary to change scheduled shut in pressure dates and the addition of the above sentence would allow changes in scheduling to be made on relatively short notice and still to insure that the Commission will be notified in time to witness any shut in pressure tests that it is desired to witness.

Will this foul up the prosation dept. in any manner? His so

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DEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

APPLICATION OF THE OIL CONSERVATION COMMISSION ON ITS OWN MOTION FOR THE AMENDMENT OF THE GAS WELL TESTING PROCEDURES PROMULGATED BY ORDER NO. R-333-F FOR NORTHWEST NEW MEXICO.

CASE No. 4649

Order No. R-<u>333-6</u>

RECORDS CENTER

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 19, 192, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this day of danuary , 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That there is need for a number of amendments to Order

 R-333-F, heretofore entered by the Commission, said order outlining

 the gas testing procedure as gas wells completed in San Juan, Rio Order

 Sandovel Sandovel McKinley, and Rio Arriba Counties, New Mexico.
- (3) That the following amendments should be adopted, in the interests of conservation.

IT IS THEREFORE ORDERED:

- (1) That Sub-Section B. of Chapter I, Section 2, Order No. R-333-F, is hereby amended to read as follows:
- "All Annual Deliverability and Shut-In Pressure Lests
 required by these rules must be filed with the Commission's
 with the appropriate gas transportation facility
 within size days following the completion of each test.

 Provided however, that any test completed between December 1
 and December 31 must be filed not later than January 10.

 Failure to file any test within the above-prescribed times
 will subject the well to the loss of one day's allowable for
 each day the test is late. No extension of time for filing
 tests beyond January 10 will be granted except after notice
 and hearing."
- (2) That Paragraph 2 of Sub-Section A of Chapter I, Section 3, of Order No. R-333-F, is hereby amended to read as follows:

"The gas transportation facility shall be notified immediately by any operator unable to conduct any test as scheduled. In the event a well is not tested in accordance with the test schedule, the well shall be re-scheduled by the gas transportation facility, and the Commission and the operator of the well so notified in writing. Notice to the Commission must be received prior to the conclusion of the 14-day conditioning period. Notice to the Commission of shut-in pressure tests which are scheduled at a time other than immediately following the flow test must be received prior to the time that the well is shut-in.

-3-CASE NO. 4649 Order No. R-

(3) That Paragraph nine of Chapter II, Section 2 of Order No. R-333-F is hereby amended to read as follows:

"To obtain the shut-in pressure of a well under test, the well shall be shut in some time during the annual testing season for a period of seven to fourteen consecutive days.

Such shut-in pressure shall be measured during the eighth to fifteenth day following shutting in of the well. The 7-day shut-in pressure shall be measured on both the tubing and the casing when communication exists between the two strings. The higher of such pressures shall be used as P_C in the deliverability is the following shutt-in pressure, to be used shall be determined by one of the following methods:"

- 1. A Commission-designated value.
- An average shut-in pressure of all offset wells completed in the same zone.
- 3. A calculated surface pressure based on a measured bottom-hole pressure. Such calculation shall be made in accordance with the New Mexico Oil Conservation Commission "Back Pressure Mannual," Example No. 7.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated. Tand McK

application of the ail consurate Com on it own mation for the amendemnt's procedures for notherest New marin. The Commission perpases to smend Chifte I of said Order no. R-333-F in such a manner to provide that all donneal Delin ability and Shut in Presence Texto required by said our order be filed within \$ 60 days following the completion of the test and to provide for natere le the Commission of any re-schoduling of shut-in pressure tests. He Commission further proposer to amend chapter I the ninth paragraph of Chapter II, Section 2 of said Ochen to. R-333+ to permit shutting in gow wells for the required shut-in text of the then unmediately following the 7-day delicin ability flow test and to permit measure the shut in that pressure derving the 8th to 15 th day of shut in of the well rather than on the 5th day an presently required.

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1 Neucean ? 333-F 1 Chapt 1 der 2 Sub-see B Change list sentimen to readon follows all annual del and shut feerene tests required by there rules must be filed with Com. agle office And the appears gas transminin facility w/in 160/day fallani, the acompleting earlitest. Chapit 2 See 2 # 9 #2 (3673; 3878 44 4089) July 2 sendences of P9 h Mad as fallaces; To obtain the shall in presence a well under text the lived shall be shirt in some time during the annual testin, plana for a period of the course. days. Auch soul in pursue shall be anced during the 8th to 15 the day of the enach.

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