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

9 May 1984

EXAMINER HEARING

IN THE MATTER OF:

Application of Mesa Petroleum Co. for NGPA determination, San Juan County, New Mexico.	CASE 8183
--	--------------

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation Division:	W. Perry Pearce Attorney at Law Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501
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For the Applicant:

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MR. STAMETS: We'll call next
Case 8183.

MR. PEARCE: That case is in
the matter of the application of Mesa Petroleum Co. for NGPA
determination, San Juan County, New Mexico.

Mr. Examiner, applicant has
requested that this case be continued until the May 23rd
Examiner hearing.

MR. STAMETS: This case will be
so continued.

(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 was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best on 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. 9153 heard by me on 5-9 1984.

Richard P. Stum, 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 7 November 1984

7 COMMISSION HEARING

8 IN THE MATTER OF:

9 Application of Mesa Petroleum Co.
10 for NGPA determination, San Juan
11 County, New Mexico.

CASE
8182
R183

12 BEFORE: Richard L. Stamets, Chairman
13 Commissioner Ed Kelley

14 TRANSCRIPT OF HEARING

15 A P P E A R A N C E S

16 For the Oil Conservation
17 Division:

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

23 For the Applicant:
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3 MR. STAMETS: The hearing will
4 please come to order.

5 We will call the continued
6 cases first this morning.

7 Call first Case 8182. As a
8 matter of fact, let's call Case 8182 and 8183 since they
9 have the same style.

10 MR. TAYLOR: The application of
11 Mesa Petroleum Company for NGPA determination, San Juan
12 County, New Mexico, and the application of Mesa Petroleum
13 Company for NGPA determination, San Juan County, New Mexico.

14 MR. STAMETS: The applicant has
15 requested that these cases be continued till the December
16 12th Commission hearing, and they will be so continued.

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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 Con-
servation Division was reported by me; that the said tran-
script is a full, true, and correct record of the hearing,
prepared by me to the best of my ability.

Sally W. Boyd CSR

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 6 June 1984

7 EXAMINER HEARING

8 IN THE MATTER OF

9 Application of Mesa Petroleum Com-
10 pany for NGPA determination, San
11 Juan County, New Mexico.

CASE
8182

12 Application of Mesa Petroleum Com-
13 pany for NGPA determination, San
14 Juan County, New Mexico.

CASE
8183

15 BEFORE: Richard L. Stamets, Examiner

16 TRANSCRIPT OF HEARING

17 A P P E A R A N C E S

18 For the Oil Conservation
19 Division:

W. Perry Pearce
Attorney at Law
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

20 For the Applicant:

21 Steven C. James
22 Attorney at Law
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24 Vaughn Building, Suite 1000
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A P P E A R A N C E S

For El Paso Natural Gas: Thomas S. Jensen
 Attorney at Law
 El Paso Natural Gas Co.
 P. O. Box 1492
 El Paso, Texas 79978

For Northwest Pipeline: Mary Duffin
 Attorney at Law
 Northwest Pipeline Corporation
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I N D E X

MICHAEL P. HOUSTON

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E X H I B I T S

IN CASE 8182

Mesa Exhibit One, Application

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IN CASE 8183

Mesa Exhibit One, Application

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Northwest Pipeline Exhibit One, Document

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3 MR. STANETS: We'll call next
4 Case 8182.

5 MR. PEARCE: That case is on
6 the application of Mesa Petroleum Company for NGPA determin-
7 ation, San Juan County, New Mexico.

8 MR. JAMES: Mr. Examiner,
9 Steven C. James, appearing on behalf of applicant, Mesa Pet-
10 roleum Co., attorney from Amarillo, appearing in association
11 with the Campbell, Byrd and Black law firm here in Santa Fe.

12 We have one witness.

13 We would also request that Case
14 8183 be consolidated with 8182 since they have very similar
15 facts.

16 MR. STANETS: All right, we'll
17 call Case 8183.

18 MR. PEARCE: That case is on
19 the application of Mesa Petroleum Company for an NGPA deter-
20 mination, San Juan County, New Mexico.

21 Are there other appearances in
22 these consolidated cases?

23 MS. DUFFIN: Mary Duffin, at-
24 torney for Northwest Pipeline, in association with Mont-
25 gomery and Andrews.

MR. JENSEN: Tom Jensen, ap-
pearing on behalf of El Paso Natural Gas Company, also in
association with Montgomery and Andrews.

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MR. PEARCE: Ms. Duffin, do you have a proposed witness in this matter, or more?

MS. DUFFIN: I do. I have one witness.

MR. PEARCE: Okay. Mr. Jensen?

MR. JENSEN: Yes, sir.

MR. PEARCE: You got a witness?

MR. JENSEN: Mr. Kendrick.

MR. PEARCE: Could I ask all of the proposed witnesses to rise at this time, please?

(Witnesses sworn.)

MR. STAMETS: Mr. James, you may proceed.

MR. JAMES: At this time, Mr. Examiner, we will call Mesa Petroleum's Mike Houston.

MICHAEL P. HOUSTON,
being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. JAMES:

Q Would you please state your name and occupation?

A Michael P. Houston. I'm a Division Pro-

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duction Engineer with Mesa Petroleum in Amarillo, Texas.

Q Have you ever testified before this Commission and had your qualifications accepted by them?

A Yes, sir, I have.

MR. JAMES: We would tender the witness' qualifications to the Examiner.

MR. STAMETS: He is considered qualified.

Q How many years have you been with Mesa?

A About ten and a half years.

Q Now, in your capacity as Division Production Engineer for Mesa are you familiar with the applications filed by Mesa in Cases 8182 and 8183?

A Yes, sir, I am.

Q Would you please briefly state what Mesa is seeking in each of these cases?

A Okay. Case 8182 addresses a request by Mesa for a further determination of increase in rate of production of gas from Mesa's State Com "AJ" No. 34 Well in San Juan County, New Mexico, is due to the use of Mesa of a recognized enhanced recovery technique as defined by the FERC.

And, similarly, Case 8183 addresses a request by Mesa for the further determination that an increase in the rate of production of gas from Mesa's State Com "AI" No. 33 Well in San Juan County, New Mexico, is due to the use by Mesa of a recognized enhanced recovery technique as defined by the Federal Energy Regulatory Com-

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mission.

Q Mr. Houston, I would hand you what's been marked Mesa's Exhibit Number One in Case 8182 and ask if you would please identify that exhibit.

A Yes. This is just the application for the further determination of NGPA Section 108 for the State Com "AJ" No. 34.

Q Okay. Mr. Houston, I would ask that you also identify for us Mesa Exhibit Number One as submitted here in Case 8183.

A Okay. This is -- this is also the application for further determination under NGPA Section 108 for the State Com "AI" No. 33.

Q Are those true and correct copies, to the best of your knowledge, of the documents taken from Mesa's files?

A Yes, sir, they are.

Q Now, Mr. Houston, who operates both of these wells?

A Mesa Petroleum.

Q And how much working interest does Mesa have in the State Com "AJ" 34 Well?

A In the "AJ" 34 we have 100 percent.

Q How much working interest does Mesa have in the "AI" 33 Well?

A In the "AI" 33 Well we have 25 percent working interest.

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Q Who owns the rest of the working interest in the "AI" 337

A Superior, I believe, owns 25 percent. El Paso Natural owns 12-1/2 percent and Getty owns 37-1/2 percent.

Q Are you aware that in 1981 both of these wells were approved as stripper wells under Section 108 of the NGPA?

A Yes, sir.

Q Okay, who purchases the gas from these two wells?

A Northwest Central Pipeline.

Q I believe Northwest -- would it be Northwest Pipeline Corporation?

A Yes, uh-huh.

Q You may have Northwest Central confused with Northwest.

A I'm sorry.

Q The -- does El Paso Natural Gas gather the gas from these two wells?

A Yes, they do.

Q And then do they deliver it to Northwest Pipeline?

A That's my understanding.

Q Are you aware that in March of 1983 that Northwest filed notices of increased production for these two wells with this Commission and with the PERC?

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A Correct, I am, yes.

Q Are you aware that later in that same year that Mesa filed notices of increased production and the two requests that you've identified?

A Yes, sir.

Q In mid to late 1982, Mr. Houston, did -- did Mesa start alternately shutting these wells in and then producing them for a various number of days each month?

A Yes, sir.

Q Why?

A In order to maximize production. We felt like we could shut these wells in and improve our overall economics.

Q Did Northwest request you to shut the wells in?

A Yes, they did.

Q Did they request that you turn the wells back on?

A On an intermittent basis --

Q Yes.

A -- yes, they did.

Q Now, how -- how does Mesa go about actually shutting one of these wells in?

A Our Field Foreman addresses some of the pumpers that work for him and they go by and manually close the valves, which prevents any further flow into the pipeline.

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Q And where is your field foreman?

A He's located in Flora Vista, New Mexico.

Q When you want to then recommence production from one of the wells how to do you go about that?

A In a similar fashion. The pumper has to go by and physically open the valves.

Q And this -- this is a Mesa pumper?

A Yes, sir.

Q Mesa employee?

A Yes, sir.

Q Now once Mesa, I believe you've addressed this point briefly, once -- once they began in mid to late 1982 manually regulating the production in this manner from these two wells, what -- what happened to the production from these two wells?

A The production was stimulated and in essence increased to a point above the normal tolerances under NGPA Section 108.

Q Did the overall production from these two wells increase in any particular months as opposed to, say, when they were just open flow?

A Yes, they did.

Q Did Mesa do anything else to these wells to achieve the increases you've talked about?

A No, sir, not that I know.

Q Did anyone else do anything to the two wells that increased the production?

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A No, sir.

Q Now, does the -- does the manual regulation of the flow of gas that you've talked about, does it cause the pressure to build up in the -- in the wells?

A Yes, it would.

Q Okay. Now, does this manual regulation allow you to maintain that pressure build-up from, say, one month to the next?

A Versus keeping the well flowing the --

Q Right.

A -- whole time? Yes, it would.

Q Does the build-up allow Mesa to produce its fair share of the gas underlying the acreage?

A Yes.

Q Now if these applications that are submitted by Mesa in these two cases today are denied, will that have an adverse effect on the economics of producing these two wells?

A Yes, sir, I think that it would.

Q Could such denials also ultimately result in waste?

A Yes.

MR. JAMES: At this time, Mr. Examiner, I would offer Exhibit One in each case, 8182 and 8183, into evidence.

MR. STAMETS: Without objection these exhibits will be admitted.

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2 MR. JAMES: That's all the
3 questions I have at this time.

4 MR. STAMETS: Are there ques-
5 tions of the witness?

6 MS. DUFFIN: I have a couple
7 questions.

8
9 CROSS EXAMINATION

10 BY MS. DUFFIN:

11 Q Mr. Houston, I have just a couple of
12 questions.

13 For clarification, did the directions for
14 the shut-ins that you referred to in your testimony come from
15 Northwest Pipeline or from El Paso Natural Gas, the pipeline
company to whom the wells are connected?

16 A El Paso Natural.

17 Q You indicated that you performed some
18 manual regulation of the two wells and I wanted to ask, fol-
19 lowing that regulation did you notice in the wells an in-
20 crease in flow rate of the wells or an actual increase in
the production, the number of Mcf produced by the two wells?

21 A State those again? I think you're almost
22 talking about the same thing. Maybe I missed it.

23 Q Did the flow rate of the well increase
24 during the few hours that the well was turned on in the
25 course of your manual regulation, thereby actually producing
~~more gas, or was it just a higher rate of flow though during~~

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a shorter period with no net increase in the number of Mcf produced by these two wells?

A I think that the wells actually exhibited a higher rate of flow for a shorter period of time.

Q An actual greater number of Mcf's produced over the shorter period?

A Yes, ma'am.

Q Okay. Could you elaborate a little bit on the adverse effect on Mesa's economics that you refer to in your testimony?

A Comparing -- comparing the stripper price versus the non-stripper price, is that what you're referring to? In other words, if we -- if we were to not receive this extension or this further determination, if we were not to be able to stay under stripper status, we feel like the price would decrease to the point where it would be almost marginal. Maybe not uneconomic, but it would be much more as a marginal case.

Q Is it not possible, Mr. Houston, that Mesa could continue to monitor these two wells over 90-day production periods and so long as the wells did not produce in excess of the 60 Mcf per day limitation Mesa could continue to receive the 108 price without the need for this enhanced recovery designation so that there would in fact be no adverse effect on your economics?

A I think that would be possible, yes, ma'am.

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MS. DUFFIN: That's all my questions. Thank you.

MR. STAMETS: Other questions of the witness?

MR. JENSEN: Yeah, I've got a few questions.

CROSS EXAMINATION

BY MR. JENSEN:

Q Mr. Houston, are you familiar with the Commission's, the Federal Energy Regulatory Commission's temporary build-up, temperature pressure build-up regulations?

A Yes, sir.

Q Is it your opinion that both of these wells would have qualified under those regulations, that Mesa could have filed a temporary pressure build-up application on these wells?

MR. JAMES: I'd object. I'd object to the asking for legal conclusions.

Q Now, when El Paso Natural Gas Company asks -- requests Mesa to shut a well in, and then subsequently requests that they turn it on, is it on any consultation with Mesa as to the build-up of pressure or the potential for enhancing recovery and the rate of production in the wells?

A Not to my knowledge.

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Q In other words, the shutting in and the turning on of wells is done solely -- is done by Mesa solely upon El Paso Natural Gas Company's request?

A Pretty much so, yes, sir.

Q Okay. And I'm not sure if this question has been asked exactly. I think Ms. Duffin was getting at it, but if you took all the -- all the time that the -- that the well -- all the time involved with each of these wells, including shut-in time and producing time, is the total volume produced greater or lesser than would have been produced if the well had been producing continuously?

In other words, taking away the shut-in time, if the well had been produced continuously, was the production greater -- would the production have been greater than with this supposed --

A Yes.

Q -- enhanced recovery technique?

A I think I follow your question and I believe the rate or the volume would be larger than.

Q If it had been continuously?

A Larger than if it had been produced continuously, yes, sir.

Q Okay. Now, I'm not familiar, as familiar with the 34 Well as I am with the 33 because that's the one in which we have an interest, but is there not an intermitter on the "AI" No. 33 Well?

A Yes, sir, there is an intermitter.

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2 Q Okay, and that was operating to -- to al-
3 ternately turn on and off the well prior to -- well, during
4 -- was that operating during 1981 and 1982, the intermitter?

5 A It was operating part of the time but I
6 can't -- I could not swear that it was operating 100 percent
7 of the time.

8 Q And the intermitter no longer operates
9 now that El Paso is requesting you turn on and then off the
10 well for periods of time?

11 A It's operative but I don't believe we use
12 it any longer.

13 MR. JENSEN: No more questions.

14 MR. JAMES: If I might just ask
15 him a question.

16 REDIRECT EXAMINATION

17 BY MR. JAMES:

18 Q I believe you've stated that you're aware
19 that Northwest filed notices of increased production for
20 these two wells in early 1983, is that correct?

21 A Yes, sir.

22 Q And to your -- to your knowledge, if Mesa
23 had done nothing further, then would -- would the wells have
24 been disqualified from the stripper price?

25 A I feel like they would have been, yes,
sir.

Q Now, is it your testimony that this

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manual regulation by Mesa has resulted in an increased rate of production from these wells?

A Yes, I think they do, sir.

MR. JAMES: No further questions.

CROSS EXAMINATION

BY MR. PEARCE:

Q Mr. Houston, I'm unclear on the "AI" 33 well.

Could you explain to me further if you have an operative intermitter on the well but it's not being used, what's going on out there at that well?

A Excuse me, I'm sorry I mislead you.

I -- the intermitter is capable of being operative but it is not in use. All I'm trying to say is the intermitter is not junked.

Q But it's not connected to the flow stream either.

A It's not in use, that's correct.

Q Thank you.

A It is capable of being operative, not junked.

MR. PEARCE: Thank you.

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CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Houston, again, when El Paso was having market problems over the last couple years and they were shutting in not only nonmarginal wells but marginal wells, to meet their market demand, is that correct?

A That's my understanding, yes, sir, that's correct.

Q If it hadn't been for that you wouldn't have gone out there and physically shut those wells in.

A Probably not.

Q Okay. And are you aware that the Division has orders out now which indicate that it's our intention that marginal wells be kept on the pipeline at all times?

A I believe I recall something along those lines, yes, sir.

Q And barring any violation of that by the pipeline, then the shutting in of these wells is on Mesa's own volition at this time.

A Yes, they would be.

Q All right, now, Mr. Houston, you've been an engineer for a long time. In the real world of oil and gas would you classify this as enhanced recovery?

A The mechanical manipulation of the valves?

Q Shutting in a well and turning it back

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on, do you classify that as enhanced recovery?

A I would have to say no, sir.

Q Okay. Now you indicated that if this application were denied that there would be a negative impact on production and I presume you mean ultimate production from this -- these wells, is that correct?

A That's possible, yes, sir. It would be possibly uneconomic at an earlier stage and perhaps we would lose some of the reserves that would normally be produced if the higher price was allowed.

Q How would that work? Under the current rules, you know, the well would be stripper in its last years and it would be drawing stripper price, I presume. How are we going to lose production?

A Well, I think what I'm saying is that with this more careful attention to the well, lease operating expenses are going up and even though we may be in excess of 60 Mcf per day average and above the NGPA 108 requirements. Therefore we receive a -- would receive a lesser price and economics become even more marginal and even to the point that we might have to prematurely, or what I would call prematurely, plug and abandon the well.

Q What price do wells receive when they're not classified as stripper?

A Under 10 -- I don't believe I have that information with me.

MR. STAMETS: Mr. James, do you

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know?

MR. JAMES: We do have it.
What price would 104 be? How much is that, approximately,
right now? Ninety cents plus a STU adjustment.

MR. STAMETS: And what's 109?

MR. JAMES: It's Four Dollars
at the present time.

MR. STAMETS: Mr. James, I
looked at your Memorandum of Law here and it seems as though
in -- what is it in, in the second paragraph where you dis-
cuss the definition of enhanced recovery? Yeah, right.

Would you point out to me there
just exactly where it is that you believe that physically
shutting in a well and turning back on is covered?

MR. JAMES: Process performed
by the producer increases the rate of production of gas from
a well includes mechanical as well as chemical stimulation.

MR. PEARCE: Mr. Houston, do
you happen to know whether or not either or both of these
wells are classified as marginal under the State of New Mex-
ico's proration system for --

A I do not at the present time, no, sir.

MR. PEARCE: Does anybody here
for El Paso happen to know?

MR. KENDRICK: I think I can
tell you.

MR. PEARCE: Would you do that,

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please, sir?

MR. JAMES: Mr. Pearce, we're also talking about a loss of revenues that would result in disqualification from the end of 1982 until present. Even if it is a marginal well and they put it back on stream full time, we would still under the regs, if this is denied today, not be entitled to collect the stripper price from the end of '82 to the present. It would be a significant economic loss in terms of these two wells.

MR. KENDRICK: I'm H. L. Kendrick with El Paso Natural Gas.

In reading the May, 1984, Gas Proration Schedule, as published by the State, page 31, the well is listed only as the No. 33 with a companion well as the 33-E, that multiple well proration unit is classified as nonmarginal.

The State Com "AJ" with Wells No. 34 and 34-E is a multiple well unit also classified as nonmarginal.

MR. PEARCE: Thank you, sir. Thank you. Nothing further.

MR. STAMETS: Any further questions of the witness? He may be excused.

Ms. Duffin?

MS. DUFFIN: Thank you, Mr. Examiner.

I'd like to present this letter

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of association for your records. I'm a member of the Utah Bar, and I'd also like to submit for your use in the course of our presentation, these copies of what I've designated as Exhibit One.

As I go through and refer to the various pages in that exhibit I'll ask that they be admitted into evidence separately.

My name is Mary Duffin. I'm an attorney for Northwest Pipeline.

Northwest is interested in this proceeding due to the fact that it purchases 100 percent of the gas from the "AJ" 34 Well from Mesa Petroleum, the applicant.

We purchase 87-1/2 percent of the gas from the State Com No. 33 Well from the applicant and other interest owners.

Northwest has an interest in these proceedings which cannot be sufficiently represented by any other party and Northwest claims that its participation is in the public interest and is necessary and appropriate in the administration of the Natural Gas Policy Act.

Northwest filed protests relative to Mesa's request for further determination of eligibility for NGPA 108 pricing in these proceedings in mid-1983.

The first two documents in the exhibit package I just handed you, NWP-A and NWP-B, are copies of those two protests.

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2 And if I may at this point, I'd
3 like to make a clarification in those two protests.

4 In the second paragraph of the
5 July protest and in the third paragraph of the August pro-
6 test I indicated that it was not Mesa but Northwest, due to
7 a decrease in demand on these wells, that shut in the wells,
8 and in fact I now understand that the wells are connected to
9 El Paso's system and that it was El Paso's market demand
10 which was the determining factor.

11 I don't think that the sub-
12 stance of Northwest's protests are affected because it was
13 still an issue of pipeline demand which caused the shutin,
14 but I wanted to clarify that for the Examiner today.

15 Northwest appreciates this op-
16 portunity to appear. We'd like to present some technical
17 testimony today, that which was referred to in our protests,
18 indicative of the fact that the production increases demon-
19 strated by these wells were related to and caused by the
20 shutins of El Paso's pipeline connected to the well and were
21 not the result of the application of any enhanced recovery
22 technique.

23 To do that I would like to call
24 upon Mr. Brent Hale, who is Manager of Reservoir Engineering
25 for Northwest Pipeline. He's here with me today and is pre-
pared to present testimony relative to our position.

I'd be happy to ask Mr. Hale
some questions so that you're comfortable about his qualifi-

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cations at this time, if you care for me to.

BRENT WALTER HALE,

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

DIRECT EXAMINATION

BY MS. DUFFIN:

Q Mr. Hale, could you please state your full name?

A My name is Brent Walter Hale.

Q And who are you employed by?

A I'm employed by Northwest Pipeline Corporation.

Q What's your position with that company?

A I'm currently Manager of Reservoir Engineering.

Q Could you provide a description of your educational background and professional degrees?

A Yes. I studied petroleum engineering at the University of Wyoming and received a Bachelor of Science degree in 1976, after which I went to work for Northwest Pipeline.

During 1978 I took a leave of absence from Northwest Pipeline and returned to the University of Wyoming and completed residency and course work requirements on a Master's degree in petroleum engineering. The thesis

1
2 research was completed off campus and I received a Master's
3 degree in 1979 in petroleum engineering.

4 And since then I've worked full time for
5 Northwest Pipeline.

6 Q Could you describe the work that you've
7 done in reviewing qualifications of the wells at issue in
8 this hearing for recognized enhanced recovery designation?

9 A Yes. In reviewing that I've retrieved
10 production records which Northwest has available showing
11 volumes produced, operating pressures on the wells, the
12 amount of time the wells have flowed and the times they have
13 been shut in due to market demand and other -- various other
14 shut-in related causes.

15 Q Did you review any technical literature
16 relative to the generally accepted definition of recognized
17 enhanced recovery technique?

18 A Yes, I did. I conducted a review of the
19 technical literature to see if I could find anything that
20 remotely resembled the application that we're discussing to-
21 day.

22 Q Have you ever provided sworn testimony
23 before this Commission previously?

24 A No, I have not.

25 Q Have you given sworn testimony relative
to other NGPA pricing matters before other State or Federal
commissions?

A I've given testimony before the FERC Com-

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mission relative to tight gas pricing matters.

MS. DUFFIN: I would ask that Mr. Hale be accepted as a qualified witness.

MR. STAMETS: Let me ask a question or two.

Mr. Hale, in your duties as a reservoir engineer would you describe what you've done for Northwest?

A Yes. We've been responsible for gas well testing, reserve analysis, deliverability projections for Northwest Pipeline, which includes the San Juan Basin.

It also includes various reservoirs along the western slope of Colorado and in Green River Basin of Wyoming.

We've conducted extensive transient pressure analyses on many wells. We've also done some compression work, economic analyses for drilling, for installation of gathering systems and various facilities.

MR. STAMETS: The witness is considered qualified.

MS. DUFFIN: Thank you.

Q Mr. Hale, if I could ask you at this point to refer to pages NWP-C and NWP-D in the exhibit package.

The -C page applies to the State Com 33 Well and the -D page applies to the 34 Well.

Could you explain, Mr. Hale, what these

1
2 exhibits reflect as far as flowing days versus down days on
3 these two wells?

4 A Yes. These exhibits are taken from the
5 production records that Northwest maintains on all wells
6 that we have a purchase interest in or else they're connect-
7 ed to our pipeline, and they show the monthly volume pro-
8 duced for each well at the top and then the center graph
9 shows the number of days that the wells actually flowed.

10 Now this is not a producing day but it's
11 the number of days each month that gas is flowing through
12 the gas purchase meters and at the bottom we have a record
13 of the average volume pressure, which is not particularly
14 important in the hearings today. But the volume produced is
15 important and the number of days that the well actually
16 flowed gas is important.

17 We can see by looking at the volume re-
18 cord at the top that there was extensive down time during
19 1982 and 1983, and it's also very obvious that flow rates
20 following the down time did increase.

21 Q Could you identify with respect to the 33
22 Well and then with respect to the 34 Well the specific de-
23 creased flow rates that you're referring to in the case of
24 each of these wells?

25 A The decreased flow rates, during November
of 1982 on the 33 Well the production was way down, and
that's due to market related shutin.

On the number -- on the same well you see

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the production and flowing time also being way down due to market related shutin.

One thing that's very important to observe is that even though the market related shutin was more severe during '82 and '83, it wasn't the first time this had occurred. If you go back to 1979 we find that there were several months during the summer of 1979 where flowing time was reduced, and during November and December of 1979 we had the same type of short term rate increase that we say during the '82, '83, and '84.

MS. DUFFIN: I would ask that Exhibit pages NWP-C and NWP-D be admitted.

MR. STAMETS: Without objection they will be admitted.

MS. DUFFIN: Thank you.

Q Mr. Hale, if I can, I'd now like to refer you to Exhibit pages NWP-E and F. Page E applies to the No. 33 Well and F applies to the 34 Well.

I understand that these exhibits contain a record of the down time on each of the wells beginning in the tenth month of the year 1982 and continuing through April of '84, is that correct?

A That's correct for the "AI" 33 Well.

On the "AJ" 34 Well the down time record begins in January of '83.

Q Thank you. Can you explain what the column "Days Flowing" on these two charts represents?

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2 A That's a record of time that gas was
3 flowing through the measurement meter.

4 Q And what does the column "Days of No De-
5 mand" represent?

6 A That is the time that the well was shut
7 in by request of El Paso Natural Gas because of lack of mar-
8 ket for the gas.

9 Q You're saying that it is El Paso Natural
10 Gas that determines whether or not -- that essentially de-
11 termines the number that appears in that Days of No Demand
12 column?

13 A That's correct.

14 Q Is it the pipeline company or the pro-
15 ducers that makes the decision to shut in a well when
16 there's a day of no demand?

17 A The pipeline company.

18 Q What does the column on each of these ex-
19 hibits "Days of Other Down Time" represent?

20 A When we went through the record we
21 grouped all other down time together and listed it separ-
22 ately. This would include time that the well was down be-
23 cause of intermitter operation; if the well is shut in for
24 pressure buildup testing, or any other miscellaneous mainte-
25 nance or down time that could be caused either by a producer
or by the pipeline.

 Q So in the case of the No. 33 Well the
average days of other down time is 1.52, where the days of

1
2 no demand is 10.3.

3 And in the case of 34, other down time is
4 5.1; days of no demand is 13.8, so less than half indicates
5 what that was. Is that the correct way to read that?

6 A That's correct.

7 Q Okay. Does Mesa operate intermitters on
8 these wells, to your knowledge, Mr. Hale?

9 A Yes, they have intermitters on both wells
10 and they were in operation up until time time the pipeline
11 requested the wells be shut in due to a lack of market, and
12 it appears that because of the pressure buildup associated
13 with the lack of market, the intermitters haven't been used
14 regularly since then.

15 Q If Mesa has intermitters on these wells,
16 why can it not be said that Mesa's responsible for increased
17 flow rates following shutin of the wells?

18 A The intermitter operation is a normal
19 operation of the well. It's what an operator would normally
20 do to maintain the production, and the market related down
21 time is down time in excess of what would normally be re-
22 quired for prudent operation of the well.

23 Q If we were to assume for a minute that
24 Mesa's operation of the intermitters on the wells was re-
25 sponsible for increased flow rates from the well, do records
available to you that you have reviewed in preparation for
this hearing represent that Mesa has, since making their ap-
plications in these cases, utilized the practice of inter-

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2 mitter regulation with the intent of increasing production?

3 A I don't see any evidence from the produc-
4 tion records that Mesa has done anything with regard to
5 their intermitter operation to increase the production.
6 They've operated the intermitters only when necessary and as
7 far as other down time, which has been primarily no demand
8 down time, that has occurred only when the pipelines re-
9 quested it.

10 MS. DUFFIN: I would ask that
11 pages NWP-E and -F be admitted.

12 MR. STAMETS: Without objection
13 they will be admitted.

14 MS. DUFFIN: Thank you.

15 Q Mr. Hale, if you would look at Exhibit
16 pages NWP-G and -H at this time, Exhibit G relates to the
17 State Com 33 Well and Exhibit H relates to the 34 Well.

18 Can you explain what the two axis on
19 these two graphs represent?

20 A Right. We have a graph of production
21 versus time for each well and also a graph of days flowing
22 versus time for each well.

23 On the "AI" 33 on Exhibit G the produc-
24 tion is seen to drop from 1976 from a rate of around 120 Mcf
25 a day down to a minimum of 30 to 33 Mcf a day during mid-
'83.

Also we see a line representing average
days per month flowing and we can see that the "AI" 33 has

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never produced more than 22 to 23 days per month since at least 1977.

Q And what does the Exhibit H reflect about the No. 34 Well?

A The Exhibit H shows the same data for the No. 34 Well. It shows that the intermitter has been in use, that the well has been shut in by Mesa via an intermitter to optimize production on the well, and also we see that producing time during '82 and '83 was reduced and, as we discussed previously, that's related to the market, no demand situation.

Q So the lighter shaded portion of these graphs represents what?

A The lighter shaded area actually represents the production from the well. It's listed as annual Mcf per day but what we have is a twelve-month rolling production, and that is total volume divided by 365. It doesn't accurately represent the rate of production but it does give us a representation of the total production from the well.

Q And the more darkly shaded portion represents the number of days produced.

A That's correct.

Q When was the first time in the case of each of these wells, based on the records you've looked at, that production occurred on less than thirty days per month?

A It's been consistent on both wells since

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1977, and that's as far back as our records go.

Now there have been a few months during the last two years where they have had a full thirty days production following extensive down time, but the history on the wells back through 1977 shows that they have been shut in each month to optimize the production.

Q When I look at these two graphs, Mr. Hale, it doesn't look to me like your accounting for the number of days of production even starts until 1978, about mid-year in both cases, so how can you say that they are reflective of conditions that might have existed back in '77?

A These two graphs show an annual average and the first annual average where we have twelve months complete data to average, was mid-1978.

Q Based on a review of these graphs, Mr. Hale, is it your opinion that the practice of shutting in these wells began in 1982?

A No.

Q If I could ask you, Mr. Hale, is there a difference between the rate of flow of a well and the rate of production from a well?

A Yes, there is a difference. If we're talking about the rate of flow, that can be recorded on a very short period of time. It's how fast the gas comes out of the wellbore, how fast we can run it through a measurement meter.

When we're talking about the rate of pro-

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2 duction, we're talking about the total produced volume. If
3 we talked about production from a well it's not important to
4 know whether a well flows one hour a day or whether it
5 flowed 24 hours a day.

6 If we want to talk about production from
7 a well, then we need to know the total volume and it becomes
8 immaterial how fast the gas was produced.

9 Q Do you agree with Mr. Houston's opinion
10 expressed during his testimony that production from these
11 wells appears to have increased following down time, shut-ins
12 of the wells?

13 A No, I don't, and if you'll look at the --
14 either Exhibit G or Exhibit H, you can see that there is a
15 noticeable drop in production that correlates very well with
16 the drop in days flowing. This is very obvious during 1983
17 and during 1984. Starting in late 1982 when the market re-
18 lated down time began, the average of days flowing started
19 to drop and the average production started to drop. Only in
20 late '83 and early '84 when the total number of days flowing
21 began to increase again did the actual production begin to
22 increase.

23 Q I'd refer you now, Mr. Hale, to Exhibit
24 pages I, J, K, and L in Northwest's exhibit package.

25 NWP-I pertains to the No. 33 Well and --

MR. JAMES: Mr. Examiner, if I
might, I hate to say this objection in advance of the tender
of the exhibits; however, since we are going to have several

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2 exhibits and before we get away from Exhibit G and H, if
3 they are indeed to be tendered and with regard to any testi-
4 mony that's already been submitted with respect to them, I
5 want to ask that they not be admitted. I would ask that all
6 evidence with regard to these exhibits be stricken because
7 it's obviously irrelevant calculations in accordance with
8 the definitions set forth in the NGPA and the regs.

9 These two exhibits incorporate
10 non-productive days into the -- into the exhibit and the
11 NGPA deals only in productive days in determining rate of
12 production.

13 MS. DUFFIN: Mr. Stasets, I
14 will ask that the exhibits be admitted on this basis. I
15 think that they are relevant inasmuch as Section 271.803 re-
16 quires that in order to be a recognized enhanced recovery
17 technique the technique must increase the rate of production
18 of the well as opposed to simply the flow rate of the well.

19 I think Mr. Hale's testified to
20 that difference. I think it is pertinent under the regula-
21 tions and I think these exhibits go to show that in fact the
22 technique at issue in the hearing has not served to increase
23 the rate of production as required by the regulations. I
24 think that's the relevancy of these exhibits.

25 MR. JAMES: I don't agree at
all with their trying -- attempting to distinguish rate of
flow from rate of production. The NGPA in the regs and com-
ments to the regs clearly, clearly stated that they are not

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2 concerned with the ultimate recovery from the well but mere-
3 ly with the increase in the rate of production from the
4 well, whether it goes over 60 Mcf per day or not, and I ob-
5 ject to both of these exhibits.

6 MR. STANETS: We'll overrule
7 the objection and admit these particular exhibits and they
8 will be used for what they're worth in conjunction with our
9 reading and interpretation of the FERC regulations.

10 MS. DUFFIN: Thank you.

11 Q Moving on to Exhibit pages I and J, page
12 I relates to the No. 33 Well and page J relates to the 34
13 Well.

14 Could you explain the two axis of these
15 graphs, Mr. Hale?

16 A Yes. Exhibit I relating to the 33 and J
17 relating to the 34, is actually a graph of production versus
18 days per month that the well flowed or produced gas, and on
19 the "AI" 33 Well we see that up until market related down
20 time became a factor the well typically produced around 22
21 days per month and had a flow rate declining from 56 Mcf per
22 day down to around 40 Mcf per day.

23 At that time the pipeline began to shut
24 in the well due to lack of market for the gas and we see
25 that both production and the days producing decreased.

This is very significant on these types
of wells because of the nature of the reservoir and the
pressure buildup phenomenon associated with down time.

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There is a considerable amount of activity in the reservoir even though the valves may be closed at the surface. So you have to look at actual time flowing and it is important to look at the well in terms of the stabilization time of the reservoir, which is much longer than a day or on these wells it's much longer than a 90-day period specified by the FERC.

When we look at the Exhibit J for the "AJ" No. 34 Well --

MR. STAMETS: Before we -- before we go on there, let's have a little explanation of what we're looking at here on this Exhibit I.

I presume we start up in the upper lefthand corner with all the little -- upper right, with all those pluses?

A Yes.

MR. STAMETS: When is that?

A That is about three years ago.

MR. STAMETS: Okay, and --

A We've got about three years history.

MR. STAMETS: Where -- where did you get this data? What's its source?

A The data comes from the monthly production records on the well. What we're looking at is the volume produced each month as recorded by the pipeline and also the days per month flowing.

MR. STAMETS: How many points do we have on this exhibit?

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A There are roughly thirty points.

MR. STAMETS: And that represents thirty months production.

A Thirty months, yes.

MR. STAMETS: And from what time?

A We're going from April, 1984, back roughly thirty months, which would put us back in the early 1982, I believe. Late 1981 to early 1982.

MR. STAMETS: Okay, and that will be the same for all of the --

A Same for both wells.

MR. STAMETS: Okay. Thank you.

A And the line connecting the points shows the chronological relationship between the data points.

Q Do you read these graphs, Mr. Hale, essentially from the right to the left as far as time?

A That's right.

Q Is that correct?

A That's correct.

Q Go ahead.

A We read them from the right to the left, we find out that as time has increased, the average days per month there's been demand for the gas has decreased, and the average production from the well has also decreased.

On the "AJ" 34 we see a temporary increase about twelve days per month and that shows us that

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2 the stabilization time of the reservoir on this well is
3 greater than twelve months.

4 Q Can you explain, Mr. Hale, what the sta-
5 bilization period of the No. 34 Well means in the context of
6 this application?

7 A What that means is that we shut the well
8 in, let's say, for four months, and if we shut the well in
9 for four months and the stabilization time is greater than a
10 year, that means that a year following the recommencement of
11 production from the well there will be a noticeable impact
12 on the rates.

13 The total volume would not increase but
14 there would be a noticeable increase in daily rate.

15 MS. DUFFIN: I would ask that
16 Exhibits I and J be admitted at this time.

17 MR. JAMES: I'll object to Ex-
18 hibits I and J in that they are based on evidence or deter-
19 minations that are irrelevant to our cases today.

20 MR. STAMETS: I'll overrule
21 your objection on the same basis as the last, and at this
22 time admit the exhibits.

23 Q We can now move, Mr. Hale, to Exhibit
24 NWP-K and NWP-L.

25 NWP-K relates to the No. 33 Well and L
relates to the No. 34 Well.

Can you explain these graphs and what the
axis on them are?

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2 A Yes. These graphs relate the flow rate
3 on the wells to the days per month the wells flow.

4 The flow rate was measured on a monthly
5 basis and days flowing likewise on a monthly basis. Now
6 these differ from the previous graphs. We're looking at in-
7 dividual months here. This is not an annual average of any
8 sort.

9 Mesa Petroleum presented similar evidence
10 in their application, except that instead of dividing or us-
11 ing actual flowing days they did use PERC producing days,
12 which includes some down time.

13 The important thing that we see on Exhi-
14 bits K and L is that as the flowing time decreases, the flow
15 rate does increase, and Mesa has pointed this out. It's a
16 very normal type of phenomenon.

17 On the "A1" 33 Well we see that the well
18 will normally flow at a rate of around 75 Mcf per day if
19 allowed to produce 20 to 25 days per month. The most severe
20 shut-in shows the well producing one day per month and rates
21 have increased to values in excess of 250 Mcf per day flow-
22 ing, so we do see an increase in rate but even though
23 there's an increase in rate we have an associated decrease
24 in total production because of the substantial down time.

25 Q Mr. Hale, from your experience, do most
wells in the San Juan Basin show -- I beg your pardon.

Do they experience some no demand shut-in
time on an annual basis?

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A Currently the majority of the wells are being shut in at some time during the year due to no demand and there is other shut-in time and one thing that's very important is this behavior is very, very typical. It's very normal. The wells have very slow stabilization time. If we shut them in for the summer, it's very often the case that they have flush production or increased spot rates all throughout the next winter.

Q In your experience would most wells react that way?

A Yes.

Q Following shut-in time? Is this how the No. 33 and 34 Wells react following shut-in for no demand, in your judgment?

A Yes.

Q And is that shown by the flow rates set forth in Exhibits C and D?

A Yes, it is.

Q Those are the bar graphs --

A Right.

Q -- that relate flow days and production volumes?

A In fact, the data in Exhibits C and D is the same as the data in Exhibits K and L. We've just reformatted the scale to make it easier to relate flowing time and flow rate.

Q Thank you.

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2 MS. DUFFIN: That concludes my
3 questions of Mr. Hale. I do have a closing statement but if
4 you'll call for those later, I'll just give it at that time.

5 MR. STAMETS: Would you like to
6 admit Exhibits K and L?

7 MS. DUFFIN: I sure would,
8 thank you.

9 MR. STAMETS: Any objections?
10 They will be admitted.

11 MS. DUFFIN: Thank you.

12 CROSS EXAMINATION

13 BY MR. STAMETS:

14 Q Mr. Hale, what is enhanced recovery tech-
15 nique --

16 A If I understand --

17 Q -- and is this one?

18 A As I understand it, enhanced recovery
19 technique is a process where the operator will add energy to
20 the reservoir which might be necessary to produce the hydro-
21 carbons present in the reservoir.

22 In the case of a gas well the best en-
23 hanced recovery technique that I can think of would be the
24 possibility of going in with a hydraulic fracture or some
25 other type of treatment which would allow the well to pro-
duce gas that would not otherwise be produced.

The market related shut-ins are not en-

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2 hanced recovery, as I see it.

3 Q I'm advised that in the past we have ap-
4 proved intermitters as an enhanced recovery technique for
5 this particular program.

6 Is the shutting in of wells physically by
7 the operator any different from the use of an intermitter?

8 A In this case I'd say it's not different.
9 The intermitter operation is normally on a daily cycle and
10 what has really happened here is we've changed the cycle
11 from a daily cycle effectively to an annual cycle.

12 Because of the long stabilization time in
13 the Dakota reservoir, the impact on production and on flow
14 rate is the same except that we're changing our time frame
15 from a matter of days to a matter of years.

16 Total production averaged over the course
17 of the year would see the same type of behavior that we nor-
18 mally would expect from an intermitter if we average over a
19 course of hours.

20 MR. STAMETS: Any other ques-
21 tions of this witness?

22 CROSS EXAMINATION

23 BY MR. JAMES:

24 Q I take it that you're in agreement with
25 us that -- that shutting in the well on some various number
of days each month, as opposed to leaving the well open flow
over the same month, will increase the rate of flow from the

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well during the days it is produced.

A That's right.

Q Now, in your attempting to understand what a technique was, and in your research, did you -- did you come across the Federal Energy Regulatory Commission's statement that when asked -- when they received a number of comments asking them to provide examples, processes, or equipment that constituted recognized enhanced recovery techniques, were you aware that they stated that in this respect we believe it is clear from our revised definition that any technique shall qualify if it increases the rate of production from the well?

A I have reviewed the regulations and the one concern I have is that the rate of flow, the spot rate has increased, the production has dropped off on these wells, and that's the concern I have there.

Q Are you also aware that in the past the Commission has stated that it is not concerned with the ultimate recovery from the well when considering stripper determination?

A The data that I presented this morning does not address the issue of ultimate recovery.

Q Now, since we do agree that the flow rate would be increased in the circumstances we've been discussing today, what caused that flow rate's increase?

A This is the phenomenon of pressure build-up in the reservoir. When you produce the well you have a

1
2 low pressure zone around the well, or fracture, if there be
3 any fracture, when you shut the well in gas will continue to
4 flow and recharge the area near the wellbore.

5 Q Now what causes the pressure to build up,
6 and I'm speaking of -- is there something on the surface
7 that -- that is done that causes the pressure to build up?

8 A The valves have been closed at the sur-
9 face.

10 Q Okay, now who closes the valve?

11 A That's done by the operator. It would be
12 in this case Mesa Petroleum personnel.

13 Q Okay, now I believe that you earlier
14 stated that the wells were shut-in by El Paso, but that's
15 not actually what you meant then.

16 A That's right. The orders are originated
17 from El Paso. The physical work is done by Mesa.

18 Q Okay.

19 MR. JAMES: I believe that's
20 all I have.

21 MR. STAMETS: Any other ques-
22 tions of this witness?

23 MR. STOGNER: Mr. Stamets, if I
24 might.

25 Michael E. Stogner, Alternate
Examiner for today.

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3 QUESTIONS BY MR. STOGNER:

4 Q Mr. Hale, are you familiar if Northwest
5 Pipeline is purchasing any gas from a well that has pre-
6 viously been determined to be a 100 enhanced recovery deter-
7 mination, either from the State of New Mexico on State or
8 fee lands, or from the United States Bureau of Land Manage-
ment on Federal lands in the San Juan Basin?

9 A I do not know.

10 Q To clarify a matter, if I might, you said
11 that an intermitter is a normal procedure?

12 A In the Dakota reservoir in the San Juan
13 it's a very normal type of thing to have an intermitter on a
well.

14 Q Might we go on to say that a normal pro-
15 cedure should not be classified as an enhanced recovery
16 technique?

17 A That would be my opinion, that it's a
18 normal operating practice and not an enhanced recovery prac-
19 tice.

20 Q In the San Juan Basin in the Basin Dakota
21 Pool is it normal to fracture the formation before producing
22 it?

23 A It is.

24 MR. STOGNER: No further ques-
tions, Mr. Stamets.

25 MR. STAMETS: I perhaps would

1
2 point out for the record that the FERC regulations don't ne-
3 cessarily fall under the category of normal.

4 If there are no further ques-
5 tions, the witness may be excused.

6 Mr. Jensen?

7 MR. JENSEN: Mr. Examiner, my
8 name is Tom Jensen and I'm an attorney for El Paso Natural
9 Gas Company.

10 El Paso owns a working interest
11 in the No. 33 Well and as such is interested to that extent.

12 We are also, however, inter-
13 ested to the extent that we are a major purchaser of gas in
14 the San Juan Basin, where there are a good number of strip-
15 per wells, and it's our -- it's our concern to have stripper
16 well regulations properly implemented and we, of course, are
17 fully confident that this Commission will do so in this par-
18 ticular case.

19 We're going to present one wit-
20 ness, Mr. Kendrick, and I will just proceed now with him.

21 H. L. KENDRICK,

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

24 DIRECT EXAMINATION

25 BY MR. JENSEN:

Q Mr. Kendrick, would you please state your

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full name for the record?

MR. JAMES: Mr. Stamets, if I might in advance, since it appears that El Paso intends to present testimony with regard to both cases, I would ask that their testimony be limited to Case 8183, the well in which they have a working interest, and that their testimony not be made a part of the record in Case 8182, since they have -- they lack standing in that case and they have no significant interest which would allow them to intervene in that case.

MR. JENSEN: Well, I disagree, of course, and think there is an interest in the case to the extent that as I stated, we're -- we're a purchaser of gas from stripper wells all over the Basin and elsewhere, and the question is one of law here that we are concerned with, and to an extent it applies to the Case Number 8182 for the 34 Well and it also applies to Case Number 8183 in which we have an actual working interest.

MR. STAMETS: Mr. Jensen, El Paso does purchase gas in the San Juan Basin, does it not?

MR. JENSEN: Yes, sir.

MR. STAMETS: Would you consider these cases precedent setting cases?

MR. JENSEN: Yes, sir, I would.

MR. STAMETS: And El Paso would be affected by the outcome of these cases regardless if you had an interest in the wells?

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2 MR. JENSEN: That's quite cor-
3 rect.

4 MR. STAMETS: And El Paso's
5 pipeline is connected to both of these wells?

6 MR. JENSEN: That's correct.

7 MR. STAMETS: I will overrule
8 the objection and allow the participation of El Paso in both
9 cases.

10 MR. JENSEN: Thank you.

11 Q Mr. Kendrick, would you please state your
12 full name for the record?

13 A I'm Harold L. Kendrick.

14 Q Okay, and are you an employee of El Paso
15 Natural Gas Company?

16 A Yes, I am.

17 Q In what capacity?

18 A I am a Conservation Engineer with El Paso
19 Natural Gas Company in the Production Control Department.

20 Q How long have you been so employed?

21 A I've been with El Paso Natural Gas Com-
22 pany for over thirty years.

23 Q All right, and have you testified before
24 this Commission before?

25 A Yes, sir, I have.

MR. JENSEN: I would ask the
Examiner's acceptance.

MR. STAMETS: He is considered

1
2 qualified.

3 Q I just have a few questions of Mr. Ken-
4 drick. First of all, is it correct that El Paso Natural Gas
5 Company is connected to both the "AI" 33 and the "AJ" 34
6 Wells?

7 A Yes, sir, it is.

8 Q And does El Paso take all of the produc-
9 tion from both wells for its market?

10 A We take the gas into our system to be
11 used as needed.

12 Q And that's pursuant to an exchange ar-
13 rangement with Northwest?

14 A Yes, sir, it is.

15 Q Okay, and El Paso Natural Gas Company is
16 the -- tells Mesa when to turn wells off and on, when to
17 turn these two wells on and off?

18 A Yes, sir, it does.

19 Q And to your knowledge is that done with
20 any consultation with Mesa with regard to -- with regard to
21 their concerns for enhanced recovery of gas from these
22 wells?

23 A No, sir, the turning on and off of wells
24 onto our system is solely based upon our demand or our need
25 for gas or lack of demand and not needing the gas at any
26 particular day or any time during a day.

27 Q And so it's not sensitive at all for well
28 pressures and the enhancement of recovery from -- from the

1 wells?

2 A No, sir.

3 Q And one question regarding an -- regard-
4 ing the intermitters which we have heard testimony today
5 that are at each of these wells and previously were func-
6 tioning.

7 Is it your opinion that -- that if the
8 wells were continuously producing but subject to the opera-
9 tion of an intermitter, would your opinion be that the pro-
10 duction be greater, the total production, total gas produced
11 during the month from such a well be greater or lesser than
12 a well that is being -- than the well's production pursuant
13 to El Paso's alternate shutting in and turning on due to its
14 market demand?

15 And that question might have been very
16 difficult to understand. Maybe I'll repeat it.

17 Okay. We -- we know we've seen -- we've
18 got the testimony and the exhibits concerning what the ac-
19 tual production, total production was from the -- from these
20 two wells during the past couple of years.

21 During that time we also understand from
22 testimony that the intermitters were not operating. The in-
23 termitters that are connected on the wells were not operat-
24 ing.

25 Is it your opinion that if the wells had
26 been -- had not been subject to market restrictions, in
27 other words, El Paso had not been requesting Mesa to shut

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2 the wells in because of lack of market, and the wells were
3 producing continuously but subject to the operation of the
4 intermitter, would -- would the total gas produced during
5 the past couple of years have been greater or lesser than
6 what was actually experienced?

7 A We find that there are various conditions
8 among different wells that can influence the production. If
9 you have a well that will not sustain production on a con-
10 tinuous basis due to liquid loading within the wellbore, we
11 have experienced very good control in producing a well by
12 shutting it in for short periods of time and producing it
13 into the line for short periods of time.

14 This is often done by the use of an in-
15 termitter and we have labeled, our industry has labeled,
16 someone has labeled this as stopcock operation, so that the
17 short shut-in time of a well will allow the pressure to
18 build up enough that the immediate flush when the well is
19 turned on will clean the wellbore of any accumulation and
20 cause the well to produce at a higher rate for a short
21 period of time.

22 However, some wells that are producing at
23 an adequate rate to continuously lift the liquids, any li-
24 quid accumulation in the wellbore, can produce without hav-
25 ing to be shut in at any time and in those cases might pro-
duce gas at a higher rate per day continuously.

 Each well has its own qualification of
whether or not it can lift the liquids at a particular time,

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2 and these wells might qualify one way or the other way.

3 Q Okay. Now as to the No. 33 Well, have
4 you in the course of preparation for your testimony today
5 examined the measurement charts and other production data
6 from these wells?

7 A I have.

8 Q And as to that well, did -- would -- can
9 you opine as to the effectiveness of the intermitter versus
10 continuous production on that well?

11 A I noticed prior to the long term, if you
12 please to call it that, shutting in of the well. The well
13 was operated with an intermitter, a cyclic type production,
14 keeping the wellbore clean of liquids and having a very de-
15 finite, good flow pattern throughout the month as it was
16 produced.

17 After the well was shut in for a longer
18 period of time, then the well was opened back into the line
19 and due to the build-up that had occurred around the well-
20 bore and within the wellbore during the shut-in time, the
21 well was capable of producing at a rate adequate to lift the
22 liquids from the wellbore and not causing the need for the
23 intermitter to be used until the flow rate decreases enough
24 that at that point then you put the intermitter back in ser-
25 vice and keep the wellbore cleaned of liquids that normally
accumulate.

MR. JENSEN: I don't have any
more questions.

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MR. STAMETS: Any questions of this witness?

MR. JAMES: I have just a few.

CROSS EXAMINATION

BY MR. JAMES:

Q I take it that you heard the testimony of Mr. Hale, I believe it was, from Northwest. Do you also believe that it can be distinguished, the definition of rate of production versus the definition of rate of flow?

A That to me would be to anybody's desire of terminology, that there's a certain amount of production you can get per day and a certain amount you can get per month, and however you wish to label it.

Q But they are rates. A rate is a --

A Rate to me has to have a time element to it, yes, sir.

Q And so a rate would not have really anything to do with the ultimate recovery but rather the rate of that recovery.

A The rate would be the amount produced per unit of time, yes, sir.

Q Maybe you're aware of a -- well, we're not talking about the temporary pressure, build-up regulations today, but rather the enhanced recovery regulations, but referring to temporary pressure build-up for a statement from the FERC, I would question if you're aware of this

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quote: "Commenters also question whether a stripper well shut in due to market conditions will qualify under the rules established in the interim rule.

The Commission recognizes that wells have been shut in because of falling market demand for gas and notes that the reason for the shut-in is not a determining factor in the jurisdictional agency's determination."

Were you aware of that?

A No, sir, I was not aware of it because I do not follow NGPA rules and regulations, due to the fact my duties are elsewhere.

Q Do you -- you stated that the shut-in is the result of El Paso Natural Gas's market demand.

Now, isn't it true that El Paso Natural takes the gas that it gathers from Mesa as the operator of these two wells and exchanges that gas in some sort of exchange method with Northwest?

A Yes, sir.

Q So that as a result it cannot be said that these Mcfs are really El Paso Natural Gas's?

A We don't know whether molecularly these are colored blue and others are colored red if we exchange volumes so that we can balance out under our exchange agreement, yes, sir.

Q Well, it's not actually El Paso Natural Gas's market that results in these wells being --

A Yes, it is El Paso's market.

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Q -- shut in.

A In this sense, that today's operation cannot be accounted for in the morning in the business of natural gas.

This month's operation may be accounted for a few months later down the line.

So what we're doing today is putting gas into our pipeline that we think we can let go out the other end later today or tomorrow.

Q Now, when the valve, the surface valve is turned off for a set number of days each month, what happens in the two particular wells we're talking about here today?

A May I ask what do you mean "set number of days each month"?

Q Whatever, however many days it's shut in for -- for the months we've been discussing back to late 1982? What has happened once you shut that well in, down hole?

A What has happened downhole once the well is shut in? Normally when a well is shut in the gas flow stops coming out of the well and the wellbore being the lowest pressured zone of the reservoir, gas will flow from the higher pressured zone of the reservoir to the point of lower pressure. Therefore gas will be replaced into the wellbore and to the area immediately surrounding the wellbore in an effort, if left shut in long enough, the reservoir would equalize all the way across, the pressure at a

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depth.

Q Now, when you first, when you turn this well back on, then, as opposed to say just the open flow, is the -- isn't the rate of flow then increased?

A The rate of flow could be higher when you turn it on due to the accumulation of gas within the wellbore itself.

Q Now, if you -- if you turn it off again next month, then I assume that the process repeats itself in the well.

A Each time, my experience has been that each time a well is shut in, when it is turned on it immediately produces at the highest rate it will produce for the remainder of time the well is on, barring other influences of liquid accumulation or liquid accumulation already occurring in the wellbore and not being able to lift it at the time the well is first turned on.

Q Would you say that an operator would be able through the -- through regulating the flow by manually turnign on and turning off the well, to increase the rate of recovery of production from that well?

A There are two answers to that as I see it. Some wells, if left continuously producing will produce more gas than if they were intermittently shut in and intermittently produced.

Other wells will produce more gas being intermittently shut in and produced than they would had they

1
2 been left on the line continuously.

3 Q Let me direct my question to the two
4 wells we're dealing with here today and answer the same
5 question.

6 A I do not know enough about the amount of
7 liquids produced from either well and the time of shut-in
8 and the time of production to make that judgment.

9 Q Is it possible, since you haven't done
10 that study, is it possible that Mesa through studying the
11 well and experimenting with the times of shut-in and then
12 turning the well back on, could increase the rate of produc-

13 Is it possible?

14 A I'm going to say it might be possible.

15 MR. JAMES: That's -- I don't
16 have any questions.

17 MR. STANETS: Are there any
18 other questions of this witness? Ms. Duffin?

19 CROSS EXAMINATION

20 BY MS. DUFFIN:

21 Q Mr. Kendrick, is it possible that the
22 operation of an intermitter on a gas well can be considered
23 one for the normal maintenance of a well?

24 A I think so.

25 Q Is it possible, to your knowledge, are
there intermitters on the wells that are the subject of this

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hearing?

A I know from looking at the production chart of the No. "AI" 33 Well that there has been used an intermitter on that well.

Q Is it possible, in your judgment that the use of that intermitter could have been for normal maintenance of the well?

A Very possibly.

Q Do you have knowledge of when the intermitter may have been placed on the No. 33 Well in your review of records?

A No, ma'am, I do not know a date for that.

Q Okay. Mr. Kendrick, did you agree with Mr. Hale's definition of a recognized enhanced recovery technique to be one that adds energy to a reservoir as a generally accepted definition?

A For me to consider something enhanced, I would say that you would have to do something that actually changed the reservoir or changed the producing characteristics of the well in such a manner that this is a new function, something new that has occurred.

In other words, when the well was drilled and completed and was fractured, certainly before the well was fractured it had a producing capability of being very small. After the well was fractured possibly its production rate may be increased tenfold or twentyfold or hundredfold.

This to me is enhanced recovery. Maybe

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not the only type of enhanced recovery, but certainly that would be one.

Merely shutting a well in and turning it on to me does not constitute what I consider enhanced recovery.

Q Does the application of fracturing to a well entail the addition of energy to the reservoir into which the well is drilled?

A You have to expend energy to cause the fracturing to occur, yes.

Q Conduct the process?

A Yes, ma'am.

Q Does the operation of an intermitter require that same kind of expenditure of energy once it's installed on a well?

A No.

Q Thank you.

MS. DOPPIN: That's all I have.

MR. STAMETS: Any other questions of this witness? He may be excused.

Excuse me, I'm sorry.

QUESTIONS BY MR. STOGNER:

Q Mr. Stamets, if I might.

Mr. Kendrick, should an intermitter be considered an enhanced recovery procedure?

A If I may change the word from enhanced

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recovery to a word a conservation practice, I would say that the use of an intermitter to help keep a wellbore free of liquids would be a manner of conservation practice in that you can keep a well producing for a longer period of its lifetime without adding any other additional equipment.

Q Let me ask another question concerning an intermitter.

Should it be considered a normal operation?

A There were times it seemed that intermitters were normal operation and through the change of use of intermitters, which in the early days they vented the gas to the atmosphere to clean the well, in changing that to a point where when you find a well will not keep itself clean and place an intermitter on the well to intermittently produce it into the line, I think you have bettered the production of your well, merely because you're keeping it clean, which may be a conservation practice to prevent premature abandonment, ultimately recovering more gas from the formation.

Q You said ultimately recovering more gas. Is your definition of enhanced recovery, could that be considered an operation producing more gas?

A I believe my definition of enhanced recovery would be the fact that you would recover the gas from that well in a quicker amount of time.

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tions, Mr. Stamets.

MR. STAMETS: Any other questions of this witness? He may be excused.

I have a question for Mr. Houston. Did you intend to put him back on the stand?

MR. JAMES: I did not.

MR. STAMETS: Okay, well, let me just ask him where he's at then.

Mr. Houston, why does Mesa want to produce these two wells in this manner?

MR. HOUSTON: Why is Mesa willing to produce --

MR. STAMETS: Why do they want to produce these wells in this manner?

MR. HOUSTON: You mean in the manner without the intermitters?

MR. STAMETS: Yes, by shutting them off and turning them on, why do you want to do that?

MR. HOUSTON: Just to maximize the amount of recovery that we get. To recover all the gas volume that we can.

MR. STAMETS: To maximize the ultimate recovery?

MR. HOUSTON: Yes, sir.

MR. STAMETS: So you believe that the current production process will cause more gas to be produced from these wells.

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MR. HOUSTON: I think it could, yes, sir.

That may be arguable but I think it could, yes, sir.

MR. STAMETS: In what way? What reservoir function will come into play this way?

MR. HOUSTON: Well, it would be taking us back to the conservation and I think as I alluded to in my testimony, I think that if you have a lower rate, or maybe not rate, a lower price that you are going to have to abide with if you rule against this particular meeting, the well will become more marginal, almost to the point of becoming uneconomic and it might set itself up for a premature plug and abandonment.

MR. STAMETS: If we just leave price out of this altogether, and consider that you are going to get \$25.00 an Mcf regardless of how you produce the well, if you put intermitters on the two wells or if you produce them by shutting them in and opening them up, do you believe that the ultimate recovery would be enhanced by either one of those two processes?

MR. HOUSTON: To a slight degree I think so, yes, sir.

MR. STAMETS: Which one?

MR. HOUSTON: I think that it would be enhanced, both -- both wells.

MR. STAMETS: Both, and is one

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better than the other?

MR. HOUSTON: Slightly better.

MR. STAMETS: Which one?

MR. HOUSTON: The -- the "AJ"
34, I believe is better.

MR. STAMETS: No, no, I'm sorry, which process, the intermitter or the manually shutting and opening the well?

MR. HOUSTON: I would probably say the intermitter.

MR. STAMETS: Okay. Any other questions of Mr. Houston?

MR. STOONER: Mr. Stamets, if I might, I would like to direct a couple of questions to Mr. Houston, and maybe also a couple of directives.

In the original NGPA Section 108 enhanced recovery application I find and did not find any mention of an intermitter on either one of those wells.

Could you please supply this Division -- this hearing today -- to the Division today something telling us when the intermitter was used, how extensive it was used, and when it was taken off the line, and in particular the three months that are relevant to the NGPA Section 108 enhanced recovery 90-day period?

Could you -- could Mesa please supply that information?

MR. HOUSTON: I'm sorry, I can-

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not. I do not have that information available.

MR. STOGNER: Could you do it today?

Let me rephrase that. Could you subsequent to this hearing provide that information?

MR. HOUSTON: I think that we could, yes.

MR. STOGNER: Thank you.

MR. STAMETS: Any other questions? He may be excused again.

I presume that there will be some closing arguments. What I would like to have in this case is proposed order from each of the participants and I would also like to see some written arguments as to why shutting in of wells and opening them manually should or should not be considered an enhanced recovery technique under the FERC regulations.

Mr. James, you've already submitted one and if you're happy and satisfied with that, that's good enough.

I don't think there's any real rush in getting those in; a couple of weeks will be fine. I think I've got three days in the office between now and July the 6th, so it's not going to be a lot of rush.

Does anyone have a closing statement that they would like to make?

All right, we'll start with El

1 Paso first and work our way toward the applicant.

2
3 MR. JENSEN: First of all, we
4 would like to assert that we don't have any objection to
5 Mesa's receiving a stripper well price when that is applic-
6 able and so it's not a matter of El Paso trying to deny Mesa
7 its retroactive dollars that it has at jeopardy here, but
8 it's a question of whether this particular action is en-
9 hanced recovery technique and with regard to that, and I
10 guess we will illuminate it more in written arguments, cer-
11 tainly the ultimate shutting in and turning off -- or shut-
12 ting in and turning on of a well could be considered an en-
13 hanced recovery technique to the extent an intermitter is
14 considered an enhanced recovery technique.

15 If the one is, then the other
16 certainly could be, but in this particular case it was not
17 done by Mesa because of their desire to enhance recovery,
18 but was done because El Paso told them to shut the well in,
19 and in fact they at that point, when their intermitters were
20 no longer used, when they began turning on and off the well
21 because of El Paso's request.

22 The only other point that I'd
23 have to make is that Mesa did have available to it the
24 method by which to continue to qualify this well as a
25 stripper well, and that was the temporary pressure build-up
regulation and it chose not to for reasons unknown to El
Paso.

But certainly that was the in-

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2 tent of the FERC in promulgating those regulations where the
3 pipeline shuts in the -- a producer voluntarily-involuntary
4 producer standpoint because of pressure build-up the Commis-
5 sion promulgated the regulations to permit them to continue
6 to receive their stripper price for the flush production
7 that results. And I think that is what we see with the
8 ninety-day period at issue here, is simply a matter of flush
9 production.

10 MS. DUFFIN: Northwest urges
11 the Commission to deny the applicant's request in Cases S182
12 and S183 for at least three reasons, and I hope we've ident-
13 ified them today.

14 First of all, the regulations
15 clearly require the producer to perform or install the tech-
16 nique or process that is used.

17 In this case the producer,
18 Mesa, has merely followed directions from the pipeline, El
19 Paso, has engaged in no creative thought or activity of its
20 own with respect to the issue, and simply on a technical
21 reading of the regulations we would submit that this process
22 of pipeline shut-in for no demand does not constitute an-
23 nanced recovery.

24 Second, from Mr. Hale's review
25 of records available to Northwest Pipeline, it appears that
the process of shut-in for no demand occurred at least as
early as 1977. My reading of the regulations, Section
274.206C, which addresses a producer attempting to get an

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2 enhanced recovery designation, implies to me that you get
3 your 108 designation and then the new enhanced recovery
4 technique is undertaken in order to qualify as such, and it
5 does not appear from the chronology of shut-ins having oc-
6 curred long before the wells were even designated as 108
7 that that criteria has been met.

8 And thirdly, as Mr. Hale testi-
9 fied, what has occurred here is that the flow rate from the
10 wells has temporarily increased but overall production has
11 not in fact been enhanced, due to the pipeline shut-in for
12 no demand that has occurred here.

13 Northwest submits that no de-
14 mand shut-in time, if deemed by the Commission to be an en-
15 hanced recovery technique, will result in a massive upswing
16 in the number of filings of this nature before the Commis-
17 sion. We submit that it will ultimately increase the price
18 of gas paid not only by pipeline companies like Northwest,
19 which purchases this gas, but by the ultimate consumer, and
20 for these reasons we would ask that these applications be
21 denied.

22 Thank you.

23 MR. JAMES: Well, the pipelines
24 obviously want us to apply some sort of sophistication to
25 the term "technique". It has to be a sophisticated techni-
que process.

It's clear that something hap-
pened here in this period of time that increased the rate of

1
2 production from these two wells. I mean we wouldn't be here
3 today if that increase had not occurred.

4 The FERC, in cases and in its
5 enacting regulations and such over the years, has consis-
6 tently stated a policy of encouraging increased production
7 from stripper wells. You have to keep in mind when the NGPA
8 was enacted. The NGPA has not been changed.

9 You have to keep in mind when
10 the regs were enacted in 1981 and look at and read those
11 regs and that statute in that light. The Congress said that
12 the objective of this definition of enhanced recovery is to
13 insure that the producer does not have a built-in incentive
14 to limit the production from a given well to an average of
15 60 Mcf per day.

16 The FERC, in enacting their re-
17 gulations and discussing techniques, said, we believe it is
18 clear from our definition that any technique shall qualify
19 if it increases the rate of production from the well.

20 And we've heard a lot of testi-
21 mony about different interpretations, as such, but we're
22 bound by the NGPA and by the FERC regulations in this in-
23 stance, and I would certainly appeal for a very technical
24 reading of those regulations and that statute because that's
25 precisely what it takes here, and the result of that very
technical reading is going to recognize this technique, this
method of manual regulation of the flow of gas from these
two wells increases the rate of production from these two

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wells.

MR. STAMETS: If there is nothing further, then this case will be taken --

MR. BUCKINGHAM: Mr. Examiner.

MR. STAMETS: Yes, I'm sorry, feel free. Identify yourself and --

MR. BUCKINGHAM: Allen Buckingham for the Bureau of Land Management, Albuquerque District.

Being a jurisdictional agency for an enormous number of stripper wells in San Juan Basin area, we would look at this case and we have a keen interest in both these cases, just like the State, and the DLM fully supports the position taken by Northwest Pipeline Corporation and El Paso Natural Gas Company.

Thank you.

MR. STAMETS: Any other comments?

If there is nothing further, the case will be taken under advisement.

(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 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.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 81826 8183 heard by me on 6-6 19 84.
Richard L. Stewart, Examiner
Oil Conservation Division