BEFORE THE	
OIL CONSERVATION COMMISSION	
Santa Fe, New Mexico	
October 25, 1961	
EXAMINER HEARING	
IN THE MATTER OF: Application of Shell Oil Company for an exception to Rule 502-1, Lea County New Mexico. Applicant, in the above- styled cause, seeks an exception to Rule 502-1 to increase from 25 per cent to 100 per cent the daily production tol- erance applicable to all of its wells located in the Hobbs, Eunice-Monument, Vacuum-Abo, and Vacuum-San Andres Pools Lea County, New Mexico.	CASE NO. 2406
TRANSCRIPT OF HEARING	
EXAMINER NUTTER: We will call Case No.	2406.
MR. MORRIS: Application of Shell Oil C	company for an
exception to Rule 502-1, Lea County, New Mexico.	
MR. SETH: Oliver Seth, Santa Fe, repre	esenting Shell
Oil. We have two witnesses.	
(Witnesses sworn.)	
R. L. SUMERWELL,	
called as a witness by and on behalf of the Appli	icant, having been
first duly sworn, was examined and testified as f	Collows:
DIRECT EXAMINATION	
BY MR. SETH:	
Q Would you state your name, please.	
	BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico October 25, 1961 EXAMINER HEARING IN THE MATTER OF: Application of Shell Oil Company for an exception to Rule 502-1, Lea County New Mexico. Applicant, in the above- styled cause, seeks an exception to Rule ) 502-1 to increase from 25 per cent to 100 per cent the daily production to1- erance applicable to all of its wells located in the Hobbs, Eunice-Monument, Vacuum-Abo, and Vacuum-San Andres Pools Lea County, New Mexico. BEFORE: Dan Nutter, Examiner <u>TRANSCRIPT OF HEARING</u> EXAMINER NUTTER: We will call Case No. MR. MORRIS: Application of Shell Oil C exception to Rule 502-1, Lea County, New Mexico. MR. SETH: Oliver Seth, Santa Fe, repres Oil. We have two witnesses. (Witnesses sworn.) R. L. SUMERWELL, called as a witness by and on behalf of the Applis first duly sworn, was examined and testified as is DIRECT EXAMINATION EY MR. SETH: Q Would you state your name, please.

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R. L. Sumerwell. A By whom are you employed, and in what capacity? Q Α Shell Oil Company as a mechanical engineer. Have you testified before this Commission on previous ହ FARMINGTON, N. M. PHONE 325-1182 hearings? Α Yes. Q As a mechanical engineer? Α Yes. MR. SETH: Are his qualifications acceptable? EXAMINER NUTTER: Yes. (By Mr. Seth) Would you tell us, first, what the gen-Q eral purpose, what is sought by the application of Shell 011 Company in Case No. 2406? Shell Oil is seeking an exception to Rule 502-1 to afford Α more flexibility in the operation of certain of our oil properties in Eastern New Mexico. Specifically, we are asking that the daily

cent, and this will afford a more prudent operation in scheduling our oil properties.

tolerance allowable be increased from 125 per cent to 200 per

Q Have you prepared, and have you available, a plat showing the several fields which are the subject of this hearing?

A Yes, sir.

Q I hand you what's been marked for identification as Shell's Exhibit No. 1. Would you state, please, what that shows? A Exhibit No. 1 shows Shell's leases in the Monument Field.



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	which is one o	f the fields we have. We are asking for an exception
	to this rule.	
	ତ Are	the Shell's leases shown on the exhibit?
Σœ	A The	Shell's leases are labeled, outlined in red.
JON, N.	Q Are	the well numbers also indicated in each lease?
C. Arming PHONE	A Yes.	
, <b>I</b>	Q Woul	d you explain as to Exhibits 2 and 3 also?
ICE	A Exhi	bit 2 is a similar plat of the Hobbs Field, which is
RV	the second fie	ld that we are asking this exception.
SE	Exhi	bit 3 depicts Shell's leases in the Vacuum-San Andres
ING	and Vacuum-Abo	Field.
RT	Q The	Exhibit 3 shows two fields?
EPO	A Yes,	the two fields are not differentiated on the map.
RI	However, there	are two leases, the Vacuum State D and State GA,
IER	with both Andr	es and Abo completions on them.
ME	Q Ther	e are a number of wells in each of these fields which
EY.	you would like	the exception to apply to?
SNL	A Yes.	We have asked for an exception for all of our wells
EAH	even though a	number of them, at the present time, are not capable
D. 243.66	of producing 2	00 per cent.
PHONE	Q This	application applies to all of Shell's wells in each
	of the four fi	.elds?
	A Yes,	that's correct.
	Q Doy	you have a list of these wells?
	A Yes,	I do.



Q I hand you what's been marked Applicant's Exhibit No. 4 in this case. Could you tell us, please, what this shows?

A Exhibit 4 shows merely a listing of all Shell's wells in the four fields in question: The Monument, Hobbs, Vacuum-San Andres and Vacuum-Abo. The asterisk indicates that at the present time, in our opinion, these wells are not capable of producing in excess of 125 per cent top unit allowable; in many cases, not even that.

Q Why have you included these wells in the application?

A Primarily, in case if we should work a well over and it should be capable of producing 200 per cent, we'll have that privilege available.

Q Do you think there is any advantage to have the application and any order issued apply to all of the wells instead of part of them, for easy administration?

A Yes. I think that would make for easy administration of this case, and would also allow us more flexibility in the future, should we need it.

Q Referring to Exhibit 4, can any well on that lease be located by reference to Exhibits 1, 2, or 3?

A Yes, it can.

Q Your application would result in an increase in oil production at that particular time during the months the rate would increase; is that correct?

Yes, this would be so at various times in the month.



FARMINGTON, N. M. PHONE 325-1182 Q Would this affect the pipeline companies that are presently taking the oil?

A No, that was one of the main concerns that we tried to cover. We do have letters from both pipe carriers in these areas.

The Texas-New Mexico Pipeline Company is the prime company in the Vacuum Field with one lease in the Monument, with Shell pipeline taking the remainder of the production.

Q Did you take this matter up with these pipeline companies?

A Yes.

Q What was their response?

A They have no objection, and indicated that they would not overload in any way or inhibit taking their oil.

Q Did you receive letters from them to that effect?

A Yes.

Q Referring to Exhibit 5, that's the letter from Texas-New Mexico Pipeline Company. What does that say? Would you mind reading that for the record, please?

A "Gentlemen: We understand the Shell Oil Company is requesting permission to produce this well in the Monument, Vacuum-San Andres and Vacuum-Abo Field on a 5-day work week rather than a 7-day allowable. This in no way would affect our pipeline operation from the fields."

That is addressed to the New Mexico Oil Conservation <u>Commission</u>, and it is signed by Mr. Frank K. Whitaker, Jr.



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Q Do you have a similar letter from Shell Pipeline Company? A Yes.

Q What does that say?

A "We are agreeable to your proposed method of operation in the Hobbs Monument Field whereby you will obtain the weekly production in five days. This agreement is based on the following conditions:

- "(1) Under the present schedule of allowables, our gathering system will not be overloaded. However, if production materially increases or if you have other operators following this procedure, it will be necessary to run some of this oil on week ends.
- "(2) This will require that operators maintain sufficient storage to hold over week ends and/or execute waiver.
- "(3) Operators must execute waiver or have representative on hand when month ends and week end coincide."

Q Have you made a study of production rates through a typical month for each of these fields as to oil and gas?

A Yes. I have plotted it, using top allowables of thirtyfive barrels per day.

Q Do you have an exhibit showing this?

A Yes.

Q Now, referring to what has been marked Exhibit 8, would



you tell us, please, what that shows?

A This is a plot of the oil production from Shell's properties, all of Shell's oil producing wells in the Monument Field.

FARMINGTON, N. M. PHONE 325-1182 Q Does it show the current production?

A It shows the current oil production, the rate is shown labeled as the dark lower black line. This is the production our wells are produced at at this time.

Q Generally, what is the shape of the line?

A It is quite flat to about the 25th or 26th day of the month, and then it drops down to what the marginal wells will produce so that the top allowable wells are at approximately 125 per cent, the majority of the month, about the first twenty-five days, and then only the marginal producers are producing, less than five or six days.

Q Now, what about the gas rate?

A The upper black line depicts the gas flow from our leases under current operations. The cross test area, the lower cross test area, is the anticipated oil rate should this exception be granted.

The upper cross test area is the anticipated gas rate.

Q What is the shape of the current gas rate line?

A Again, it is flat to about the twenty-fifth day of the month, and then it decreases to what the marginal wells will produce.

Is there a significant difference between the two, say



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the current oil rate line and the proposed one? You will have a series of drops of shorter duration instead of the present drop of about the same magnitude that lasts for a number of days at the end of the month?

A That is practically right. There will be more dips during the month.

However, I think it will tend to even out Shell's gas production into the various plants throughout the month and perhaps will help alleviate the end-of-the month gas intake problem that the plants experience.

Q Now, a little bit more about the marginal wells. How would you propose they be handled?

A They are not capable of producing even top allowable. Allowable will be produced every day of the month just as they now are.

Q And the bottom of these dips shown on Exhibit 8, that is the total marginal production, is that right?

A Yes. I have actually labeled the number of marginal wells -- there are eight wells in the Monument Field that are marginal -- and there is a total of nineteen wells in the field.

Q Now, this exhibit is prepared showing the shut-in of production on certain days of the week or of the month. Do you make this proposal for the particular days of each month?

A No, sir. This is quite arbitrary. We merely picked these days for gravity. They will ultimately be selected through



cooperation with the gas plant operators and oil-handling pipeline carriers in an attempt to level out their peak loads so that we will work quite closely with those people in selecting two days of the week that the top allowable wells will be shut in.

Q And this exhibit is just an example, and you have selected particular days arbitrarily?

A That's right.

Q But will the spacing of the days that the wells will be shut in be essentially as shown on this, regardless where it occurs during the days of the month?

A Each week the wells will be produced five days of the week and shut in two, so we won't attempt to produce the well fifteen days and then shut them in, if this 200 per cent is granted.

Q Have you prepared similar exhibits for the Hobbs Field?

A Yes, for all four fields.

Q Referring to Exhibit No. 9, would you explain, please, what that shows?

A It is quite similar to the original graph on the Monument, and shows the oil-gas rates, both current and proposed, of the Hobbs Field. This does include all Shell's wells in the Hobbs Field.

Q Is this prepared in the same manner as Exhibit No. 8, to which you previously testified?

A Yes, it was.

Q Would you describe it and take us through this exhibit



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FARMINGTON, N. M. PHONE 325-1182 briefly?

A All right. In the Hobbs Field we have 11 wells that are not capable, at the present time, of producing top unit allowable, and a total of 40 wells in the field.

The lower cross test area does show the oil production that would be in effect should this be granted. The lower heavy line, which is flat to approximately 25 days, shows the current producing rates.

The top cross test area is the proposed gas rate, and the top heavy line is the current gas rate.

Q Are these lines similar in shape to the one that you referred to for the Monument?

A Yes, quite similar.

Again, under the current producing schedule, we are shut in, virtually shut in, at the end of the month -- not shut in, but only the marginal wells are producing.

Q Do the same thing for Exhibit No. 10, please. That's the Vacuum-San Andres.

A Yes, it shows the producing -- both the heavy lines show the oil-gas rates that we are currently experiencing, and the lower cross test area shows the proposed oil rate for the Vacuum-San Andres, and the upper cross test area shows the proposed gas rate for the San Andres gas wells.

Q It shows the marginal portion of it?

A Yes.



FARMINGTON, N. M. PHONE 325-1182 Q Is there anything else on Exhibit No. 10 that's different?

A No, I don't believe so. The actual marginal production is shown, I think, best on this lower area. That's the two days that the well would be shut in, the top allowable wells would be shut in.

Q Now, referring to --

MR. PORTER: Can you give us the names of the wells on this exhibit?

THE WITNESS: The current marginal wells are six -- a total of twenty-four wells in the field.

Q (By Mr. Seth) Would you explain Exhibit 11?

A Exhibit 11 shows the current and proposed oil-gas rates for the seven Vacuum-Abo wells. All these wells are top allowable wells at the present time.

The lower cross test area shows the proposed oil rate, and the lower dark line shows the current oil rate.

The top cross test area shows the proposed gas rate, and the top heavy line shows the current gas rate.

With no top allowable wells, the valleys are more pronounced.

Q You mean with no marginal wells?

A Yes, with no marginal wells, with no production on two days out of each week.

I may also add that this is an ideal condition.



Oftentimes it is necessary that the well be produced seven days a week for various reason, so this would be the maximum condition, maximum peak load that we might impose for oil-gas handling. Oftentimes our top allowable wells might continue to produce all week.

Q About how many total wells are we talking about?
A A total of 65 wells -- a total of 90 wells.

Q وwells?

A Yes.

Q In the four fields?

A Yes, sir.

Q Do you have the oil volume by fields, or the total oil volume?

A Yes. In the Monument Field total oil production is 775 barrels per day. In the Hobbs Field, 1830 barrels per day. In the Vacuum-San Andres, 1142; in the Vacuum-Abo, 1190. These are approximate figures.

Q Do you have the same data as to gas production?

A Yes. In the Monument Field, daily gas production is 1243 MCF per day; in the Hobbs, 3537 MCF per day; in the Vacuum-San Andres, 1583 MCF per day.

EXAMINER NUTTER: 83 or 93?

THE WITNESS: 83.

A (Continuing) In the Vacuum-Abo, 1160 MCF per day. Out of the >0 total wells, 65 of these are, in our



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ALBUQUERQUE, N. M. PHONE 243-6691 opinion, capable of producing 200 per cent of top unit allowable, 25 are not.

Q (By Mr. Seth) What gasoline plants are connected to your casinghead gas production?

A The Monument Field is connected to the Juan Plant. Phillips is the operator of the plant at Hobbs, and also the Vacuum-San Andres and Abo production goes into the Phillips plant at Buckeye.

Q Do you know about what percentage of Shell's gas is the total intake of the Phillips gasoline plant at Hobbs?

A Using the August production figures, 10 per cent of the Hobbs plant intake is contributed by Shell.

- Q From the Hobbs field?
- A Yes.

Q How about other gasoline?

A The Phillips plant at Buckeye, we contributed approximately  $1.8_7$  per cent, and the Warren. Plant at Monument, we contributed 1.23 per cent.

Q Those are the three plants taking all of your casinghead gas from these four fields?

A That's correct.

Q Is Shell prepared to cooperate with these plants and with other producers to work out any severe peaks in the gasoline plant intake?

A Yes, we are.



FARMINGTON, N. M. PHONE 325-1182 In fact, we had a brief meeting with these operators and offered our complete cooperation.

Q Are you speaking of gasoline?

A Yes. Phillips and Warren were present, and we offered our complete cooperation in attempting to level out their peaks and any other intake problems they might have.

Q The amount of gas you contribute is really a relatively small amount to these plants, is it not?

A Yes, in most cases it's quite small.

Q Now, in the event that this application should be favorably considered, what savings would you expect in your operations, and what other advantages to the State would result?

A Well, one of the immediate effects of a favorable order on this case would be a reduction in the amount of supervision that we have to have to produce our wells. This would enable us to shut the well down two days a week, top allowable wells, and eliminate supervision during these days, and this would effect approximately \$11,000. per year savings to Shell Oil Company.

This, of course, would ultimately reduce the economic limit of these wells and we could possibly recover as much as an additional 60,000 barrels of oil through lowering the economic limit.

We feel this is quite significant, both to Shell and the lease holder, and in some cases, to the State of New Mexico. Q By reducing your operating cost, you could prolong the



period du	aring which you could economically operate the field?
A	Yes.
Q	And that would result in production of more oil, with
more	
A	More recovery.
ହ	royalty to the State?
A	Yes.
Q	And more sales taxes?
A	Yes.
Q	Do you believe that is in the interest of conservation?
Α	I think it definitely is. In addition to this monetary
saving, 1	this also offers more flexibility in the operation of our
wells and	i should a prolonged shutdown be necessary through re-
medial wo	ork, this will enable Shell to produce allowable produc-
tion from	n the wells that have been shut down.
ହ	I guess all operators have experienced this, though,
through	storms and other unavoidable accidents and mechanical
failures	?
Α	That is correct.
ହ	At the present time, allowable is occasionally lost by
these un	controllable factors, is that right?
A	Yes.
ହ	You can't make it up on present cost?
A	That's right.
Q	Now, I believe you testified that you do not intend this



application to permit any 15-day production and 15-day shut-in, is that correct?

A No. We would like permission to produce the well at the rate of 200 per cent, five days out of each seven.

Q If the Commission considers the application favorably, you would expect to have no objection to provisions in the order which would so limit it, is that right?

A Yes.

Q Do you have anything further you would like to mention?

A No, I can't think of anything at this time.

The ability of the wells to produce 200 per cent without damage to the reservoir will be covered by Mr. Stokes.

MR. SETH: Mr. Examiner, we would like to offer Exhibits 1 through 11. We have no No. 7, by the way.

EXAMINER NUTTER: They will be admitted in evidence, 1 through 6 and 8 through 11.

Are there any questions of the witness?

EXAMINATION

BY MR. MORRIS:

Q Mr. Sumerwell, now, as I understand the gist of it, you want to operate your wells on a five-day week rather than a seven-day week?

A Right.

Q Now, at the present time, are you operating your wells

on a seven-day week?



ALBUQUERQUE, N. M. PHONE 243-6691 A Yes, sir.

Q As I figure it, under the 25 per cent tolerance, you could actually make up one day and operate your wells on a six-day week at the present time?

A That's correct.

Q By producing each well 16 2/3 per cent in excess of daily allowable for six days?

A That's true.

Q But, according to my calculations you'd have to produce each well 40 per cent in excess of daily allowable per day for five days to make up two days production. Would you agree with that?

A I haven't figured that.

Q In other words, if each well produces 40 per cent in excess of daily allowable for five days, you would have made up -you would be 200 per cent over?

A Yes.

Q And at the end of five days that would be two days allowable?

A Yes.

Q All right now, if you allowed something for give and take there, say another 25 per cent, that would bring you up to 65 per cent. I am wondering why you have requested a hundred per cent rather than some lower figure.

By practice, our lease operators leave the field on



Friday evening and return Monday morning. There is actually 2 2/3 days unattended, so that will require approximately a hundred sixty two per cent of top unit allowable. Two hundred was quite arbitrary. We just thought that would be sufficient to afford us this flexibility.

Q Your figure, 2 2/3 days unattended, you would have to produce some sixty-odd per cent?

A Yes.

Q And periods in excess of that, the wells would actually have to make up?

A 62 per cent, I believe.

EXAMINER NUTTER: You have got almost three days off instead of two.

THE WITNESS: Nearly.

Q (By Mr. Morris) Do you contemplate any other wells being drilled in any of these pools by Shell?

A We don't at the present time, but should the order be considered favorably, we would like to have any future wells in this field included.

MR. MORRIS: That's all; thank you.

EXAMINER NUTTER: Are there any further questions of Mr. Sumerwell?

MR. JONES: Carl W. Jones, Phillips Petroleum Company. I think the Commission file will reflect there is a letter from Charles C. Spann entering an appearance on behalf of Phillips



Petroleum Company.

I may state that Phillips is a producer of oil and is vitally interested in anything which will make for more efficient and economical operation of their leases. However, in this case, Phillips is a gasoline plant operator and thinks that this application would involve more problems than it would solve, and would ultimately result in waste of gas.

For that reason, we believe the application should be denied.

#### EXAMINATION

# BY MR. JONES:

Q Mr. Sumerwell, if I understand your testimony correctly, the two basic reasons for this application are the benefits that would be derived by reduction of supervision of the lease?

A One benefit.

Q And more flexibility in operation, particularly making up allowables that could not otherwise be produced?

A Yes.

Q Is there anything, Mr. Sumerwell, in these four fields that you have named that is peculiar to these fields that would not likewise be applicable to any other field in Southeastern New Mexico on the basis of the two reasons you advance?

A As far as Shell's leases are concerned, we have a large number of top allowable wells that are capable of producing 175 to 200 per cent.



Q Is there anything particular that makes this application particularly attractive to these four fields as distinguished from any other fields in Southeast New Mexico?

A Yes, the reasons I stated.

Q All right now, I believe you stated that of Shell's gas which is going to the Phillips plant, 10 per cent of the gas is going from the Hobbs Field from Shell's lease, is that correct?

A The August summaries indicate that, I believe.

Q All right, sir, and 1.8y per cent of the gas from the Vacuum-San Andres and Vacuum-Abo Pools going to the Phillips plant is Shell's gas?

A Yes.

Q Now, Mr. Sumerwell, is there anything about Shell's leases, those pools, which makes this application attractive from Shell's viewpoint, which wouldn't be applicable to other operators in those pools?

A Assuming they have an equivalent number of wells producing 200 per cent, I think not.

Q In other words, as far as you know, any other operators in those four fields would find this 100 per cent tolerance instead of 25 per cent equally attractive?

A Assuming they have sufficient wells capable; yes, sir, they could effect the same savings.

Q Now, as to your point about the reduction in supervision, which I believe you testified would save \$11,000 a year and



possibly recover an additional 60,000 barrels of oil; how many wells does Shell operate in the Hobbs Pool?

40 wells. Α

0 All right, sir. Now, how many pumpers do you now have operating those 40 wells?

> Α one regular and one relief operator.

When does the regular pumper -- what days does he work? ଢ

Α I am not prepared to answer that; I don't know.

Well now, I have noted that you stated in answer to a Q question by Mr. Morris that the leases or operators now leave the field on Friday evening and come back on Monday morning.

Α I believe I did say that, and that was merely an example, not necessarily.

Are the 40 Shell wells in the Hobbs Pool unattended from Q Friday evening until Monday morning?

Α No, sir.

And you have a relief pumper? Q

Α Yes, sir.

And the savings, then, in the Hobbs Pool would be the Q elimination of the relief pumper?

Yes, that would be one of the savings. Α

Well, as far as the reduction in supervision, wouldn't Q that be the only saving?

А Yes.

Now, how many wells does Shell operate in the Vacuum -Sah Q



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PHONE

Andres Pool? A 24. Q How many pumpers operate these wells under your present system of operation? A There is one pumper that is handling the 24 San Andres wells, plus the 7 Vacuum-Abo Wells. Q One pumper handles the production from both the Vacuum- San Andres and Vacuum-Abo? A Yes. Q What days does he work? A I don't know that. Q Does he have a relief pumper that takes over when he is not working? A Yes. Q The reduction in supervision, then, for the Vacuum-San Andres and Abo Pools would be the elimination of the relief pump- er, is that correct? A That's correct. Q Now, as to the flexibility in operation. Isn't it a fact that you possibly can make up some allowable which you other- wise would not be able to get because of mechanical difficulties, so forth? Have you had some difficulties like that recently? A Not to my knowledge, no. There have been no specific cases.		
<ul> <li>A 24.</li> <li>Q How many pumpers operate these wells under your present system of operation?</li> <li>A There is one pumper that is handling the 24 San Andres wells, plus the 7 Vacuum-Abo Wells.</li> <li>Q One pumper handles the production from both the Vacuum-San Andres and Vacuum-Abo?</li> <li>A Yes.</li> <li>Q What days does he work?</li> <li>A I don't know that.</li> <li>Q Does he have a relief pumper that takes over when he is not working?</li> <li>A Yes.</li> <li>Q The reduction in supervision, then, for the Vacuum-San Andres and Abo Pools would be the elimination of the relief pumper, is that correct?</li> <li>A That's correct.</li> <li>Q Now, as to the flexibility in operation. Isn't it a fact that you possibly can make up some allowable which you otherwise would not be able to get because of mechanical difficulties, so forth? Have you had some difficulties like that recently?</li> <li>A Not to my knowledge, no. There have been no specific cases.</li> </ul>	Andres	Pool?
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	cases.	

I suppose that 25 per cent tolerance now provided for



Q

in Rule 502, Section 1, is designed to take care of situations like that?

A I think I might say that that isn't the paramount purpose of our application. It's reduction in supervision rather than flexibility.

Q All right, sir, and the flexibility is also provided by the other provisions in the rule which provide for five days toler ance during any one proration period, does it not?

A Yes.

Q So that you have two methods in the present rules to achieve such flexibility; one, a 25 per cent tolerance, and the other a five per cent, five-days tolerance for each proration period?

A Yes, that's right.

Q And then, did I understand you to say basicially, then, the reason for the application is reduction in supervision?

A That's correct.

Q And that in this case the fields subject to this application, it would mean the elimination of two relief pumpers for a period of two days?

Plus a relief pumper in the Monument Field.

Q That would mean three relief pumpers for two days each week?

A Yes.

Α

Q

Mr. Sumerwell, there are now difficulties, are there not,



FARMINGTON, N. M. PHONE 325-1182 even under the present rules about scheduling of gas production? You are meeting with plant operators, are you not, to work that out?

A They have indicated in meetings that this always has been a problem. Q And I believe you mentioned that sometime this week y

Q And I believe you mentioned that sometime this week you had a meeting with gasoline plant operators to discuss this application?

A That's correct.

Q Was Phillips Petroleum Company represented at that meeting?

A Yes.

Q Do you recall who that representative was?

A They had three representatives, Mr. Hankin, Mr. Curlee, and Mr. Frank -- I am not positive of those.

Q All right. Did you present at that meeting any plan for the scheduling of oil leases into the plants if this application was granted?

A We presented to them the same graph we have presented to the Commission today, depicting current and proposed gas rates into the plants from Shell leases.

Q As far as seeding of Shell's leases is concerned, if this application were granted, do you have any specific plans there?

No. We just offered our wholehearted cooperation in



DEARNLEY-MEIER REPORTING SERVICE, Inc. ALBUQUERQUE, N. M. PHONE 243 6691 attempting to reduce the peaks that they might experience on plant intake.

We also tried to point out at that meeting that this method of producing will perhaps reduce the problems that they now have at the end of the month, when the majority of the top allowable wells are shut in.

That is a problem in gas plant operation, I believe.

Q At the end of the month?

A Yes.

Q When they're shut in?

A Yes.

Q What problem is that?

A They indicated that they experienced quite low rates on their intake gas at the end of the month due to top allowable wells being shut down. There was evidence that there was a number of factors involved.

Normally, the voltage goes up; when the top allowable wells are shut down, the voltage goes up and the gas plant intake goes down, to the best of my knowledge.

Q If there is that problem of low intake at the end of the month, then there is a problem of higher intake during the early part of the month?

A I think they would attempt to rectify that, somewhat, by distributing the gas throughout the month rather than at the first part of the month.



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INGTON, N. M. NE 325-1182 Q During the time that Shell's leases were producing greater volume, if this application were granted, why the procedure of the gas in the gathering lines of the Shell leases into the Phillips lines would tend to increase, would they not?

A I should think so, slightly.

Q Well, wouldn't it be more of a proportionate increase rather than slightly?

A Shell's gas would increase during certain parts of each week, yes. However, it seems improbable that  $1.8_7$  per cent, a slight increase of that volume, would overload us.

Q If a plant were already lowered, it would, would it not?

A I am not that familiar with gas plant operation, sir.

Q All right, sir. If other operators having similar justification presented applications similar to this, why then that would tend to produce considerably more gas into the plant, would it not?

A No, sir, I don't agree. At any time that two operators would be granted permission to do this scheduling, it would tend to decrease the peaks, as long as the operators didn't take the two days off the same day of the week.

Q You work now with the plant operators, do you not, on scheduling?

A Yes.

Q Do you not find that there are difficulties on scheduling, even under the 25 per cent tolerance?



27 PAGE We don't find any problem. А Q You have no problem? А Not to my knowledge. We try to cooperate in every way we can to even out their loads. Even with the utmost cooperation, don't you have peaks Q during the day as distinguished from the night? I am in the production department. I am not prepared to Α answer that. EXAMINER NUTTER: You do have peak production during the day, do you? А We probably do. However, we have intimeters and time clocks so that they're not necessarily producing in the day time. (By Mr. Jones) Is it Shell's practice in some cases to Q shut down the pumping wells overnight? А Not to my knowledge. They are run by time clocks night and day? Q Α Yes. Do you anticipate there would be any more difficulty in Q scheduling if this application is granted than there is at the present time? Do you think it would require more work between Shell's production department, say, and the gasoline plant operators? I think not, myself. Α You don't think it would require any more work or effort? Q

It was indicated to us that there is an existing problem



А

that hasn't been coped with yet, and it is actually our hope that this would help alleviate that problem, help provide better scheduling for the gas plant.

FARMINGTON, N. M. PHONE 325-1182 Q You don't think it would require any more effort or time on the part of your people to schedule properly under 100 per cent tolerance than it would under the 25 per cent tolerance?

A Not having had a scheduling problem, I can't answer that, but I think through cooperation this can help.

The gas plant operators indicated that sometimes producers would offer cooperation, particularly at the higher management levels, but oftentimes this wasn't carried out by the lease operators. This cooperation has been carried out and planned by our management, and has virtually been mandatory on the lease operators.

Q Who would cooperate and work on this scheduling with the lease operators?

A The Division Superintendent could do that. Perhaps this would be delegated later once any problems were ironed out.

Q Under this proposal, would the production of your leases be staggered so that some will be producing all of the seven days during the week?

A The wells that are capable of producing a hundred and sixty per cent would not be staggered, necessarily. The marginal wells would produce all seven days of each week.

What do you mean by "staggered"?



Q Would some of your -- referring to your answer, would some of your top allowable wells be producing all seven days of the week?

No, sir, not under normal operating conditions.

Q Under normal operating conditions all of your top allow able wells would be producing the same five days of the seven-day week, is that correct?

A That is correct.

Α

Q You don't anticipate that that would lead to any difficulty in scheduling?

A Again, I can't answer that.

The graph does depict an increase in gas rates in plants capable of handling this, and through proper scheduling, why, perhaps it won't.

Q Mr. Sumerwell, that is what I am asking you, about the scheduling. You told me there wouldn't be any scheduling of top allowable wells, that all would be producing five days in the same five days out of the seven-day week.

A I am selecting the two days that the top allowable wells will be shut in.

Q They will be shut in all at the same time?

A That's correct.

Q How is that scheduling production? Do you mean that some of the operators will produce during the two days that you are shut down?



A No. I am speaking of scheduling Shell's production with respect to other operators' production which could help to minimize the peak load in any gas plant.

Q Well, that would require cooperation not only between Shell and the plant operators, but all of the other operators.

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A If you have problems with other operators, it would.

MR. JONES: I believe that's all the questions I have.

EXAMINER NUTTER: Are there any further questions of Mr. Sumerwell?

### EXAMINATION

### BY EXAMINER NUTTER:

Q Mr. Sumerwell, I missed a couple of figures. What was the oil production in the Monument Pool, please?

A 775 MCF.

Q And 1830 in the Hobbs?

A Yes.

Q And 1142, 1190 in the San Andres and Abo?

A Yes.

Q You have got 11 marginal wells in the Hobbs Pool and one pumper operating 40, and one relief pumper operating on the week end. Now, in the Vacuum-San Andres you have got 6 marginal wells out of a total of 24, with a regular pumper and a relief pumper, and 8 marginal wells in the Monument Field out of a total of 19, with one pumper and a relief pumper.

Then, if you are granted 200 per cent tolerance and shut



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in the top allowable wells for two days, who would operate these marginal wells?

A They would be unattended.

Q For two and two-thirds days?

A Yes. We wouldn't necessarily be there. We would be there only in case of accident or some malfunction, if it was reported to him. He would be available, but he would not be inspected by any individual. We might circle a man by until we were sure there was nothing wrong.

Q There would be a limited amount of supervision on the marginal wells on the two and two-thirds days?

A Yes. We would only have a man go by the wells should accident occur, and he would be available to rectify it.

Q There would be no Shell people there to observe the accident and report it when it occurred?

A No, sir.

Q Are most of these marginal wells artificially lifted?

A I don't know whether they are or not.

Q It would be reasonable to assume that a large percentage of these would be?

A I think it would. I can provide that, I think. Twentytwo of the Vacuum-San Andres wells out of the 24 are artificially lifted by rod pump.

Q That would include the 6 marginal wells?

A Yes. Most of the flowing wells are capable of producing



FARMINGTON, N. M. PHONE 325-1182 DEARNLEY-MEIER REPORTING SERVICE, Inc. ALBUQUERQUE, N. M. PHONE 243-6691 200 per cent.

Q In your opinion, Mr. Sumerwell, do you deem it a prudent operation to leave a marginal well which is on artifical lift unattended for two and two-third days?

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ALBUQUERQUE, N. M. PHONE 243-6691 A I think the risk is minimized by leaving only the marginal producers operating, and that, again, is one of the purposes of this hearing, to attempt to minimize any waste that might occur during an unattended time by enabling us to shut in the top allowable wells.

Q But have you decreased the risk as far as the marginal wells themselves are concerned?

A We have not done that.

EXAMINER NUTTER: Are there any further questions?

If not, the witness is excused.

(Witness excused.)

DANA D. STOKES,

called as a witness by and on behalf of the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. SETH:

Q Would you state your name, please.

A D. D. Stokes.

Q You are employed by Shell Oil?

A Yes, as District Reservoir Engineer for Shell Oil Company

in Roswell.



Q Would you give us a little summary of your educational background and your experience?

A I am a graduate of the University of Houston, with a B.S. Degree in Petroleum Engineering.

I have been employed by Shell for fourteen years. I spent six years in production research laboratories, three years as a field engineer, and for the past five years I have been a reservoir engineer.

Q As a reservoir engineer, have you become familiar with these fields that are the subject of this hearing?

A Yes.

MR. SETH: Are the witness's qualifications acceptable? EXAMINER NUTTER: Yes. You may proceed.

Q (By Mr. Seth) Would you state, briefly, a little bit of the background of each of these fields as relates to our rate of withdrawal problem here.

A I will start with the Hobbs Field.

The Hobbs Field was discovered in 1928. It has produced, to date, approximately a hundred sixty-seven million barrels. It had an original reservoir pressure of 1500 pounds, which is down to 900. It produces by a combination of water drive, gas expansion, and solution gas.

It had an original gas cap water level of approximately 620 feet sub-sea. Water encroachment has been from the west, with no water apparently on the east side of the field. The approximate



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rate in the Hobbs Field is fairly high at times running from several thousand barrels per well in the late Twenties to a current thirty-four. As late as 1,51, Shell production averaged 56,000 barrels per month, with an allowable of 53 barrels per day. That compares with a production of 36,600 barrels a month current, with an allowable of 34 barrels per day. In both cases, this is a gas ratio of about 10,000 barrels per month per daily barrel of unit allowable.

I believe the past performance of the Hobbs Field shows that it is producing in excess of 34 barrels per day, and that it will not cause reservoir damage.

Now, as to the other field?

A The Monument Field was discovered in 1936 and has produced, to date, approximately a hundred fifty-three million barrels. It had an original reservoir pressure of 466 pounds and currently has 920.

It produces, primarily, by water drive, with some effect from gas expansion. This was originally a gas-oil contact, 153 feet sub-sea, with oil contact at 390 feet sub-sea. Water drive has been primarily from the south and east.

In the Monument Field, since 1955, the water cut in the field has averaged 55 per cent to 65 per cent total production. It has not increased appreciably in that eleven-year period. I believe past performance in the Monument Field indicates that operation -- the flexibility we have requested will not cause a



reservoir damage.

The Vacuum Field was discovered in 1947, and produces a little over ninety-one million barrels. It had an original pressure of 1650 pounds and currently has around 900 pounds in the Fairway area.

It produces by solution gas drive through an original oil-water contact 735 feet sub-sea, but there has been no encroachment except for a minor amount on the southeast flank.

In 1951, Shell's production averaged 30,000 barrels per month, with 53 barrels per day allowable. The withdrawal of the requested rate will not cause damage.

The Vacuum-Abo Field was discovered in 1960. It has an original reservoir pressure of 3100 pounds and does not have a significant decline to date. It has an average porousity of 5 1/2 per cent and a permeability of 25,000,000, and a gross thickness of 500 to 600 feet. It has a net pay of approximately 250 feet. From the character of the structure, I believe that reservoir drive will be solution gas. The reservoir has excellent communication and should be capable of producing at a high rate without damage to the reservoir.

The wells in the Vacuum Unit have been producing in excess of top allowable, without decline of capacity or any evidence of damage.

Q Then, in summary, your opinion is that the rate of production that is requested in this application will not damage any



of the four reservoirs?

A In all but the case of the Vacuum-Abo, we have in the past produced considerably in excess of that rate without damage. I believe we can do so now.

Q Under the previous high allowable?

A Yes. The rate in 1951 of 53 barrels with a tolerance of 25 per cent would amount to 70-some-odd barrels per day, while in excess of 200 per cent of our current unit allowable.

> MR. SETH: I believe that's all the questions I have. EXAMINER NUTTER: Are there any questions of the witness What were your initials, please?

THE WITNESS: D. D.

EXAMINATION

## BY EXAMINER NUTTER:

Q You stated, Mr. Stokes, in 1>51 when the Hobbs had an allowable of 53 barrels, it produced how much?

A Shell's production was 56,000 barrels per month.

Q Was 10,000 barrels per month per unit allowable?

A Well, it's just a factor that indicates that as far as Shell's capacity was concerned, we were able to make as much on a barrel of unit allowable in '51 as we are today, and vice versa.

Q Right now you're producing 36,600 per month, with a 34 barrel allowable?

A Yes, sir.

Q Now, there has been no evidence from -- particularly on



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this west side, with the water coming in, that there is any danger of commingling of water by producing at high rates? Α I don't believe for the periods we will be producing at a high rate, that there would be damage. We will, in the period FARMINGTON, N. M. PHONE 325-1182 of a month, produce the same amount of oil as any other operator. ର You stated that in 1951, with the 53 barrels normal unit allowable, that the 125 per cent tolerance would permit a rate of 70 barrels per day? Yes. А In excess of 200 per cent of the present allowable? Q Α Yes. In the Monument Pool, you have a water drive from the Q south? The east and west flanks. А Q On both sides? Α Yes. What did you say the water cut is at the present time? Q I believe last month it was 65 per cent. А This is more or less the same cut that it's been for the ର ALBUQUERQUE, N. M. PHONE 243-6691 last eleven years? It was 55 per cent in 1951, which was the high allowable Α period during that time. It made 50 in 1951 with a high allowable. It declined to 55 per cent. This increase in tolerance would reduce it? ର୍ I wouldn't testify to that. Α



Q Now, the Vacuum-San Andres, you stated had a solution gas drive. There is evidence of a water drive in parts of this field?

A There is some water encroachment on the southeast flank. I don't believe that it has a significant effect on production in the field.

Q Are any of Shell's wells in that area?

A Not in the water-producing part, no, sir. We have some wells in the southeast part of the field but they're not making water.

Q You feel Shell's wells in particular are producing by means of solution gas drive?

A Yes. This field, as a whole, is primarily solution gas drive.

Q What was that field producing in 1953, Shell's leases, I mean?

A 30,000 barrels a month.

Q Right now you are making 22,000, with a 34-barrel allowable?

A Yes. Some of our wells were capable of making, say, 53 barrels in '51 but producing at a high rate, with no indication of damage.

Q The Vacuum-Abo Pool is so new that you haven't determined definitely that this is a solution-gas drive, is that correct? A That's correct, but because of the reef nature of the



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	reservoir, I don't believe there will be any source for water.
	Q You mentioned some tests that were conducted in this
	Vacuum edge unit in that field wells were produced at the high rate
, Μ.	with no evidence of damage. What rate was that?
GTON, P	A According to the allowable schedule, two of the wells
<b>nc.</b>	are given 150 per cent, and one well was shut in for observation,
E, I	and its allowable distributed.
	Q This was from the tests that you conducted?
ERJ	A Yes.
N N	Q 150 per cent, then, isn't as much as you are requesting
LING	here today, is it?
ORI	A No, sir.
EP	Q But, of that 150 per cent there was no evidence of dam-
R R	age?
EIE	A Right.
/ <b>W</b> -/	EXAMINER NUTTER: Are there any further questions of
LEN	Mr. Stokes?
RN	EXAMINATION
<b>)EA</b>	BY MR. PORTER:
UERQUE	Q Mr. Stokes, you testified that original pressures in the
ALBUQ	Hobbs Pools were about 1500 pounds?
	A Yes.
	Q That was after production of approximately one hundred
	sixty-seven million barrels down to 900?
	A Yes, sir.



Has there been any evidence that the pressure has de-Q clined at a slower rate under these lower allowables that we have had for the last three or four years from 34 to 39 barrels than it did under the high allowable, 45 to 53? FARMINGTON, N. M. PHONE 325-1182 Yes, sir. The last showed a drop due to the lower Α withdrawal. MR. PORTER: That's all I have. EXAMINER NUTTER: Are there any further questions of the witness? The witness may be excused. (Witness excused.) EXAMINER NUTTER: Does anyone want to put on any testimony in this case? We will recess until 1:15 and proceed then. (Noon recess taken.) EXAMINER NUTTER: The hearing will come to order, please. Mr. Jones, would you like to proceed with your case? MR. JONES: Yes. ALBUQUERQUE, N. M PHONE 243-6691 We have one witness, Mr. D. M. Hankins. D. M. HANKINS. called as a witness, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION

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BY MR. JONES:



Will you state your name for the record, please. Q Α D. M. Hankins. By whom are you employed? Q Phillips Petroleum Company. А In what capacity? Q Α As District Gas Development Superintendent. Q All right, sir. Are you familiar with the gasoline plant operations of Phillips in Southeast New Mexico? Yes, sir. Α How long have you been familiar with those operations? Q Ever since about 1930. Α Now, specifically, are you familiar with the subject Q matter of this application and the gasoline plant operations of Phillips Petroleum Company as related to the Hobbs, Vacuum-Abo, and Vacuum-San Andres Pools, Lea County, New Mexico? Yes, sir. Α Are the witness's gualifications acceptable? MR. JONES: EXAMINER NUTTER: Yes, sir. You may proceed. (By Mr. Jones) All right, sir. Q Mr. Hankins, in the employment you have described with the Phillips Petroleum Company, is it part of your duty to work with the operators and producers in the pools to schedule handling of gas in the gasoline plants?



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Α

Yes, sir.

ſ	Q Do you have meetings with the operators?
	A Yes, sir.
	Q And schedule and work out flow schedules?
	A We work with each individual operator. We don't try to
m	ake any kind of schedule. We let the operator take care of his
C	wn producing of the well.
	Q All right, sir. You do work with them?
	A We work with the operators, yes, sir.
	Q That is on the flow into the plant
	A Yes, sir.
	Q of gas into the plant?
	A That's right.
	Q Now, are those meetings, have they been held for several
	years?
	A Yes, for quite a number of years.
	Q All right, sir. Despite the cooperation of the operat-
ļ	ors in the field and your efforts to work with them, do you find
	that you have peaks of gas production into the plants?
	A We do.
	Q When do you find those peaks with relation to during the
đ	ay, during the week, or during the month?
	A More of our peaks come through the first seventeen days
	of the month, and then also during daylight hours. A majority of
	the time our peaks hit us about, oh, say, nine o'clock in the

morning till four or five in the evening.



All right, sir. So, you have peaks during the day as Q distinguished from the night?

Α That's right.

Do you have peaks also during the week days as contrasted Q FARMINGTON, N. M. PHONE 325-1182 with the week ends?

А That's right.

You have peaks, as you say, during the first fifteen or Q so days of the month as contrasted with the latter half of the month?

The first fifteen days of the month they are consider-Α ably higher than what we have during the latter part of the month.

Those three types of peaks, so to speak, exist despite Q your efforts, despite the/operation of the operators in the field?

А That's right.

Even under the present situation of 25 per cent daily Q tolerance of production and the five days during any proration. period during the month?

Α That's right.

Now, of the fields involved in this application, Mr. Q Hankins, does Phillips Petroleum Company take the gas from the Hobbs Pools?

Α Yes, sir.

Into what plant? Q

Into the Hobbs plant. Α

All right. What is the capacity of the Hobbs plant? Q



ALBUQUERQUE, N. M. PHONE 243-6691

	ſ	A It has a capacity of 25, 27 million feet per day.
		Q All right. What volume of gas, on an average, are you
		processing daily?
	. α 3 ζ	A 23.
	325-11	Q Twenty-three million?
ïC.	PHONE	A Yes, sir.
Г, In		Q That is a daily average during the month?
7ICE		A That's a monthly daily average.
ERV		Q Do you have peaks of gas production coming into the
SI		Hobbs plant in excess of the twenty-three million average?
<b>INC</b>		A That's right.
DRT		Q That's during the peak period you mentioned earlier in
EPC		your testimony?
R		A That's right.
IER		Q Even under the present operations, do you have peaks
.ME		coming into the plant which exceed the plant capacity?
EY.		A We do.
<b>SNL</b>		Q To that extent, it results in either gathering of gas at
EAH	, м. - её	the plant or preventing of wet gas in field, or the preventing of
D	RQUE, N 243-66	residue; is that correct?
	HONE	A That's right.
	<-	Q All right, sir. Now, do you have figures showing the
		volume of gas from the Shell lease which is now being processed in
		the Hobbs plant?
		A We processed during the Month of September, approximately
		_



two million eight hundred thirty-five thousand cubic feet of gas per day from the Shell leases in the Hobbs area.

Q That's the average over the thirty-day month?

A Yes, sir.

Q All right. Under the proposal which has been advanced by Shell, which was to produce five days out of a seven-day week, that would result in Shell's production of twenty days during the month, would it not?

A That's right.

Q All right. Now, using the figures for the present Shell production, what would be the daily average of Shell gas under production of only twenty days during the month?

A I estimate approximately four million two hundred thousand feet per day.

Q All right. Now, do you have any figures showing the flaring during the peaks at the Hobbs plant under present conditions?

A Flaring of wet gas during peaks, it generally runs from two to four hundred thousand per day, and residue which is flared out of the plant is approximately two to three hundred thousand feet per day.

Q The figures you have shown for the Shell production would be an increase of 50 per cent in daily production on twenty days out of the month as distinguished from present production over the thirty-day average?



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	<b></b>	
	A	Approximately, yes.
	Q	Do you have figures comparable on the Lea plant?
	A	Yes.
, ₩,		EXAMINER NUTTER: Mr. Hankins, the Lea plant Mr.
1670N, 1 E 325-	Sumerwell	spoke of as being at Buckeye in the Vacuum Pool.
PHON	ବ	(By Mr. Jones) Of the fields involved in this applica-
	tion, which	ch produce gas into the Phillips plant?
	A	Excuse me. Now, what was that now?
	ହ	Which fields involved in this application of the four
	that have	been mentioned, produce gas into the Lea plant?
	А	The San Andres.
	Q	The Vacuum-San Andres?
	A	Yes, and the Abo.
	ବ	The Vacuum-Abo?
	A	Yes, the Vacuum-Abo.
	ବ	What is the capacity of the Lea plant?
	А	Approximately fifty-two million feet per day.
	ବ	What is your average of daily gas processed in the
N. M. 5691	plant at f	the present time?
EROUE, E 243.6	А	Approximately fifty million per day.
PHONE	ହ	During the peak period of production, do you have gas
	coming in	to the plant which exceeds its capacity?
	А	Yes.
	Q	To what extent?
1		

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A The wet gas figures are approximately two million feet



per day, and our residue flare is approximately three million feet per day.

Q All right. Now, what are the figures on Shell's gas which is processed in the Lea plant now?

A **Based** on a daily average, it is approximately two million eight hundred thousand per day.

Q All right. Now, taking the Shell proposal, to produce five days out of the seven-day week, which would be twenty days during the month, what would be the daily average production of Shell gas into the Lea plant?

A Approximately four million two hundred thousand.

Q That would be an increase of fifty per cent?

A Yes.

Q Mr. Hankins, from your knowledge of the operations of Phillips Petroleum Company Hobbs plant and its Lea plant, do you know of any reason why, if this application is granted to Shell, other operators would not be in a similar position to ask for and receive, likewise, a daily tolerance of 100 per cent instead of 25 per cent?

A I believe if the application is approved I feel pretty sure that all the rest of the operators in the area would ask for the same condition.

Q All right. Now, what, in your opinion, would be the effect of granting the Shell application in possible other applications as far as -- what would be the effect on the peaks of gas



FARMINGTON, N. M. PHONE 325-1182 DEARNLEY-MEIER REPORTING SERVICE, Inc. ERQUE, N. M.

ALBUQUER

production into the plant?

A The additional volume on peaks would have to be flared.

Q Is it your opinion you would obtain additional volume on peaks over and beyond what you are now peaking?

A Yes, that's right.

Q From your knowledge of the two Phillips plant with which we are here concerned, is it your opinion that it is economic and feasible for Phillips to install additional compressor capacity to handle the peak loads which you are now obtaining?

A No, sir.

Q Likewise, would it be economically feasible to install additional compressor capacities to handle any increased peak loads which you would get if this application were granted and if other applications were granted?

A It would not.

Q Mr. Hankins, I believe you are one of those parties having attended a meeting at which Shell presented its proposal and outline that has been presented at this hearing?

A Yes.

Q All right. Was any flow schedule or any specific plan of flowing and producing the gas presented to you at that time?

A No.

Α

Q They offered you their cooperation, which I am sure they do give you, but there was no specific plan presented?

No. They said they'd go ahead and cooperate with us.



Q All right, sir. Now, if the plan as outlined by Shell, that is, producing five days out of the seven-day week; is it not a fact that any plan which would prevent an increase in your peak loads would necessarily involve cooperation, not only by Shell but by the other operators in the field?

A I think they'd concern everyone producing in the area, in the whole field.

Q It couldn't be worked out just by the utmost good faith cooperation between Phillips and Shell?

A I don't believe it could.

Q Now, in the plant operations which you have outlined, do you occasionally find that you have trouble with trap pressure at the leases?

A We do, specifically on peak loads. Peak flows have a tendency to increase trap pressure and flare gas at the separators in the field.

Q Is that because these pressures on the lease line will not get into the Phillips gasoline line?

A Yes, that's right.

Q All right. Now, if you have an increased load of gas coming into the Phillips gathering lines by virtue of increased production of gas at any particular time, is it your opinion that this would tend to increase the pressure so that gas from some leases would not be able to buck the line pressure?

That's right.



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	Q	To that extent, would the gas have to be flared at the
lease	9?	
	A	That's right.
	Q	And those leases would not necessarily be Shell leases,
but o	ould	very well be and probably could be leases of other
opera	tors	, is that correct?
	A	That's right.
	ହ	To that extent, those operators couldn't get their gas
into	the	line at those particular times?
	A	That's right.
	Q	Mr. Hankins, from your experience with Phillips gasoline
plant	c ope:	rations, is it your opinion that the granting of this
appli	cati	on and the possible granting of similar applications woul
lead	to th	he flaring of wet gas at the plant and at the lease to
the p	preve	nting of residue gas at the plant?
	Α	It would aggravate it, you mean?
	Q	Yes.
	A	That's right, it would.
	Q	To that extent, it would be a waste of gas, would it
not?		
	A	Yes, sir.
		MR. JONES: That's all the questions that we have.
		EXAMINER NUTTER: Are there any questions of Mr. Hankins

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About how much gas are you flaring each month at the Q Hobbs plant, wet gas we are speaking of? We have been flaring on a daily basis -- I have just Α took figures for the Month of September. FARMINGTON, N. M. PHONE 325-1182 is approximately two to four hundred thousand feet per day. That's just average. DEARNLEY-MEIER REPORTING SERVICE, Inc. That would run throughout the month at about that rate? Q Yes, sir. А And the residue gas? ହ А Approximately two to three hundred thousand feet per day. How long has this average prevailed? Q Well, it has prevailed for quite sometime. Α Ten years, something like that? Q No, I wouldn't say that. It varies with the allowable Α increase. Also, it varies with your conditions, weather conditions. during the winter months. About how long has it continued, would you say? Q many years? ALBUQUERQUE, N. M. PHONE 243-6691 I'd say anywhere from three to five years. Α Has your plant had its present capacity for about that Q length of time?

> In the neighborhood of that, yes. А

Twelve million? Q

Α Yes.



How

The average on wet gas

	_	
	ſ	Q How long has it been at that capacity?
		A Well, I just couldn't truthfully say. We change capa-
		cities with the engine capacity.
	. м. 1182	Q Would you say four or five years, something like that?
	стои, E 325.	A I'd say two to five years.
nc.	PHON	Q You change the capacity by changing your compressor
Γ, <b>I</b>		capacity?
/ICF		A Well, I think we just take the peak of capacity.
ERV		Q What would it take to increase the capacity of the plant?
S		A Additional horsepower, setting additional compressors.
)/I/C		Q Is that the same for your Buckeye plant? How long have
)RT		you been flaring?
EPC		A That hasn't been flaring as long as we have at Hobbs.
R R		Q How much
IEF		A With additional drilling on the Abo Reef, in that country,
-ME		it's just beginning to show up.
EY	-	Q What would it take there to increase plant capacity?
<b>SNL</b>		A Well, at the present time El Paso is installing addition-
EAF	. м,	al horsepower to take care of the flaring situation.
D	ары, N 243-66	Q Your flaring, does that additional capacity, will that
	HONE	prevent the flaring of wet gas?
	< ~	A Yes.
		Q You are flaring about two million feet a day, wet gas?
		A Yes, sir, and approximately three million of residue.
		Q Can you compare those rates to what Warren is flaring



	1	2
	at their	gasoline plant?
	A	No, sir.
	ହ	At their Monument plant?
ž	A Second	No, sir.
Z V	Q 325.1	Do you know the capacity of the Monument plant?
UC.	A A	No, sir.
, In	Q	Do you know where it is?
ICE	A	Yes.
CR V	Q	Do you know anything about it at all?
SF	A	No, sir.
ING	Q	What is your daily fluctuation into your Hobbs plant
RT	percenta	ge-wise, or cubic feet?
EPC	A	Anywhere from twenty to thirty-five, forty per cent.
R R	ହ	That's principally from night to day?
IEF	А	Yes, sir.
-ME	ବ	How about monthly fluctuation? What magnitudes are
EY	those?	
SNL	A	I'll guess on that; probably twenty-five per cent.
EAI	- g Q	You testified you had a peak during the first few days?
D P	A 243	That's right.
	Q Q	That fluctuation is smaller in magnitude than your daily
, , ,	fluctuat	ion?
	A	Wait. I didn't understand the question.
	Q	Is it your testimony that the extent of your monthly
	fluctuat	ion in percentages is less or greater than your daily



	fluctuation?
	A Well, daily fluctuation would be larger, I think.
	Q What have you done to reduce your monthly fluctuation?
8 18 2	A Well, we've tried to contact the producers in the field
325-1	and work out some kind of schedule for the operators to work their
LC. FARMING PHONE	own flowing schedule out themselves.
, H	Q Have you worked out any schedule with them?
ICE	A We don't work out the schedule. We let the operator
JAV	work their own schedule out.
10	Q Well, what have you done to bring this about?
	A We have worked with them and showed them figures and
1V1	charts on flowing, how they produce in the plant, things like
EPU	that.
K K	Q Has Shell cooperated in this effort?
171	A Yes, sir.
- MI-	Q Have all the other operators?
L I	A Well, you know, operators cooperate as best they can,
KIVI	but they can only go so far.
<b>Г.</b> А. к. н.	Q Now, how about fluctuation in your line pressure. How
ERQUE,	much do they what percentage are you talking about there?
ALBUQU	A In towns?
	Q Yes.
	A That probably fluctuates anywhere from five to fifteen,
	twenty pounds.
	Out of how much? What are your line pressures?



		A	About five pounds.
		Q	You testified that, in your opinion, there would be some
	lease	flar	ing that would result if this application were granted,
н. <del>м</del> . 182	by rea	ason	of a build-up of line pressure; is that correct?
610N, N		A	That's right.
PHONE	(	ହ	Where would this occur? Can you give us an example?
		A	On your laterals.
		ହ	Any particular place in the field where this would occur?
		A	No, it would have to be worked out.
		ହ	Has it ever occurred?
		A	On peak flows, yes.
	(	ହ	Where has it occurred in the field?
		A	In the north end.
		ବ	Can you give us any particular lease?
		A	No, I can't, but we know when we look at the chart we
	can t	ell t	that the pressure comes up during the day.
		ହ	Do you know whether there's been any actual flaring up
	in th	at pa	art of the field?
м. м. 69-		A	Personally, I don't know.
ERQUE, 243.6		ବ	You can't testify, then, there would be some resulting
PHONE	from	appro	oval of this application?
		A	From personal experience I think we could.
		ବ	You don't know from your own experience it's ever occur-
	red,	do ya	ou?
		A	I haven't been on the lease myself, no.

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	Q Don't you believe there would be some conservation			
	gained by permitting this type of operation?			
	A I wouldn't know from a production standpoint.			
ж. 182	Q Would you know if the cost of operation is reduced on			
.Ton, n. 325-1	any field that the economic life of the field is extended? Isn't			
LC. FARMING PHONE	that going to come about?			
., In	A Well, I wouldn't know that.			
TCE	Q Does Phillips have some production in any of these			
ERV	fields?			
SI	A No, they have it in the Vacuum Pool.			
JNI	Q Do you think it would be to their advantage to extend			
)RT	the productive life of the Vacuum Pool?			
EPC	A I think it's up to the production management to do that.			
8 <i>R</i>	Q In your opinion, as an ordinary businessman, isn't that			
EIEI	reasonable?			
-MF	A Well, I think so, but I don't know any details or facts			
LEY	of this case.			
RNI	Q Do you have any plans for expansion of the Buckeye or			
<b>EA</b> "."	Hobbs plants?			
L JERQUE, E 243.0	A No, sir, unless with the exception of gathering the			
PHON	gas up there at the present time.			
	Q Have you had any new customers within the last two years			
	say?			
	A Specifically what do you mean?			
	0 The Hobbs gasoline plant.			



A Oh, possibly two or three leases. I imagine.	
Q How much gas?	
$A \qquad Ob \qquad \mathbf{I}  \mathbf{wou} \ ] \mathbf{dn} \ \mathbf{t}  \mathbf{know}$	
A OIL, I WOULDI U KHOW.	
Q Can you give us an approximate figure?	
A Approximately two or three hundred thousand fe	et, I
imagine.	
Q Do you have a pressure valve on your wet gas f	lare at
the plant?	
A A back pressure valve?	
Q Yes.	
A Yes, five to seven pounds.	
Q You testified at some length about the trouble	it would
take in scheduling the gas into the plant. Don't you be	lieve some
trouble is worthwhile if some conservation can be brough	t about
by it?	
A I think so if providing all the operators wo	
D operate.	
Q Well, don't you, from your experience, don't y	ou think
all the operators do cooperate?	
A They do a pretty good job, but they still coul	d go a
long way.	
Q Have you been unsuccessful in your attempts to	do any
scheduling at all? Is that what you are testifying to?	
A No, we have done pretty good.	
Q Don't you expect to do the same? Is there any	thing



that's going to change that?

A Except -- the only thing I could do -- when he starts producing these leases at the high rate in the plants already loaded, we are going to flare.

Q When that happens, the allowable should go up five barrels a month?

A Well, if we can justify it we'll need additional horsepower.

Q You have experienced fluctuation in the allowables, haven't you, since you have been down there?

A Yes, sir, we have.

Q Isn't that the reason those fluctuations are a much bigger problem than this is?

A I don't think so, if we can justify it.

Q Could you work out your scheduling -- when you have a bigger increase in allowable, doesn't it increase your --

A Well, in the Hobbs field we haven't had too much of an increase in drilling activity up there. You know, that is a pretty old field.

Q I am talking about allowables now. You actually testified that at these meetings that Shell had not proposed any definite plans of scheduling, is that right?

A Well, the meeting we attended, they didn't.

Q Did you present any definite plan?

A No, sir.



Q Why didn't you present one?

A We did not think it necessary.

Q Why not?

A We came to observe what program he was going to present to the Commission. Q Is that why you came to that meeting, and that was the

Q Is that why you came to that meeting, and that was the only reason?

A Well, of course, naturally, we work with Phillips Petroleum, and we were interested in anything pertaining to the service and processing of the plant.

Q Don't you think you could propose a definite program that would take care of this plan? Why did you put the burden on the operator?

A Well, I think it's going to take additional manpower, additional labor at the plant.

Q What are you talking about?

A Phillips Petroleum Company and also for the other operators.

Q You are talking about there may be some trouble, it may take some more labor until you get the program settled down again, is that correct?

A Well, I don't know about the program settling down. There is always lots of things that come up, pipeline proration, pipline connections.

Q That always has been. That's not going to change that,



DEARNLEY-MEIER REPORTING SERVICE, Inc. ALBUQUERQUE, N. M PHONE 243-6691 is it, Mr. Hankins? Well, I think it would. Α Q On your figures, you figured your average there of the Shell contribution of gas to the Hobbs plant. At present, your average is over a thirty-day month? Yes. Α Q Do they actually deliver gas over a thirty-day period now? I haven't seen other charts. A Q You don't know? I wouldn't know. A Why do you have an average over a thirty-day period? Q Well, that's the figures we used on any plant operation. Α Q You are just assuming they do it. It may not be the case, right? That's right. Α Well, you know, you have a lease out there and a meter that registers, that goes through there, and we usually figure the total volume from the month and come out with the figures. Now, where it produces every day for the month, I don't know. But

we have charts to go back and look at.

Q I was speaking of what you testified to a minute ago. Your figures that you were using were on a thirty-day period?

A Yes.

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ALBUQUERQUE, N. M. PHONE 243-6691

Q You ordinarily do that?



A That's right.

Q If it's not produced for the thirty-day period, why these figures would have to be adjusted, is that right?

A That's right.

MR. SETH: May I have just a minute?

EXAMINER NUTTER: Yes, sir.

MR. SETH: I think that's all on the cross examination. EXAMINER NUTTER: Are there any further questions of

Mr. Hankins?

### EXAMINATION

## BY MR. JONES:

Q Mr. Hankins, it has been asked why you put the burden on the operator to work out their flow schedules, and, in effect, why you didn't do it for them.

Now, isn't it a fact that's the way gasoline plant business is run, not only by Phillips but other operators, that the operators themselves figure out their flow schedules, and they want to run their leases like they want to? Isn't that the truth of the matter?

A That's right.

Q And these gasoline plant operators don't purport to tell its producers when they can run gas and when they can't run gas?

A We don't think it's necessary to tell the operator when to produce and how to produce the lease. All we try to do is to have an even flow over the thirty-day period.



Q That just isn't done?

A No, sir.

Q It would be likely that producers would resent it that you'd be trying to run their leases for them?

A I think it would, yes.

MR. JONES: That's all.

EXAMINATION

# BY EXAMINER NUTTER:

Q Mr. Hankins, you stated this would amount to about 50 per cent increase in the Shell gas into the plant. Were you taking into consideration the fact that some of these wells wouldn't be producing on these two days that they wouldn't have a pumper available?

A No, sir, I did not figure that.

Q You are assuming that all of the wells would be producing five days and all shut in for two days?

A That's right.

Q Now, the Hobbs plant flares two to three hundred thousand feet of residue gas per day. Whose responsibility is this, the fact that this residue gas is flared; is it the responsibility of the pipeline that they couldn't have the capacity to handle the gas?

A Well, I don't know. Let's go back to this. If the gas comes in, we process it through the plant, and what we are unable to handle, why, that has to flare. If we have a peak more than



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the pipeline can handle, they also have to flare that peak.

Q. That's the residue going through the gasoline plant, and then stripped of liquids and available to the gas transportion lines to take away if they can handle it?

That's right. When you hit those peaks, there's nothing Α you can do about it.

Who is the gas purchaser of the gas residue at the Hobbs ର plant?

El Paso. Α

Do you know if they have plans underway to increase their Q horsepower or compressor capacity?

No, I don't. A

This two hundred to four hundred thousand feet of wet Q gas which you average during the peaks, this is gas that's above and beyond the capacity of the plant, itself, to handle?

That's right. Α

Yes.

And in addition there is some gas being pumped out of Q separators in the field?

No, I didn't say that. I just said if you increase the A volume that you have in addition to what we already have coming in, we estimate gas would flare in the field.

I see. Out at the Lea plant? Q

You have two million feet per day of wet gas. Α

That's flared during the peak, is that correct? Q



Q This is due primarily to the recent development in the
Abo, there?
A Yes, sir.
Q Do you contemplate any increase in the capacity in that
plant?
A We estimate that this residue and wet gas would be prob
ably taken care of by the fifteenth of next month. El Paso is
installing additional horsepower.
Q Is that going to increase your wet gas flare?
A Yes. El Paso will also pump some additional gas on the
wet side.
Q They will buy some gas prior to that time?
A They will handle some of the wet gas that's being flare
now.
Q You've got an average of five million feet of wet and
dry gas both at the same plant?
A Yes.
Q Do you contemplate any changes or additional capacity
in the Phillips plant at Buckeye?
A Not at the present time.
Q But El Paso is installing additional facilities?
A Yes.
EXAMINER NUTTER: Are there any further questions of
Mr. Hankins?
If not, he may be excused.

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(Witness excused.)

EXAMINER NUTTER: Are there any further statements in this case?

MR. SETH: We will recall Mr. Sumerwell.

R. L. SUMERWELL,

having been previously duly sworn, was recalled and testified further as follows:

#### EXAMINATION

BY MR. SETH:

Q Mr. Sumerwell, do you have some figures which show the percentage increase of the total Hobbs plant intake that will result if Shell were granted this application?

A Yes, sir. According to the figures we have -- these do differ somewhat with those of Mr. Hankins -- but taking the data we presented to the Commission, granting this application would increase Shell gas output approximately 18 per cent per day or increase the peaks on the Hobbs plant approximately 1.8 per cent.

Now, just doing some rough figuring, increasing the allowable from 34 to 35, it figures approximately 2.8 per cent increase in plant intake, so this seems, in one sense, quite small for an increase in gas rates.

Q Now, do you have similar figures on the other plants?

A Yes, sir. In the Monument, producing at the rate, again, that we presented on the graphs, this would effect approximately 25 per cent increase in Shell's gas rates, or approximately .5 per



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cent increase in the Lea plant intake. That's a per-day increase.

Q Mr. Hankins testified to a thirty-day average period. Do your exhibits show that you delivered gas for each day of each month, ordinarily?

A Yes. However, I should point out that these exhibits are ideal graphs and that this is how we would normally produce the well, the top allowable wells would be produced at approximately 125 per cent of the unit allowables to the 25th or 26th day of the month, and marginal wells would run continuously all month.

Q Now, you testified to the big peaks during the first fifteen or seventeen days of the month.

Do you believe that this program you propose would tend to level out that peak?

A I think it would. In fact, I don't see how we could help but to level this out, and in my mind, it only gets more attractive to the gas plant as other operators might do this through proper scheduling of the days off. It would help level out the plant intake, but should other operators, major operators, do the same thing, I think the scheduling of the days off would level out the intake.

Q Do you believe other operators would be as cooperative as Shell?

A I shouldn't think so.



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#### EXAMINATION

#### BY EXAMINER NUTTER:

Q Mr. Sumerwell, what per cent increase in Shell's gas did you say one barrel increase in the normal unit allowable would result, as far as the Hobbs plant is concerned?

A 2.8, I believe. That's not Shell gas; that's overall plant intake.

Q That's plant gas?

A Yes.

Q Do you make a normal allocation for the Lea plant?

A No.

Q Have you had any calculations as to the increase in Shell gas, or the increase in plant peak that would result in the Warren plant in the Monument?

A No, sir. Just these two.

EXAMINER NUTTER: Are there any further questions of Mr. Sumerwell?

#### EXAMINATION

BY MR. JONES:

Q Mr. Sumerwell, you stated that the production on five out of seven days during the week would tend to level out the peaks. That would only be true if you produced your wells twenty-four hours a day during those five days.

A I am speaking of monthly. I should have said that. I don't know what effect it will have on daily peaks.



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Q It could only possibly affect the monthly peaks, then? A Yes. Q And not the daily peaks because more gas is produced, it seems, during week days than on week ends. It would have no effect on that?

A It could have.

Q And only if two of the five days were Saturday and Sunday?

A That's a plant problem.

Q Is it your proposal that, of the five days that Shell will produce, that two of them will be Saturday and Sunday?

A I'm not authorized to say that. I am authorized to say that Shell will cooperate with the gas boys if they have a problem in peak loads.

Q You found that the plants were willing to cooperate, have you not? These are matters that just happened in spite of all good faith by both parties, isn't it?

A I think so, yes.

Q Now, Mr. Sumerwell, you have testified that of the three fields with which Phillips is concerned, and you understand, of course, Phillips is not concerned with the Monument because it doesn't take the gas there -- of the three fields, why the saving in supervision will be the fact you will no longer need the relief pumper on Saturday and Sunday in those three fields. Is that true

That's correct.

A



I	Q Is the same pumper now performing relief pumping in all
	three fields?
С. Армилстон, н. м. РНОИЕ 325-1182	A No.
	Q You have three different relief pumpers?
	A Yes.
	Q All right. Now, how was the figure of 60,000 barrels
, In	additional recovery computed?
ICE	A It was computed by assuming that the cost would be re-
RV	duced by approximately \$11,000 per year on a 10 per cent decline
SF	on all these four fields.
<b>EPORTING</b>	Q That is the total on all four fields?
	A That is correct. It is an estimate.
	Q Do you have any breakdown as to the additional recovery
RI	among the four fields as distinguished from the total of 60,000
IER	barrels?
ME	A I'm sorry.
EY-	Q Do you have the figures for each of the four fields?
INL	A No, I don't, not broken down separately.
£AR ₅".	Q Now, the 60,000 barrel savings, you will not have the
DJ 1046, N. 243.66	pumper pumping on Saturday and Sunday, is that correct?
PHONE	A Yes, so that would be a minimum saving. We anticipate
₹ "	possible other savings.
	MR. JONES: I believe that's all.
	EXAMINATION
	BY EXAMINER NUTTER:



Q Mr. Sumerwell, in the event this application were granted, and in the event that other operators seek and should receive approval for the same type of scheduling of production, would Shell be willing to cooperate with such other operators to work out these days off that the pumpers would have?

A Yes, to the fullest.

Q Even to the extent of possibly changing the days off from Tuesday and Wednesday to Thursday and Friday?

A Yes, we are not after any two days.

EXAMINER NUTTER: Are there any further questions of the witness?

The witness may be excused.

(Witness excused.)

MR. SETH: That's all.

MR. CARNEY: I am B. R. Carney, representing Warren

Petroleum. I have been asked to make a statement on behalf of Warren, which operates a gas processing plant in the Monument Field, and also in the Eunice and San Andres.

Now, we are opposed to this application. We regret to have to come here, but in fairness to ourselves and in fairness to the other gas suppliers, we feel we should state our opposition. I don't want to close my statement here without giving some reasons. I think I can best give these reasons by describing very briefly in a general way, some of our operations.

In our Monument plant we have a normal capacity of



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ninety-five to a hundred million feet of gas. We are running now on an average of on the order of ninety million a day. With that margin of capacity, we just get by without any flaring. It gives us a capacity over and above our average loads.

At Eunice, we have a capacity of about sixty-five million and it is so nearly fully loaded that we do, on peak periods, have some little flaring. The amount I am not prepared to say, but some of it does get away in Eunice.

Now, we can't or shouldn't presume to judge what this Commission might do about other applications similar to those presented by Shell. We have to take into account the possibility, perhaps I should say probability, that the Commission would give similar treatment to persons similarly situated, in which case we feel we would have relatively large peaks of gas during the five operating days and would have about four periods in the month coinciding with week ends when our plant would be loaded to a fraction of capacity, resulting in wasting of gas during the peaks and wastage of gas during the low days.

At the same time, it wouldn't be economical for us to install additional facilities to try to catch those peaks.

Also, we'd have problems with our customers who are obligated to take a certain specified amount of gas and who expect to take that, day in and day out through the month.

In short, our apprehension in this matter is a good deal the same as the apprehension touched upon by Shell in their letter



which Mr. Sumerwell read this morning. The Shell people said that their ability to continue to take the oil, and so on, would tend, might be affected by what other operators did beside Shell. We are apprehensive for the same reason.

That's a brief outline of the reasons why we feel it would lead to waste of gas, waste of capacity on off-peak days.

EXAMINER NUTTER: Thank you.

Is there anything further?

MR. RAINEY: D. H. Rainey, El Paso Natural Gas. With reference to Case No. 2406, El Paso would like to make a comment or two.

The wells involved in this case do not deliver gas to El Paso's plants, therefore El Paso is not actively participating. However, El Paso will oppose extending the proposed exception to Rule 502 (1) to wells delivering gas to El Paso plants unless the facts clearly establish that the exception would not result in waste due to severe fluctuations in the volumes of casinghead gas delivered to the plants.

EXAMINER NUTTER: You are not actively opposed to granting the application?

MR. RAINEY: We are neither for nor against this particular application, but we are serving notice we will actively oppose any similar application in regards to the El Paso plants.

EXAMINER NUTTER: Are there any further statements to be made in this case?


MR. KELLAHIN: Jason Kellahin, appearing for Amerada Corporation. Amerada is in support of Shell's application in Case No. 2406.

The proposal would possibly have some effect on the gasoline plant operations as brought out in testimony, but it does not appear to us that the difficulties resulting would be insurmountable, as has been shown. The effects on gasoline plant operation would be no greater than that resulting from a change in the allowable, should we be so fortunate to get one at some future date in other areas where the allowable is assigned on the basis of production.

The gas lines should be able to cope with the situation. Difficulties entailed here are, in our opinion, more than offset by the operating economics that would be affected, and the flexibility of operation that would be achieved.

For that reason, Amerada is in support of the application.

MR. BLACK: C. R. Black, with Texaco, Inc. Texaco goes along with the other operators also vitally interested in any operational procedure that would result in providing for more efficient, economic operation.

Texaco believes that the problems between operators in the gasoline plants concerning peak production can be resolved reasonably, and Texaco does wish to concur with Shell Oil Company in this application.

EXAMINER NUTTER: Thank you.



MR. MORRIS: If the Examiner please, the Commission is in receipt of a telegram from George W. Sellinger of Skelly Oil Company.

"Reference Case No. 2406. We oppose the granting of exception to Shell Rule 502-1, Lea County, New Mexico, to increase from 25 per cent to 100 per cent daily production tolerance in certain fields in Lea County, New Mexico. Skelly Oil Company operates wells in these fields and as producer, is opposed to changing the existing rule as being unnecessary and leading to confusion. Skelly Oil Company, as operator of gasoline plants, also opposses application since it will cause maximum volume of gas at shorter period of time to make existing facilities incapable of handling such temporary large amounts."

That is signed by George W. Sellinger of Skelly Oil Company.

EXAMINER NUTTER: Is there anything further?

MR. JONES: Mr. Examiner, we go along with Warren and find ourselves in the position of reluctantly opposing anything which will lead or could lead to more economic or more efficient operation of the plant.

However, we think the difficulties presented to the gasoline plants will certainly become aggravated. The testimony has brought out that, in spite of good faith cooperation on both the part of the plant operator and the part of the producers under the present rule, serious difficulties are encountered by three



peaks, day as versus night, week days versus week ends, and the first of the month as against the last of the month.

Mr. Examiner, we see no difficulty and no difficulty has been pointed out in the evidence between these fields involved and any other fields in Southeast New Mexico. There is no difference between the Shell leases in these four fields and the leases of other operators in the four fields. In other words, the effect of granting the application would be a total abrogation of rule 502, section 1, providing for the 25 per cent tolerance, because anybody with a top allowable can show some increase in efficiency or some savings. In this case, we believe the saving of two days of relief pumpers' time in four fields, three of which Phillips are interested in, is certainly a minimal saving as compared to the waste of gas which will undoubtedly result; and all of the testimony indicates that there would be serious peaks which would aggravate the present peaks, and that all of the efforts by operators and of the plants and of producers of the leases acting together have not been able to eliminate.

We think the saving, although it could be accomplished without waste, is not justified in this case. There is no difference here than in any other field that might be presented, and Shell fields are in no different position than any other operator, and we ask that the application be denied.

> EXAMINER NUTTER: Is there anything further? If not, the case will be taken under advisement.



STATE OF NEW MEXICO COUNTY OF SAN JUAN

I. THOMAS F. HORNE, Court Reporter, in and for the County of San Juan, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

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My commission expires:

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I do hereby certify that the foregoing is a complete ros vi or the proceeding Case No. 2406 the Emailies has the of 1961 ... Ź heara by he ga. terminer Examiner New Mexico Oil Conservation Commission

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