Case Number 4/45

Application
Trascripts

Small Exhibits

ETC.

BEFORE THE

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	2	WITNESS		DIRECT	CROSS
44Î 442 113	3	EDDIE MAHFOOD			
	4	(By Mr. Losee)		3	
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MR. UTZ: Call Case No. 4745.

MR. DERRYBERRY: In the matter of Case No. 4745
being reopened pursuant to the provisions of Order No. R-4365,
which order established special rules and regulations for
the Penasco Draw San Andres-Yeso Pool, Eddy County, New
Mexico, including a provision for classification of oil wells
and gas wells, the spacing thereof, and a limiting gas-oil
ratio of 3000 to 1.

MR. LOSEE: A. J. Losee, Losee and Carson, appearing on behalf of applicant. I have one witness, Mr. Mahfood.

EDDIE MAHFOOD,

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

DIRECT EXAMINATION

BY MR. LOSEE:

- Q State your name, residence and occupation.
- A Eddie Mahfood, Artesia, New Mexico, Chief Engineer for Yates Petroleum.
- Q Have you previously testified before the Commission and made your qualifications a matter of record?
- A Yes, I have.
- Order R-4365 was entered by the Commission on August 28, 1972, establishing special pool rules for Penasco Draw San Andres-Yeso Pool. Briefly, what did that order

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NEW MEXICO 9710	MEXICO 87108
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,		PAGE 4
1		provide with respect to spacing for gas and oil wells?
2	A	It provides 320-acre spacing for gas wells and 40-acre
3		spacing for oil wells.
4	Q	What about the gas-oil ratio between gas wells and oil
5		wells?
6	A	That's approximately 10,000 to 1 gas-oil ratio and it
7		also had a limiting gas-oil ratio 3000 to 1.
8	Q	Does anyone other than Yates Petroleum Corporation
9		operate any wells in this field?
10	A	No, Yates Petroleum is the only operator in the San
11		Andres field.
12	Q	Does Yates desire that these special pool rules be
13		continued and enforced?
14	A	Yes. We would like to have the spacing permanent, if
15		it's possible. We would like to have permanent 320-acre
16		spacing for gas wells and provide this evidence we
17		hope is satisfactory. If not, then we will come back with
18		more evidence later to discuss the 320 spacing.
19	Q	You, in effect, want all of the rules continued. Do you
20		have any exception to that request?
21	A	Yes, I would except the 3000 to 1 ratio. We do not really
22		need this because it is so tight that we have exceeded
23		its allowable.
24	Ö	So that the rules could be amended to provide a limiting
25		GOR of 2000 to 1?

			Right. This is a standard gas-022
1	A		Right. This is a standard please refer to what has been marked as Exhibit 1 and
2	Q		Please refer to what has been while exhibit.
3			briefly explain what is shown on this exhibit.
			whit I is an ownership map of the Penasco Diam del
•	• P	1	it for the gas wells marked as such.
!	5		and I have It for the arrows pointing out the trend of the a red line with arrows pointing out the trend on the
	6		a red line with arrows position
	7		reservoir and these wells are all presented on the
			cross section in the order in which we appear on this
	8		
	9		were there any other wells at your initial here which
	10	Q	Were there any other work which have turned out to be you projected as gas wells which have turned out to be
	11		you projected as gas wells willow
	12		oil wells?
		A	oil wells: Yes, sir. A year ago we presented the Nicholas BJ
B7108	13	Number 1 and the Johnston BE.	
E X 1 C C	14		Well, the Johnston BE isn't shown, is it?
. ∑ . ≱ . Ы	15	Q	No, it's obliterated on this map; but it's in the
0 F X 0	16	A	No, it's obliterated on the same it is presently
243-5691-8 AL BUQUERGUE, NEW MEXICO 87108 545T-8 ALBUGUERGUE, NEW MEXICO 87108	17		northeast corner of Section 8 and it is presently
801 * A ALBU			completed as a Morrow well.
E 243.5	18		a way actually deepened that well to the Mollow
1-1 W	19	Q	
1092 PHONE	20		formation?
00 س	21	P	That is correct.
0.4 10.7			But your BJ well?
SIMMS BLDG. P.O. BOY	22		But your so were and so are a surned out to be less than 10,000 to 1 ratio. It's a surned out to be less than 10,000 to 1 ratio. It's
SIMMS B	2	3	ratio at the moment
209 511	2	4	approximately 1400 to 1 120 and 1ts another well in the same section, the C.I. No. 2 and its
			another were

This is a standard gas-oil ratio.

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SIMMS BLOG P.O. BOX 1092 . PHONE 243-6691 . ALBUQUERQUE. NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. EAST+ALBUQUERQUE, NEW MEXICO 87108
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	ratio is approximately 9000 at the moment.
Q	Please refer to what's been marked as Exhibit 2, that
	being the cross section of the wells identified on
	Exhibit 1 and briefly explain what is shown on this
	cross section.
A	We see the four gas wells and the C.I. No. 2 well.
	The purpose of this is to show continuity of formation
	which is a requisite approved drainage. I have called
	in the porosity origin and you can see that the porosity
	exists in all of these wells. Saturations are running
	approximately 25 percent upon the unilateral log
	porosity but I believe if we were to core, we would
	probably find that it was less than 25 percent water
	saturation.
Q	You haven't cored any of these wells; have you?
A	No, we have not.
Q	Is this exhibit intended to show that the wells will
	drain, that the formation is continuous and that there's
	a likelihood that the wells will drain the area
	designated to them?
A	I believe it does.
Q	Please refer to what has been marked as Exhibit 3 and
	entitled Investment and Production History of your gas
	wells and explain the important factors of this exhibit.

We see the cost of wells and the cost of gathering the

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) SIMMS BLDG. # P.O. BOX 1092 #PHONE 243-6691 #ALBUQUERQUE. NEW MEXICO 87103 1216 first national bank bldg. East #Albuquerque, new mexico 87108 it shows a total investment of one hundred fifty-three thousand thirty-six.

Why is that much higher than the others, Mr. Mahfood?

Because this well was drilled to the ABO, and, of course

Because this well was drilled to the ABO, and, of course, the ABO was not productive. So the San Andres stands the burden of that well. The pipe line fifty thousand is that eight-inch line. It is the primary in this well and at the moment I have to add it to the cost to the investment; but as additional wells are drilled, they will share a portion of this cost.

Now, this plant you're referring to, is that a plant that's been constructed subsequent to your original Application in this case?

A That is correct. The plant was built by Transwestern to process our gas. On this exhibit I'm also showing the estimated reserves and the approximate value of these reserves, basically at these prices and you can see that they're running very close investment versus revenue value, reserve value, which makes the economic look awful poor for drilling additional wells.

You have the other wells on there. The Federal AB, total investment thirty-eight thousand eight hundred thirty has main reserves of 105,000,000 cubic feet and 4740 barrels of oil or roughly \$45,000. This is a

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fairly break-even investment.

The Federal CI costs \$46,000 and we expected to return forty-one thousand nine hundred and twenty. It was a bad investment.

The Federal CM cost us seventy-two thousand five hundred. It was drilled to 2000 feet and the estimated return was sixty-two thousand seven hundred eighty which is another bad investment. Because of this poor return, we are very hesitant to drill additional wells. We will drill them on 320-acre spacing as warranted and we do not feel that less than 320-acre spacing is justified for producing or for developing this gas field. If the reserves are there and we cannot drill them, there will be no conservation and the reserves will be lost.

- It would be a waste of natural gas in the same place?
- Right.
- Mr. Mahfood, is there any significance to the fact to the production history which is on these wells correlating one to the other, indicating areas of drainage?
- Yes. We see a rapid decline in the first three or four months and then even off in rather slight degrees. We see this and the degrees would be where it declined to 6,581,000 in June. And actually hit a bottom of 212 mcf. a day. It's up this 8.65 million which is approximately 3127 mcf. per day. These were not

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producing all the time. They automatically shut in. When the plant goes down, they shut in. We see that the AB and the CI, they're awful close for July and August. There is just 6000 in this AB difference and about 14,000 more in the CI in August.

- Do you think that indicates they're drainage patterns are somewhat similar?
- That should certainly seem to be similarity in production rates.
- Please refer to what's been marked as Exhibit 4, being the C 116 form GOR test made in the field and explain only the significance of this exhibit.
- Well, the gas-oil ratios are taken as required in the order and show that the gas-oil ratios in the four gas wells are still or above 10,000 to 1. You see, the Federal AB in July with 16,940 gas-oil ratio; the CM at 143,200 gas-oil ratio; the Greasewood has made no fluid at all, that's why its gas-oil ratio is infinite. The Mobil IV has a ratio of 10,000 to 340 and the previous gas-oil ratio is for the first part of '73.

We saw the Greasewood had an infinite ratio; the CI had a ratio of 11,008; the AB had a ratio of 17,940; the CM was not drilled then, was not completed then.

Mr. Mahfood, have you run any interference bottom hole

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pressure guesses on these wells? No, we have not. The plant was designed for 5,000,000, Α and at the present time, for the past six months we have been operated at minus. We could not afford a shut in of these wells even for a bottom hole pressure and calculations indicate that it will take approximately 15 days to get built up showing the 320-acre drainage. Of course, to get interference test it would probably take in the neighborhood of five months to prove interference. Do you have an opinion as to whether these gas wells

- can reasonably be expected to drain 320 acres?
- Yes, sir. I believe they will drain 320. We are fairly Α sure of it as contiguous. The porosity is contiguous and the production history, although it's too early to confirm it, does indicate similarities in their producing characteristics.
- You ask the Commission to continue the distinction Q between gas and oil wells at 10,000 to 1?
- Yes, sir. I would ask that they do that. A
- You have no objection to the reduction of the GOR limiting factor of 2000 to 1?
- No, we have no objection to that.

That's all I have of this witness. MR. LOSEE:

Questions of the witness? MR. UTZ:

(No response.)

CROSS-EXAMINATION

BY MR. UTZ:

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- You're basing your contention of drainage to the continuity of the formation?
- That's correct.
- You have no idea what the bottom hole pressures are at Q this time?
- At the least hearing we presented bottom hole pressures on the C.I. No. 1 and on the Greasewood at 424 and 427. And there were just three-pound separation between them which is about the accuracy of our measurements.

On the AB, we had a surface pressure of 388 pounds, I believe. No, it's the BD, 388 pounds on the surface pressure on the CM Federal. However, we did not shoot the fuel level on this so it's a little difficult to determine just what the bottom hole pressure was. I made several trips out there to do this and each time I was unable to get into the well. And on the AB, the surface pressure was 341 absolutely on March the 17th. The well has a pump jack on it. It was locked up. We do not know what the depth of the fluid is, but I feel reasonably sure that it is all within the original 424.

MR. LOSEE: I want to hand you what I've just marked as Exhibit 5 and ask if that's the surface pressures

Statements

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1	that were taken on these wells?
2	THE WITNESS: That is correct. This is the surface
3	pressure that was reported as required by the order.
4	MR. UTZ: Any other questions of the witness?
5	(No response.)
6	MR. UTZ: If there are none, the witness may be
7	excused.
8	MR. LOSEE: I move the introduction of Exhibits 1
9	through 5.
10	MR. UTZ: Without objection, Exhibits 1 through 5
11	will be entered into the record of this case. Statement
12	in the case?
13	(No response.)
14	MR. UTZ: The case will be taken under advisement.
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16.8 P.O. BOX 10928PHONE 243-64918ALBUQUERQUE, NEW MEXICO 87103 ** NATIONAL BANK BLDG. EAST®1LBUQUERQUE, NEW MEXICO 87108 STATE OF NEW MEXICO)
) SS
COUNTY OF BERNALILLO)

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

Claudia Jahren Hold

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 47 45 heard by me on 19 19 19

New Mexico Oil Conservation Commission

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

dearnley, meier & associates

MR. STAMETS: Case 4745.

MR. DERRYBERRY: Case 4745: Continued from the August 9th, 1973, Examiner Hearing. In the matter of Case No. 4745 being reopened pursuant to the provisions of Order No. R-4365, which order established special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, including a provision for classification of oil wells and gas wells, the spacing thereof, and a limiting gas-oil ratio of 3000 to 1.

The Commission has received a call from Mr. Jerry Losee, attorney for Yates Oil Company, requesting that the hearing on this matter be postponed to September 9th, 1973.

MR. STAMETS: Case 4745 will be continued to the September 9th, 1973 hearing. This hearing is adjourned.

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COUNTY OF BERNALILLO) I, RICHARD E. McCORMICK, a Certified Shorthand Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached

SS

Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of

Transcript of Hearing before the New Mexico Oil Conservation

my knowledge, skill and ability.

STATE OF NEW MEXICO

I do neroby cerrity that the foregoing 34 a complois record of the proceeding

New Mexico Oil Conservation Commission

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We have had a request to continue MR. UTZ: Case 4745. The attorney for the Gates Brothers or Gates Petroleum called and requested that this case be continued to August 22, and it will be continued to August 22, 1973. We will be glad to accept any requests.

STATE OF NEW MEXICO) ss. COUNTY OF BERNALILLO

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

Claudia D. Jahrenthola
COURT REPORTER

\$ 400 nevery certify that the foregoing is a complete record of the prospections in Examiner New Mexico Oil Conservation Commission

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE HALL, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO

June 28, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of Yates Petroleum Corporation for pool redefinition and special pool rules, Eddy County, New Mexico.

CASE NO. 4745

Elvis A. Utz BEFORE:

Examiner

TRANSCRIPT OF HEARING

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MR. UTZ: Case Number 4745.

MR. HATCH: Application of Yates Petroleum Corporation for pool redefinition and special pool rules, Eddy County, New Mexico.

MR. LOSEE: A. J. Losee, representing the Applicant. I have one witness that I would like to have sworn.

EDDIE MAHFOOD,

was called as a witness and after being duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. LOSEE:

- State your name, residence and occupation, please.
- A Eddie Mahfood, Artesia, New Mexico, petroleum engineer.
- Q You are the witness who testified as an engineer in the last case and your qualifications were acceptable?
- Α Yes.
- What is the purpose of the Application of Yates Q Petroleum Corporation in Case 4745? .
- We would like to add special temporary rules to the existing Order, R-3169, dated December 28, 1966. We are referring to the Penasco Draw San Andres-Yeso Pool. These special rules will open up the market for some shut-in gas and I am referring to casinghead gas.

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Q	And,	among	other	things,	these	pool	rules	do	what,
	Mr. 1	Mahfood	1?						

They will set -- they will designate and redefine the A pool as an oil and gas pool and they will set 320 acre spacing for gas wells with no change in oil wells.

They will set a gas-oil limit -- a gas-oil ratio limit of 10,000 to 1 for a designated gas well and for an oil well they will set a gas-oil ratio of 3000 to 1. They will permit the commingling of casinghead gas which will be allocated back to the leases on a gas-bil ratio test basis rather than by individual metering.

- Will they also permit commingling on surface gas production before metering on a lease basis?
- That is correct. The existing pool permits this and A we would like to continue commingling.
- But as far as casinghead gas is concerned, you want to gather all the casinghead gas into one common source and then meter the allocation back to the leases, based on periodic gas-oil ratio tests?
- Α Yes.
- Please refer to what has been marked as Exhibit 1 and explain what is shown on this Exhibit.
- Exhibit 1 is an ownership map showing -- from the map Α it is obvious that Yates Petroleum owns considerable acreage and there are federul, state and fee leases.

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At this point, does anyone else operate any wells in this Penasco Draw San Andres-Yese Pool?

- No, all the San Andres completions are owned and operated by Yates Petroleum Corporation.
- Can you give the Examiner a little history on when pool development commenced and the number of wells presently producing?
- The first well was drilled back in 1961 and that was the San Thomas well; at that time I think it was considered a dry hole. In 1969, Yates Petroleum went back and started developing this pool by drilling and developing this field in Sections 24, 25, and 36.
- Do you know approximately how many wells are producing Q at this time in the field?
- Something like 23 wells. Α
- Let's refer to what has been marked as Exhibit 2, and will you explain what is shown on this Exhibit?

MR. UTZ: Let me ask a question at this point so I can follow the testimony a little better. This is the Penasco Draw San Andres-Yeso Pool?

THE WITNESS: This is correct.

MR. UTZ: Do you know what the horizontal limits of that pool are?

THE WITNESS: From Section 31 --

Is that from a Commission order that you

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testifying from?

THE WITNESS: Yes -- oh, no, I don't know how the Commission order rules, but Section 31 of 18, 26, has one well completed in the Penasco Draw. We have wells in Sections 24, 25, 26, 34, 36, of 18, 25, and we have wells in the N/2 of 19, 25.

MR. UTZ: I am trying to get into the area here so I know what you are talking about. I think I am close enough now so you can continue.

(Continuing) Exhibit 2 is an aerial map showing the relationship of the Penasco Draw on Eagle Creek to the city of Artesia. As I said earlier, the Penasco Draw extends to the SW from Section 30 of 18, 26 and Section 24 of 18, 25.

It extends through the N/2 of 19, 25, and Eagle Creek has a cluster of wells in 17, 25.

- Please turn to what has been marked as Exhibit 3 and explain what is shown by this Exhibit.
- Exhibit 3 is a structure map based on the top of the slaughter and shows the San Andres pay.

You will notice from the performance that the porosity on the north-south line varies. There is a difference in thickness from well to well. Generally, the porosity seems to be continuous in the SW to NE direction. When drilling these wells, it is like

SIMMS BLDG. & P.O. BOX 1092 & PHONE 241-6891 & ALBUQUERQUE. NEW MEXICO 87103 1216 First national bank bldg. East-albuquerque, new mexico 87108 drilling rockhead and insofar as risks in drilling are concerned excessive drilling would be, you know, an added risk.

- Now, on this map, that you have been referring to,

 Exhibit 3, which wells under your definition would be
 gas wells?
- A We know that the Mobil C well in Section 6, 19, 25, -
 MR. UTZ: Which Exhibit are you referring to?

 THE WITNESS: I'm still on Exhibit 3.
- A (Continuing) The Crestwood "B" and the Nicolas "B" in Section 5, 19, 25; the Johnston "BE" and the State

 Thomas well, immediately below it, these wells we know will give up gas in the slaughter and the well in Section 4 should give up gas, but while drilling it they didn't get a great deal of gas from that well.
- Now, your Exhibits 4-A, 4-B, 4-C, 4-D and 4-E are logs of these wells that either are completed as gas wells, or, in your opinion, will be; is that correct?
- A This is correct.
- Q Explain what you think is important on these Exhibits.
- Well, I have shown porosities here, by coloring the neutron logs and in some instances, the sonic logs.
 I have marked the top of the slaughter on each of these logs and I think they all correlate pretty well. You will notice that the net pay varies from well to well

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DG. • P.O. BOX 1092 • PHONE 243-6101 • ALBUQUERQUE, NEW MEXICO 67103 It national bank bldg. East • Albuquerque, New Mexico 87108 and that the cross-sections of this would indicate considerable fingering.

I have on these logs, noted the geology remarks and findings in the samples and my suspicions of the gas-oil contacts. On 4-A, we found the gas-oil contact at approximately 1330 feet. The well was completed at 1320 to 1390 and from the porosity you see that 1320 to 1330 is not very good porosity and this well probably did not give up very much hydrocarbon.

From the perforation of 1480 to 1500, it was still producing oil.

The Crestwood "B", Exhibit 4-B, shows no gas above 1280 feet and consequently the well was perforated at 1290 to 1332, in the slaughter, and perforated in the Penasco zone as about 1590 which is not complete on this map. Shortly after they completed the well, the well commenced making an amount of gas and some 150 million cubic feet of gas was produced before four and one-half inch casing was run in the well which isolated the gas zone, which is the slaughter zone.

Exhibit 4-C is the Johnston "BE" well and the gas-oil contact was at 1230 feet and it was subsequently perforated at 1270 to 1320 and 1440 to 1495. In the last perforation, the well gave up oil for awhile and because it was a very tight formation, it became

IMMS BLOG. P.O. BOX 1092 PHONE 243-6691 ALBUQUERQUE. NEW MEXICO 87103	STO FIRST NATIONAL BANK BLDG. KAST•ALBUQUERQUE, NEW MEXICO 87108	

uneconomical so the well was temporarily abandoned.

The well was subsequently deepened for a Morrow completion.

In the Nicolas "BJ" gas was found only in the slaughter zone and the well was completed at 1480 to 1492, producing from the LDY zone as an oil well.

The Federal C Number 1 is a new completion and was completed in the Morrow, I believe, in April of this year. We expected to find gas and we did. It was perforated in the slaughter zone.

- Q Let me ask you one other question, Mr. Mahfood, none of these gas wells are connected, at this time?
- A No.
- Q And what about your casinghead gas in these other wells?
- A They are not connected either.
- Q That is really one of the purposes of your Application, to get into a position to have a market for this casinghead gas?
- Yes. We have negotiated with Skelly and Phillips and several other companies to come and pick up the casinghead gas and so far each has turned us down for the reason that it would be uneconomical for them to come pick it up.
- Q Please turn to Exhibit 5-A, 5-B and 5-C, the four point tests on the Mobil, the Crestwood, and the Johnston wells.

NEW MEXICO 87103	MEXICO 87108
9 SIMMS BLDG. 8 P.O. BOX 1092 & PHONE 243.6691 & ALBUQUERQUE. NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108
SIMMS	1216 F

Well, these Exhibits just indicate that these wells
were completed as gas wells. The Mobil well, which,
at this time, is east of them all, does have a 30,000
gas-oil ratio and this is within a short time after
completion, so it is possible that this ratio might
get higher and higher as we produce it. Exhibit 5-B
is the four point test on the Crestwood "B". It
had a 3.2 open-flow production.

The Johnston "B" open-flowed at 2 and 1/2 million per day.

- Q Please turn to what has been marked as Exhibit 6 and explain what it shows.
- A Exhibit 6 is the formation pressure on the Crestwood and Mobil Number 1. The information shown on this Exhibit, even though these wells are located almost a mile apart, the information would show, in my opinion, that there is communication between the two wells.
- O Have you produced either one of these wells?
- A The Crestwood "B" was produced.
- Q And it has been shut-in for how long a period?
- A Except for three or four days of testing, the Crestwood
 "B" has been shut-in for nearly four years.
- Q Prior to the shut-in, have you estimated how much gas was produced out of it?
- A I estimated 150 million cubic feet and after that

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production, there was just a three point difference in bottom hole pressure and this would indicate to me that there is communication.

- Q Turning to what has been marked as Exhibit 7, will you explain what is shown by this Exhibit?
- Exhibit 7 is a formula taken from Kraft and Hawkins and it indicates that for 320 acre spacing, there will be 308 MCF per day before hitting the imaginary boundary. If we go to 320 acre spacing, we will be getting into interference from the next well. 160 acre spacing would give us 320 MCF before we got interference from the abutting 160 acre unit.

The difference is approximately four percent.

- Does that calculation indicate that one well would support 320 acres?
- We would be inclined to believe that one well would drain 320 acres.
- Please turn to what has been marked as Exhibit 8 and which is a calculation of economics on 320 acres plus 160 acre spacing. Before you talk about this spacing, would you talk about the costs and those items?
- I have here an estimate of what the costs would be get 4 million cubic feet of gas and what the cost would be for a completion for this 4 million cubic feet of gas and what it would cost to set up facilities to treat

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the gas so it could be sold to transmission companies. The total investment would be approximately \$400,000 over three years at 8.4 percent or \$12,560 a month. The operating expenses would be \$6,440 a month for a total expense of \$19,000 per month for 120 million cubic feet per month, or the equivalent of 15.83 cents per thousand.

In addition, the shrinkage of gas would be 9 percent so you are talking about 11.4 cents per thousand before income tax. If we go to 160 acre spacing for a given area, we would probably have to drill more offset wells and this would double the investment and the wells would either have to produce at half capacity or we would have to put in a larger facility which would be approximately double the investment for treating.

So, going on 160 acre spacing would mean a double pay-out.

- Q Exhibits 9-A and 9-B show the gas-oil ratio tests in this field and the Eagle Creek field to the NW; is that correct?
- A That is correct.
- Q Are they similar reservoirs?
- A Yes, except that the Penasco Draw has apparently a deeper gas-oil contact than Eagle Creek.
- Q What is the purpose of this Exhibit?
- 25 A The purpose of the Exhibit is to show that the gas-oil

1		ratio has not changed.
2	Q	And by your proposed rules, you would gather all of the
3		casinghead gas in the Penasco Draw field and allocate
4		it back on periodic tests for the gas-oil ratio?
5	A	Yes.
6	Q	Would you explain to the Examiner why you think 10,000
7		to 1 is the proper GOR for the gas wells in this field?
8	A	Well, we are proposing to continue to commingle the lower
9		oil zones with the slaughter wells and where the slaughter
10		might be gas, the lower wells might be oil rather the
11		lower wells would be tight, and give up too much oil and
12		we feel that 10,000 would be sufficient to designate the
13		well as a gas well.
14	Q	You are limiting the GOR to 3,000 on oil wells?
15	A	As we approach the gas-oil contact, we still might have
16		some gas from the slaughter, but mostly oil from the
17		lower slaughter
18	Q	Do you have an opinion that, by reason of economics, the
19		commingling of this casinghead gas by metering the pool,
20		that the allocation factor based on a periodic GOR test
21		would prevent waste?
22	A	Yes.
23	Q	Were Exhibits 1 through 9 were all of the Applicant's
24		Exhibits prepared by you or under your supervision?
25	<u>A</u>	Yes.

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MR. LOSEE: We move for the introduction of Exhibits 1 through 9, inclusive. MR. UTZ: Exhibits 1 through 9 will be entered into the record of this case without objection. (Whereupon, Applicant's Exhibits 1 through 9, inclusive, were entered in evidence.) 7 MR. LOSEE: That's all I have on Direct, Mr. 8 Examiner. 9 10 CROSS-EXAMINATION 11

BY MR. UTZ:

Mr. Mahfood, I am a little unclear as to exactly what you are asking for in the way of metering. Are you asking that the gas wells as well as the oil wells be commingled prior to metering?

No, the gas wells will be metered as they give up quite a bit of gas, but the oil wells are going to give up a very small quantity of casinghead gas and for these reasons -- and a little bit of oil, and for these reasons we fell the casinghead gas should not be metered individually, but prorated back on a gas-oil ratio test basis.

- So that any well with a 10,000 to 1 GOR or more, would be classified as a gas well?
- That is correct, and it would be metered separately.

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		PAGE 15
1	Q	Have those wells been producing at all in the last
2	2	couple of months?
3	A	No, just for testing are you talking about the gas
4	ŀ	wells?
5	Q	That's right.
0	A	Just the Mobil Federal, the others have been shut-in.
7	Q	How about the oil wells, have they been produced?
8	A	Yes, the oil wells are continuously being produced.
9	Q	And they all produce gas?
10	A	Yes, sir.
11	Q	I am looking at April 1st, and you didn't report any
12		gas production?
13	A	No, we have never been required to report gas volumes
14		because incidentally, let me back up a moment. The
15		tests were taken for the most part by Phillips because
16		they have the equipment to do it independently and
17		we pursuaded them to run these tests for us because at
18		the moment we haven't got the facilities for testing.
19	Q	Is gas being flared?
20	A	Yes.
21	Ω	Aren't you required to estimate the flaring volume?
22	A	Sir, we have filed an exemption from the no flare order
23		in which we state the estimated gas being flared.
24	Q	But you don't report it on your 115?
25	Ά	No, sir.

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Q	I am not sure whether that is proper or not. It is
	pretty difficult to figure out what is going on when
	you look at the 115 and you know well is producing gas
	and there is no volume listed. So, in essence, you
	are asking for a redefinition of the pool, what kind of
	redefinition are you asking for?
A	To define an oil and gas pool.

- An associated pool?
- An associated pool, correct.
- And to commingle the casinghead gas before sale?
- This is correct.
- So that you can sell the dry gas and make a commercial economic venture?
- Yes, sir, commingled gas will be metered by commingling it with gas well gas.

MR. UTZ: Any further questions?

CROSS EXAMINATION

BY MR. HATCH:

I think this has already been answered, but the docket reads: "Applicant further seeks authority to commingle on the surface gas production from various wells prior to metering and to report said gas production on a lease basis."

Now, that is not what you wish to do, is it?

If you will read rule 11, the first rule, it says:

"A gas well will be metered separately." In all
probability we will measure on a per-well basis.

MR. UTZ: Well, if you don't, you will have an exception for it because we require all gas wells be metered separately.

THE WITNESS: This is kind of difficult. Perhaps we ought to have an exception to rule 402, in that we are still getting information.

Q (By Mr. Hatch) I think that brings up my next question.

As far as gas wells are concerned, there may be -- you may be applying the commingling on a lease without metering each well, but the casinghead gas would be commingled across lease lines?

MR. LOSEE: Yes.

A Yes.

MR. LOSEE: I think the proposed rules call for that and I think that is the way it was advertised. I frankly don't think the question on gas well gas from a well or a lease basis really is ever going to be determined because I don't think they have enough leases and probably are not going to have many wells across lease lines. But that is the way it was advertised and really, the proposed rule says:
"On a lease basis."

MR. UTZ: Any other questions?

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MR. UTZ: Any statements in this case?
                                   (No response.)
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(No response.)

MR. UTZ: If not, the witness may be excused.

(Witness excused)

MR. UTZ: The Case will be taken under advisement.

STATE OF NEW MEXICO) ; ss COUNTY OF BERNALILLO)

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

CERTIFIED SHORTHAND REPORTER

do heroby cartify that the foregoing is a complete record of the precedings in the Richmer hearing of Case to \$1.45, heard by so on 19.72.

New Merico Oil Conservation Constitution

dearnley, meier & mc cormick

INDEX WITNESS: PAGE EDDIE MAHFOOD Direct Examination by Mr. Losee Cross-Examination by Mr. Utz Cross-Examination by Mr. Hatch EXHIBITS APPLICANT'S OFFERED ADMITTED Yates Petroleum Corporation Exhibit Number 1 Exhibit Number 2 Exhibit Number 3 Exhibits Numbers 4-A, 4-B, 4-C 4-D, 4-E Exhibits Numbers 5-A, 5-B, 5-C Exhibit Number 6 Exhibit Number 7 Exhibit Number 8 Exhibit Number 9-A & 9-B



OIL CONSERVATION COMMISSION

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

I. R. TRUJILLO CHAIRMAN LAND COMMISSIONER ALEX J. ARMIJO MEMBER STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

October 15, 1973

	Re:	CASE NO	4745
Mr. A. J. Losee		ORDER NO	R-4365-A
Losee & Carson		Applicant:	
Attorneys at Law Post Office Drawer 239		rippireum.	
Artesia, New Mexico 88210)	Yates P	etroleum
Dear Sir:			
2001 2217			
Enclosed herewith are two Commission order recently	_		
	Very trul	=	
	1.	Porter,	
	R. Z.	Forter,	H.
	A. L. POR		
	Secretary	-Director	
ALP/ir			
Copy of order also sent to	o:		
Hobbs OCC			
Artesia OCC			
Aztec OCC			
Other			
			



OIL CONSERVATION COMMISSION

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

August 29, 1972

GOVERNOR
BRUCE KING
CHAIRMAN
LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER
STATE GEOLOGIST
A. L. PORTER, JR.

SECRETARY - DIRECTOR

	Re:	Case No	4745
Ir. A. J. Losee			•
osee & Carson		Order No.	R-4365
ttorneys at Law		Applicant	.
Post Office Box 239			
rtesia, New Mexico 88210		Yates Pet	roleum Corporation

Dear Sir:

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

A. L. PORTER, Jr.
Secretary-Director

ALP/ir	
copy of order	also sent to:
Hobbs OCC	x
Artesia OCC	x
Aztec OCC	
Other	

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE NO. 4745 Order No. R-4365-A

IN THE MATTER OF CASE NO. 4745 BEING REOPENED PURSUANT TO THE PROVISIONS OF ORDER NO. R-4365, WHICH ORDER ESTABLISHED SPECIAL RULES AND REGULATIONS FOR THE PENASCO DRAW-SAN ANDRES-YESO POOL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 19, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 11th day of October, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Order No. R-4365, dated August 28, 1972, temporary special rules and regulations were promulgated for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, establishing 40-acre spacing units for oil wells, 320-acre spacing units for gas wells, providing for classification of oil wells and gas wells and imposing a limiting gas-oil ratio of 3000 to 1.
- (3) That pursuant to the provisions of Order No. R-4365, this case was reopened to allow operators in the subject pool to appear and show cause why the special rules and regulations promulgated by that order should not be discontinued and why the limiting gas-oil ratio of 3000 to 1 should not be reduced.
- (4) The evidence establishes that the gas area of the subject pool can be efficiently and economically drained and developed on 320-acre spacing and that the oil area of the subject pool can be efficiently and economically drained and developed on 40-acre spacing.

-2-Case No. 4745 Order No. R-4365-A

- (5) That the applicant has submitted evidence indicating that the limiting gas-oil ratio should be lowered to 2,000 to 1.
- (6) That the Special Rules and Regulations promulgated by Order No. R-4365 as modified by this order will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil and gas in the pool.
- (7) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-4365, with the exception of the limiting gas-oil ratio established therein, should be continued in full force and effect until further order of the Commission.
- (8) That the limiting gas-oil ratio in the subject pool should be reduced to 2000 to 1.

IT IS THEREFORE ORDERED:

- (1) That Rule 6 of the Special Rules and Regulations governing the Penasco Draw San Andres-Yeso Pool as promulgated by Order No. R-4365 is hereby amended to read in its entirety as follows:
 - "RULE 6. That the limiting gas-oil ratio shall be 2,000 cubic feet of gas for each barrel of oil produced."
- (2) That the Special Rules and Regulations for the Penasco Draw San Andres Yeso Pool, Eddy County, New Mexico, as promulgated by Order No. R-4365, and as modified by this order, are hereby continued in full force and effect until further order of the Commission.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

> STATE OF NEW MEXICO OIL COMSERVATION COMMISSION

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. R. TRUJILLO, Chairman

Lev J. Christ

L. PORTER, Jr., Member & Secretary

Ø, Member

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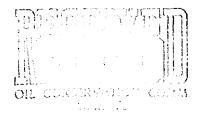
LAW OFFICES

LOSEE & CARSON, P.A.

A.J. LOSEE JOEL M. CARSON 900 AMERICAN HOME BUILDING
P. O. DRAWER 239
ARTESIA, NEW MEXICO 88210

AREA CODE 505 746-3508

22 August 1973



Mr. Bill Carr, Attorney Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Bill:

This will confirm my telephone conversation yesterday, requesting that you continue until September 19, 1973, Case No. 4745, being the application of Yates Petroleum Corporation for 320-acre gas proration units, Penasco-San Andres-Yeso Field, Eddy County, New Mexico.

Very truly yours,

LOSEE & CARSON, P.A.

A. J. Losee

AJL:jw

cc: Mr. Eddie Mahfood, Yates Petroleum Corporation

DOCKET MAILED

Drate 9-1-7

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE NO. 4745 Order No. R-4365

APPLICATION OF YATES PETROLEUM CORPORATION FOR POOL REDEFINITION AND SPECIAL POOL RULES, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 28, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 28th day of August, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Yates Petroleum Corporation, seeks the promulgation of special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, including provisions for the classification of oil and gas wells, 40-acre spacing for oil wells, 320-acre spacing for gas wells, and a limiting gas-oil ratio of 3,000 to one.
- (3) That the applicant further seeks authority to commingle on the surface production from gas wells prior to metering and to report said gas on a lease basis.
- (4) That the applicant further seeks authority to commingle on the surface all casinghead gas prior to metering and to allocate said casinghead gas to the various wells on the basis of gas-oil ratio tests.
- (5) That while the Penasco Draw San Andres-Yeso Pool is presently classified as an oil pool, the evidence adduced indicates that it is in fact an "associated" reservoir.
- (6) That the reservoir characteristics of the subject pool indicate that the gas area can be efficiently and economically drained and developed on 320-acre spacing, and that the oil area

CASE NO. 4745 Order No. R-4365

can be efficiently and economically drained and developed on 40-acre spacing.

- (7) That the reservoir characteristics of the subject pool presently available justify the definition of a gas well as a well producing with a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons.
- (8) That the reservoir characteristics of the subject pool presently available justify the establishment of a gas-liquid ratio limitation of 3,000 cubic feet of gas per barrel of liquid hydrocarbons.
- (9) That temporary special rules and regulations providing for 320-acre gas well spacing and 40-acre oil well spacing should be promulgated for the subject pool in order to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, prevent reduced recovery which might result from the drilling of too few wells, and otherwise prevent waste and protect correlative rights.
- (10) That the temporary special rules and regulations should provide for the classification of a gas well as a well producing with a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons and should provide for a gas-liquid ratio of 2,000 cubic feet of gas per barrel of liquid hydrocarbons until such time as the pool has gas gathering and transportation facilities, and thereafter a limiting gas-oil ratio of 3,000 to 1, in order to afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil or gas, or both, and for this purpose to use his just and equitable share of the reservoir energy.
- (11) That the temporary special rules and regulations should establish proration rules for gas wells in order to prevent waste and protect correlative rights.
- (12) That this case should be reopened in August, 1973, at which time the operators in the subject pool should be required to establish that a gas-liquid ratio limitation of 3,000 cubic feet of gas per barrel of liquid hydrocarbons will effectively maintain the gas-oil contact in the subject pool, and that the special rules and regulations should be continued in effect.
- (13) That the applicant's request to commingle on the surface gas production from gas wells prior to metering and to report said gas production on a lease basis should be denied.
- (14) That the applicant's request to commingle on the surface casinghead gas production prior to metering and to allocate said casinghead gas to the various wells on the basis of gas-oil ratio tests should be approved.

-3-CASE NO. 4745 Order No. R-4365

IT IS THEREFORE ORDERED:

That, effective September 1, 1972, temporary Special Rules and Regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE PENASCO DRAW SAN ANDRES-YESO POOL

- RULE 1. Each well completed or recompleted in the Penasco Draw San Andres-Yeso Pool or in the San Andres or Yeso formations within one mile thereof, and not nearer to or within the limits of another designated San Andres or Yeso pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. (a) Each gas well shall be located on a standard unit containing 320 acres which shall comprise any two contiguous quarter sections of a single governmental section, being a legal subdivision (half section) of the United States Lands Survey. For purposes of these rules, a unit consisting of between 316 and 324 contiguous surface acres shall be considered a standard unit.
- RULE 2. (b) Each oil well shall be located on a standard unit containing 40 acres, more or less, consisting of a governmental quarter-quarter section.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2(a) without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Land Surveys, or the following facts exist and the following provisions are complied with:
 - (a) The non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.
 - (b) The non-standard unit lies wholly within a governmental quarter section and contains less acreage than a standard unit.
 - (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the quarter section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.

CASE NO. 4745 Order No. R-4365

- (d) In lieu of paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Secretary-Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Secretary-Director has received the application.
- RULE 4. Each well, oil or gas, shall be located no nearer than 330 feet to any quarter-quarter section line, except that any well drilled in a known gas productive area shall be located within 150 feet of the center of a quarter-quarter section.
- RULE 5. A well shall be classified as a gas well if it has a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons. A well shall be classified as an oil well if it has a gas-liquid ratio of less than 10,000 cubic feet of gas per barrel of liquid hydrocarbons. The simultaneous dedication of any acreage to an oil well and a gas well is prohibited
- RULE 6. That the limiting gas-oil ratio shall remain 2,000 cubic feet of gas for each barrel of oil produced until such time as there are in operation in the pool gas gathering and transportation facilities, and thereafter the limiting gas-oil ratio shall be 3,000 cubic feet of gas for each barrel of oil produced.
- RULE 7. An oil well which has 40 acres dedicated to it shall be permitted to produce an amount of gas determined by multiplying the top unit oil allowable for the pool by the limiting gas-liquid ratio for the pool. In the event there is more than one oil well on a 40-acre oil proration unit, the operator may produce the allowable assigned to the 40-acre unit from the wells on the unit in any proportion.

A gas well shall be permitted to produce that amount of gas obtained by multiplying the top unit oil allowable for the pool by the limiting gas-liquid ratio for the pool and by a fraction, the numerator of which is the number of acres dedicated to the particular gas well and the denominator of which is 40. In the event there is more than one gas well on a 320-acre gas proration unit, the operator may produce the amount of gas assigned to the unit from the wells on the unit in any proportion.

RULE 8. The operator of each newly completed well shall cause a gas-liquid ratio test to be taken on the well upon recovery of all load oil from the well, provided however, that in no event shall the test be commenced later than 30 days from the date of first production unless the well is connected to a gas-gathering facility and is producing under a temporary gas

-5-CASE NO. 4745 Order No. R-4365

allowable assigned in accordance with Rule 11. Any well which is shut in shall be exempted from the gas-liquid ratio test requirement so long as it remains shut in. The initial gas-liquid ratio test shall be taken in the manner prescribed by Rule 9. If the gas-liquid ratio is 10,000 cubic feet of gas per barrel of liquid hydrocarbons, or more, the operator shall not produce the well until beneficial use can be made of the gas.

RULE 9. Gas-liquid ratio tests shall be taken on all wells during the months of January and July of each year. The initial gas-liquid ratio test shall suffice as the first semi-annual test. Tests shall be 24-hour tests, being the final 24 hours of a 72-hour period during which the well shall be produced at a constant normal rate of production. Results of such tests shall be filed on Commission Form C-116 on or before the 10th day of the following month. At least 72 hours prior to commencment of any such gas-liquid ratio tests, each operator shall file with the Artesia Office of the Commission a test schedule for its wells specifying the time each of its wells is to be tested. Copies of the test schedule shall also be furnished to all offset operators.

Special tests shall also be taken at the request of the Secretary-Director and may also be taken at the option of the operator. Such special tests shall be taken in accordance with the procedures outlined hereinabove, including notification to the Commission and offset operators.

- RULE 10. An initial shut-in pressure test shall be taken on each gas well and shall be reported to the Commission on Form C-125.
- RULE 11. Any well completed after the effective date of these rules shall receive an allowable only upon receipt by the Commission's Artesia Office of Commission Forms C-104 and C-116, properly executed. The District Supervisor of the Commission's Artesia Office is hereby authorized to assign a temporary gas allowable to wells connected to a gas transportation facility during the recovery of load oil, which allowable shall not exceed the number of cubic feet of gas obtained by multiplying the daily top unit allowable for the pool by the limiting gas-liquid ratio for the pool.
- RULE 12. That the initial gas proration period shall be from 7:00 a.m. September 1, 1972, to 7:00 a.m. January 1, 1974. Subsequently, the date 7:00 a.m. January 1 of each year shall be known as the balancing date, and the twelve months following this date shall be known as the gas proration period.
- RULE 13. Any gas well which has an underproduced status as of the end of a gas proration period shall be allowed to carry such underproduction forward into the next gas proration period and may produce such underproduction in addition to the allowable

-6-CASE NO. 4745 Order No. R-4365

assigned during such succeeding period. Any allowable carried forward into a gas proration period and remaining unproduced at the end of such gas proration period shall be cancelled.

- RULE 14. Production during any one month of a gas proration period in excess of the allowable assigned to a well for such month shall be applied against the underproduction carried into such period in determining the amount of allowable, if any, to be cancelled.
- RULE 15. Any well which has an overproduced status as of the end of a gas proration period shall carry such overproduction forward into the next gas proration period, provided that such overproduction shall be compensated for during such succeeding period. Any well which has not compensated for the overproduction carried into a gas proration period by the end of such proration period shall be shut in until such overproduction is compensated for. If, at any time, a well is overproduced an amount equalling three times its current monthly allowable, it shall be shut in during that month and each succeeding month until the well is overproduced less than three times its current monthly allowable.
- RULE 16. The allowable assigned to a well during any one month of a gas proration period in excess of the production for the same month shall be applied against the overproduction carried into such period in determining the amount of overproduction, if any, which has not been compensated for.
- RULE 17. The Commission may allow overproduction to be compensated for at a lesser rate than would be the case if the well were completely shut in upon a showing after notice and hearing that complete shut in of the well would result in material damage to the well or reservoir.
- RULE 18. The monthly gas production from each gas well shall be metered separately and the gas production therefrom shall be reported to the Commission on Form C-115 so as to reach the Commission on or before the 24th day of the month next succeeding the month in which the gas was produced. The operator shall show on such report what disposition has been made of the produced gas.
- RULE 19. Each purchaser or taker of gas shall submit a report to the Commission so as to reach the Commission on or before the 15th day of the month next succeeding the month in which the gas was purchased or taken. Such report shall be filed on Form C-111 with the wells being listed in the same order as they are listed on the oil proration schedule.
- RULE 20. Failure to comply with any provision of these rules shall result in the immediate cancellation of allowable assigned to the affected well. No further allowable shall be assigned until all rules and regulations have been complied with. The Secretary-Director shall notify the operator of the

-7-CASE NO. 4745 Order No. R-4365

well and purchaser in writing of the date of allowable cancellation and the reason therefor.

RULE 21. All transporters or users of gas shall file gas well-connection notices with the Commission as soon as possible after the date of connection.

RULE 22. Allowables to wells whose classification has changed from oil to gas or from gas to oil as the result of a gas-liquid ratio test shall commence on the first day of the month following the month in which such test was reported, provided that a plat (Form C-102) showing the acreage dedicated to the well and the location of all wells on the dedicated acreage has been filed.

IT IS FURTHER ORDERED:

- (1) That the applicant's request to commingle on the surface gas production from gas wells prior to metering and to report said gas production on a lease basis is hereby denied.
- (2) That the applicant is hereby authorized to commingle prior to measurement all casinghead gas production from its wells producing from the Penasco Draw San Andres-Yeso Pool and to allocate the casinghead gas production to each of said wells on the basis of the latest gas-oil ratio tests, provided however, such commingling shall be permitted only between leases of identical ownership throughout, including working interest, royalty interest, and overriding royalty interest. Casinghead gas from any lease of varying ownership shall be continuously metered prior to commingling with gas from any other lease.
- (3) That the locations of all wells presently drilling to or completed in the Penasco Draw San Andres-Yeso Pool or in the San Andres or Yeso formations within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Artesia District Office of the Commission in writing of the name and location of the well on or before September 15, 1972.
- (4) That all operators shall, prior to September 15, 1972, file with the Commission Form C-102 for each well showing the acreage dedicated to the well.
- (5) That all operators shall take new gas-oil ratio tests on all wells and file the results thereof with the Commission on Form C-116 prior to October 1, 1972; that the daily tolerance provision of Commission Rule 502 I is hereby waived for the purpose of testing wells at the allowable rate authorized by these rules.

-8-CASE NO. 4745 Order No. R-4365

- (6) That this case shall be reopened at an examiner hearing in August, 1973, at which time the operators in the subject pool shall show cause why the gas-liquid ratio limitation of 3,000 cubic feet of gas per barrel of liquid hydrocarbons should not be reduced and why the special rules and regulations promulgated by this order should not be discontinued.
- (7) That the Special Rules and Regulations for the Penasco Draw San Andres-Yeso Pool herein promulgated shall be in addition to the Special Rules and Regulations promulgated for said pool by Order No. R-3169.
- (8) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing gas wells in the Penasco Draw San Andres-Yeso Pool shall have dedicated thereto 320 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 320 acres to a gas well or to obtain a non-standard unit approved by the Commission by September 15, 1972, shall subject the well to cancellation of allowable.

(9) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

OLEX J. ARMIJO. Member

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

SEAL

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 19, 1973

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

The following cases will be heard before Elvis A. Utz, Examiner, or Richard L. Stamets, Alternate Examiner:

CASE 4745: (Reopened) (Continued from the August 22, 1973, Examiner Hearing)

In the matter of Case No. 4745 being reopened pursuant to the provisions of Order No. R-4365, which order established special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, including a provision for classification of oil wells and gas wells, the spacing thereof, and a limiting gas-oil ratio of 3000 to 1. All interested parties may appear and show cause why said pool rules should remain in effect.

CASE 5047: (Continued and Readvertised)

Application of Chace Oil Company for the amendment of Order No. R-4555, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the special rules and regulations for the South Lindrith Gallup-Dakota Pool, Rio Arriba County, New Mexico, as promulgated by Order No. R-4555, to provide for the classification of oil wells and gas wells, the assignment of 320-acre units to gas wells, and to provide for approval of unorthodox locations for wells drilled as oil wells but classified as gas wells upon completion.

CASE 5063: Application of Shell Oil Company for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location for its Sanger Well No. 6Y to be located 1220 feet from the North line and 180 feet from the West line of Section 27, Township 18 South, Range 38 East, Hobbs Pool, Lea County, New Mexico.

CASE 5064: Application of Exxon Corporation for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its South Carlsbad 2 Gas Com. Well No. 1 located in Unit J of Section 27, Township 23 South, Range 26 East, Eddy County, New Mexico, to produce gas from the South Carlsbad-Strawn and South Carlsbad-Morrow Gas Pools through the casing-tubing annulus and tubing, respectively.

CASE 5065: Application of Roberts, Koch & Cartwright for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Deer Canyon Unit Area comprising 10,620 acres, more or less, of Federal and State lands in Township 20 South, Range 21 East, Eddy County, New Mexico.

CASE 5057: (Continued and readvertised)

Application of Coquina Oil Corporation for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a proposed gas well at an unorthodox location 350 feet from the South and East lines of Section 12, Township 18 South, Range 25 East, West Atoka-Morrow Gas Pool, Eddy County, New Mexico, the S/2 of Section 12 to be dedicated to the well. In the alternative, applicant seeks approval of an unorthodox location 660 feet from the South and East lines of said Section 12.

CASE 5066: Application of Burleson & Huff for a non-standard gas proration unit and compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the NE/4 of Section 29, Township 25 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to its Coll Well No. 1-A located in Unit G of said Section 29.

Applicant further seeks an order of the Commission pooling all mineral interests in the Jalmat Gas Pool underlying the aforesaid quarter section. Also to be considered will be the cost of recompleting said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a charge for risk involved in recompleting said well.

- CASE 5067: Application of American Quasar Petroleum Co. of New Mexico for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Dune Unit Area comprising 2,576 acres, more or less, of Federal and Fee lands in Township 23 South, Range 31 East, and Township 24 South, Ranges 30 and 31 East, Lea County, New Mexico.
- CASE 5068: Southeastern momenclature case calling for the creation and extension of the vertical and horizontal limits of certain pools in Lea County, New Mexico:
 - (a) Create a new pool in Lea County, New Mexico, classified as an oil pool for Strawn production and designated as the Townsend-Strawn Pool, with special vertical limits defined as being the Strawn formation from 11,325 feet to 11,535 feet as on the log of the discovery well, the Ralph E. & J. C. Williamson Harrod State No. 1 in Unit U of Section 4, Township 16 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: SW/4

(b) Extend the vertical limits of the Tubb Gas Pool in Lea County, New Mexico, as established by Rule 25 of the Special Rules for said pool as promulgated by Order No. R-1670, downward to include the entire interval from 100 feet above the Tubb marker to the top of the

Examiner Hearing - Wednesday - September 19, 1973

(Case 5068 continued from Page 2)

Drinkard formation, in order to eliminate the zone of no-nomenclature which exists between the Tubb and Drinkard Pools.

(c) Extend the Bell Lake-Pennsylvanian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 34 EAST, NMPM Section 6: NW/4

(d) Extend the Querecho Plains-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM Section 23: SW/4
Section 26: W/2

(e) Extend the Wantz-Granite Wash Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 24: NE/4



ARTESIA, NEW MEXICO - 88210

OIL CONSERVATION COMM.

S. P. YATES PRESIDENT MARTIN YATES, III VICE PRESIDENT JOHN A. YATES
VICE PRESIDENT B. W. HARPER SEC-TREAS.

June 5, 1972

Senta Fo

Case 4 145

Mr. A. L. Porter, Jr., Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

> Special Pool Rules for the Re: Penasco Draw San Andres Pool, Eddy County, New Mexico

Dear Mr. Porter:

We are herewith re-submitting our application of May 19, 1972.

Very truly yours,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood Petroleum Engineer

EMM/jg Attachments

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DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 22, 1973

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

The following cases will be heard before Richard L. Stamets, Examiner, or Elvis A. Utz, Alternate Examiner:

CASE 4548: (Reopened) (Continued from the August 9, 1973, Examiner Hearing)

In the matter of Case No. 4548 being reopened pursuant to the provisiors of Order No. R-4157, which order established special rules and regulations for the Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, including a provision for 640-acre proration units. All interested parties may appear and show cause why said pool should not be developed on 320-acre spacing.

- CASE 5046: Application of David Fasken for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a gas well at an unorthodox location 660 feet from the South and West lines of Section 7, Township 18 South, Range 26 East, West Atoka-Morrow Gas Pool, Eddy County, New Mexico, to which well the S/2 of said Section 7 would be dedicated.
- CASE 5047: Application of Chace Oil Company for the amendment of Order No. R-4555, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the special rules and regulations for the South Lindrith Gallup-Dakota Pool, Rio Arriba County, New Mexico, as promulgated by Order No. R-4555, to provide for the classification of oil wells and gas wells, the assignment of 320-acre units to gas wells, and to provide for approval of unorthodox locations for wells drilled as oil wells but classified as gas wells upon completion.
- CASE 5048: Application of Roger C. Hanks for creation of a pool and special rules therefor, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the South Dagger Draw-Upper Pennsylvanian Pool for his Preston Federal Well No. 1 located in Unit L of Section 35, Township 20 South, Range 24 East, Eddy County, New Mexico. Applicant further seeks the promulgation of special rules for said pool, including a provision for 320-acre spacing for all wells in said pool, for the classification of oil wells and gas wells, for a limiting gas-oil ratio of 8,000 to 1, and for the assignment of a depth bracket allowable for oil wells of 267 barrels of oil per day.
- CASE 5049: Application of Mobil Oil Corporation for a triple completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the triple completion (conventional) of its Federal "LL" Well No. 1 located in Unit N of Section 13, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, to produce gas from the Canyon, Atoka, and Morrow formations through three strings of tubing.
- CASE 5050: Application of Read and Stevens, Inc. for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority

(Case 5050 continued from Page 1)

to dispose of produced salt water into the Montoya formation in the perforated interval from 6225 feet to 6245 feet in its Federal "I," Well No. 1, located in Unit B of Section 21, Township 6 South, Range 27 East, Haystack-Cisco Pool, Chaves County, New Mexico.

- CASE 5051: Application of Hillin Production Company for special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Winchester-Morrow Gas Pool, Eddy County, New Mexico, including a provision for 320-acre spacing and specified well locations.
- CASE 5052: Application of Atlantic Richfield Company for a non-standard gas proration unit and simultaneous well dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a non-standard 320-acre gas proration unit comprising the NW/4, E/2 NE/4, SW/4 NE/4, and NE/4 SE/4, of Section 35, Township 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be simultaneously dedicated to its J. P. Combest Wells Nos. 1 and 4 located in Units H and E, respectively, of said Section 35.
- CASE 5053: Southeast nomenclature case calling for the creation, extension and contraction of certain pools in Eddy and Lea Counties, New Mexico.
 - (a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Burton Flat-Atoka Gas Pool. The discovery well is the Monsanto Company Miller Federal No. 1 located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM. Said pool described as:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 3: Lots 1 through 8

(b) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Burton Flat-Strawn Gas Pool. The discovery well is the Monsanto Company, Burton Flat Deep Unit No. 3 located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 3: S/2

(c) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and designated as the Carlsbad-Canyon Gas Pool. The discovery well is the Morris R. Antweil Randall No. 1 located in Unit K of Section 21, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM Section 21: S/2

(d) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Happy Valley-Morrow

(Case 5053 continued from Page 2)

Gas Pool. The discovery well is The Superior Oil Company State Q Com No. 1 located in Unit L of Section 34, Township 21 South, Range 26 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM Section 34: W/2

(e) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the LaHuerta-Morrow Gas Pool. The discovery well is the Cities Service Oil Company Cawley A Com No. 1 located in Unit K of Section 28, Township 21 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 28: S/2

(f) Extend the East Empire Yates-Seven Rivers Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 28: NE/4 SE/4

(g) Extend the Fowler-Devonian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM Section 10: SE/4

(h) Extend the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM Section 1: S/2 Section 2: All

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

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM Section 24: SE/4

(j) Extend the Parrish Ranch-Upper Pennsylvanian Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 13: E/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 18: N/2 S/2 and SE/4 NE/4

(Case 5053 continued from Page 3)

(k) Extend the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM Section 32: W/2

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 5: W/2 NW/4 and NE/4 NW/4

(1) Extend the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM Section 11: E/2, E/2 SW/4, S/2 SE/4 NW/4

(m) Extend the Round Tank-Queen Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 28 EAST, NMPM Section 36: NE/4

(n) Extend the Shugart Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM Section 12: SE/4 SE/4 Section 13: E/2 NE/4

(o) Extend the Winchester-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 34: E/2

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM Section 2: N/2

(p) Contract the vertical limits of the Townsend Pennsylvanian Pool in Lea County, New Mexico, to include the Cisco formation only and redesignate said pool the Townsend-Cisco Pool comprising:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: SW/4

ASE 4745: (Reopened) (Continued from the August 9, 1973, Examiner Hearing)

In the matter of Case No. 4745 being reopened pursuant to the provisions of Order No. R-4365, which order established special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, including a provision for classification of oil wells and gas wells, the spacing thereof, and a limiting gas-oil ratio of 3000 to 1. All interested parties may appear and show cause why said pool rules should remain in effect.



YATES BUILDING - 207 SOUTH 4TH ST. ARTESIA, NEW MEXICO - 88210

August 9, 1973

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC-TREAS.



Mr. A. L. Porter, Jr.
Secretary - Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Postponement, Docket No. 22-73 Case 4745

Dear Sir:

This letter confirms the telephone conversation this morning between the undersigned and Mr. R. L. Stamets. Yates Petroleum Corporation seeks postponement of Examiner Hearings in the matter of Case 4745 to the next regular hearing scheduled for August 22, 1973.

The undersigned was unable to attend today's session due to unforeseen circumstances and a currently vigorous drilling activity.

Thank you.

Yours very truly,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood ^{*} Petroleum Engineer

EMM/pt

cc: A. J. Losee,
Attorney at Law

CASE 4745: (Reopened)

In the matter of Case No. 4745 being reopened pursuant to the provisions of Order No. R-4365, which order established special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County. New Mexico, including a provision for classification of oil wells and gas wells, the spacing thereof, and a limiting gas-oil ratio of 3000 to 1. All interested parties may appear and show cause why said pool rules should remain in effect.

- CASE 5042: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Everett D. Burgett and Fireman's Fund American Insurance Companies and all other interested parties to appear and show cause why the Pure State Wells Nos. 1, 2, 3, and 7 located in Units J, J, O, and O, respectively, of Section 15, Township 21 South, Range 27 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.
- CASE 5043: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Kent Shannon and American Employers' Insurance Company and all other interested parties to appear and show cause why the Chaparral Tejano Well No. 1 located in Unit D of Section 10, Township 7 South, Range 26 East, Chaves County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.
- CASE 5044: In the matter of the hearing called by the 0il Conservation Commission on its own motion to permit Sycor Newton, Peru Milling Company, R. E. Deming and Aetna Life and Casualty Company and all other interested parties to appear and show cause why the State L 6350 Well No. 1 located in Unit M of Section 10, Township 23 South, Range 11 West, Luna County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.
- CASE 5045: Application of Southern Union Production Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter the Wilson Federal Well No. 1 at an unorthodox location 2310 feet from the North line and 990 feet from the East line of Section 13, Township 22 South, Range 24 East, Eddy County, New Mexico, and to deepen said well to the Morrow formation, the N/2 of said Section 13 to be dedicated to the well.

CASE 5036: (Continued from the July 25, 1973, Examiner Hearing)

Application of The Wil-Mc Oil Corporation for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the San Andres formation in the perforated interval from 4208 feet to 4282 feet in its Champlin State Well No. 1 located in Unit M of Section 3, Township 8 South, Range 33 East, Chaveroo-San Andres Pool, Chaves County, New Mexico.

DOCKET: EXAMINER HEARING - THURSDAY - AUGUST 9, 1973

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

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

- ALLOWABLE: (1) Consideration of the allowable production of gas for September, 1973, from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
 - (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for September, 1973.

CASE 4933: (Readvertised)

Application of Texaco Inc. for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware formation through the perforated interval from 4280 feet to 4288 feet in its R. T. Wilson Federal Well No. 5 located in Unit J of Section 24, Township 26 South, Range 31 East, North Mason-Delaware Pool, Eddy County, New Mexico.

- CASE 5040: Application of Wallen Production Company for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project by the injection of water into the Yates Seven-Rivers formation in its Federal Well No. 2 located in Unit C of Section 20, Township 20 South, Range 34 East, North Lynch Yates-Seven Rivers Pool, Lea County, New Mexico.
- CASE 5041: Application of W. T. Wynn for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Kaiser Lake Unit Area comprising 960 acres, more or less, of federal and fee lands in Township 18 South, Ranges 26 and 27 East, Eddy County, New Mexico.

CASE 4789: (Reopened)

In the matter of Case No. 4789 being reopened pursuant to the provisions of Order No. R-4375, which order established special rules and regulations for the Many Gates-Abo Pool, Chaves County, New Mexico, including a provision for 80-acre proration units. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing.

CASE 4548: (Reopened)

In the matter of Case No. 4548 being reopened pursuant to the provisions of Order No. R-4157, which order established special rules and regulations for the Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, including a provision for 640-acre proration units. All interested parties may appear and show cause why said pool should not be developed on 320-acre spacing.



S. P. YATES
PRESIDENT

MARTIN YATES, III
VICE PRESIDENT

JOHN A. YATES
VICE PRESIDENT

B. W. HARPER
SEC-TREAS.

Santa Fo

September 14, 1973

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

ATTENTION: Mr. Bill Carr

Gentlemen:

Pursuant to our phone converdation of today, we request that the New Mexico Oil Commission hearing of Case 5057, application of Coquina Oil Corporation for an unorthodox location, Eddy County, New Mexico, presently scheduled before an Examiner September 19, 1973, be granted a continuance.

Mr. Jason Kellahin, legal representative for Coquina Oil Corporation, has expressed his concurrence with our request.

Yours truly,

YATES PETROLEUM CORPORATION

Peyton Yates

Engineer

PY/jg

DOCKET: EXAMINER DEARING - WEDNESDAY - JUNE 28, 1972

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

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

CASE 4735: (Continued and readvertised from the June 7th examiner hearing)

Application of El Paso Natural Gas Company for capacity production, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rules 14 (A), 15 (A), and 15 (B), of the General Rules and Regulations for the prorated gas pools of Northwest New Mexico, to produce six wells located in Sections 29, 30, 31, and 32 of Township 32 North, Range 9 West and Section 36, Township 32 North, Range 10 West, Blanco-Mesaverde Pool, San Juan County, New Mexico, at full capacity for approximately one year from February 1, 1972.

Applicant further seeks authority to offset any overproduction accrued to the above-described six wells during the one-year period by underproduction attributable to any underproduced wells or marginal wells located within the participating area of the San Juan 32-9 Unit.

- CASE 4739: Application of Texas Pacific Oil Company for rededication of acreage, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dedicate the 160-acre non-standard gas proration unit in the Jalmat Gas Pool comprising the NW/4 of Section 1, Township 23 South, Range 36 East, Lea County, New Mexico, simultaneously to its Emery King "NW" Wells Nos. 1 and 4 located, respectively, in Units E and F of said Section 1 and to produce the allowable for the unit from either well in any proportion.
- CASE 4740: Application of Amoco Production Company for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle gas and condensate production from the Flora Vista-Gallup and Basin-Dakota Pools in the wellbores of its L. C. Kelly Wells Nos. 3 and 5 located, respectively, in Unit F of Section 4 and Unit I of Section 3. Township 30 North, Range 12 West, San Juan County, New Mexico.
- CASE 4741: Application of Robert, Koch & Cartwright for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the W/2 of Section 16, Township 19 South, Range 25 East, Eddy County, New Mexico.

(Case 4741 continued)

Said acreage to be dedicated to a well to be drilled 1980 feet from the North line and 660 feet from the West line of said Section 16. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

- CASE 4728: (Continued from the June 7, 1972, Examiner Hearing)

 Application of Texaco Inc. for special pool rules, Lea County,
 New Mexico. Applicant, in the above-styled cause, seeks the
 promulgation of special pool rules for the East Weir-Tubb
 Pool, Lea County, New Mexico, including provisions for 80-acre
 proration units and a limiting gas-oil ratio limitation of
 4000 cubic feet of gas per barrel of oil.
- CASE 4742: Application of Tenneco Oil Company for dual completions, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its Well No. 12 located in Unit B of Section 13, Township 17 North, Range 9 West, McKinley County, New Mexico, in such a manner as to inject gas into Lone Pine-Dakota "D" Oil Pool through tubing and produce gas from the "A" zone of the Dakota formation through the casing-tubing annulus. Applicant also seeks authority to complete its Well No. 13 located in Unit F of said Section 13 in such a manner as to produce oil from the Lone Pine-Dakota "D" Oil Pool through tubing and gas from the "A" zone of the Dakota formation through the casing-tubing annulus.
- CASE 4743: Application of Tenneco Oil Company for pool contraction, redefinition of a pool and special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks to contract the horizontal limits of the Basin-Dakota Pool by deleting therefrom all of Section 17 and 20, Township 21 North, Range 8 West, San Juan County, New Mexico. Applicant further seeks to redefine the Snake Eyes-Dakota "D" Oil Pool as a gas pool with horizontal limits comprising the above-described Sections 17 and 20. Applicant further seeks the promulgation of special pool rules for the redefined pool including a provision for 320-acre spacing.
- CASE 4744: Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the E/2 of Section 8, Township 19 South, Range 25 East, Eddy County, New Mexico. Said acreage to be dedicated to applicant's Johnston "BE" Well No. 1 located 330 feet from the North and East lines of said Section 8. Also to be considered will be the costs

- CASE 4748: Application of Pubco Petroleum Corporation for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Humble City-Strawn Pool, Lea County, New Mexico, including provisions for 160-acre proration units and wells to be located within 150 feet of the center of any quarter-quarter section.
- Application of Harding Oil Company for a discovery all wable and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Humble City-Strawn Pool, Lea County. New Mexico, including a provision for 80-acre proration units and for the assignment of an oil discovery allowable to its E. D. Shipp Well No. 1 located in Unit K of Section 11, Township 17 South, Range 37 East.
- CASE 4750: Application of Cities Service Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing well in its Southeast Maljamar Grayburg-San Andres Unit Waterflood Project Area at an unorthodox location 1155 feet from the South line and 1385 feet from the East line of Section 29, Township 17 South, Range 33 East, Maljamar Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection and production wells within the project area at unorthodox locations may be approved administratively.
- CASE 4751: Application of Sun Oil Company for pool extension, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the extension of the horizontal limits of the Lusk-Morrow Gas Pool, Lea County, New Mexico to include all of Sections 15 and 16 of Township 19-South, Range 32 East.
- CASE 4752: Application of Claude C. Kennedy for permission to flare casinghead gas, McKinley, County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-4070, to flare casinghead gas produced by his BSK Edna Well No. 1 located in Unit F of Section 8, Township 17 North, Range 8 West, Lone Pine Dakota "D" Pool, McKinley County, New Mexico.

(Case 4744 continued)

CASE 4745:

of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

Application of Yates Petroleum Corporation for pool redefinition and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the redefinition of the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, as an associated oil and gas pool. Applicant further seeks the promulgation of special rules for said associated pool, including provisions defining a gas well as one producing with a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of oil, a gas-liquid ratio limitation for oil wells of 3,000 cubic feet of gas per barrel of oil, and 320-acre spacing units for gas wells. Applicant further seeks authority to commingle on the surface gas production from various wells prior to metering and to report said gas production on a lease basis. Applicant further seeks authority to commingle on the surface all casinghead gas prior to metering and to allocate said casinghead gas to the various wells on the basis of gas-oil ratio tests.

CASE 4746:

Application of Mobil Oil Corporation for an unorthodox well location and amendment of Order No. R-2914, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing well at an unorthodox location 1450 feet from the North line and 70 feet from the West line of Section 19, Township 18 South, Range 34 East, in the E-K Queen Water-flood Project Area authorized by Order No. R-2914. Applicant further seeks a procedure whereby additional production and injection wells at orthodox and unorthodox locations may be approved administratively.

CASE 4747:

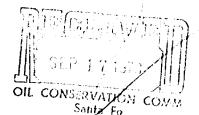
Application of Union Texas Petroleum, a Division of Allied Chemical Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests below the base of the Devonian formation underlying the N/2 of Section 33, Township 25 South, Range 37 East, Crosby Field, Lea County, New Mexico. Said acreage to be dedicated to its well to be located 1650 feet from the North line and 2310 feet from the East line of said Section 33. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

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P O. Box 3316 Midland, Texas 79701 Phone (915) 682-7964





September 20, 1973

TO: ALL CPERATORS OF GAS WELLS UNDER CONTRACT AND CONNECTED TO NORTHERN NATURAL GAS COMPANY IN LEA COUNTY, NEW MEXICO.

State-wide Rule 402 of the New Mexico 011 Conservation Commission requires that a shut-in pressure be taken annually on all New Mexico gas wells.

Since Northern and El Paso Natural Gas Company records shut-in pressures on all gas wells connected to their pipeline system on a semi-annual or annual basis, Mr. Utz, State Gas Engineer, requested several years ago that each of the companies above file these shut-in pressures on Form C-125 with the appropriate District NMOCC office, Mr. Utz also cleared his request with all concerned producers.

So, in compliance with State-wide Rule 402 and Mr. Utz's request, Northern has reported the shut-in data for 1972 to the Hobbs District Office of the New Mexico Oil Conservation Commission on Form C-125 for each Operator. If this action does not meet with your approval, please advise the above Northern Natural Gas office.

A copy of the Form C-125, as reported to the NMOCC, is attached hereto for your file.

Very truly yours,

M. Welsch

Director Production Evaluation

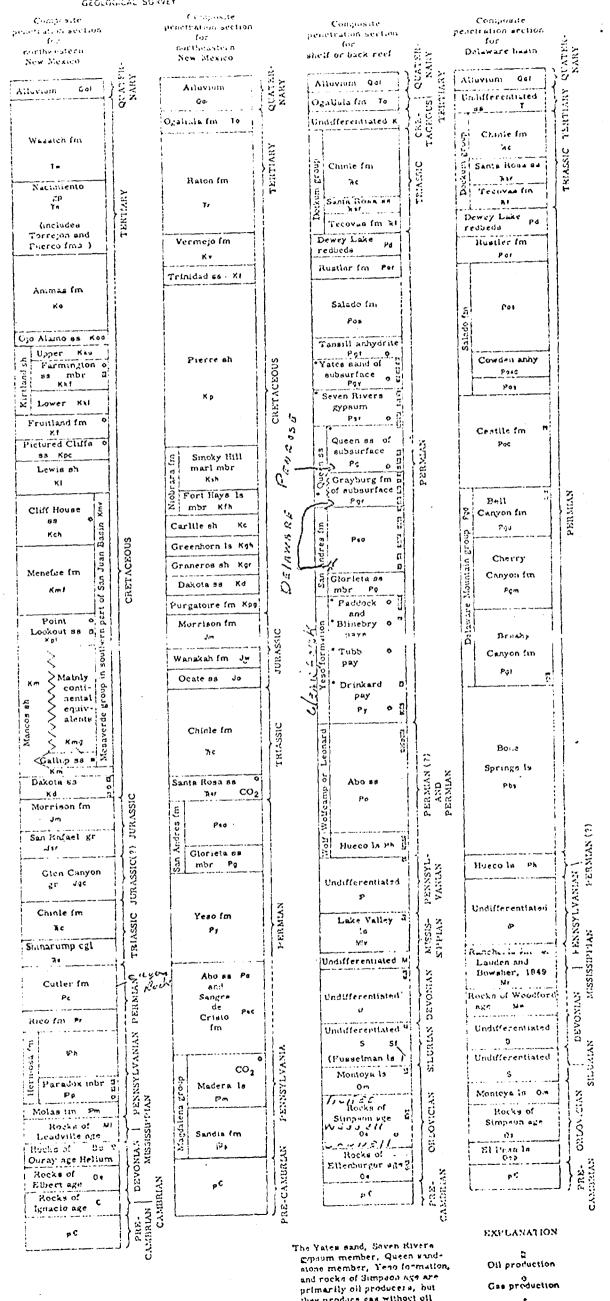
cc: Messrs: E. A. Utz - NMOCC - Santa Fe, New Mexico - w/attach.

J. D. Ramey - NMOCC - Hobbs, New Mexico - w/attach.

A. J. Jamal - w/attach.

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SCHEDULE OF INVESTMENT & PRODUCTION HISTORY PENASCO DRAW-SAN ANDRES - GAS FIELD

Well Cost Pipeline Cost	\$102, 50,		Fed. \$25, 12,		Fed. \$33, 12,		Fed. \$44, 28,	
Total Investment	\$153,	036	\$ 38,	830	\$46,	163	\$72 ,	501
Est. Reserves Approx. Value	648MN \$181,		105MM+47 \$45,		86MM+5 \$41,	420 во 920	214MM \$62,	
Production History	MCF	ворм	MCF	ВОРМ	MCF	ВОРМ	MCF	ВОРМ
Mar. 73	10830	0	1178	103	1711	202		
Apr. 73	7586	0	1419	72	1285	121		
May 73	6893	0	1475	59	679	65		
June 73	6581	0	1133	47	601	84	1569	0
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Aug. 73	8654	0	978	73	842	82	538	6

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BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION
EYHICIT NO. 3
CASE NO. 4745
Submitted by 9/19/73
Hearing Dais 9/19/5
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Exhibit #3

Revised 1-1-65 Page 2 of 3

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NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

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NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

Page 2 of

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C-115 Revised 1-1-65

Statd AX State AU Yates Federal Wilkinson AZ Note: Yates AS omas Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules. During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission. will be 0.60. Yates Petroleum Corporation 207 So. Mobil Federal Gas volumes must be reported in MCF measured at a pressure base of 15.025 pala and a temperature of 60° F. Specific gravity base No well will be assigned an allowable greater than the amount of oil produced on the official test. Report casing pressure in lieu of tubing pressure for any well producing through casing. Greasewood LEASE NAME 4th, Artesia, New Mexico 88210 C B Lease Lease WELL z o نـر ると NH c Ħ മെമ 3 2 ц 耳 ス む গে shut-in 25 25 α 4 LOCATION 36 25 25 25 188 18S **2**95 198 18S 188 gas Penasco Draw (Yeso S.A.) 25E 25E 25 五 25 五 25E 25E 25E well. 1-25-73 DATEOF 1-25-73 1-21-73 1-19-73 1-17-73 1-20-73 1-17-73 1-24-73 TEST TEST - (X) HO BUY SIZE PRESS. SIZE PRESS. 1 1 1 1 1 1 15 15 18 16 15 16 Scheduled 🔀 ALLOW-<u>12</u> 5 2 φ Ø 2 2 CENGTH OF TEST HOURS 24 24 4 4 24 24 24 24 24 1.2 23.7 23.4 WATER GRAV. BBLS. OIL I hereby certify that the above information is true and complete to the best of my knowledge and belief. 0.9 0.6 0.6 0.6 Completion January 31, 1973 Eddy PROD. DURING TEST 37 ა 8 သူ့ အ ယ လ စ 36 37 Engineer 14.00 12.83 878a 1.17 5 8 3.00 2.3 1.17 .19.2 GAS 20.1 14.3 11.1 2.87 5.20 Special [CU.FT.SS. I GAS L CEL 三人士:0 **\$555** લ લ તા છ લ સ હ હ 0 0 0 0 0 0 0 8240 ()) ()) ())

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NEW MEXICO OIL CONSERVATION COMMISSION GAS WELL SHUT-IN PRESSURE REPORT

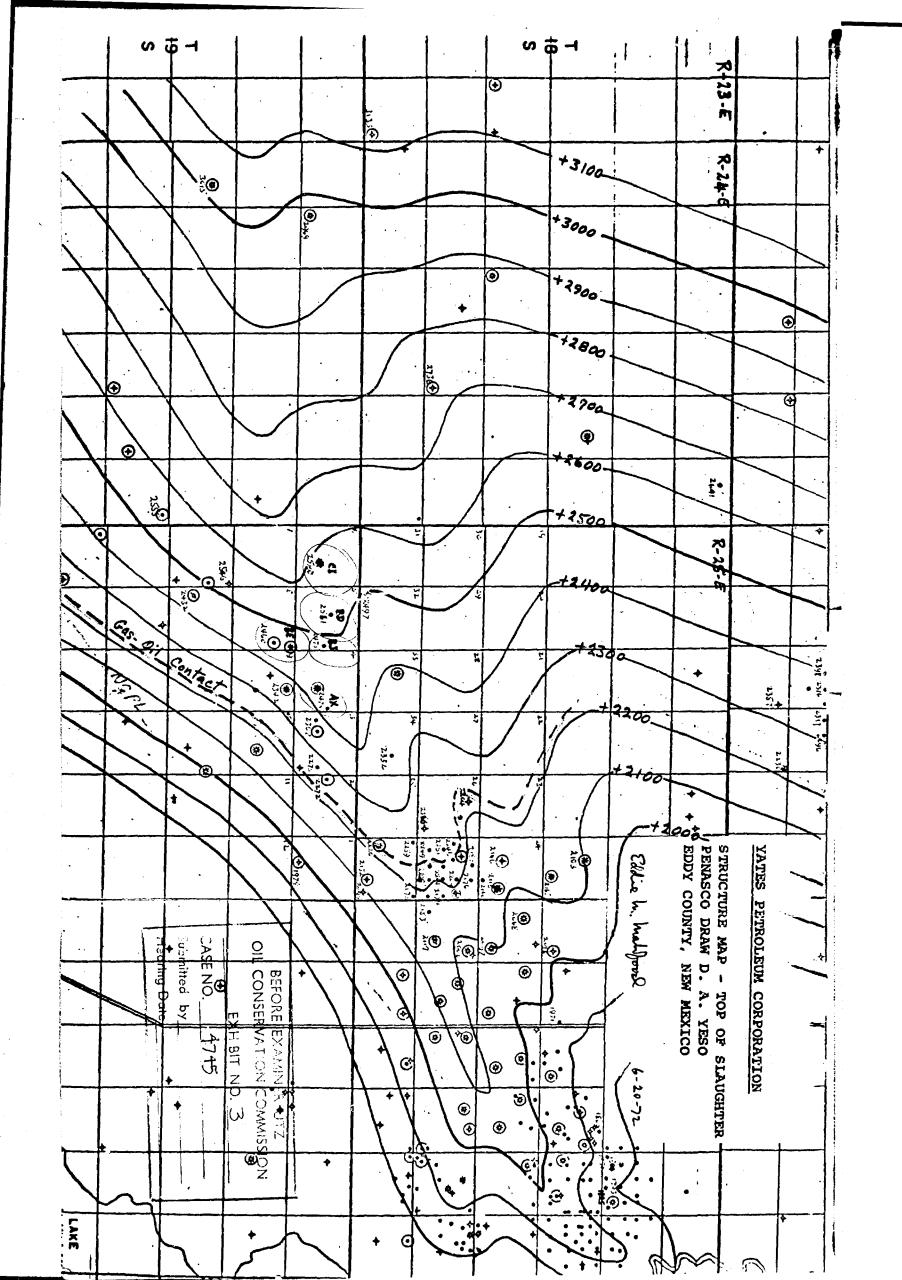
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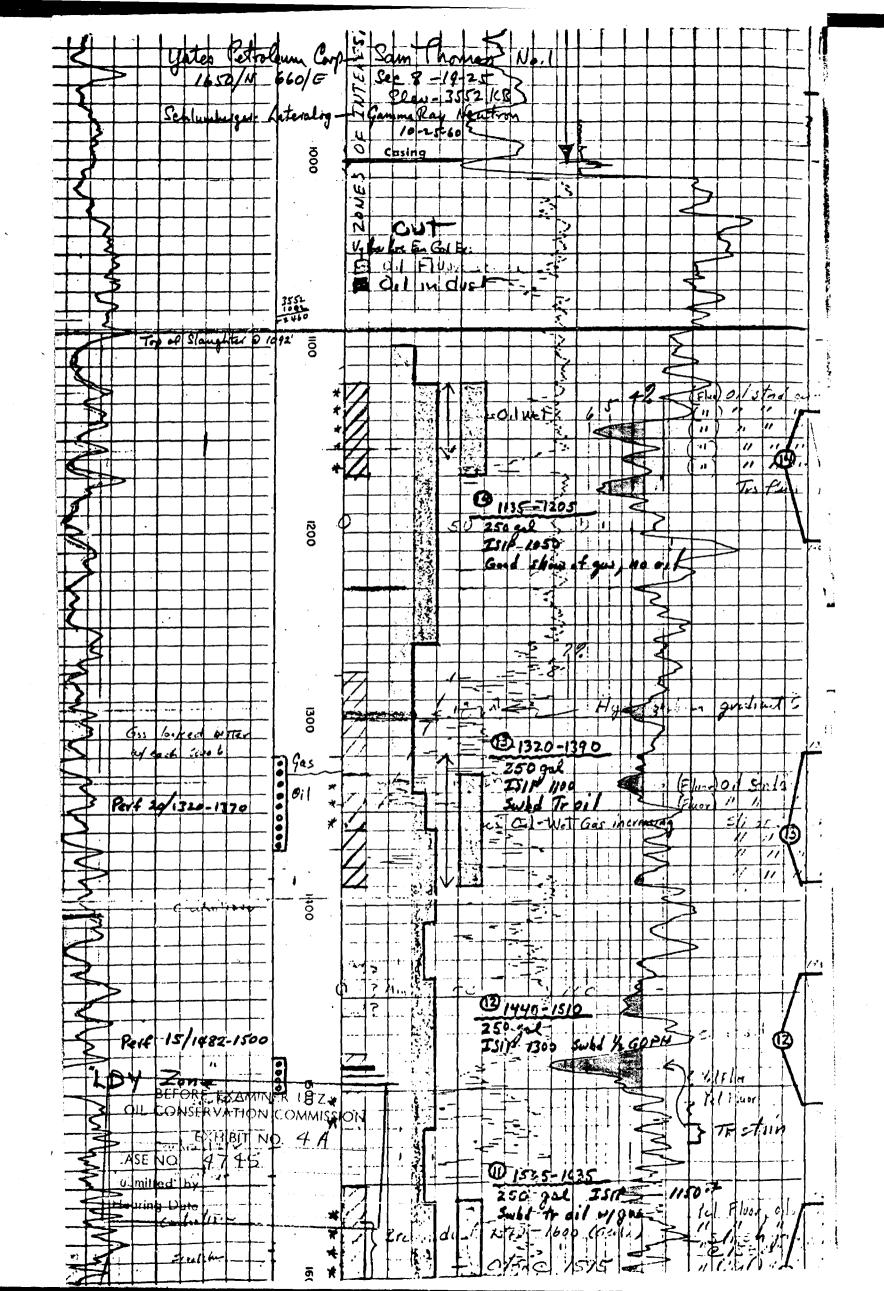
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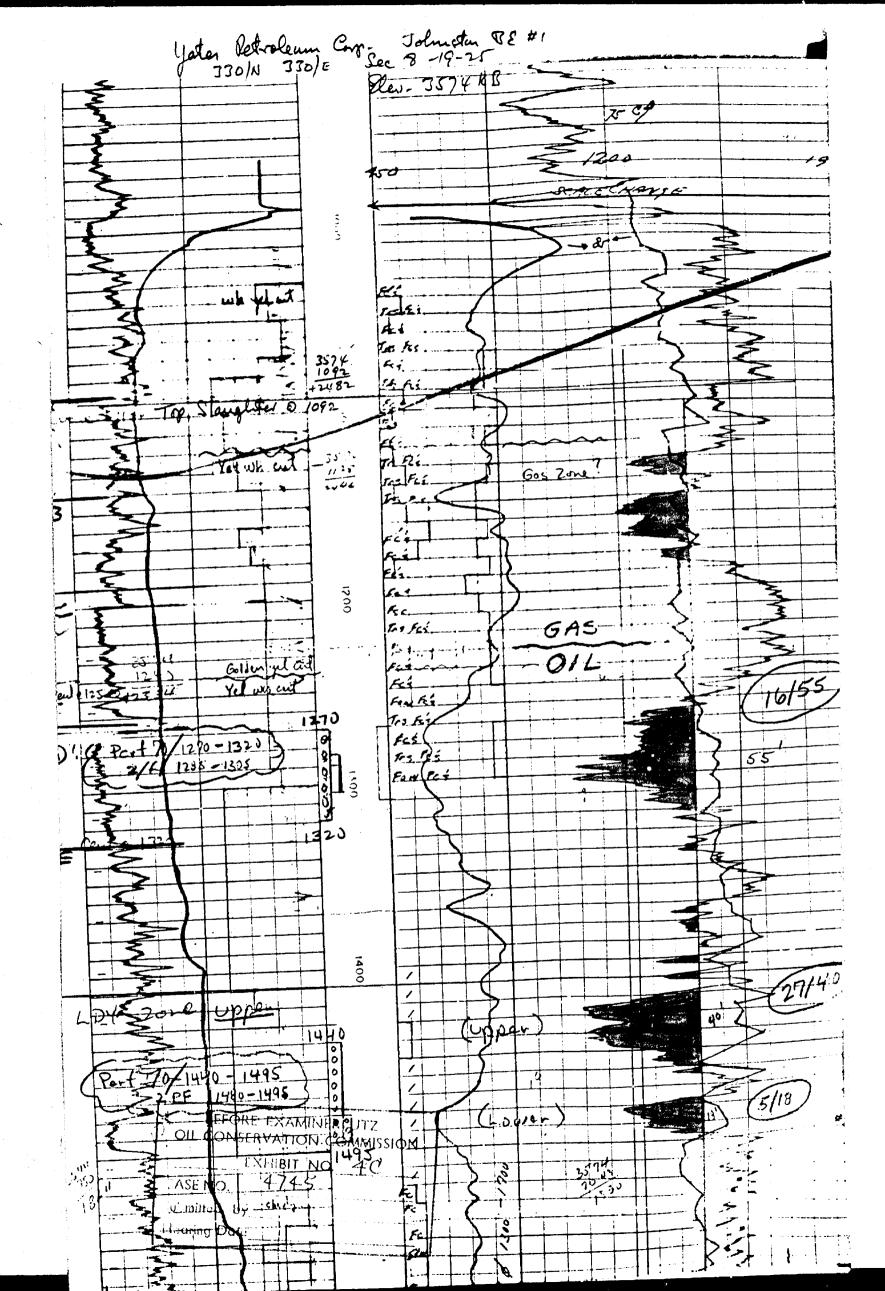
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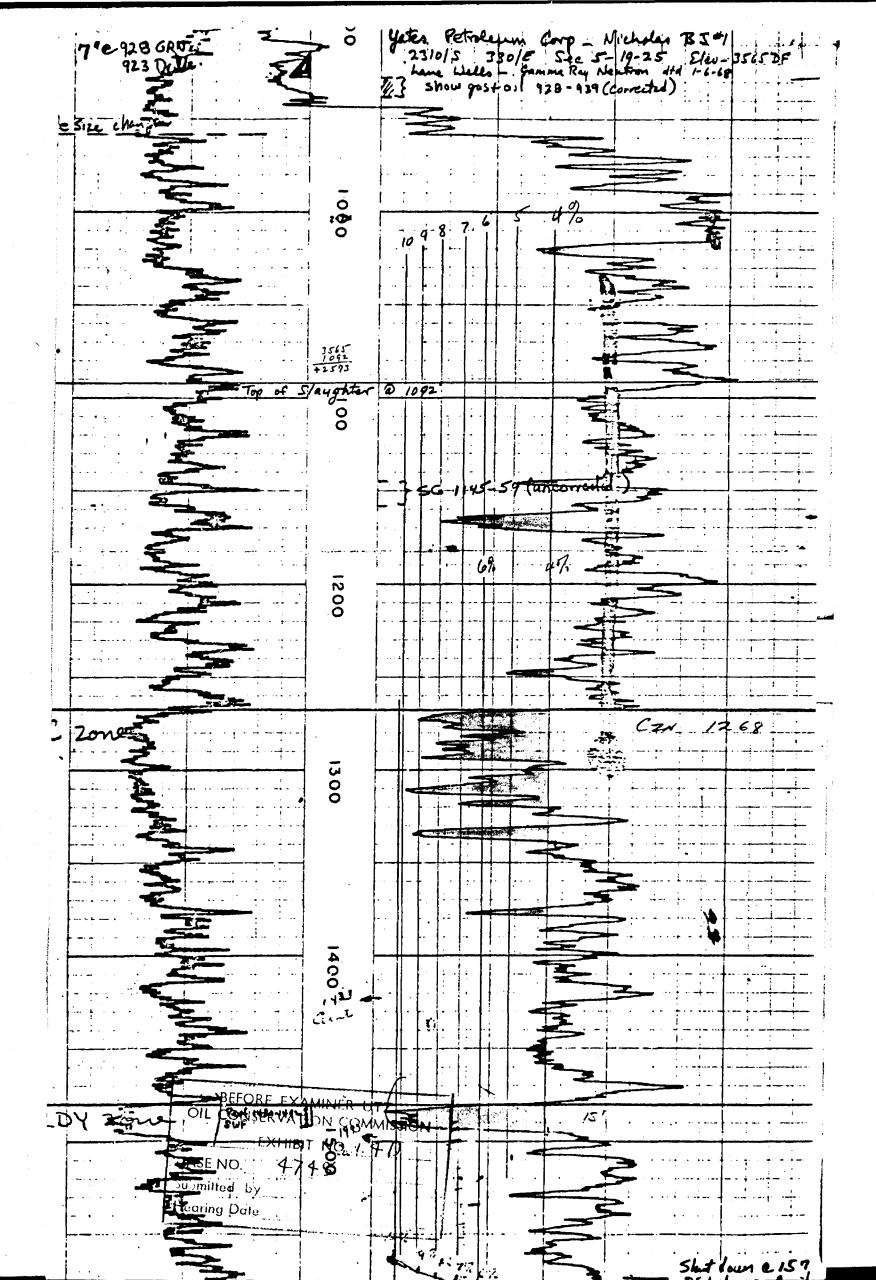
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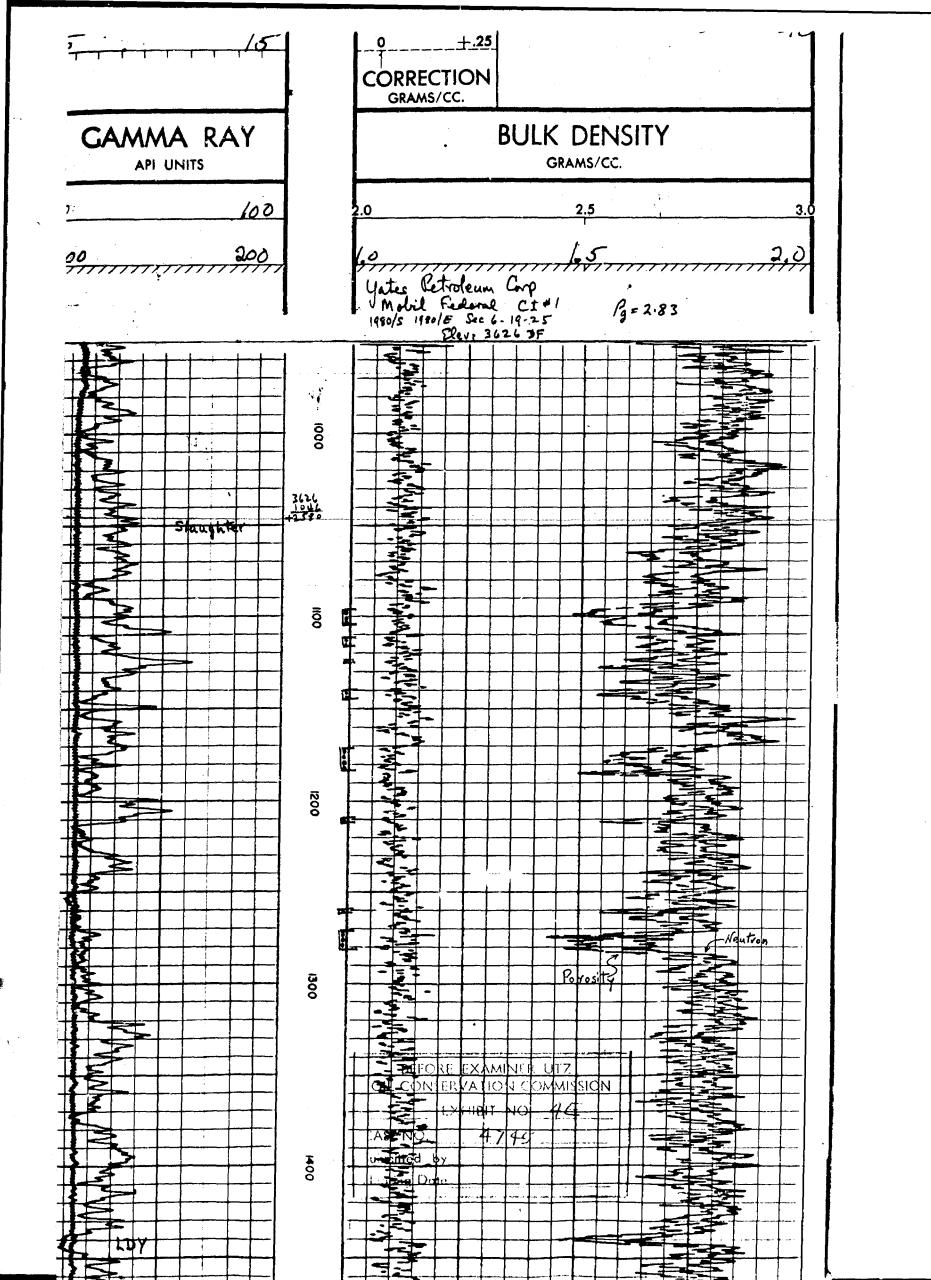




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NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122 Revised 9-1-6

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Calculated Formation Pressure - Slaughter_ Penases Draw
   Greatewood DIII
                                          9gm = 0.729 (will) foil = 0.354 pil/fl
                                         Pe = 634 pei Pr= 0.57 } 2-0.928
Te = 384 pri Tr= 1.40 }
    5-23.72
        Huil Level 40'kjts (4'k'cy) or 1237' from surface
        Shut in wellhard pressure - 372 pri DUT
 BHP a top of fluid = Ps, = Py e SLS = 383 e 5-14 (50-5+3 = 383 (1.0342) = 396 ps.
 Static head, fluid to center is parts = (1511 1237) 0.354 pm/4
                                                                  · 18ps
        Celculated BHP & center of perforation (0 1316)
                                                                  = 4216 ps
 Devating 3603
 Cont. Perp. 1316
 SL Elw =+2287
                       Hydrostatic Gradient = 424 psic = 0.322 psi/ft.
 Mobil Federal CI #1
   5-22-72
                                     9gm - 0.729 SAME = 0.432 pci/ft.
                                    Pc = 684 Pr = 0.38 } Z = 0.95
Te = 384 Tr = 1.40 } Z = 0.95
       Fluid Level 29 jts 2 1/6 "they N 889" from surface
        Shut in wellhead pressure = 248 pri DUT.
BHP & top of flux = Ps, = Ps = RT = 261 e 53.34(546).95 = 261(1.0238)=267
Static head, fluid to center of top perEs = (1100-889) 0.432 prifft
                                                                   = 91
      Calculated BHP a center of topmost perforations
                                                                = 358pm
          and thend to Greenewood Equivalent (1313-1100) 1.322 = 69
      Calculated BHP & Grease wood Equivalent Perfs
                                                               = 427 psi
Elevation = 3626
Equiv. C.P. = 13/3
SI. Elev. = +271301L CONSERVATION COMMISSION & healford, Engr.
                   BEFORE EXAMINER UTZ
               JASE NO.
                          4745 Yatel Redvolum Corp
                                                          5-24-72
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Calculated Drainage Rates 160-acre vs. 320-acre spring Penares Draw Slaughter Pay Steady State Bounded Reservoir Rate Q = 703 Kgh (Pe-P2) (Graff & Hewling) 19 Tz h. 11 2

Assuming
$$P_e = 425$$
 psic $P_{auq} = 412$ psic $P_{auq} = 412$ psic $P_{auq} = 669$ psi $P_r = 0.617$ $P_r = 0.617$ $P_r = 0.617$ $P_r = 424$ °R $P_r = 1.273$ $P_r = 1.27$

(2) 160-acre Spacing: Rate
$$Q_{SC} = \frac{703(120)(0.60)}{0.122(540)(0.892)} \frac{(425^2 - 100)}{0.122(540)(0.892)} \frac{367}{61(\frac{1489}{167})}$$
= 100.15 (4252-100) cuft per day
= 320 met pd.

Eddie h. halfford yeter Pottstem Corp 6-27-72

manufal fried the annual contract of the second	
OIL CONSERVAMINE	RIITZ
OIL CONSERVATION C	COMMISSION
EXHIBIT NO	MORE
EXHIBIT NO	· 7
ASE NO. 4745	-
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training Days	* ** *** .
Property of the Control of the Contr	,

Required 13 wells & 308 method each 12 45,000,000 met pet.

Gathering and Institution 20,000

Compression facilities 260,000

Preating facilities 170,000

Processing Investment \$400,000

Churchzel, 8.4% over 3 yrs \$12,560 per mo.

Operating Expenses \$19,500 per mo.

Operating Expenses: \$19,000 per mo. per 120 mack

Operating & Processing Expenses: \$19,000 per mo. per 120 mack

Shrinkage; fuel; acid genes = 9% Net velue of genes BIT = 30(.91) - 15.83 = 11.474/met

Cost of 13 gas wells = 13 (30,000) = 390,000 Payant = \$390,000/20,000(1147) \$/m = 25.4 marths.

a given acreage would require more offset wells, for a given acreage would louble the drilling investment and inherent risk, would either have to be produced at helf-capacity or require louble-the-investment in treating a compression Jacilities. Then payout would not be 28.4 markly but 57 months or greater.

Eddie la heal Josef, Engr. Yaker Petroleum Carp 6-26.72

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 8

GAS-OIL RATIO TESTS, PENASCO DRAW (S.A. YESO)

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GAS-OIL RATIO TESTS, EAGLE CREEK (S.A.) POOL

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EFFORE EXAMINER UTZ

OF CONSERVATION COMMISSION

EXHIBIT NO. 98

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S. P. YATES PRESIDENT MARTIN YATES, III VICE PRESIDENT JOHN A. YATES VICE PRESIDENT B. W. HARPER

May 22, 1972

Ene 4745

Mr. A. L. Porter, Jr., Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Porter:

Herewith is an application for Special Pool rules for the Penasco Draw-S.A.-Yeso Pool. We would ask that this application be placed on Docket for the first Hearing scheduled after June 19. Please note that a Commission Order No. R-3169, Case No. 3502, exists for the Penasco Draw and Eagle Creek Pools, but concerns the drilling, casing, cementing and plugging of wells in these pools for the protection of the Artesian Water Zone.

Very truly yours,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood Petroleum Engineer

EMM: jg

Attachments

Doi: 6-/3-72



S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC-TREAS.

May 19, 1972

Mr. A. L. Porter, Jr., Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Case 4745

Re: Special Pool Rules for the Penasco Draw San Andres Pool, Eddy County, New Mexico.

Dear Mr. Porter:

Application is hereby submitted by Yates Petroleum Corporation for the creation of an Oil and Gas Pool with Special Pool rules, Eddy County, New Mexico. The Penasco Draw Field is located some 10 - 15 miles southwest of Artesia, presently comprising acreage in the Southwest quarter section of T18S-R25E and in the North half section of T19S-R25E, NMPM.

The Penasco Draw Field was drilled and developed as an oil field with standard oil-unit spacing. Associated gas was discovered in the San Andres formation while drilling the Greasewood BD State No. 1 well in Section 5-19S-25E and the Johnston BE No. 1 Federal in Section 8-19S-25E, both in May 1967, and in subsequent wells occurring above an approximate sub-sea elevation of +2225 ft. The gas is sour having an hydrogen-sulfide content ranging from 800 to 2000 grains of Sulfur per 100 cu-ft of gas. Until now we have been unable to secure a market because of a lack of reserve determinations and economics, and this gas field has been contained behind casing. In order to promote better economics and thereby open up a market for these shut in reserves, applicant seeks special rules and regulations governing the creation and spacing of an Associated Oil and Gas Pool, as follows:

1. that each well completed or re-completed hereafter in this pool shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereafter set forth;

Mr. A. L. Porter, Jr., Secretary-Director

- 2. (a) that each gas well shall be located on a standard unit containing 320 acres, more or less, and shall be no nearer than 660 ft from the outer boundary and 330 ft from any quarter-quarter line;
- 2. (b) that each oil well shall be located on a standard unit as provided for by Rules 104B and 104C;
- 3. that the Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 (a) without notice of hearing when an application has been filed for a non-standard unit subject to the following provisions:
 - (a) the non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side:
 - (b) the unorthodox location is necessitated by topographical conditions or the re-completion of a well previously drilled to another horizon;
 - (c) the applicant presents written waivers from all offset operators or if no offset operator has entered an objection to the unorthodox location within 20 days after notices have been mailed;
- 4. that a well may be classified as a gas well if it has a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons;
- 5. that the <u>limiting</u> gas-oil ratio shall be 3,000 cubic feet of gas for each barrel of oil produced;
- 6. that an oil well having 40 acres dedicated to it shall be permitted to produce an amount of gas determined by multiplying the top unit allowable for the pool by its limiting gas-liquid ratio; and if there is more than one oil well on a 40-acre oil proration unit, the gas assigned to the unit may be produced from the wells in any proportion;

May 19, 1972

Page - 3-

Mr. A. L. Porter, Jr., Secretary-Director

- 7. that a gas-liquid ratio test be taken on any newly completed well within 30 days after fi. I production of new cil unless the well is connected to a gas gathering facility or producing under a temporary gas allowable assigned or exempted; that any well which is shut-in shall be exempt from the gas-liquid ratio test requirement so long as it remains shut-in;
- 8. that gas-liquid ratio tests shall be taken on all oil wells twice a year during the months of February and August except that the initial gas-liquid ratio test may suffice for the first semi-annual test;
- 9. that an initial shut-in pressure test shall be taken on each gas well prior to its open flow potential, and that the pool shall be exempt from periodic shut-ins except as necessitated by Treating Plant shut-downs;
- 10. that the monthly gas production from each lease shall be metered separately and reported monthly on Commission form C-115, showing thereon what disposition has been made of the gas;
- 11. that the casinghead gases from each oil well may be gathered unmetered into a common casinghead gas gathering system, that the total casinghead gas shall be metered prior to commingling with the gas-well gas gathering system, that the gas production from each well shall be allocated proportionately on the basis of production times the last gas-oil ratio test, and reported monthly on the Commission form C-115.

It is further requested that down-hole commingling of LDY, Penasco Massive and Yeso oil as already provided for in the existing Penasco Draw, SA-Yeso Pool be continued in re-classified gas wells provided that a conflict of interpretation of the rules set out above do not arise.

Approval of this application should afford the economic justification for construction of a sour-gas treating plant in the immediate area such that new gas reserves may be established, that cashinghead gas

May 19, 1972

Mr. A. L. Porter, Jr., Secretary-Director

being flared now for lack of facilities will become economically feasible to be gathered and marketed, that applicant will be afforded the opportunity to produce its just and equitable share of the das will prevent the economic loss caused by the drilling of unnecessary wells, will avoid the augmentation of risk arising from the drilling of an excessive number of wells, will prevent the loss of reserves which might result from the drilling of too few wells, and will otherwise prevent waste and protect correlative rights. Applicant further states that the Yates Group are the sole producer and operator in the Penasco Draw SA-Yeso Pool, and waive objections to the provisions asked for herein.

Very truly yours,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood

Bottolie M. Mahfood

Petroleum Engineer

EMM: jg

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OIL CONSERVATION COMA

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC-TREAS.

June 5, 1972

Mr. A. L. Porter, Jr., Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501 Case 4145

Re: Special Pool Rules for the Penasco Draw San Andres Pool, Eddy County, New Mexico

Dear Mr. Porter:

Application is hereby submitted by Yates Petroleum Corporation for the creation of an Oil and Gas Pool with Special Pool rules, Eddy County, New Mexico. The Penasco Draw Field is located some 10 - 15 miles Southwest of Artesia, New Mexico, presently comprising acreage in the Southeast quarter of Township 18 South, Range 25 East, and in the North half of Township 19 South, Range 25 East, N.M.P.M.

The Penasco Draw Field was drilled and developed as an oil field with standard oil-unit spacing. Associated gas was discovered in the San Andres formation while drilling the Greasewood BD State No. 1 Well in Section 5, Township 19 South, Range 25 East, and the Johnston BE No. 1 Federal in Section 8, Township 19 South, Range 25 East, both in May, 1967, and in subsequent wells occurring above an approximate sub-sea elevation of +2225 feet. The gas is sour with a hydrogen-sulfide content ranging from 800 to 2000 grains of sulfur per 100 cubic feet of gas. Until now we have been unable to secure a market for this gas because of a lack of reserve determinations and economics, and this gas field has been contained behind casing.

Special Pool rules covering protection of artesian water were established by Order No. R-3169 entered on December 28, 1966, in Case No. 3502.

In order to promote better economics and thereby open up a market for these shut-in reserves, applicant seeks additional special

temporary rules and regulations governing the creation and spacing of an associated oil and gas pool, as follows:

- RULE 1. (a) Each gas well shall be located on a standard unit comprising 320 acres, more or less, substantially in the form of a rectangle, which is a half section being a legal subdivision of the United States Public Land Surveys.
- RULE 1. (b) Each oil well shall be located on a standard unit as provided for by Rules 104-B and 104-C.
- RULE 2. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 1(a) without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Land Surveys, or the following facts exist and the following provisions are complied with:
 - (a) The non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.
 - (b) The non-standard unit lies wholly within a governmental quarter section and contains less acreage than a standard unit.
 - (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the quarter section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
 - (d) In lieu of paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Secretary-Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within

30 days after the Secretary-Director has received the application.

- RULE 3. Each well, oil or gas, shall be located no nearer than 330 feet to any quarter-quarter section line, except that any well drilled in a known gas productive area shall be located within 150 feet of the center of a quarter-quarter section.
- RULE 4. A well shall be classified as a gas well if it has a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons. A well shall be classified as an oil well if it has a gas-liquid ratio of less than 10,000 cubic feet of gas per barrel of liquid hydrocarbons. The simultaneous dedication of any acreage to an oil well and a gas well is prohibited.
- RULE 5. That the limiting gas-oil ratio shall be 3,000 cubic feet of gas for each barrel of oil produced.
- RULE 6. An oil well which has 40 acres dedicated to it shall be permitted to produce an amount of gas determined by multiplying the top unit oil allowable for the pool by the limiting gasliquid ratio for the pool. In the event there is more than one oil well on a 40-acre oil proration unit, the operator may produce the allowable assigned to the 40-acre unit from the wells on the unit in any proportion.

A gas well shall be permitted to produce that amount of gas obtained by multiplying the top unit oil allowable for the pool by the limiting gas-liquid ratio for the pool and by a fraction, the numerator of which is the number of acres dedicated to the particular gas well and the denominator of which is 40. In the event there is more than one gas well on a 320-acre gas proration unit, the operator may produce the amount of gas assigned to the unit from the wells on the unit in any proportion.

RULE 7. The operator of each newly completed well shall cause a gas-liquid ratio test to be taken on the well upon recovery of all load oil from the well, provided, however, that in no event shall the test be commenced later than 30 days from the date of first production unless the well is connected to a gas-gathering facility and is producing under a temporary gas allowable assigned

in accordance with Rule 10. Any well which is shut in shall be exempted from the gas-liquid ratio test requirement so long as it remains shut in. The initial gas-liquid ratio test shall be taken in the manner prescribed by Rule 8. If the gas-liquid ratio is 10,000 cubic feet of gas per barrel of liquid hydrocarbons, or more, the operator shall not produce the well until beneficial use can be made of the gas.

RULE 8. Gas-liquid ratio tests shall be taken on all wells during the months of February and August of each year. The initial gas-liquid ratio test shall suffice as the first semi-annual test. Tests shall be 24-hour tests, being the final 24 hours of a 72-hour period during which the well shall be produced at a constant normal rate of production. Results of such tests shall be filed on Commission Form C-116 on or before the 10th day of the following month. At least 72 hours prior to commencement of any such gas-liquid ratio tests, each operator shall file with the Artesia Office of the Commission a test schedule for its wells specifying the time each of its wells is to be tested. Copies of the test schedule shall also be furnished to all offset operators.

Special tests shall also be taken at the request of the Secretary-Director and may also be taken at the option of the operator. Such special tests shall be taken in accordance with the procedures outlined hereinabove, including notification to the Commission and offset operators.

RULE 9. An initial-shut-in pressure test shall be taken on each gas well and shall be reported to the Commission on Form C-125.

RULE 10. Any well completed after the effective date of these rules shall receive an allowable only upon receipt by the Commission's Artesia Office of Commission Forms C-104 and C-116, properly executed. The District Supervisor of the Commission's Artesia Office is hereby authorized to assign a temporary gas allowable to wells connected to a gas transportation facility during the recovery of load oil, which allowable shall not exceed the number of cubic feet of gas obtained by multiplying the daily top unit allowable for the pool by the limiting gas-liquid ratio for the pool.

Mr. A. L. Porter, Jr., Secretary-Director -5-

- RULE 11. The monthly gas well gas production from each lease shall be metered separately and the gas production therefrom shall be reported to the Commission on Form C-115 so as to reach the Commission on or before the 24th day of the month next succeeding the month in which the gas was produced. The operator shall show on such report what disposition has been made of the produced gas.
- RULE 12. Each purchaser or taker of gas shall submit a report to the Commission so as to reach the Commission on or before the 15th day of the month next succeeding the month in which the gas was purchased or taken. Such report shall be filed on Form C-111 with the wells being listed in the same order as they are listed on the oil proration schedule.
- RULE 13. The casinghead gases from each oil well may be gathered unmetered into a common casinghead gas gathering system. The total casinghead gas shall be metered prior to commingling with the gas well gas gathering system, and the gas production from each well shall be allocated proportionately on the basis of production times the last gas-oil ratio test, and reported monthly on the Commission Form C-115.
- RULE 14. Failure to comply with any provision of these rules shall result in the immediate cancellation of allowable assigned to the affected well. No further allowable shall be assigned until all rules and regulations have been complied with. The Secretary-Director shall notify the operator of the well and purchaser in writing of the date of allowable cancellation and the reason therefor.
- RULE 15. All transporters or users of gas shall file gas well-connection notices with the Commission as soon as possible after the date of connection.
- RULE 16. Allowables to wells whose classification has changed from oil to gas or from gas to oil as the result of a gasliquid ratio test shall commence on the first day of the month following the month in which such test was reported, provided that a plat (Form C-102) showing the acreage dedicated to the well and the location of all wells on the dedicated acreage has been filed.

Mr. A. L. Porter, Jr., Secretary-Director -6-

RULE 17. That the location of all wells presently drilling to or completed in the Penasco Draw-San Andres Pool, or in the San Andres formation within one mile thereof, are approved.

It is further requested that down-hole commingling of LDY, Penasco Massive and Yeso oil as already provided for in the existing Penasco Draw, SA-Yeso Pool be continued in re-classified gas wells, provided that a conflict of interpretation of the rules set out above do not arise.

Approval of this application should afford the economic justification for construction of a sour-gas treating plant in the immediate area such that new gas reserves may be established, that casinghead gas being flared now for lack of facilities will become economically feasible to be gathered and marketed, that applicant will be afforded the opportunity to produce its just and equitable share of the gas, will prevent the economic loss caused by the drilling of unnecessary wells, will avoid the augmentation of risk arising from the drilling of an excessive number of wells, will prevent the loss of reserves which might result from the drilling of too few wells, and will otherwise prevent waste and protect correlative rights. Applicant further states that the Yates Group are the sole producer and operator in the Penasco Draw SA-Yeso Pool.

Please set this matter for hearing before an examiner as soon as possible after June 20, 1972.

Very truly yours,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood

Petroleum Engineer

DRAFT

TWD/dr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

CASE NO. 4745

Order No. I

IN THE MATTER OF CASE NO. 4745 BEING REOPENED PURSUANT TO THE PROVISIONS OF ORDER NO. R-4365, WHICH ORDER ESTABLISHED SPECIAL RULES AND REGULATIONS FOR THE PENASCO DRAW-SAN ANDRES-YESO POOL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 19, 193 at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this day of October , 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Order No. R-4365, dated August 28, 1972, temporary special rules and regulations were promulgated for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, establishing 40-acre spacing units for oil wells, 320-acre spacing units for gas wells, providing for classification of oil wells and gas wells and imposing a limiting gas-oil ratio of 3000 to 1.

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- (3) That pursuant to the provisions of Order No. R-4365, this case was reopened to allow operators in the subject pool to appear and show cause why the special rules and regulations promulgated by that order should not be discontinued and why the limiting gas-oil ratio of 3000 to 1 should not be reduced.
- (4) The evidence establishes that the gas area of the subject pool can be efficiently and economically drained and developed on 320-acre spacing and that the oil area of the subject pool can be efficiently and economically drained and developed on 40-acre spacing.
- (5) That the applicant has submitted evidence indicating that the limiting gas-oil ratio should be lowered to 2,000 to 1.
- (6) That the Special Rules and Regulations promulgated by Order No. R-4365 as modified by this order will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil and gas in the pool.
- the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-4365, with the exception of the limiting gas-oil ratio established therein, should be commission.
- (8) That the limiting gas-oil ratio in the subject pool should be reduced to 2000 to 1.

IT IS THEREFORE ORDERED:

(1) That the Special Rules and Regulations governing the as promulated by Order No. K-4365 is Penasco Draw San Andres-Yeso Pool are hereby amended to provide for a limiting gas-oil ratio of 2,000 to 1: read in its entirely as follows:

"RULE 6. That the limiting gas-oil ratio shall be zoto oubic fort of gos for each barrel of oil produced."

designated.

DRAFT

GMH/dr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

SMO

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

COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:
CASE No. 4745
APPLICATION OF YATES PETROLEUM CORPORATION FOR POOL REDEFINITION AND SPECIAL POOL RULES EDDY COUNTY, NEW MEXICO
ORDER OF THE COMMISSION
BY THE COMMISSION:
This cause came on for hearing at 9 a.m. on June 28 , 1972 at Santa Fe, New Mexico, before Examiner Elvis A. Utz
NOW, on thisday of, 1972, the Commission, a quorum being present, having considered the testimony, the record,

FINDS:

in the premises,

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

and the recommendations of the Examiner, and being fully advised

- (2) That the applicant, Yates Petroleum Corporation, seeks the promulgation of special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, including provisions for the classification of oil and gas wells, 40-acre spacing for oil wells, 320-acre spacing for gas wells, and a limiting gas-oil ratio of 3,000 to one.
- (3) That the applicant further seeks anthority to Commings on the surface production from god wells sprior to comming metering and to report said you on a lease basis

 (4) That the applicant further seeks authority to commings on the surface are caringhed god prior to releving and to allocate said doringhed you to the rarious wells on the bosis of you oil ratio tests.

-2-CASE NO. 4745 Order No. R-

- That while the Penasco Draw San Andres-Yeso Pool is presently classified as an oil pool, the evidence adduced indicates that it is in fact an "associated" reservoir.
- That the reservoir characteristics of the subject pool indicate that the gas area can be efficiently and economically drained and developed on 320-acre spacing, and that the oil area can be efficiently and economically drained and developed on 40-acre spacing.
- (7) (5) That the reservoir characteristics of the subject pool presently available justify the definition of a gas well as a well producing with a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons.
- (8) LOT That the reservoir characteristics of the subject pool presently available justify the establishment of a gas-liquid ratio limitation of 3,000 cubic feet of gas per barrel of liquid hydrocarbons.
- (9) (2) That temporary special rules and regulations providing for 320-acre gas well spacing and 40-acre oil well spacing should be promulgated for the subject pool in order to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, prevent reduced recovery which might result from the drilling of too few wells, and otherwise prevent waste and protect correlative rights.
- That the temporary special rules and regulations should provide for the classification of a gas well as a well producing with a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons and should provide for a gas-liquid ratio of 2,000 cubic feet of gas per barrel of liquid hydrocarbons until such time as the pool has gas gathering and transportation facilities, and thereafter a limiting gas-oil ratio of 3,000 to 1, in order to afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil or

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gas, or both, and for this purpose to use his just and equitable share of the reservoir energy.

That the temporary special rules and regulations should establish proration rules for gas wells in order to prevent waste and protect correlative rights.

(12)(18) That this case should be reopened in 1973, at which time the operators in the subject pool should be required to establish that a gas-liquid ratio limitation of 3,000 cubic feet of gas per barrel of liquid hydrocarbons will effectively maintain the gas-oil contact in the subject pool, and that the special rules and regulations should be continued in effect.

That the applicant further seeks approval of a 320-acre On-standard gas spacing unit in the Penasco Draw San Andres-Yeso Pool comprising the of Section , Township , NMPM, Eddy County, New , Range Mexico, to be dedicated to its located in Unit of said Section

the proposed non standard gas spacing unit should be approved.

IT IS THEREFORE ORDERED:

Lev, 1972, Rules and Regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE PENASCO DRAW SAN ANDRES-YESO POOL

RULE 1. Each well completed or recompleted in the Penasco Draw San Andres-Yeso Pool or in the Landework formations within one mile thereof, and not nearer to or within the limits of another designated destales or yes pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. (a) Each gas well shall be located on a standard unit containing 320 acres

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form of a square, which is a quarter section being a legal subdivision of the United States Public Land Surveys.

RULE 2. (b) Each oil well shall be located on a standard unit containing 40 acres, more or less, consisting of a governmental quarter-quarter section.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2(a) without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Land Surveys, or the following facts exist and the following provisions are complied with:

- (a) The non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.
- (b) The non-standard unit lies wholly within a governmental quarter section and contains less acreage than a standard unit.
- (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the quarter section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
- (d) In lieu of paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Secretary-Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Secretary-Director has received the application.

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RULE 4. Each well, oil or gas, shall be located no nearer than 330 feet to any quarter-quarter section line, except that any well drilled in a known gas productive area shall be located within 150 feet of the center of a quarter-quarter section.

RULE 5. A well shall be classified as a gas well if it has a gas-liquid ratio of 10,000 or more cubic feet of gas per barrel of liquid hydrocarbons. A well shall be classified as an oil well if it has a gas-liquid ratio of less than 10,000 cubic feet of gas per barrel of liquid hydrocarbons. The simultaneous dedication of any acreage to an oil well and a gas well is prohibited.

RULE 6. That the limiting gas-oil ratio shall be 3,000 cubic feet of gas for each barrel of oil produced until such time as there in operation in the pool gas gathering and transportation facilities, and thereafter the limiting gas-oil ratio shall be 3,000 cubic feet of gas for each barrel of oil produced.

RULE 7. An oil well which has 40 acres dedicated to it shall be permitted to produce an amount of gas determined by multiplying the top unit oil allowable for the pool by the limiting gas-liquid ratio for the pool. In the event there is more than one oil well on a 40-acre oil proration unit, the operator may produce the allowable assigned to the 40-acre unit from the wells on the unit in any proportion.

A gas well shall be permitted to produce that amount of gas obtained by multiplying the top unit oil allowable for the pool by the limiting gas-liquid ratio for the pool and by a fraction, the numerator of which is the number of acres dedicated to the particular gas well and the denominator of which is 40. In the event there is more than one gas well on a 320-acre gas proration unit, the operator may produce the amount of gas assigned to the unit from the wells on the unit in any proportion.

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RULE 8. The operator of each newly completed well shall cause a gas-liquid ratio test to be taken on the well upon recovery of all load oil from the well, provided however, that in no event shall the test be commenced later than 30 days from the date of first production unless the well is connected to a gas-gathering facility and is producing under a temporary gas allowable assigned in accordance with Rule 11. Any well which is shut in shall be exempted from the gas-liquid ratio test requirement so long as it remains shut in. The initial gas-liquid ratio test shall be taken in the manner prescribed by Rule 9. If the gas-liquid ratio is 10,000 cubic feet of gas per barrel of liquid hydrocarbons, or more, the operator shall not produce the well until beneficial use can be made of the gas.

RULE 9. Gas-liquid ratio tests shall be taken on all wells during the months of January and July of each year. The initial gas-liquid ratio test shall suffice as the first semi-annual test. Tests shall be 24-hour tests, being the final 24 hours of a 72-hour period during which the well shall be produced at a constant normal rate of production. Results of such tests shall be filed on Commission Form C-116 on or before the 10th day of the following month. At least 72 hours prior to commencement of any such gas-liquid ratio tests, each operator shall file with the Artesia Office of the Commission a test schedule for its wells specifying the time each of its wells is to be tested. Copies of the test schedule shall also be furnished to all offset operators.

Special tests shall also be taken at the request of the Secretary-Director and may also be taken at the option of the operator. Such special tests shall be taken in accordance with

the procedures outlined hereinabove, including notification to the Commission and offset operators.

RULE 10. An initial shut-in pressure test shall be taken on each gas well and shall be reported to the Commission on Form C-125.

RULE 11. Any well completed after the effective date of these rules shall receive an allowable only upon receipt by the Commission's Artesia Office of Commission Forms C-104 and C-116, properly executed. The District Supervisor of the Commission's Artesia Office is hereby authorized to assign a temporary gas allowable to wells connected to a gas transportation facility during the recovery of load oil, which allowable shall not exceed the number of cubic feet of gas obtained by multiplying the daily top unit allowable for the pool by the limiting gas-liquid ratio for the pool.

RUL! 12. Blancing dates shall be 7 p'clock s.m. Johnery the first and 7 clock a.m. July she first and the periods o time bounded by these dates shall be gas provation periods.

RULE 13. Any gas well which has an underproduced status as of the end of a gas proration period shall be allowed to carry such underproduction forward into the next gas proration period and may produce such underproduction in addition to the allowable assigned during such succeeding period. Any allowable carried forward into a gas proration period and remaining unproduced at the end of such gas proration period shall be cancelled.

RULE 14. Production during any one month of a gas proration period in excess of the allowable assigned to a well for such month shall be applied against the underproduction carried into such period in determining the amount of allowable, if any, to be cancelled.

RULE 15. Any well which has an overproduced status as of the end of a gas proration period shall carry such overproduction forward into the next gas proration period, provided that such overproduction shall be compensated for during such succeeding period. Any well which has not compensated for the overproduction carried into a gas proration period by the end of such proration period shall be shut in until such overproduction is compensated for. If, at any time, a well is overproduced an amount equalling three times its current monthly allowable, it shall be shut in

Pule 12: That the initial gas provation period shall be from 7:00 2. un. september 1, 1972, de taquently, the the date 7:00 2. vn. January 1, 1974. An Kraymentle the date 7:00 2 m. January 1 of each year behalf he benown as the balancing date, and the twelve resorther fallowing this clase shall be known as the you provision period.

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during that month and each succeeding month until the well is overproduced less than three times its current monthly allowable.

- RULE 16. The allowable assigned to a well during any one month of a gas proration period in excess of the production for the same month shall be applied against the overproduction carried into such period in determining the amount of overproduction, if any, which has not been compensated for.
- RULE 17. The Commission may allow overproduction to be compensated for at a lesser rate than would be the case if the well were completely shut in upon a showing after notice and hearing that complete shut in of the well would result in material damage to the well or reservoir.
- RUIE 18. The monthly gas production from each gas well shall be metered separately and the gas production therefrom shall be reported to the Commission on Form C-115 so as to reach the Commission on or before the 24th day of the month next succeeding the month in which the gas was produced. The operator shall show on such report what disposition has been made of the produced gas.
- RULE 19. Each purchaser or taker of gas shall submit a report to the Commission so as to reach the Commission on or before the 15th day of the month next succeeding the month in which the gas was purchased or taken. Such report shall be filed on Form C-111 with the wells being listed in the same order as they are listed on the oil proration schedule.
- RULE 20. Failure to comply with any provision of these rules shall result in the immediate cancellation of allowable assigned to the affected well. No further allowable shall be assigned until all rules and regulations have been complied with. The Secretary-Director shall notify the operator of the well and purchaser in writing of the date of allowable cancellation and the reason therefor.
- RULE 21. All transporters or users of gas shall file gas well-connection notices with the Commission as soon as possible after the date of connection.
- RULE 22. Allowables to wells whose classification has changed from oil to gas or from gas to oil as the result of a gas-liquid ratio test shall commence on the first day of the month following the month in which such test was reported,

permitted only between loans of identical awnership shall be continue CASE NO. 4745 Order No. Rprovided that a plat (Form C-102) showing the acreage dedicated to the well and the location of all wells on the dedicated acreage has been filed. IT IS FURTHER ORDERED: Fraw San Andres Yeso Pool, Eddy County, New Mexico, is hereby approved and dedicated located in of said Section 13/127 That the locations of all wells presently drilling to or completed in the Penasco Draw San Andres-Yeso Pool or in the ___formation**s**within one mile thereof andrewor Maso are hereby approved; that the operator of any well having an unorthodox location shall notify the Artesia District Office of the Commission in writing of the name and location of the well on or before Aseples (4) Let That all operators shall, prior to deptember 191972 file with the Commission Form C-102 for each well showing the acreage dedicated to the well. (5) (4) That all operators shall take new gas-oil ratio tests on all wells and file the results thereof with the Commission on Form C-116 prior to _; that the daily tolerance provision of Commission Rule 502 I is hereby waived for the purpose of testing wells at the allowable rate authorized by these rules. That this case shall be reopened at an examiner hearing , 1973, at which time the operators in the subject pool shall show cause why the gas-liquid ratio limitation of 3,000 cubic feet of gas per barrel of liquid hydrocarbons should not be reduced and why the special rules and regulations promulgated by this order should not be discontinued. Q M That jurisdiction of this cause is retained for the of such further orders as the Commission may deem necessary. DONE AT Santa Fe, New Mexico, on the day and year hereinabove designated.

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- (7) That the Special Rules and Regulations for the Penasco Draw San Andres-Yeso Pool herein promulgated shall be in addition to the Special Rules and Regulations promulgated for said pool by Order No. R-3169.
- (8) That, pursuant to Paragraph A. of Section 65-3-14.5,
 NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the Penasco Draw San Andres-Yeso Pool shall have dedicated thereto 160 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

dedicating 160 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the date of this order shall subject the well to cancellation of allowable.

Until said Form C-102 has been filed or until a non-standard unit has been approved and subject to said 60-day limitation, each well presently drilling to or completed in the Denasco Draw San Andres-Yeso Pool shall receive no more than one-fourth of a standard allowable for the pool.

(9) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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