CASE 4660: MOTION OF OCC TO PERMIT TEXACO TO APPEAR REGARDING REPAIR OF ITS COTTON DRAW UNIT WELL #65.

Case Number 4660

Application
Trascripts

Small Exhibits

ETC.

BEFORE THE

CASE NO. 4660

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NEW MEXICO OIL CONSERVATION COMMISSION

REGULAR	HEARING		
SANTA F	PE	, NEW	MEXIC

Hearing Date	FEBRUARY 16, 1972	TIME: 9 A.M.
NAME	REPRESENTING	LOCATION
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NEW MEXICO OIL CONSERVATION COMMISSION

REGULAR HEARING
SANTA FE , NEW MEXICO

Hearing Date FEBRUARY 16, 1972 CONTINENTAL DIL CO HOBBS NM VITILYON Midland, Zet Vincon Oil & Calif J. C. Mann Sh stallar. I-van D. R. Wall. Jr Mobil Dil Corportion J. H. Jouette Whidland Try Mobil Oil Corp. Sam Hunnicutt Corden oil & Cham Big Spring Tay Harld Miller El Paro Natural Gas El Puro, Tex Shul sil Co Ja Host Medland amoro Production Denner J. E. Danewood MIGLENR Champon Inrie. Oic C. Houston Tex Charter Intl. oil Co arteria, 7 m navajo Ref Phillips Pet, Co. malend Ixes Ray Kashel Colies Server Rel Out Dooken Jemasess 2418 La Fresque Midland IESORO Houston XX Kennon Charter Intu. 2 R Dunton Mobil-Retired midland Midland J Savoze Leyaco Im

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SYECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

MR. UTZ: Case 4660.

MR. HATCH: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Texaco, Inc. to appear and show cause why it should not take immediate action to repair its Cotton Draw Unit Well No. 65, a dual completion, located in Unit G of Section 2, Township 25 South, Range 31 East, Eddy County, New Mexico, in such a manner as to prevent communication between the Paduca-Morrow and Paduca-Wolfcamp Gas Pools.

MR. UTZ: Appearances?

MR. KELLY: Booker Kelly of White, Koch, Kelly and McCarthy, Santa Fe, on behalf of the applicant.

MR. HATCH: The Commission will have one witness, Mr. Nutter.

D. S. NUTTER,

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

DIRECT EXAMINATION

BY MR. HATCH:

- Q Would you state your name and position?
- Dan Nutter, Chief Engineer for the Oil Conservation

 Commission. I would like to explain my appearance

 here, I would like to more or less explain what the

 situation is with regard to this well and why the

 Commission called the hearing and what the Commission

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CIALIZING INI DEPOSITIONS, NEARINGS, STATEMENTS, EXPERT TESTIMONY, DALLY COPY, CONVENTION SIMMS BLDG.* P.O. BOX 1082 *PHONE 245*6681* ALBUQUERQUE, "NEW MEXICO 87103 All right, you may continue then.

First of all, we are talking about the Texaco Company's

Cotton Draw Unit Well Number 65, which is located in

Section 2 of Township 25 South, Range 31 East, Eddy

staff feels is the problem with regard to the well.

County, New Mexico.

This well was drilled to completion and completed in the Paduca-Wolfcamp and Paduca-Morrow Pools. It was originally drilled in 1966 and 1967.

The total depth of the well was 19,546 feet and production was established in the Devonian formation.

However, the well was plugged back at a depth of 15,050 feet and was dually completed as a producing well in the Paduca-Morrow and Paduca-Wolfcamp at 12,785 feet to 12,851 feet.

At 14,787 feet to 14,867 feet, 2 and 7/8ths tubing was run and at 14,700 feet a Packer Test was run showing initial bottom hole pressure as reported to the Commission of 9,240 P.S.I. and 6,123 P.S.I. The calculated open flow was reported at 9,000 per day and 21,230,000 cubic feet of gas giving a ratio of 78,300 to 1.

The authority for dual completion was given by Commission Order R-3266, dated July 10, 1967.

At the Hearing, the following question was asked

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTION 209 SIMMS

of the Texaco witness: "In your opinion would the granting of this application protect correlative rights and help assure the gas will be produced in an effective and efficient manner?"

His answer was: "Yes."

An apparent leak was discovered in the Packer Leakage Test and this was identified as Exhibit 1 in this case, O.C.C. Exhibit 1, which is the Packer Leakage Test and was taken in 1970. It consists of photostatic copies of the charts run on the well and shows the normal Packer Leakage Test. There is no leak indicated at all.

MR; UTZ: When was that taken? August of 1970, and at that time, the Packer Leakage Tost -- the charts there are perfect and when both zones were shut in, both zones reached stabilized shut-in pressure.

When they were opened, one zone's pressure fell and the pressure on the other remained stable. Then they opened the other zone up and the pressure declined on it and the first zone stabilized.

Exhibit Number 2 is the Packer Leakage Test taken in 1971 on the well. This shows a leak of considerable magnitude because, obviously, from that chart, they shut them both down and the shut-in pressure goes up on

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CIALIZING INI DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DALLY COPY, CONVENTION SIMMS BLDG.*P.O. BOX 1092*PHONE 243-6691*ALBUQUERQUE, NEW MEXICO 87103

both wells. When they opened the one well, it is depicted on chart number 2 of page 1 of Exhibit 2 and you will see that they both stayed steady.

Both of them were shut-in again, and they are stabilized --

MR. UTZ: What was the date of the last test?

I'm not sure of the date of the test, but I believe it was in October of 1971. I don't have a copy of the Packer Leakage Test, all I have is a sheet of paper that is attached to the chart and was prepared by Texaco and there is a date of October -- no, whether this was the date he made it or not, whether it was the date he took the test, I don't know, but there is a date of October, 1971, on that test.

Exhibit Number 4 is a production comparison for the two zones of the well from January of 1970 through November of 1971. You can see by that test right there, Mr. Utz, that when the well was opened up there was no decline in pressure at all, so obviously it was receiving gas at a greater rate than it was producing gas.

If you will refer to the production chart there you will notice that during 1970, the average production for the well was anywhere from 8,125 MCF per month to a high in May of 17,000.

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However, the last three months, October, November and December, the average production per day was 307 MCF. It was in the neighborhood of 8,000 to 9,000 MCF for the month and then suddenly in January, and I attempted to ascertain whether there was any abnormal cause for production to suddenly jump up, and I was advised by Texaco there were no changes in line pressure and no changes in operating procedure of the well, but suddenly during the month of January, production jumped from 9,754 to 40,299 MCF.

In January, production went up four times in one month.

MR. UTZ: How much is that?

This is over one million per day and prior to January it averaged 307. So, in my opinion, either a breakout occurred in early December or early January, 1971, and this would be between those two Packer Leakage Tests, the one taken in August of 1970 and the other in October of 1971.

You will note also, there was a small decline in average production in the Morrow zone about the same time.

In 1970, the well averaged anywhere from 300,000 to 400,000 MCF per month and it has been averaging 200,000 to 300,000 in 1971, so there is a change in the

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SPECIALIZING IN. DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 2209 SIMMS BLDG. P.O. BOX 1092 & PHONE 243-66910 ALBUQUERQUE. NEW MEXICO 87103 FIRST NATIONAL BANK BLDG. EAST OALBUQUERQUE. NEW MEXICO 87108

producing characteristic of the well.

It is quite obvious that the Wolfcamp zone is largely depleated in the well and much is shut-in tubing pressure.

The 1970 Packer Leakage Test was 1,400 pounds, and initially shut-in tubing was 8,047 pounds, so there was a decline in shut-in tubing pressure and the decline is taking place and it is very likely that the gas is being left behind in the reservoir either by condensation or being trapped by water in the reservoir, or both.

This is a normal occurrence and it is very likely that this happened. The Wolfcamp zone has expanded throughout the reservoir and the situation will likely be aggravated and additional gas will be lost.

The Wolfcamp is outlined on Exhibit 5 in blue and the participating area in the Morrow zone is outlined in red.

You will see a considerable difference in the areas of participation. While the working interest ownership is the same in both participating areas, the parties' working interests are identical as far as participating interests, but royalty ownership of overriding royalties are not the same. So any leakage from one zone into another deprives the participants

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in that area.

We feel that good field practice calls for the separation of the reservoirs. To continue operating a dual completion with the leakage of the magnitude we have here, this is not in keeping with sound operating procedures.

We may hear that it is inadvisable to kill the well and repair the leak, to take off production long enough to repair the leak would result in revenue loss and any other number of arguments.

Why should the well be repaired? The fact remains that you have two reservoirs that are in communication with each other and if this situation remains, there is grave danger of waste occurring and the correlative rights being impaired unless remedial action is taken.

- Does that complete your case?
- Yes, sir.

MR. UTZ: Any questions?

CROSS-EXAMINATION

BY MR. KELLY:

- Mr. Nutter, I believe your testimony was that, in your opinion, the leakage probably occurred in the early part of 1971, or late 1970, December or January?
- We know the leakage occurred between those two Packer Leakage Tests. By looking at production it

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESSIMONY, DAILY COPY, CONVENTION

appears to have occurred between December and January of 1970, and '71. 2 That is a pretty good indication, don't you feel? 3 Q I think that if you have a poor zone and a real good 4 zone in the well, and a leak suddenly breaks out, that 5 6 is going to be reflected in an increase in production in the poor zone and that's what we have here. 7 And it was your testimony that the Wolfcamp was basically Q 8 a depleated zone? Well, production there for the months of October, November and December averaged 307 MCF, and this is certainly marginal. Isn't it true that basically all of the Wolfcamp production reported in 1971, actually was Morrow production? Some it certainly is. There is bound to be Morrow gas in there now, whether some of it or all of it is coming from the Morrow, I couldn't say. Is it your opinion that there is actual gas that is coming into that, that is not being produced? words, the Morrow gas is not eventually reaching the surface through either the Wolfcamp or the Morrow? I think the Morrow gas is reaching the surface through both. So the gas is being produced?

Yes, it is being produced, and the gas is also going

8 - 5 8	1		back to the reservoir.
C. 3	2	Ω	Is there any way to estimate how much gas is going back
Collina Maria Maria National	3	ļ Ī	into the reservoir?
	4	A	No, there is no way to determine that and there's no
0.0 2.2 +	5		way to determine how much the loss would be.
C) C)	6	Q	It is possible there is no loss; isn't there?
<u>0</u> 3	7	A	It could be. I said there was a likelihood of waste
8	8		there, I didn't say that there definitely was because
- 6	9		no one knows.
dearnley-meier	19	Q	And it is true that it is difficult to work over a
—	11		Morrow gas well?
103	12	A	Well, the Morrow gas wells are worked over.
ENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 3-6651-8 ALBUQUERQUE, NEW MEXICO 87103 Querque, New Mexico 87108	13	Q	And they have a pretty high percentage of either
LY COPY EW ME) 708	14		reducing the deliverability or actually killing the
HONY, DAI	15		well permanently; don't they?
TESTIM JOUER	16	A	I think with modern practices there is very little
EXPERT:	17		likelihood of killing the well permanently.
TEMENTS, 1 243-6691 BUQUER	18	Q	How about the second part of my question, actually
S, STATI HONE ;	19		reducing the deliverability of the well?
, HEARINGS < 1092 e P F	20	A	Reducing the deliverability of the well may, or may
SITIONS,	21		not, occur. If it does occur, it doesn't necessarily
II DEPOSIT	22		reflect that you are going to have any waste there
SPECIALIZING IN. DEPOSITIONS, HEARINGS, STATEM 209 SIMMS BLDG.* P.O. BOX 1092 *PHONE 24: FIRST NATIONAL BANK BLDG. EAST*ALBU	23		because you still may recover the same amount of gas,
SPECIAL 209 SIN	24		you just might defer it slightly.
	25	Q	Is there any way for you, with any reasonable degree of

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certainty, to say whether more waste would occur by allowing the two zones to be in effect, commingled as they are now and taking the chance of killing the Morrow zone by trying to squeeze the Wolfcamp? There is no degree of certainty as to the amount of waste that is occurring by the Morrow Zone producing

into the Wolfcamp formation. There is never any degree of certainty as to what effect on the deliverability of the Morrow zone would be, if the well were worked over. I think it can be said with certainty and with a significant amount of conclusiveness that if you worked the Morrow over and decreased the deliverability on it, you are not going to decrease the recoverable reservoir.

The reservoir will still come out of the Morrow formation.

- If you don't damage the Morrow?
- And that goes for the Wolfcamp too.
- If you don't damage the Morrow. 19
 - You can damage the Morrow formation by increasing deliverability, but you cannot kill the reservoir.

The reservoir will still be there.

- If you deplete the Wolfcamp zone, the Morrow will still have a lot of gas left in it; isn't that correct?
- I think they both have a lot of gas in them now. 25

HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTION:

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	PAGE 13
Q	In January of 1971, the Wolfcamp was a basically deplete
	zone?
A	It was decreasing in deliverability, what remained in
	the reservoir, we don't know. We still had 1,400
	pounds of tubing pressure at the surface.
Ω	Isn't this a typical situation that the Commission
	grants an application for down hole commingling when
	you have one zone basically depleted and the other
	a fairly good zone?
A	No, the typical situation is where both zones are
	marginal.
Q	But this certainly would be an example of successful
	downhole commingling?
A	I wouldn't say so. That well qualifies as only one
	zone and in downhole commingling both zones are not
	marginal.
Q	So is your representation to the Commission, that the
	Wolfcamp be squeezed and you feel by doing that, you
	would not endanger the good Morrow zone?
A	I didn't say the Wolfcamp should be squeezed. I think
	the Texaco plan, I have a diagram here that was submitted
	to us a long time ago, I think this Texaco plan to
	ultimately dually complete the well in the Morrow and
	Devonian and, according to the diagram I have here,

certainly they are going to have to do something with

	-		1	the Morrow zone when they do that.
	\$ 100 miles		2	That would be Texaco's testimony?
	დე ტე			Sure, I'm just offering this as a possibility.
	1 C13			would you have any objections, in your position as
	ନ ଅଧ			an Engineer for the Commission, to an application for
	Contract Special	•	5	downhole commingling?
	<u>යා</u> යා		6	A Yes, because of the danger to the reservoir. I don't
	3		7	A Yes, because of situation that warrants downhole think this is a situation that warrants downhole
	arnley-meier		8	
	ey-i		9	commingling because of the reservoir.
			10	Q Assuming you could be convinced that the reservoir
	dea	**	11	wouldn't be endangered?
		\$ 6 0	12	A Assuming I could be convinced I would agree to anything.
4		TESTIMONY, DAILY COPY, CONVENTIONS COURTQUE, NEW MEXICO 87103 FY MEXICO 87108	13	Q Mr. Nutter, is this a conventional completion?
4		MILY COPY, CONV NEW MEXICO 8 87108	14	A Yes.
_		DAILY C	4.5	Q With the Morrow producing through tubing?
(her)		STIMONY, D.	15	A Both zones are producing through tubing, 2 and 7/8 inch
فييد		23 T T T T T T T T T T T T T T T T T T T		tubing.
ا		S. EXPERT	Ľ	To some?
		Z43-669	9 .	There a file here from the Dual Completion
ال		65, STAT	19	
tiers.		DEPOSITIONS, HEARINGS, STATEMENTS, S. P. D. DOX 1092 & PHONE 243-649	ર્કું 2 0	Hearing. MR. UTZ: And the total production is more since
β- ą		SITIONS,	± 21	January of 1971, than it was prior to that date?
-			g	January of 1971, than it was production went from 300,000 THE WITNESS: Yes, production went from 300,000
		SPECIALIZING IN: 209 SIMMS BLD	2 Z	9 l
		PECIAL!	2 L 2 Z	per day to over 1,000,000 per day.
		% ~		MR. UTZ: You gave some pressures, I didn't get them.
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10 11 DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS G.B.D.O. BOX 1092-PHONE 245-6691-ALBUQUERQUE, NEW MEXICO 87103 AL BANK BLDG. EAS' -ALBUQUERQUE, NEW MEXICO 87108 12 13 14 15

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THE WITNESS: The original bottom hole pressure for the Wolfcamp was 9,240; the original bottom hole pressure for the Morrow was 8,123. The original shut-in pressure on the Wolfcamp was 8,047, and during that 1970 Parker Leakage Test, the shut-in tubing on the Wolfcamp was 1,400.

I don't have the flowing tubing pressure on the shutin tubing pressure for the Morrow.

(By Mr. Keliy) Mr. Nutter, this dual completion was authorized by Order R-3266, in 1967; is that correct? 3266, yes.

MR. NUTTER: And outside of the regular reports, has Texaco requested any other way to handle production from this well, such as commingling?

THE WITNESS: They filed an application, Mr. Hatch might correct me if I am wrong, they filed an application last Fall, for combining the two reservoirs.

MR. HATCH: It was for downhole commingling.

THE WITNESS: And that application was dismissed at their request.

MR. NUTTER: Since the second Packer Leakage Test you have offered in evidence, in the latter part of 1971, would you say the well was opeating in violation of the O.C.C. rules?

THE WITNESS: It is certainly operating with a leak and that's not normal procedure.

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MR. UTZ: Order 3266 required that separation be made effectively; is that correct?

THE WITNESS: Yes, sir.

MR. UTZ: Are there any other questions?

MR. HATCH: The Case was 4625, that was 4625,

that was the application for commingling.

MR. UTZ: Any other questions?

(No response.)

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

(Witness excused.)

MR. UTZ: Mr. Kelly.

MR. KELLY: We have one witness we would like to have sworn.

CURTIS P. COOK,

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

DIRECT EXAMINATION

BY MR. KELLY:

- Q Would you state your name, position and employer, please?
- A Curtis Cook, District Production Engineer for Texaco,
 Inc., in Hobbs.
- Q Have you previously qualified before the Commission as an expert in the field of engineering, Petroleum Engineering?

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HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTION

Yes, sir.

Referring to this plat, would you locate the well involved?

Yes, the well is indicated by the red dot in Section Two.

And we have had previous testimony that this well is completed in the Wolfcamp-Morrow gas zone?

That is correct.

Now, this well is involved in two separate units; is that correct?

Yes, it is. Α

Can you explain the royalty ownership and the percentages for the two wells?

Yes, the Wolfcamp zone is a unit -- the Wolfcamp zone in Section Two has royalties of 100 percent to the State of New Mexico.

The Morrow participation is quite a bit larger and approximately seventy percent is the United States Government and thirty percent, the State of New Mexico. So the Wolfcamp is all State of New Mexico, and the Morrow is seventy-thirty with the Federal Government

That is correct.

Did you hear the testimony of Mr. Nutter?

having the larger share?

Yes.

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DALLY COPY, CONVENTIONS 209 SIMMS BLDG. 8 P.O. BOX 1092 8 PHONE 243-6691 8 ALBUQUERQUE, NEW MEXICO 87103 First national bank bldg. East 8 Albuquerque, New Mexico 87108

		PAGE 18
1	Q	Mr. Nutter explained the history of the well and gave
2		its characteristics and production history; do you have
3		any exceptions to that phase of his testimony?
4	A	No.
5	Q	He also entered an Exhibit showing a fairly dramatic
6		increase in the production from the Wolfcamp around the
7		beginning of 1971; did his figures correlate with Texaco's
8		figures?
9	A	Yes, our Exhibit 2 is a performance curve of both zones,
10		and it indicates a marked increase as of January, 1971.
11	Q	So is there any dispute as far as Texaco is concerned
12		that there is communication between these two zones?
13	A	No.
14	Q	Referring to Exhibit 2, have you made calculations as
15		to the total recoverable reserves of the Wolfcamp?
16	A	Yes, we have the pressure history on the well and the
17		balance curve of P over S versus the accumulative
18		production and the Wolfcamp would have made approximately
19		1.1 billion cubic feet as of December 31, 1970. It
20		made 1.07, so there is some thirty million cubic feet
21		left and it is certainly depleated for all practical
22		purposes.
23	Q	Now, what is the total production from the Wolfcamp now?

It is roughly 1.3 million, the larger part of the

increase being Morrow gas.

Q	Could you	give	the	same	kind	of	figures	for	the
	Morrow?								

- Yes, sir. It will make approximately thirty billion and it's made twenty billion of that, so there is ten billion cubic feet of gas yet to be made. It is still a good well and will continue to be so for some period of time.
- So the situation is that since January of 1971, the Wolfcamp production that is credited 100 percent to the State of New Mexico, is basically Morrow production?
- Yes.

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- Can you give the Examiner a breakdown of how much money we are talking about here?
- Well, you're talking about 250 million cubic feet and seventy percent of the royalty on that amount would be a little over \$3,000 in disputed royalties.
- So it is possible that the State of New Mexico is about \$3,000 ahead of the Federal Government in royalty income?
- That is correct.
- Is this something Texaco could correct as far as accounting procedures are concerned?
 - Yes, all we have to do is get an agreement by the two royalty parties concerned with what appears to be the P over S curve, as to what ultimate recovery would be

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10 11 SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 200 SIMMS BLDG.*P.O. BOX 1092*PHONE 245*6491*ALBUQUERQUE. NEW MEXICO 87103 FIRST NATIONAL BANK BLDG. EAST*ALBUQUERQUE. NEW MEXICO 87108 12 for the Wolfcamp and pay that to the State and credit the remaining gas in the Morrow.

It is a simple accounting procedure once we have the agreement with the royalty owners.

- Getting on to Exhibit Number 3, Mr. Nutter further testified that, in his opinion, there probably was some leakage of Morrow gas into the Wolfcamp zone; do you agree with this?
- No, I do not. A

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Would you explain why you are telling us there is no Q loss?

We have enough shut-in tubing pressure to make an accurate shut-in wellhead pressure projection as is on Exhibit 2, and from these it is fairly easy to calculate flowing bottom hole pressure with the work done at the commingling station and you can calculate flowing tube pressure at various rates and the current rate and current wellhead pressure, the pressure at the bottom of the Wolfcamp tubing is about 1,600 pounds.

There is more gas coming up from the Devonian --I mean, the Morrow, and the higher the restriction, the higher the flow rate and pressure.

Inside the tube, the pressure is approximately 1,925 pounds.

Now, the shut-in pressure, we project them to bottom

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for the Wolfcamp. So even though the volume is depleted, it still has some pressure. The Morrow zone is approximately 2,400 pounds, so you see, any gas entering the well bore will be subject to lower flowing tube pressure than either of the reservoir pressures.

Currently any gas entering the well bore will be produced and will not escape because of the lower pressure.

hole and it gives about 2,000 pounds of pressure

- Are these zones of similar characteristics?
- Yes, the gas has the same physical components.
- Mr. Nutter expressed an opinion as to the advisability of going in and repairing the leak or squeezing the Wolfcamp and the effect it might have, would you comment on that?
- Well, there is no question in the industry but that when you do kill the Morrow with liquids, either oil or gas, you can cause damage.

Anytime you drill a well, you can go into a zone and get a good test while doing some damage with the drilling fluids and then you go back and get maybe half what you tested.

Now, this is due to two things; first, there are some clays present in the Morrow, and secondly, it has

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This indicates reduction as you drill through the zone and expose it to liquid. This is in the South Carlsbad-Morrow, and the Delaware basin is a distance away, but it has the same geological features and the

Here the zone was tested and pipe was run and it flowed and we got back in the neighborhood of half of what was tested in each case, and this is not uncommon

Not without going in and working on it, I just suspect it is across from the Morrow and is probably in the

I want to see if I can summarize your testimony here. It is your opinion that there is no danger to either formation as a result of this communication?

And, it is your opinion, that all of the gas coming out of these formations has been produced through either

	1	A	That is correct.
	2	Q	And, it is your opinion, that any attempt to repair the
	3		break would endanger the Morrow?
	4	A	Definitely.
	5	Q	It is also your opinion that the Wolfcamp is basically
	6		depleated?
	7	A	Yes.
	8	Q	And, it is your opinion, that what we have here is only
	9	<u>.</u>	a minor accounting problem?
	10	A	Yes, once we get the agreement between the royalty
	11		owners, it is only a minor accounting problem.
	12	Q	What are you proposing to do about this?
	13	A	We called a Hearing for downhole commingling but became
87108	14		aware of the royalty interests, and it was proposed that
	15	i	we be given ninety days to arrive at an agreement with
	16		the royalty owners.
: i	17		At the end of the ninety days, we approached the
	18		Commission and requested that the Commission downhole
	19		commingle the well.
	20	Q	Are you, in fact, instituting this procedure to get the
	21		show on the road, so to speak?
	22	A	Yes, sir.
	25	Q	Can you assure this Commission that Texaco will move
	24		with all due haste in this matter and that no more
	25		delays will occur in getting the royalty owners'

dearnley-meier reporting service

SPECIALIZING IN: DEFOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COP 209 SIMMS BLDG.+ P.O. BOX 1092+PHONE 245-6691+ALBUQUERQUE, NEW ME FIRST NATIONAL BANK BLDG. EAST+ALBUQUERQUE, NEW MEXICO 87108	SAILY COPY, CONVENTIONS	NEW MEXICO 87103	87108
	STECIALIZING IN: DEFOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTINONY, DAILY COPY, CONVENTIONS	209 SIMMS BLDG. & P.O. BOX 1092 & PHONE 243-6691 & ALBUQUERQUE, NEW MEXICO 87103	FIRST NATIONAL BANK BLOG. EAST • ALBUQUERQUE, NEW MEXICO

	PAGE 23
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	Commission and requested that the Commission downhole
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dearnley-meier reporting

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTION

agreement?

Yes, I can assure you of that, we will move with all haste. We might run into some problems with the royalty holders, but I think we can negotiate an agreement between the two holders in a ninety day period.

- In your opinion, would the granting of release that Mr. Nutter testified to, actually tend to cause waste and tend to create a situation where you actually leave gas in place?
- I'm sorry?
- I said, in your opinion, would the release Mr. Nutter is suggesting, require you to actually go in and seal this communication gap, possibly cause waste by damaging the Morrow and leaving gas in place?
- If we lose the Morrow, and the possibility definitely exists, we would abandon some ten billion cubic feet of gas.
- And, it is your testimony that there is no danger to either some if the break is not repaired?
 - That is correct, as long as the well is left alone all the gas entering the well bore will be produced.
- Were Exhibits 1 through 4 prepared by you, or under Q your supervision?
- Yes.

I move for the admission of Texaco MR. KELLY:

SPECIALIZING IN. DEPOSITIONS, MEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTION: 200 SIMMS BLDG.* P.O. BOX 1002.* PHONE 243-64691.* ALBUQUERQUE. NEW MEXICO 87103 FIRST NATIONAL BANK BLDG. EAST*ALBUQUERQUE, NEW MEXICO 87108

Exhibits 1 through 4.

MR. UTZ: Without objection, Exhibits 1 through

4 will be entered into the record of this Case.

(Whereupon Texaco Exhibits 1 through 4 were admitted in evidence.)

MR. KELLY: That's all we have on Direct, Mr. Commissioner.

CROSS-EXAMINATION

BY MR. UTZ:

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- What would happen if you shut-in the zones?
- Well, we would then have to cross flow the Wolfcamp because of the pressure differential between the two zones.
- How long has it been since you shut these wells in?
- On a sustained basis or a short period of time?
- A short period of time. Q
- For the Packer Leakage Test in 1971.
- December of 1971?
- The latter part -- the last quarter of 1971, October or in that area.
- If you repaired this well, how long would there be fluid in the Morrow formation?
- Five days would be just an estimate. We would squeeze off the Wolfcamp because it is a depleted zone and we wouldn't leave the tube in there.

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with drilling fluid.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DALLY COPY, CONVENTIONS 200 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NRW MEXICO A7103 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108

In the case of the South Carlsbad wells, where you indicated that their deliverability was substantially decreased, how long was fluid left in those formations?

I don't know, but it was probably five to ten days

- Q Is your testimony then, that fluid in the Morrow formation for a five day period would probably damage the formation?
- Yes, I think it would damage it to some extent. The significant thing here is that this is a zone which has probably seventy percent pressure depletion and substantially more evasion than you would have where you have a well you are drilling through and where you still have the original seven or eight thousand pounds of pressure.
- Q Do you think the Wolfcamp is contributing any gas to the total production of the two zones?
 - Yes, it is contributing some, probably a very minor amount. You see, the Wolfcamp pressure is 400 pounds above the flowing tubing pressure and with a 400 pound differential it will give up some gas and it has already been credited with more gas than it would ever have made because of the increase in the Morrow.

I might point out that as the hole gets worse, and it probably will, you will increase the Wolfcamp flowing

. *		1		tubing pressure, but you will decrease the Morrow
	C + 1	2		pressure, so you are still lowering the flowing tubing
	€ 1,75 2,155 2,155	3		pressure in the Wolfcamp zone.
1 *	েও ৪৬ ১৬	4	Q	Mr. Cook, has Texaco approached the U.S.G.S. in
	\$0.00 \$0.00 \$\$\tau_{\text{min}}\$	5		regard to your proposition of having an agreement
	က် အာ ဗာ	6		between the two royalty owners, the State and the
,	است دعة	7		Federal Government?
	E	8	A	To my knowledge, we have not, to date.
	dearnley-meier	9	Q	And these zones have been flowing together since
63	ea Tea	10		January, 1971?
		11	A	Yes, sir.
	COLVENTIONS	12	Q	When did you get this idea about reaching an agreement
•	COPY, COX	13		between the royalty owners?
1.	AILY NEW 8710	14	A	After we called the Hearing to downhole commingle, we
	IMONY, D	15		discovered we would have to have an agreement first and
	RT TESTIN	16		that's when we started.
J	S, EXPERT B91 - ALBU Zrque; N	17	Q	If you you people have this opinion that you might
	NTEMENTS, E 245-669	18		reach an agreement, wouldn't it be normal to have
	INGS, STAT	19		contacted them for some figures as to whether they
-	15, MEAR!)X 1092	20	,	would be agreeable to work on this?
	DEPOSITIONS, HEARINGS, STATEM S. P.O. BOX 1092 - PHONE 24 IL BANK BLOG. EAST - ALBU	21	A	We have an agreement with our partner to get his
		22		concurrence.
ا	SPECIALIZING IN: 209 SIMMS BLD FIRST NATION.	23		Have you approached the U.S.G.S.?
	SPECIA 209 SIP	24		No, we haven't approached either of the royalty holders.
स्त ्रम		25	Q I	But you have approached Pauley?

A Yes.

MR. UTZ: Does anyone have any questions of the witness?

CROSS-EXAMINATION

BY MR. HATCH:

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Do you know of any other situations where an agreement has been worked out between the Federal Government and the State on the sharing of royalties?

No, sir.

Are there any other wells involved here?

There are in the Morrow.

MR. UTZ: How many wells are involved in the Morrow?

THE WITNESS: Three, I think, but I'm not positive of that. I believe there are three total wells, there would be two others.

MR. UTZ: Mr. Nutter mentioned something about a possible remission into the Devonian and you didn't mention that in your testimony, do you care to discuss that?

THE WITNESS: Well, I don't think we have any plans to go back to the Devonian and if we did, we would wait until we substantially depleted the Wolfcamp. By that, I mean down to ninety-five percent of the reservoir.

Until we reach the economic limits, we have no plans to kill the Morrow of our own accord.

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MR. UTZ: You did drill the well initially to the Devonian?

THE WITNESS: Yes.

MR.UTZ: Did you do a test on the Devonian as well?

THE WITNESS: I don't know, but if we did it wasn't good enough to merit a completion.

MR. UTZ: Was it cemented?

THE WITNESS: I think it was.

MR. UTZ: Then if you cared to, you could drill that out easy enough?

THE WITNESS: Yes, sir.

MR. UTZ: Any other questions?

(No response.)

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

(Witness excused.)

MR. KELLY: Texaco feels that there is no question about the fact that the zones are not endangered as a result of this violation.

I think it is also apparent that Texaco obviously has not moved as quickly as it should have.

I would recommend that the Commission would favor the proposal we make, that we could be more assured of working out an agreement with everyone concerned if we had a Hearing scheduled three months down the line, or whatever

the Commission feels appropriate at the time, to commingle because then both owners would know this situation. Texaco would also have the pressure put on it.

Although the State of New Mexico might like the situation now, they know it won't be able to continue.

They are going to get close to 100 percent of nothing instead of thirty percent of something which is a better deal.

MR. UTZ: Any other statements?

MR. NUTTER: Did we offer our Exhibits?

MR. UTZ: Yes. If there are no further statements the case will be taken under advisement.

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STATE OF NEW MEXICO)
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 foragoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

CERTIFIED SHORTHAND REPORTER

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INDEX WITNESS: 2 PAGE D. S. NUTTER Direct Examination by Mr. Hatch 3 Cross-Examination by Mr. Kelly CURTIS P. COOK Direct Examination by Mr. Kelly 16 Cross-Examination by Mr. Utz 25 Cross-Examination by Mr. Hatch 28 10 EXHIBITS 11 COMMISSION!S" OFFERED ADMITTED Exhibit 1 1970 Packer Leakage Test 5 30 Exhibit 2 1971 Packer Leakage Test 30 Exhibit 3 30 Exhibit 4 Production Comparison 6 30 Exhibit 5 Wolfcamp-Morrow Outline 30 APPLICANT'S: (Texaco) Exhibit 1 Plat 17 24 Exhibit 2 Performance Curves 18 24 Exhibit 3 Pressure Calculations 20 24 Exhibit 4 Drilling Reduction Data 22 24 22 23 24



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BCX 2038 - SANTA FE 87501

May 11, 1972

BRUCE KING CHAIRMAN LAND COMMISSIONER ALEX J. ARMIJO MEMBER

GOVERNOR

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

Mr. Booker Kelly White, Koch, Kelly & McCarthy	Ra:	Case No.	4660	
		Order No.	R-4294	
Attorneys at Law Post Office Box 787		Applicant:		
Santa Fe, New Mexico		OCC - Texa	co Inc.	

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

ALIP/II	
Copy of order also sent to:	
Hobbs OCC X	
Artesia OCC x	
Other	



OIL CONSERVATION COMMISSION

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

May 11, 1972

BRUCE KING
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER
STATE GEOLOGIST

A. L. PORTER, JR.

SECRETARY - DIRECTOR

GOVERNOR

Mr. Booker Kelly
White, Koch, Kelly & McCarthy
Attorneys at Law
Post Office Box 787
Santa Fe, New Mexico

Re: Case No. 4660
According Order No. R-4294
Applicant:
OCC - Texaco Inc.

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

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION ON ITS OWN MOTION TO PERMIT TEXACO INC. TO APPEAR AND SHOW CAUSE WHY IT SHOULD NOT TAKE IMMEDIATE ACTION TO REPAIR ITS COTTON DRAW UNIT WELL NO. 65, A DUAL COMPLETION, LOCATED IN UNIT G OF SECTION 2, TOWNSHIP 25 SOUTH, RANGE 31 EAST, EDDY COUNTY, NEW MEXICO, IN SUCH A MANNER AS TO PREVENT COMMUNICATION BETWEEN THE PADUCA-MORROW AND PADUCA-WOLFCAMP GAS POOLS.

CASE NO. 4660 Order No. R-4294

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 16, 19??, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 11th day of May, 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 Texaco Inc. is the operator of the Cotton Draw Unit Well No. 65, located in Unit G of Section 2, Township 25 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (3) That the subject well was completed as a dual completion (conventional) to produce gas from the Paduca-Wolfcamp and Paduca-Morrow Gas Pools through parallel strings of 2 7/8-inch tubing, with separation of zones by a packer set at approximately 14,700 feet, as authorized by Commission Order No. R-3266.
- (4) That due to some mechanical failure in the well-bore of the subject well, the two zones are being commingled in the well-bore and the two zones are not being produced as separate common sources of supply.
- (5) That waste will occur and correlative rights will not be adequately protected if the subject well is continued to be produced in its present condition.

-2-CASE NO. 4660 Order No. R-4294

(6) That in order to prevent waste and protect correlative rights, the subject well should be repaired in such a manner as to prevent communication within the well-bore of the subject zones.

IT IS THEREFORE ORDERED:

- (1) That Texaco Inc. is hereby ordered to commence within 30 days from the date of this order such remedial action as is necessary to prevent communication between the Paduca-Wolfcamp and Paduca-Morrow Gas Pools in the well-bore of its Cotton Draw Unit Well No. 65, located in Unit G of Section 2, Township 25 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

6.00

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

SEAL

Great d 2-16-72 - 2-17-72 By order R-3266 of 7-10-67 the of a granded Delace permission To Qually Complete she is faduca-W.C-Morrow- Colon draw Ogged to maintain separation The parker test of 10-71. owed a leak f even prior tillys the production andregited a Chak at about Jan 71. They have kad amplitude Le dipain the communication leabfrobie him my spinion will a sure was Monow goo in the Widzone They be required to commence they be required to commence of medial evork within 30 lays.



March 7, 1972

MAR-8 1972

TEXACO INC.
DRAWER 728
HOBBS, NEW MEXICO 88240

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

Re: Pressure Drop Calculations

Cotton Draw Unit No. 65 Eddy County, New Mexico

Attention: Mr. Daniel S. Nutter

Gentlemen:

Attached are the TPRC curves and instructions used to generate the flowing pressures in the tubing strings at the zones of interest as presented during the Examiner Hearing for the referenced well.

The solution is almost completely graphical and the original notes were not kept. However, the curves and instructions will enable you to calculate the pressure at any set of rate, temperature, depth and surface pressure data.

Please contact this office if you have any further question.

Yours very truly,

J. H. Hoover
District Engineer

CPC-dh

Attachment

Procedure To Arrive At Bottom Hole Flowing Pressure

- 1. Convert actual flow rate up actual tubing string to equivalent rate up 2-1/2" (2.441" ID) tubing string (Figure No. 4).
- Choose a flow rate from Figures 9 through 12 on each side of the equivalent flow rate from step No. 1.
- 3. To solve for flowing bottom hole pressure at each chosen rate:
 - a. Enter top of chart at surface temperature (75°).
 - b. Move down to surface pressure on exactly horizontal lines (W_C 1000 psia, M_W 800 psia)
 - Make a point at intersection and read pressure from hyperbolic family of curves. (This will be pressure A)
 - d. Note depth on bottom scale directly below surface temp. Add this depth to the depth of the well or zone in question.
 - e. Extend a line from point A right and parallel to the slightly inclined lines. Make a point at the intercept with the depth from step D.
 - f. Read the pressure at the step E intercept from the hyperbolic family of curves. (Pressure B)
 - g. The pressure drop in the tubing string at the rate in question is equal to Pressure B less Pressure A.
- 4. Interpolate between two rates to get the pressure drop at the rate in question.
- 5. The bottom hole pressure is equal to the surface pressure plus the pressure drop up the tubing string.

C.P. Cook 3-6-72

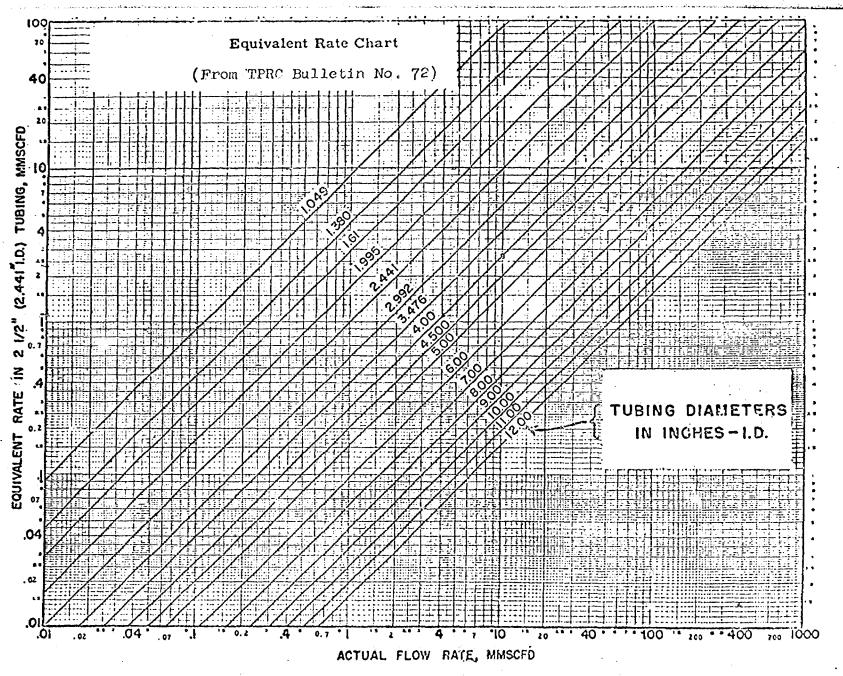
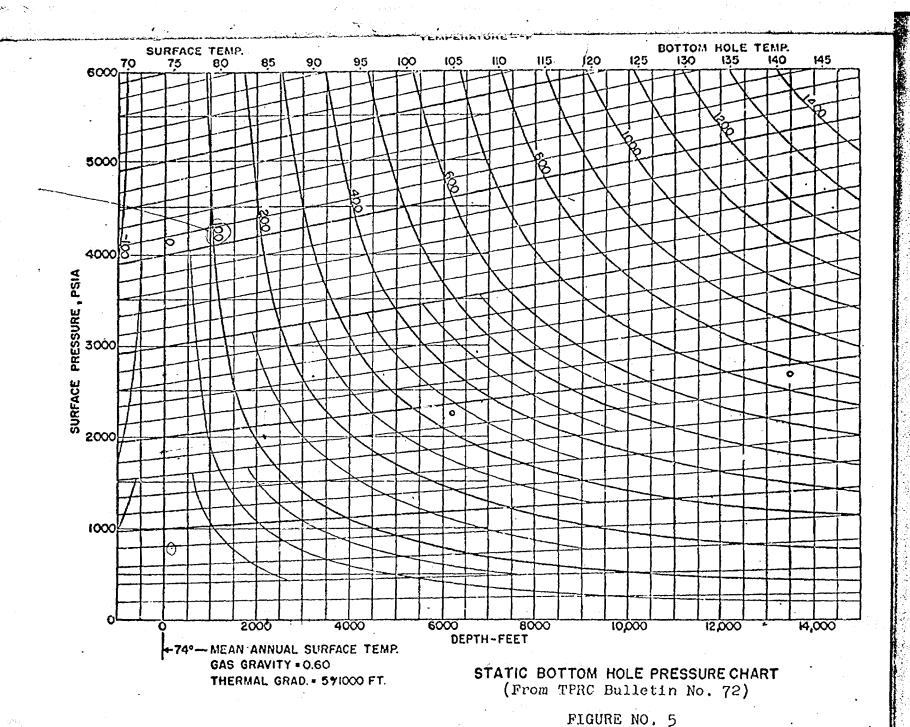
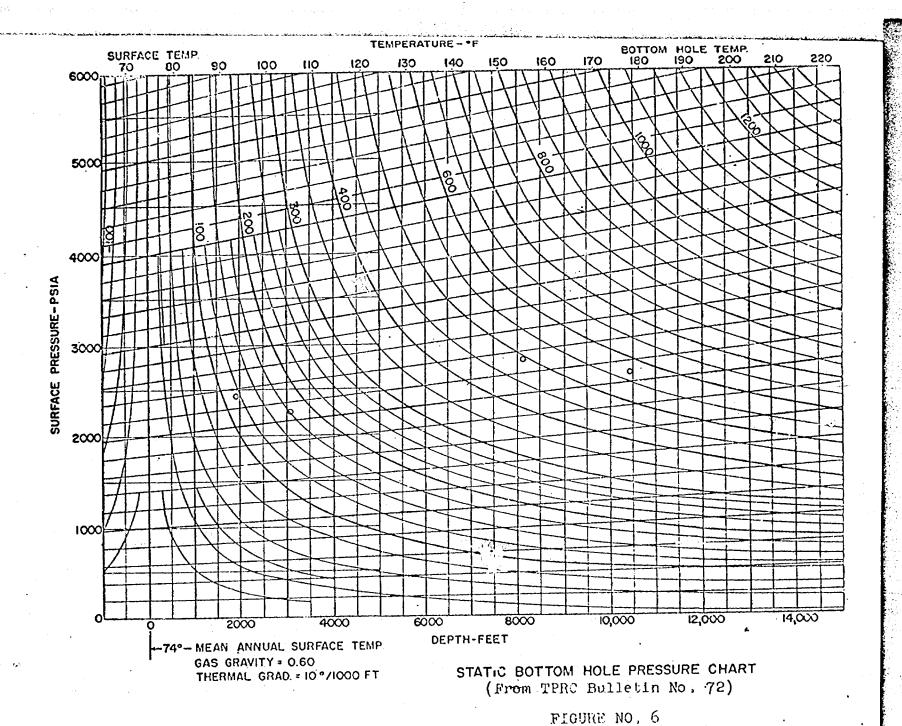


FIGURE NO. 4

3000/900





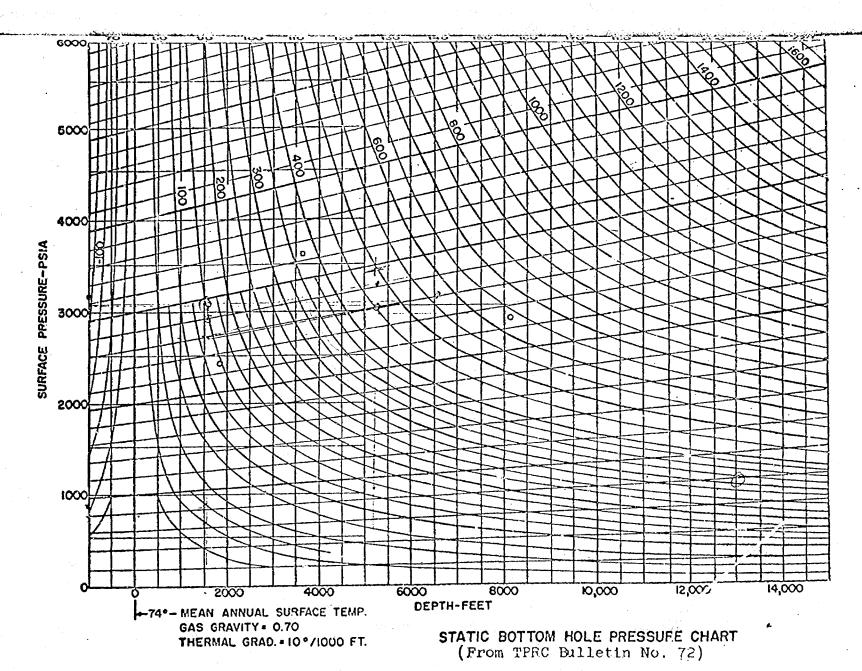
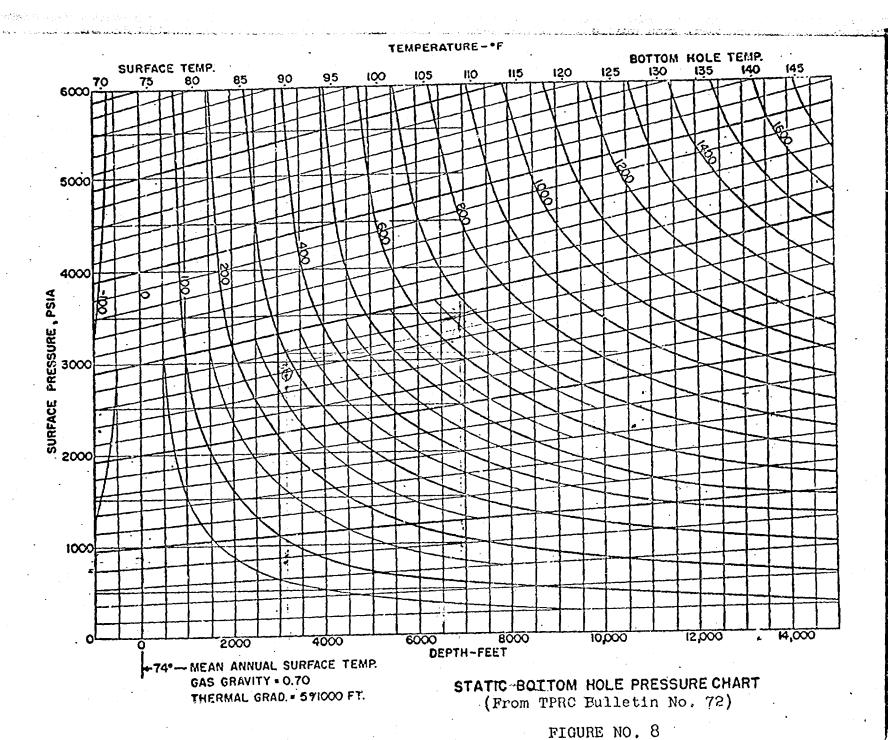
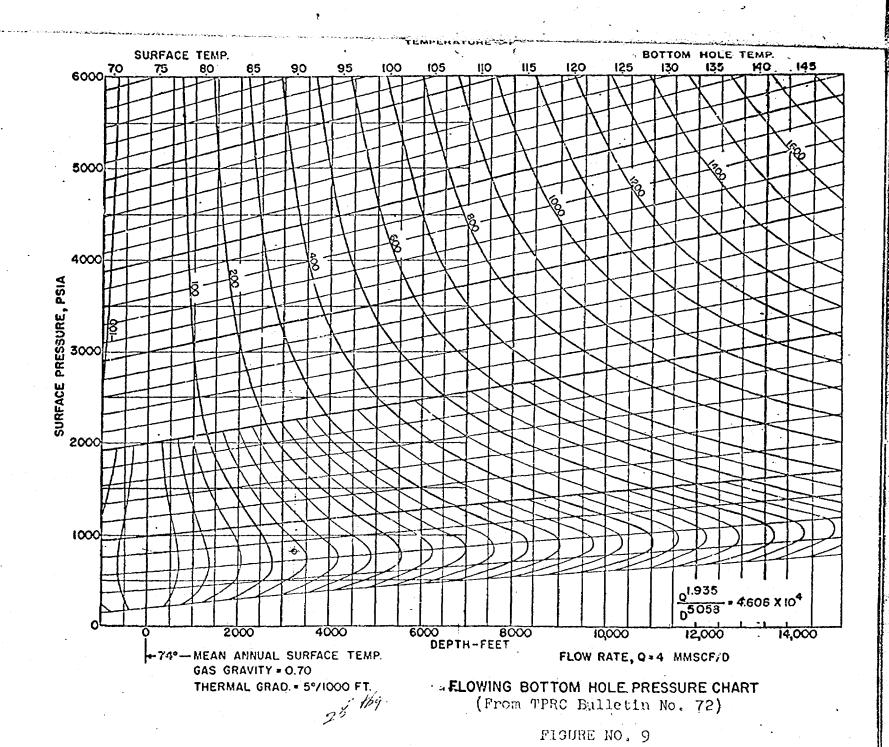
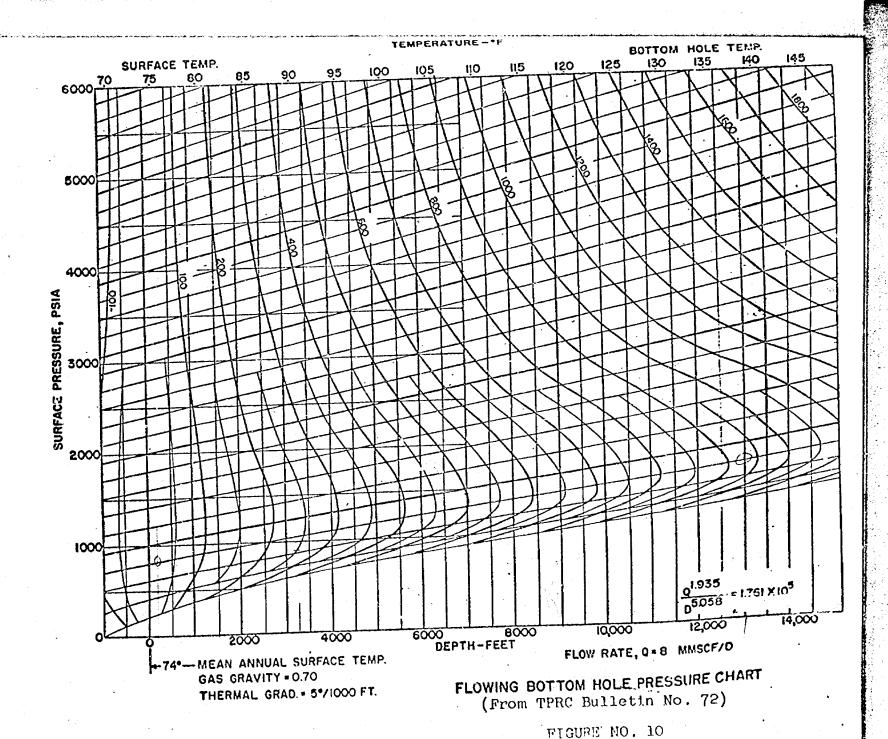
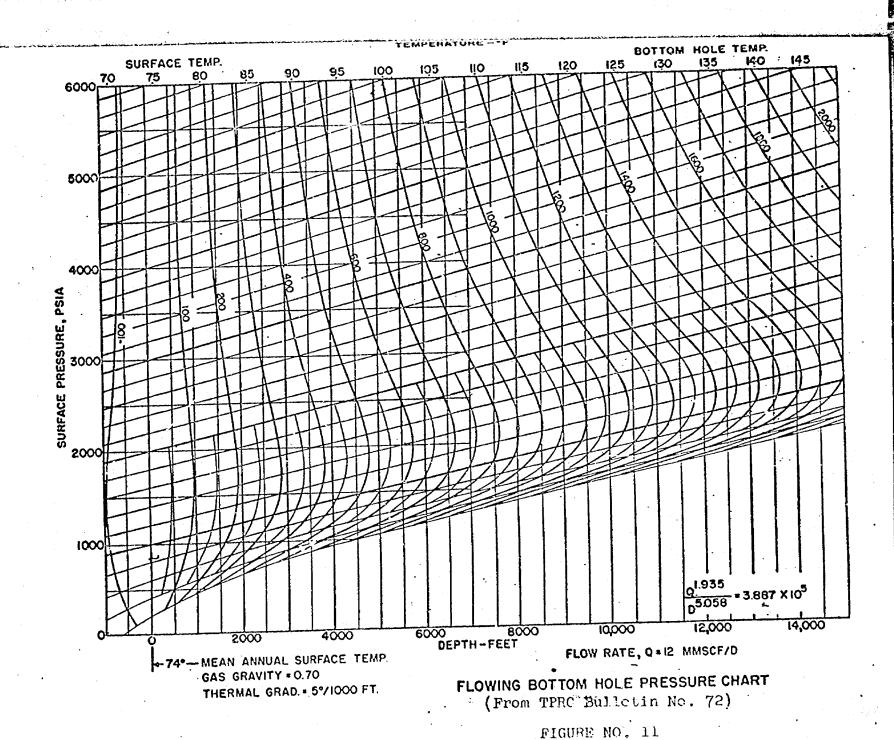


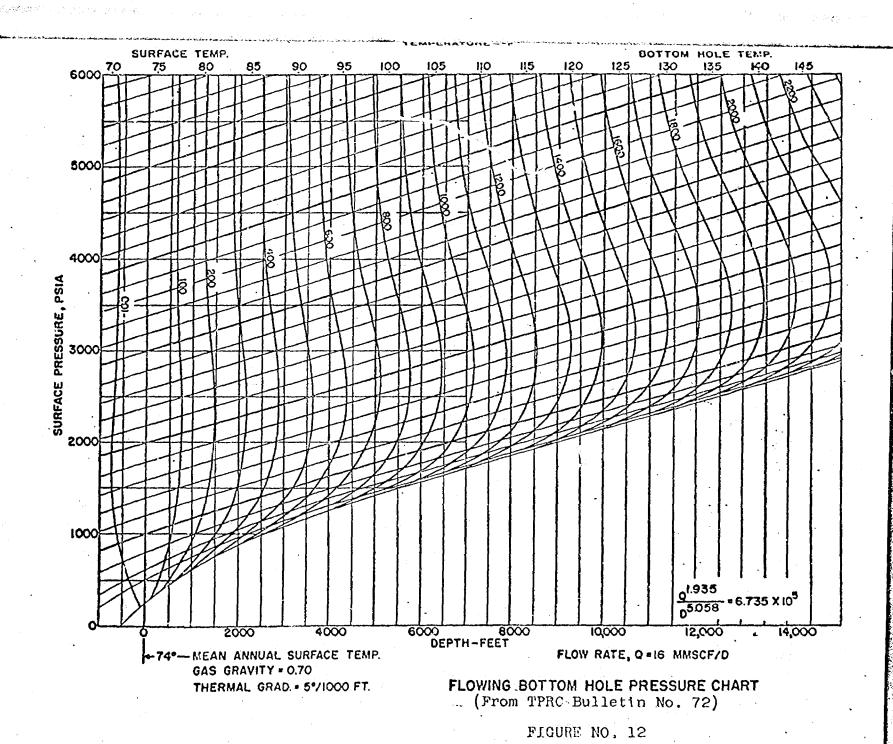
FIGURE NO. 7











DOCKET: REGULAR HEARING - WEDNESDAY - FEBRUARY 16, 1972

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

ALLOWABLE: Consideration of the oil allowable for March and April, 1972;

> Consideration of the allowable production of gas for March, 1972, from fifteen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for March, 1972.

CASE 4557: (De Novo) (Continued from December 15, 1971; Will be continued to April 19, 1972.) Application of Continental Oil Company for transfer of allowable, Lea County, New Mexico. Applicant, in the above-

styled cause, seeks authority to transfer allowable across boundaries of the participating area and the leases outside said area, but within the Maljamar Co-operative Area, MCA Unit Area, Maljamar Grayburg-San Andres Pool, Lea County, New Mexico.

Upon application of Continental Oil Company, this case will be heard De Novo under the provisions of Rule 1220.

THE FOLLOWING CASES WILL BE HEARD BEFORE ELVIS A. UTZ, EXAMINER OR DANIEL S. NUTTER, ALTERNATE EXAMINER, IN THE OIL CONSERVATION COMMISSION CONFERENCE ROOM ON THE SECOND FLOOR OF THE LAND OFFICE BUILDING AT 10 O'CLOCK A.M.

CASE 4657:

Application of Chaparral Service, Inc. for an oil treating plant, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to install and operate a heattreatment type oil treating plant in the SE/4 of Section 34, Township 21 South, Range 37 East, Lea County, New Mexico, for the reclamation of sediment oil.

Gusav Killahun in the above-styled cause, seeks an order pooling all mineral interests from the surface of the ground down this, CASE 4658: Application of Green & Michaelson Producing Company for compulsory pooling, Lea County, New Mexico. Applicant, mineral interests from the surface of the ground down to

(Case 4658 continued)

and including the Drinkard formation underlying the NE/4 of Section 28, Township 16 South, Range 38 East, Garrett-Drinkard Pool, Lea County, New Mexico, to form four standard oil proration units to be dedicated to four wells to be drilled at standard locations. Also to be considered will be the costs of drilling said wells. Charges for the risks involved, provisions for the allocation of actual operating costs, and the establishment of charges for supervision of said wells.

CASE 4659:

(This case will be dismissed; application to be processed administratively)

Application of Continental Oil Company for dual completions, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of certain AXI Apache wells located as follows in Township 25 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to produce gas from the Otero-Chacra Pool and oil from an undesignated Mesaverde oil pool through parallel strings of tubing:

No. 18 - Unit A - Section 8

No. 19 - Unit D - Section 6

No. 20 - Unit C - Section 5

No. 21 - Unit I - Section 5

No. 22 - Unit L - Section 6 No. 23 - Unit D - Section 8

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Juraio.

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Texaco Inc. to appear and show cause why it should not take immediate action to repair its Cotton Draw Unit Well No. 65, a dual completion, located in Unit G of Section 2, Township 25 South, Range 31 East, Eddy County, New Mexico, in such a manner as to prevent communication between the Paduca-Morrow and Paduca-Wolfcamp Gas Pools.

CASE 4661:

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Burwinkle & Scanlon or Burscan Oil Company to appear and show cause why pits located at its Santa Fe Railroad Wells Nos. 1, 2, and 3 in Unit N of Section 21, Township 20 North, Range 9 West, McKinley County, New Mexico, should not be filled and

(Case 4661 continued)

levelled in accordance with Commission Rules and Regulations.

- CASE 4662: Application of Amoco Production Company for an exception to Order No. R-111-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the potash-oil area casing and cementing rules set forth in Order No. R-111-A to permit its Bate Federal Well No. 2 located in Unit L of Section 26, Township 19 South, Range 33 East, Lea County, New Mexico, to be drilled in such a manner as to eliminate running a salt protection string provided the production string is cemented to the surface.
- CASE 4663: Application of Amoco Production Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location for its Malco "A" Federal Well No. 3 located 1650 feet from the North line and 1653 feet from the West line of Section 11, Township 18 South, Range 27 East, undesignated Pennsylvanian-Morrow Pool, Eddy County, New Mexico, with the W/2 of said Section 11 to be dedicated to the well.
- CASE 4664: Application of Tenneco Oil Company for a unit agreement, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Lone Pine Dakota "D" Unit Area comprising 2598 acres, more or less, of federal, fee and Indian lands in Township 17 North, Ranges 8 and 9 West, Lone Pine Dakota "D" Pool, McKinley County, New Mexico.
- CASE 4665: Application of Tenneco Oil Company for a pressure maintenance project, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot pressure maintenance project in the Lone Pine Dakota "D" Pool by the injection of gas and water into the Dakota "D" zone through five wells located in Sections 12 and 13 of Township 17 North, Range 9 West and Sections 7 and 19 of Township 17 North, Range 8 West, McKinley County, New Mexico. Applicant further seeks the designation of a project area and promulgation of rules for the project including a procedure whereby additional injection wells may be approved administratively.

Southeast nomenclature case calling for an order for the CASE 4666: creation and extension of certain pools in Lea, Chaves and Eddy Counties, New Mexico.

> (a) Create a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as La Rica-Wolfcamp Pool. The discovery well is the Union Oil Company of California Pipeline "A" Federal No. 1 located in Unit G of Section 8, Township 19 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM SECTION 8: NE/4

(b) Extend the Dollarhide-Fusselman Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 24 SOUTH, RANGE 38 EAST, NMPM SECTION 30: SE/4

(c) Extend the Double L-Queen Associated Pool in Chaves County, New Mexico, to include therein:

> TOWNSHIP 14 SOUTH, RANGE 29 EAST, NMPM SECTION 24: NW/4 SW/4

(d) Extend the Flying "M"-San Andres Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM SECTION 31: E/2

(e) Extend the Haystack-Cisco Gas Pool in Chaves County, New Mexico, to include therein:

> TOWNSHIP 6 SOUTH, RANGE 27 EAST, NMPM SECTION 16: S/2

(f) Extend the Indian Basin-Upper Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM SECTION 22: All

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Examiner Hearing - February 1.6, 1972

Docket No. 4-72

(Case 4666 continued)

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

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM SECTION 24: NE/4 NW/4

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

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM SECTION 26: E/2

(i) Extend the Sulimar-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM
SECTION 26: NW/4 SE/4 and NE/4 SW/4
dismuss of W further study—

(j) Extend the Tres Papalotes-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM SECTION 31: NE/4 5/2 Sec. 29 SECTION 32: All

TOWNSHIP 15 SOUTH, RANGE 34 EAST, NMPM SECTION 5: NE/4

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

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM SECTION 11: E/2 SECTION 12: SW/4

CASE 4667: Northwest New Mexico nomenclature case calling for an order for the creation and extension of certain pools in San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico,

(a) Create a new pool in San Juan County, New Mexico, classified as an oil pool for Pennsylvanian Buena production, be and the same is hereby created and designated as the Buena Suarte-Pennsylvanian Oil Pool. The discovery well

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Examiner Hearing - February 16, 1972 -6-

Case 4667 continued - (a)

is the Tenneco Oil Company Pah Well No. 1, located in Unit L of Section 3, Township 25 North, Range 11 West, NMPM. Said pool would comprise:

TOWNSHIP 25 NORTH, RANGE 11 WEST, NMPM SECTION 3: SW/4

(b) Create a new pool in Sandoval County, New Mexico, classified as an oil pool for Dakota production, be and the same is hereby created and designated as the Five Lakes-Dakota Oil Pool. The discovery well is the Refiners Petroleum Corporation Cuba Union Well No. 1, located in Unit A of Section 25, Township 22 North, Range 3 West, NMPM. Said pool would comprise:

TOWNSHIP 22 NORTH, RANGE 3 WEST, NMPM

SECTION 24: SE/4 SW/4

SECTION 25: N/2

SECTION 26: NE/4 NE/4

Create a new pool in San Juan County, New Mexico, classified as a gas pool for Fruitland production, be and the same is hereby created and designated as the South Gallegos-Fruitland Pool. The discovery well is the Skelly Oil Company Navajo G Well No. 1, located in Unit K of Section 12, Township 26 North, Range 12 West, NMPM. Said pool would comprise:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

SECTION 11: S/2 and NW/4

SECTION 12: All

(d) Create a new pool in Rio Arriba County, New Mexico. classified as an oil pool for Gallup-Dakota production, be and the same is hereby created and designated as the West Lindrith Gallup-Dakota Oil Pool. Shid pool would comprise:

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM

SECTION 15: SE/4

SE/4 SECTION 21:

SECTION 22: All

SECTION 27:

SECTION 28: **A11**

SECTION 32: BE/4

SECTION 33:

SECTION 34:

(e) Create a new pool in Sandoval County, New Mexico, classified as an oil pool for Mesaverde production, be and the same is hereby created and designated as the Parlay-Mesaverde Oil Pool. The discovery well is the Tesoro Petroleum Corporation Parlay Well No. 1, located in Unit H of Section 29, Township 22 North, Range 3 West, NMPM. Said pool would comprise:

TOWNSHIP 22 NORTH, RANGE 3 WEST, NMPM SECTION 29: N/2

(f) Create a new pool in San Juan County, New Mexico, classified as an oil pool for Gallup production, be and the same is hereby created and designated as the Rattlesnake-Gallup Oil Pool. The discovery well is the Navajo Well No. 23, located in Unit G of Section 2, Township 29 North, Range 19 West, NMPM. Said pool would comprise:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM SECTION 2: NE/4

(g) Create a new pool in San Juan County, New Mexico, classified as an oil pool for Dakota production, be and the same is hereby created and designated as the Snake Eyes-Dakota Oil Pool. The discovery well is the Davis Oil Co., Snake Eyes Well No. 1, located in Unit C of Section 20, Township 21 North, Range 8 West, NMPM. Said pool would comprise:

TOWNSHIP 21 NORTH, RANGE 8 WEST, NMPM SECTION 17: SW/4 SE/4 SECTION 20: N/2 and SW/4

(h) Create a new pool in San Juan County, New Mexico, classified as a gas pool for Pennsylvanian production, be and the same is hereby created and designated as the North Tocito Dome-Pennsylvanian Pool. The disgovery well is the Campbell, Kiel & Rothwell Navajo Tocito Well No. 1, located in Unit G of Section 9, Township 26 North, Range 18 West, NMPM. Said pool would comprise:

TOWNSHIP 26 NORTH, RANGE 18 WEST, NMPM SECTION 9: E/2 SECTION 10: SW/4

(i) Create a new pool in San Juan County, New Mexico, classified as a gas pool for Pictured Cliffs production, be and the same is hereby created and designated as the Waw-Pictured Cliffs Pool. The discovery well is the Dugan Production Corp., Waw Well No. 1, located in Unit L of Section 32, Township 27 North, Range 13 West, NMPM. Said pool would comprise:

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM SECTION 32: SW/4

(j) Extend the Angels Peak-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 9 WEST, NMPM SECTION 17: E/2

(k) Extend the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 9 WEST, NMPM SECTION 31: SW/4

(1) Extend the Ballard-Pictured Cliffs Pool in Rio Arriba, San Juan and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 2 WEST, NMPM SECTION 6: SW/4

TOWNSHIP 22 NORTH, RANGE 3 WEST, NMPM SECTION 2: NE/4

TOWNSHIP 23 NORTH, RANGE 4 WEST, NMPM SECTION 24: SE/4

(m) Extend the Blanco-Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

SECTION 13: All SECTION 24: W/2

TOWNSHIP 29 NORTH, RANGE 10 WEST, NMPM SECTION 3: All

SECTION 10: All

Examiner Hearing - February 16, 1972

(n) Extend the Blanco-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM SECTION 1: W/2

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM SECTION 25: NW/4

(0) Extend the South Blanco-Pictured Cliffs Pool in Rio Arriba and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM SECTION 16: SW/4
SECTION 17: SE/4
SECTION 20: N/2
SECTION 21: All
SECTION 28: NW/4

(p) Extend the BS Mesa-Gallup Pool in Rio Arriba County. New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 4 WEST, NMPM SECTION 3: N/2 SECTION 9: NE/4 SECTION 10: NW/4

(q) Extend the Choza Mesa-Pictured Cliffs Pool in Rio Arriba County. New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 3 WEST, NMPM SECTION 30: S/2

(r) Extend the Fulcher Kutz-Pictured Cliffs Pool in San Juan County, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM SECTION 6: NE/4

(s) Extend the Gallegos-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM SECTION 24: S/2

(t) Extend the Hogback-Dakota Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 16 WEST, NMPM SECTION 7: SW/4 SW/4 SECTION 18: NW/4 NW/4

(u) Extend the Kutz-Fruitland Pool in San Juan County, New Mexico, to include therein;

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM SECTION 24: NW/4 SECTION 25: N/2

(v) Extend the Lone Pine-Dakota "D" Oil Pool in McKinley County, New Mexico, to include therein:

TOWNSHIP 17 NORTH, RANGE 8 WEST, NMPM SECTION 7: S/2
SECTION 8: E/2 NW/4, N/2 SW/4 & SE/4 SW/4
SECTION 17: NE/4 NW/4
SECTION 18: E/2 SE/4

TOWNSHIP 17 NORTH, RANGE 9 WEST, NMPM SECTION 12: E/2 SE/4
SECTION 13: NE/4 NW/4
SECTION 24: E/2 NW/4

(w) Extend the Lybrook-Gallup Oil Pool in Rio Arriba, San Juan and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 6 WEST, NMPM SECTION 7: SW/4 & SE/4 NW/4 SECTION 18: W/2 SECTION 19: All SECTION 20: SW/4 SECTION 30: W/2 SECTION 31: NW/4 NW/4

TOWNSHIP 23 NORTH, RANGE 7 WEST, NMPM

SECTION 3: SW/4
SECTION 4: E/2 SE/4
SECTION 5: All
SECTION 13: All
SECTION 14: SF/4 & E/2 NE/4

Examiner Hearing - February 16, 1972 -11-

(w) continued

TOWNSHIP 23 NORTH, RANGE 7 WEST, NMPM

SECTION 22: NE/4 & NE/4 SE/4

SECTION 23: N/2

SECTION 24: NW/4 & NW/4 SW/4

TOWNSHIP 24 NORTH, RANGE 7 WEST, NMPM

SECTION 29: SW/4 SECTION 32: W/2

(x) Extend the Otero-Chacra Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM

SECTION 31: NW/4

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM

SECTION 3: W/2

SECTION 10: N/2

SECTION 11: NW/4

SECTION 35: N/2

SECTION 36: N/2

TOWNSHIP 25 NORTH, RANGE 6 WEST, NMPM

SECTION 1: All

SECTION 3: N/2

SECTION 6: NE/4

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

SECTION 34: W/2

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM

SECTION 18: SW/4

SECTION 19: W/2 & SE/4

SECTION 20: SW/4

SECTION 26: SW/4

SECTION 28: All

SECTION 29: W/2

SECTION 30: All

SECTION 31: N/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM

SECTION 12: W/2

SECTION 13: N/2 & SE/4

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(y) Extend the Otero-Gallup Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 5 WEST, NMPM

SECTION 3: W/2

SECTION 4: All

SECTION 5: SE/4, S/2 NE/4 & NE/4 NE/4

SECTION 9: N/2 & E/2 SW/4

SECTION 10: NW/4 & SW/4 NE/4

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM SECTION 33: SE/4

(z) Extend the Pinon-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 12 WEST, NMPM

SECTION 13: SW/4

SECTION 14: SE/4

(aa) Extend the Slick Rock-Dakota Oil Pool in San Juan County, to include therein:

TOWNSHIP 30 NORTH, RANGE 16 WEST, NMPM

SECTION 31: W/2 SW/4 & SW/4 NW/4

TOWNSHIP 30 NORTH, RANGE 17 WEST, NMPM SECTION 36: NE/4 NE/4

(bb) Extend the Wild Horse-Gallup Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 3 WEST, NMPM SECTION 19: SW/4

TOWNSHIP 26 NORTH, RANGE 4 WEST, NMPM

SECTION 12: SW/4

SECTION 13: NW/4

SECTION 24: NW/4

•	WOLFCAMP		ž.		MORROW		
*. ***	MCF GAS	BBLS COND	BOLS WATER	DAYS PROD	MCF GAS	BBLS WTR	DAYS PROD
1970 J	11,315	57	NR	ルペ	440,197	NR	214
F	9,106	5	NR	NR	401,231	NR	NR
M	17,380	28	Ne	NR	430,509	NR	NR
A	16,627	30	NR	NR	407,953	NR	NIC
M	17, 138	50	NR	NR	411,836	NR	NR
J	15,941	153	NR	NR	397,155	NR	DR
· · · · · · · · · · · · · · · · · · ·	14,849	78	NR	NR	361,077	NK	Na
A	12, 450	51	MR	NR	382,082	NR	Ne
8	11,015	35	MR	BE	372,342	NR	11 R
a	9,724	83	NR	NR	372,496	NR	NR
N	8,725	59	NR	NR	358,930	NR	NR.
D	9,754	51	NR	sig.	324,684	NR	NR
1971 1	40,299	13	29	25	319,481	42	3/
F	31,242	3	24	16	7.87,823	52	NR
M	28,782	NR	NR	31	301,252	62	31
A	26,210	NR	1,	30	310,267	160	30
M	25363	3	77	31	308,122	62	3,
y	23,271	NR	NR	30	274,994	60	30
	27,000	4	45	31	293,530	62	31
A	24,030	28	31	31	286,695	62	NR
\$	25,534	3	27	30	2.67,997	40	30
0	26,519	5	40	31	247,450	54	31
N	35,766	~	33	30	262,388	60	38
0					et. Geografie		Approximately and the second s

Source 1970: annual Statistical Péport 1971: Monthly Statistical Réport

NR = NOT REPORTED IN SOURCE MATERIAL

DOCKET: REGULAR HEARING - WEDNESDAY - FEBRUARY 16, 1972

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

- ALLOWABLE: (1) Consideration of the oil allowable for March and April, 1972;
 - (2) Consideration of the allowable production of gas for March, 1972, from fifteen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for March, 1972.
- CASE 4557: (De Novo) (Continued from December 15, 1971; Will be continued to April 19, 1972.)

 Application of Continental Oil Company for transfer of allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to transfer allowable across boundaries of the participating area and the leases outside said area, but within the Maljamar Co-operative Area, MCA Unit Area, Maljamar Glayburg-San Andres Pool, Lea County, New Mexico.

Upon application of Continental Oil Company, this case will be heard <u>De Novo</u> under the provisions of Rule 1220.

THE FOLLOWING CASES WILL BE HEARD BEFORE ELVIS A. UTZ, EXAMINER OR DANIEL S. NUTTER, ALTERNATE EXAMINER, IN THE OIL CONSERVATION COMMISSION CONFERENCE ROOM ON THE SECOND FLOOR OF THE LAND OFFICE BUILDING AT 10 O'CLOCK A.M.

- CASE 4657: Application of Chaparral Service, Inc. for an oil treating plant, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to install and operate a heat-treatment type oil treating plant in the SE/4 of Section 34, Township 21 South, Range 37 East, Lea County, New Mexico, for the reclamation of sediment oil.
- CASE 4658: Application of Green & Michaelson Producing Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface of the ground down to

1

Examiner Hearing - February 16, 1972

Docket No. 4-72

(Case 4658 continued)

and including the Drinkard formation underlying the NE/4 of Section 28, Township 16 South, Range 38 East, Garrett-Drinkard Pool, Lea County, New Mexico, to form four standard oil proration units to be dedicated to four wells to be drilled at standard locations. Also to be considered will be the costs of drilling said wells. Charges for the risks involved, provisions for the allocation of actual operating costs, and the establishment of charges for supervision of said wells.

CASE 4659: (This case will be dismissed; application to be processed administratively)

Application of Continental Oil Company for dual completions, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of certain AXI Apache wells located as follows in Township 25 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to produce gas from the Otero-Chacra Pool and oil from an undesignated Mesaverde oil pool through parallel strings of tubing:

No. 18 - Unit A - Section 8 No. 19 - Unit D - Section 6 No. 20 - Unit C - Section 5 No. 21 - Unit I - Section 5 No. 22 - Unit I - Section 6 No. 23 - Unit D - Section 8

CASE 4660:

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Texaco Inc. to appear and show cause why it should not take immediate action to repair its Cotton Draw Unit Well No. 65, a dual completion, located in Unit G of Section 2, Township 25 South, Range 31 East, Eddy County, New Mexico, in such a manner as to prevent communication between the Paduca-Morrow and Paduca-Wolfcamp Gas Pools.

CASE 4661: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Burwinkle & Scanlon or Burscan Oil Company to appear and show cause why pits located at its Santa Fe Railroad Wells Nos. 1, 2, and 3 in Unit N of Section 21, Township 20 North, Range 9 West, McKinley County, New Mexico, should not be filled and

(Case 4661 continued)

levelled in accordance with Commission Rules and Regulations.

- CASE 4662: Application of Amoco Production Company for an exception to Order No. R-111-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the potash-oil area casing and cementing rules set forth in Order No. R-111-A to permit its Bate Federal Well No. 2 located in Unit L of Section 26, Township 19 South, Range 33 East, Lea County, New Mexico, to be drilled in such a manner as to eliminate running a salt protection string provided the production string is cemented to the surface.
- CASE 4663: Application of Amoco Production Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location for its Malco "A" Federal Well No. 3 located 1650 feet from the North line and 1653 feet from the West line of Section 11, Township 18 South, Range 27 East, undesignated Pennsylvanian-Morrow Pool, Eddy County, New Mexico, with the W/2 of said Section 11 to be dedicated to the well.
- CASE 4664: Application of Tenneco Oil Company for a unit agreement, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Lone Pine Dakota "D" Unit Area comprising 2598 acres, more or less, of federal, fee and Indian lands in Township 17 North, Ranges 8 and 9 West, Lone Pine Dakota "D" Pool, McKinley County, New Mexico.
- CASE 4665: Application of Tenneco Oil Company for a pressure maintenance project, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot pressure maintenance project in the Lone Pine Dakota "D" Pool by the injection of gas and water into the Dakota "D" zone through five wells located in Sections 12 and 13 of Township 17 North, Range 9 West and Sections 7 and 19 of Township 17 North, Range 8 West, McKinley County, New Mexico. Applicant further seeks the designation of a project area and promulgation of rules for the project including a procedure whereby additional injection wells may be approved administratively.

- CASE 4666: Southeast nomenclature case calling for an order for the creation and extension of certain pools in Lea, Chaves and Eddy Counties, New Mexico.
 - (a) Create a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as La Rica-Wolfcamp Pool. The discovery well is the Union Oil Company of California Pipeline "A" Federal No. 1 located in Unit G of Section 8, Township 19 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM SECTION 8: NE/4

(b) Extend the Dollarhide-Fusselman Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 38 EAST, NMPM SECTION 30: SE/4

(c) Extend the Double L-Queen Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 29 EAST, NMPM SECTION 24: NW/4 SW/4

(d) Extend the Flying "M"-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM SECTION 31: E/2

(e) Extend the Haystack-Cisco Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 6 SOUTH, RANGE 27 EAST, NMPM SECTION 16: S/2

(f) Extend the Indian Basin-Upper Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM SECTION 22: All

Examiner Hearing - February 16, 1972 -5-

(Case 4666 continued)

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

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM SECTION 24: NE/4 NW/4

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

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM SECTION 36: E/2

(i) Extend the Sulimar-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM SECTION 26: NW/4 SE/4 and NE/4 SW/4

(j) Extend the Tres Papalotes-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM SECTION 31: NE/4 SECTION 32: All

TOWNSHIP 15 SOUTH, RANGE 34 EAST, NMPM SECTION 5: NE/4

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

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM SECTION 11: E/2 SECTION 12: SW/4

- CASE 4667: Northwest New Mexico nomenclature case calling for an order for the creation and extension of certain pools in San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico,
 - (a) Create a new pool in San Juan County, New Mexico, classified as an oil pool for Pennsylvanian Buena production, be and the same is hereby created and designated as the Buena Suerte-Pennsylvanian Oil Pool. The discovery well

Case 4667 continued - (a)

is the Tenneco Oil Company Pah Well No. 1, located in Unit L of Section 3, Township 25 North, Range 11 West, NMPM. Said pool would comprise:

TOWNSHIP 25 NORTH, RANGE 11 WEST, NMPM SECTION 3: SW/4

(b) Create a new pool in Sandoval County, New Mexico, classified as an oil pool for Dakota production, be and the same is hereby created and designated as the Five Lakes-Dakota Oil Pool. The discovery well is the Refiners Petroleum Corporation Cuba Union Well No. 1, located in Unit A of Section 25, Township 22 North, Range 3 West, NMPM. Said pool would comprise:

TOWNSHIP 22 NORTH, RANGE 3 WEST, NMPM

SECTION 24: SE/4 SW/4

SECTION 25: N/2

SECTION 26: NE/4 NE/4

(c) Create a new pool in San Juan County, New Mexico, classified as a gas pool for Fruitland production, be and the same is hereby created and designated as the South Gallegos-Fruitland Pool. The discovery well is the Skelly Oil Company Navajo G Well No. 1, located in Unit K of Section 12, Township 26 North, Range 12 West, NMPM. Said pool would comprise:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

SECTION 11: S/2 and NW/4

SECTION 12: All

(d) Create a new pool in Rio Arriba County, New Mexico, classified as an oil pool for Gallup-Dakota production, be and the same is hereby created and designated as the West Lindrith Gallup-Dakota Oil Pool. Said pool would comprise:

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM

SECTION 15: SE/4

SECTION 21: SE/4

SECTION 22: All

SECTION 27: All

SECTION 28: All

SECTION 32: BE/4

SECTION 33: All

SECTION 34: All

(e) Create a new pool in Sandoval County, New Mexico, classified as an oil pool for Mesaverde production, be and the same is hereby created and designated as the Parlay-Mesaverde Oil Pool. The discovery well is the Tesoro Petroleum Corporation Parlay Well No. 1, located in Unit H of Section 29, Township 22 North, Range 3 West, NMPM. Said pool would comprise:

TOWNSHIP 22 NORTH, RANGE 3 WEST, NMPM SECTION 29: N/2

(f) Create a new pool in San Juan County, New Mexico, classified as an oil pool for Gallup production, be and the same is hereby created and designated as the Rattlesnake-Gallup Oil Pool. The discovery well is the Navajo Well No. 23, located in Unit G of Section 2, Township 29 North, Range 19 West, NMPM. Said pool would comprise:

TOWNSHIP 29 NORTH, RANGE 19 WEST, NMPM SECTION 2: NE/4

(g) Create a new pool in San Juan County, New Mexico, classified as an oil pool for Dakota production, be and the same is hereby created and designated as the Snake Eyes-Dakota Oil Pool. The discovery well is the Davis Oil Co., Snake Eyes Well No. 1, located in Unit C of Section 20, Township 21 North, Range 8 West, NMPM. Said pool would comprise:

TOWNSHIP 21 NORTH, RANGE 8 WEST, NMPM SECTION 17: SW/4 SE/4 SECTION 20: N/2 and SW/4

(h) Create a new pool in San Juan County, New Mexico, classified as a gas pool for Pennsylvanian production, be and the same is hereby created and designated as the North Tocito Dome-Pennsylvanian Pool. The disgovery well is the Campbell, Kiel & Rothwell Navajo Tocito Well No. 1, located in Unit G of Section 9, Township 26 North, Range 18 West, NMPM. Said pool would comprise:

TOWNSHIP 26 NORTH, RANGE 18 WEST, NMPM SECTION 9: E/2 SECTION 10: SW/4

(i) .Create a new pool in San Juan County, New Mexico, classified as a gas pool for Pictured Cliffs production, be and the same is hereby created and designated as the Waw-Pictured Cliffs Pool. The discovery well is the Dugan Production Corp., Waw Well No. 1, located in Unit L of Section 32, Township 27 North, Range 13 West, NMPM. Said pool would comprise:

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM SECTION 32: SW/4

(j) Extend the Angels Peak-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 9 WEST, NMPM SECTION 17: E/2

(k) Extend the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 9 WEST, NMPM SECTION 31: SW/4

(1) Extend the Ballard-Pictured Cliffs Pool in Rio Arriba, San Juan and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 2 WEST, NMPM SECTION 6: SW/4

TOWNSHIP 22 NORTH, RANGE 3 WEST, NMPM SECTION 2: NE/4

TOWNSHIP 23 NORTH, RANGE 4 WEST, NMPM SECTION 24: SE/4

(m) Extend the Blanco-Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM SECTION 13: A11 SECTION 24: W/2

TOWNSHIP 29 NORTH, RANGE 10 WEST, NMPM SECTION 3: All SECTION 10: All

Examiner Hearing - February 16, 1972 -9-

(n) Extend the Blanco-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM SECTION 1: W/2

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM SECTION 25: NW/4

(0) Extend the South Blanco-Pictured Cliffs Pool in Rio Arriba and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 2 WEST, NMPM SECTION 16: SW/4
SECTION 17: SE/4
SECTION 20: N/2
LECTION 21: All
SECTION 28: NW/4

(p) Extend the BS Mesa-Gallup Pool in Rio Arriba County. New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 4 WEST, NMPM SECTION 3: N/2 SECTION 9: NE/4 SECTION 10: NW/4

(q) Extend the Choza Mesa-Pictured Cliffs Pool in Rio Arriba County. New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 3 WEST, NMPM SECTION 30: S/2

(r) Extend the Fulcher Kutz-Pictured Cliffs Pool in San Juan County, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM SECTION 6: NE/4

(s) Extend the Gallegos-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM SECTION 24: S/2

(t) Extend the Hogback-Dakota Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 16 WEST, NMPM SECTION 7: SW/4 SW/4 SECTION 18: NW/4 NW/4

(u) Extend the Kutz-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM SECTION 24: NW/4 SECTION 25: N/2

(v) Extend the Lone Pine-Dakota "D" Oil Pool in McKinley County, New Mexico, to include therein:

TOWNSHIP 17 NORTH, RANGE 8 WEST, NMPM

SECTION 7: S/2

SECTION 8: E/2 NW/4, N/2 SW/4 & SE/4 SW/4

SECTION 17: NE/4 NW/4

SECTION 18: E/2 SE/4

TOWNSHIP 17 NORTH, RANGE 9 WEST, NMPM SECTION 12: E/2 SE/4 SECTION 13: NE/4 NW/4 SECTION 24: E/2 NW/4

(w) Extend the Lybrook-Gallup Oil Pool in Rio Arriba, San Juan and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 23 NORTH, RANGE 6 WEST, NMPM SECTION 7: SW/4 & SE/4 NW/4 SECTION 18: W/2 SECTION 19: All SECTION 20: SW/4 SECTION 30: W/2 SECTION 31: NW/4 NW/4

TOWNSHIP 23 NORTH, RANGE 7 WEST, NMPM

SECTION 3: SW/4
SECTION 4: E/2 SE/4
SECTION 5: All
SECTION 13: All

SECTION 14: SE/4 & E/2 NE/4

(w) continued

TOWNSHIP 23 NORTH, RANGE 7 WEST, NMPM SECTION 22: NE/4 & NE/4 SE/4 SECTION 23: N/2 SECTION 24: NW/4 & NW/4 SW/4

TOWNSHIP 24 NORTH, RANGE 7 WEST, NMPM SECTION 29: SW/4 SECTION 32: W/2

(x) Extend the Otero-Chacra Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM SECTION 31: NW/4

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM

TOWNSHIP 25 NORTH, R
SECTION 3: W/2
SECTION 10: N/2
SECTION 11: NW/4
SECTION 35: N/2
SECTION 36: N/2

TOWNSHIP 25 NORTH, RANGE 6 WEST, NMPM

SECTION 1: All SECTION 3: N/2 SECTION 6: NE/4

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM SECTION 34: W/2

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM

SECTION 18: SW/4
SECTION 19: W/2 & SE/4
SECTION 20: SW/4
SECTION 26: SW/4
SECTION 28: All
SECTION 29: W/2
SECTION 30: All
SECTION 31: N/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM

SECTION 12: W/2

SECTION 13: N/2 & SE/4

Examiner Hearing - February 16, 1972 -12-

(y) Extend the Otero-Gallup Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 5 WEST, NMPM

SECTION 3: W/2

SECTION 4: All

SECTION 5: SE/4, S/2 NE/4 & NE/4 NE/4

SECTION 9: N/2 & E/2 SW/4

SECTION 10: NW/4 & SW/4 NE/4

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM SECTION 33: SE/4

(z) Extend the Pinon-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 12 WEST, NMPM

SECTION 13: SW/4

SECTION 14: SE/4

(aa) Extend the Slick Rock-Dakota Oil Pool in San Juan County to include therein:

TOWNSHIP 30 NORTH, RANGE 16 WEST, NMPM SECTION 31: W/2 SW/4 & SW/4 NW/4

TOWNSHIP 30 NORTH, RANGE 17 WEST, NMPM SECTION 36: NE/4 NE/4

(bb) Extend the Wild Horse-Gallup Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 3 WEST, NMPM SECTION 19: SW/4

TOWNSHIP 26 NORTH, RANGE 4 WEST, NMPM

SECTION 12: SW/4

SECTION 13: NW/4

SECTION 24: NW/4

Set a care for Texaco to show course in any a well should mad be repaired -



United States Department of the Internation

GEOLOGICAL SURVEY

OIL CONSERVATION COMM.

Drawer 1857 Roswell, New Mexico 88201

May 25, 1972

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mrs. Ida Rodriquez Secretary to the Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Ida:

The transcript we requested for Case 4660 dated February 16, 1972, is returned herewith.

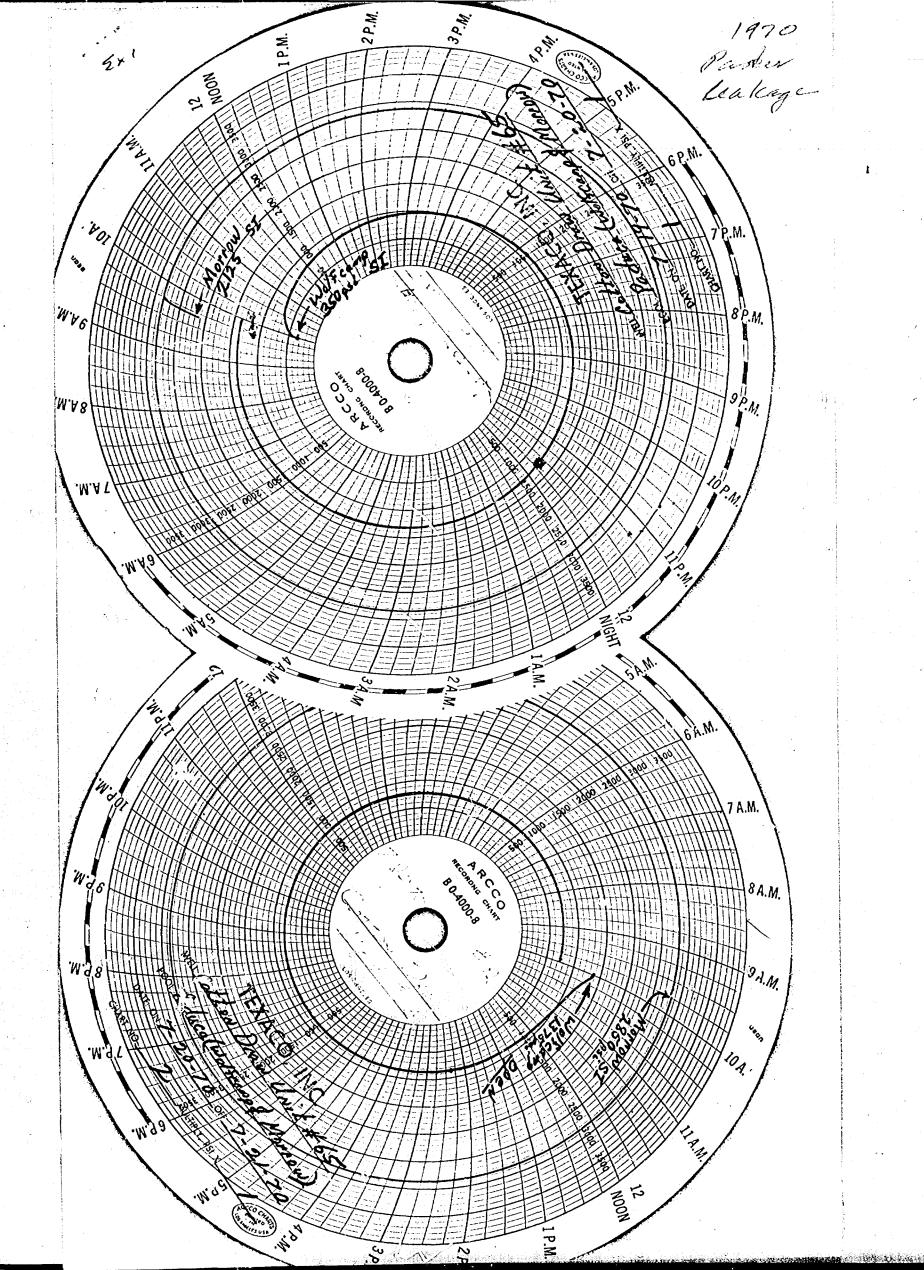
Thank you for your cooperation in making such transcript available to this office.

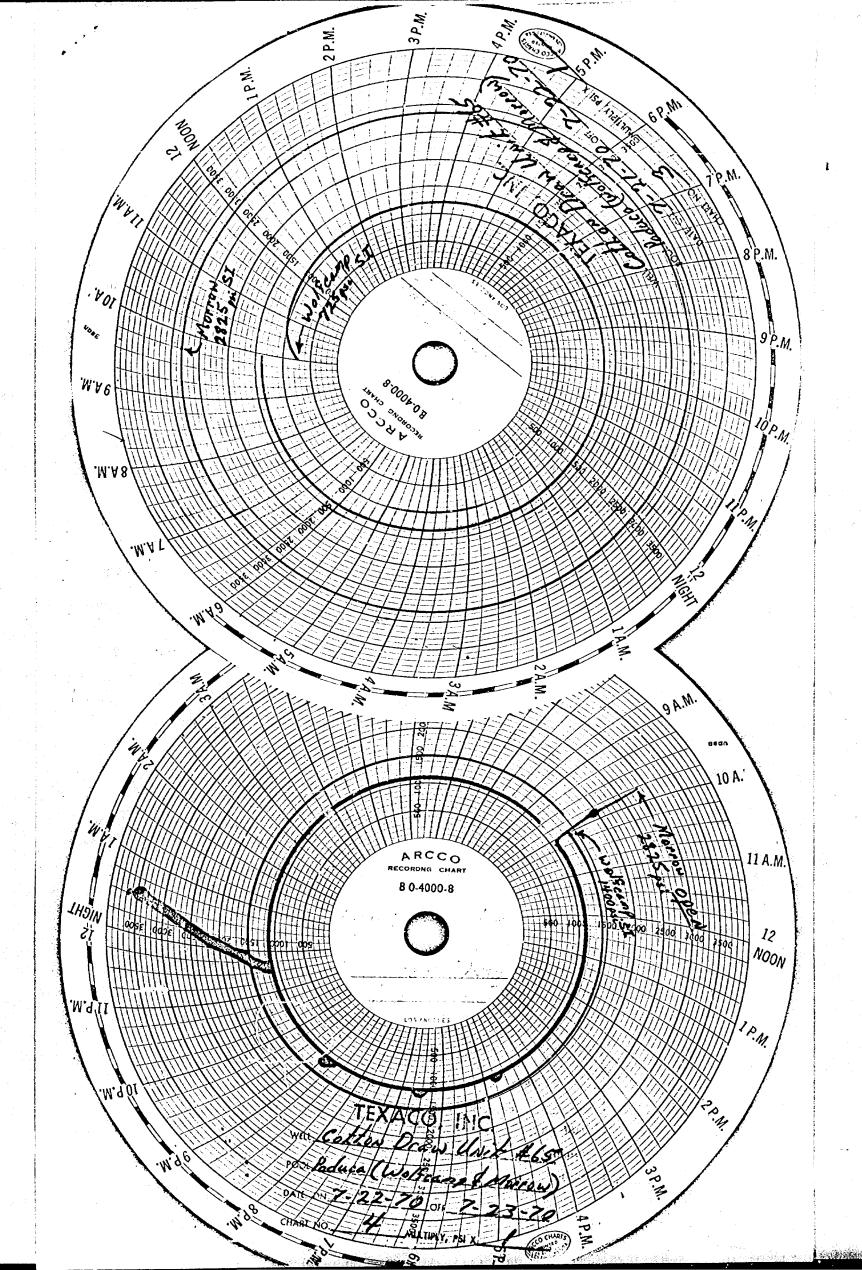
Sincerely yours,

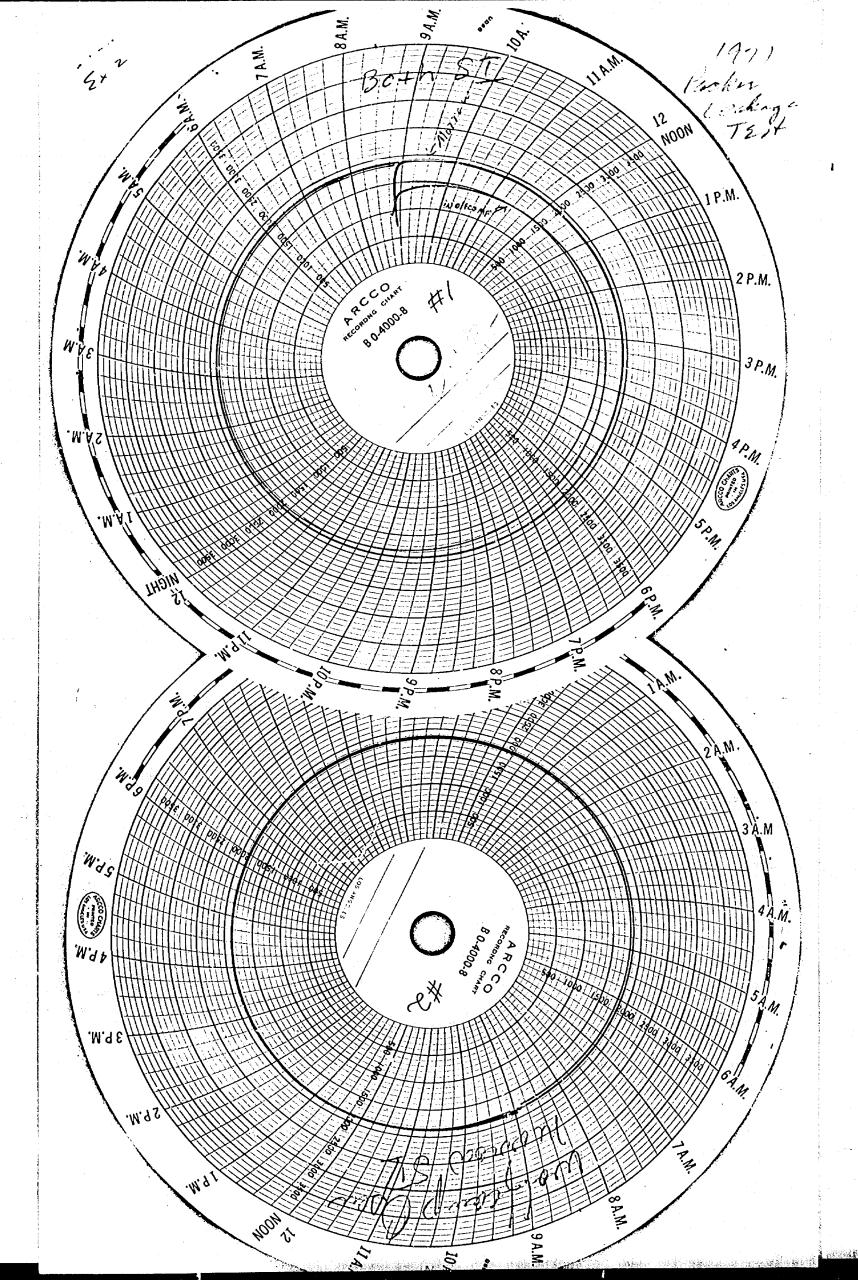
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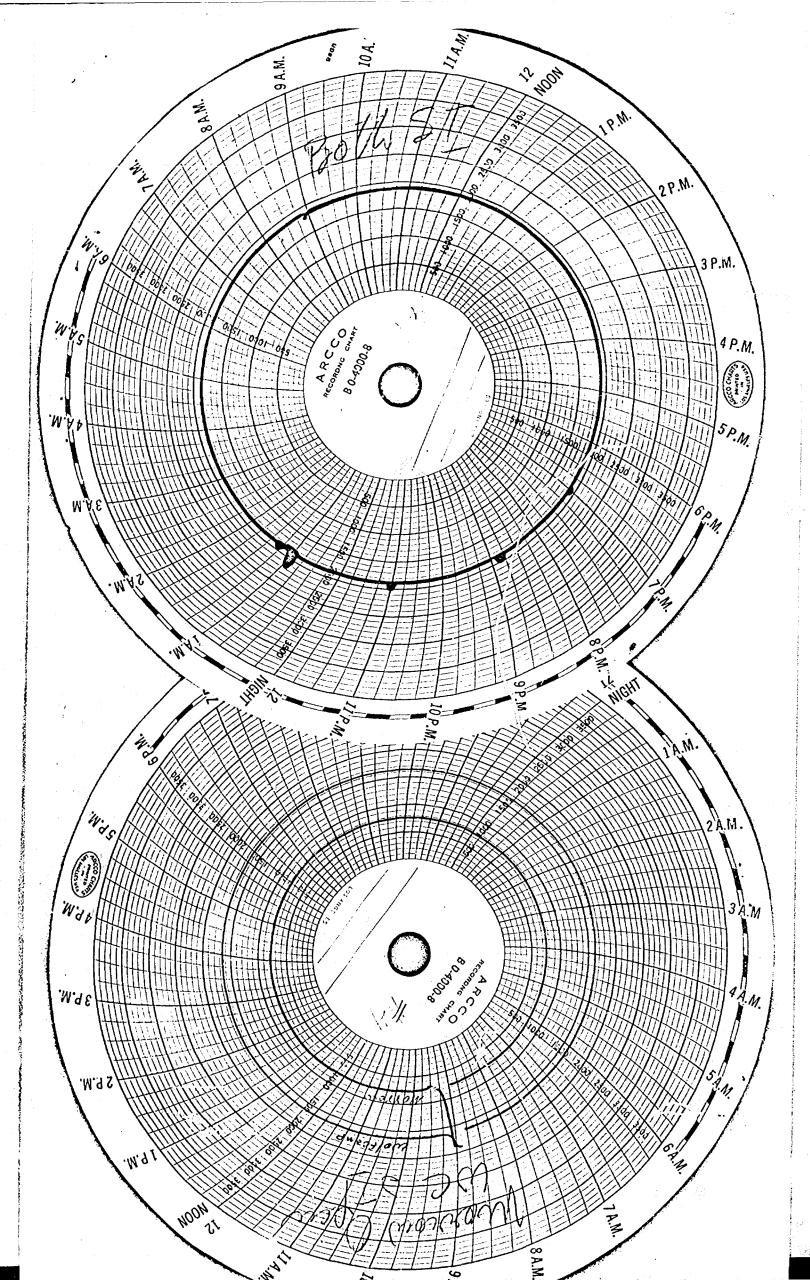
Regional Oil and Gas Supervisor

Oh M







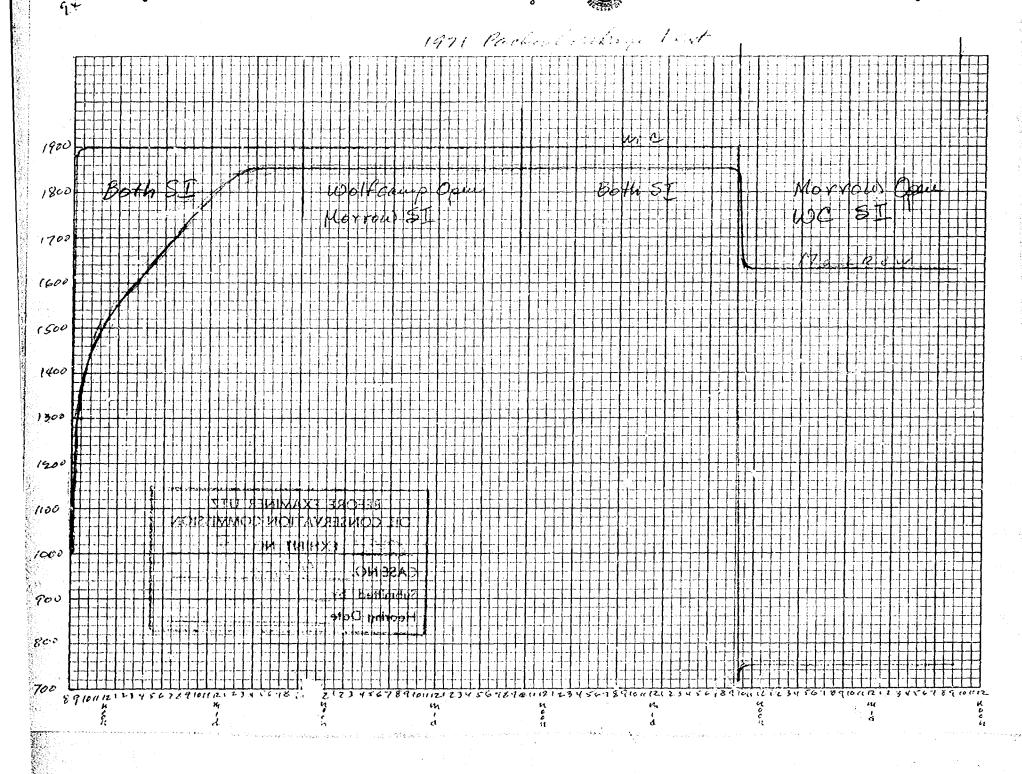


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NO. 31,283. 10 DIVISIONS FER INCH BOTH WAYS. 70 BY 100 DIVISIONS.

CODET BOOK COMPANY, INC. NORWOOD, MAPSACHUSET PRINTED IN U.S. &.



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION

OCC EXHIBIT NO. 3

CASE NO. 4660

Submitted by
Hearing Date

COTTON ORAW UNIT WELL NO. 65

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Source 1970: annual Statistical Report

NR = NOT REPORTED IN SOURCE MATERIAL

OIL COLGE V TION COMMISSI

OCC BIT NO. 44

CASE NO. 4660

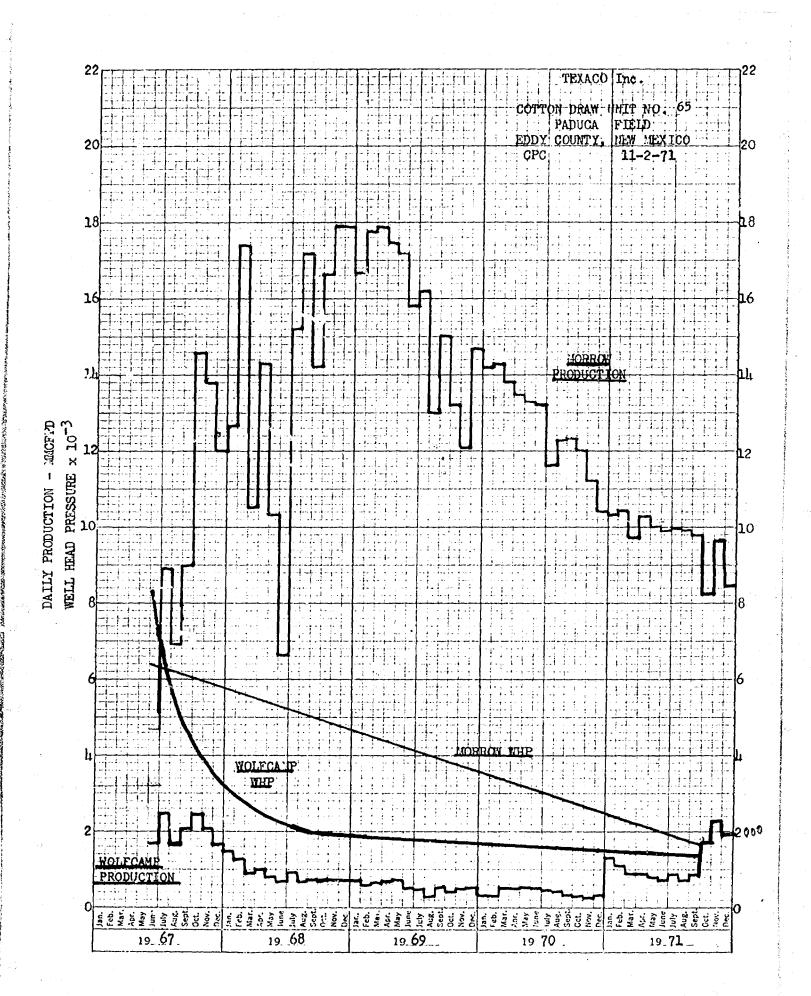
Submitted U ____

Hearing Date

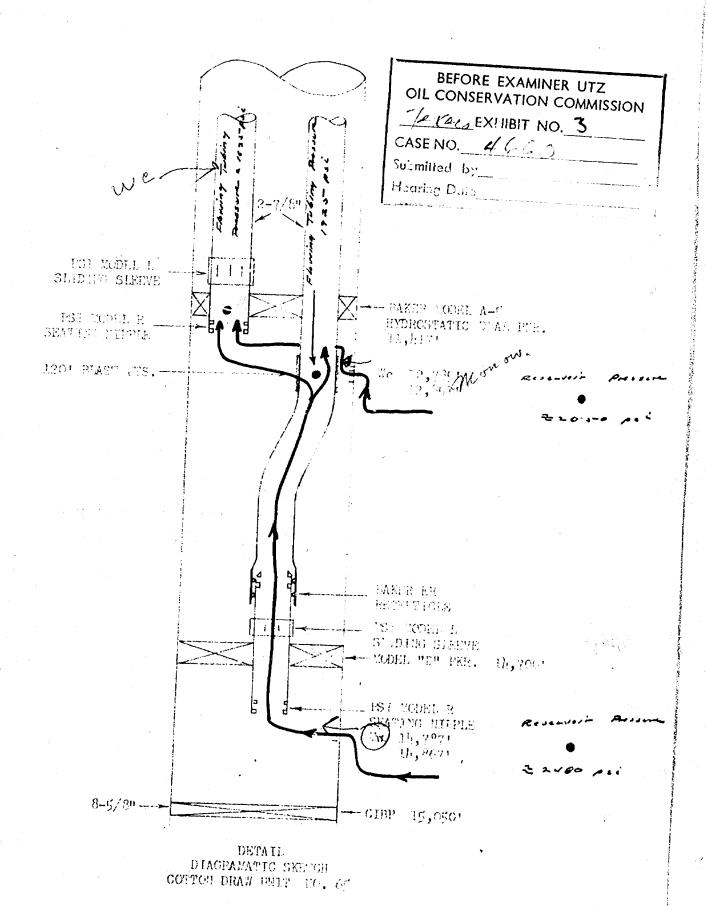
TO THE PERSON NAMED IN THE (Photos Pat 1/2) 2×5 0 TE . ACO INC 108742 Proley Pol V • 04320 Intelley Pol V Mary C (2) **①** TEXACO IN 6 1/2 Pouley Put Inc 1/2 LC 062664 Pauloy Pol Inc 1/2 LC 082854 Mumbie 3 & # MM 083807 186452 186452 **(** (1) 6 us. Poutry Pot toe 1/E 108 0807 TEXACO Inc. I/2 Pactsy Pol. Inc. I/2 HM 0507 186455 TEXACOING 1/2 Agrical Symples Paulay Pat. No. 1/2 NM 0507 186453 TEXACO Inc. U2| Pouley Pol.Inc. U2| IMM 085750 (0) 186484 (0)23 T 24 S TEXACG Inc. 1/2 Pauley Put Inc. 1/2 NM 0607 A 192740 **(2) 1** Submitted ### ACO Inc. 1/2 ITEXACO | TEXACO | Pauloy Pai, Inc. 1/2 | Inc. 1/ TEXACO INC. I/E Numbie 0 8 TEXACO IFS UZ Peuley Pet Inc 1/2 NM 012121 BEFORE EXAMIN Z 184452 186453 186456 ьy / EXHIBIT EXAMINER NO. 13 1 0 **(?)** 0 COMMISSION U \$. U.S. TEXACO INC 1/2 Humble O 6 TEXACO incl/2 Pauley Per inc. V2 E 9127-3 ZTU Pauley Petinc NM 037480 1/2 TEXACO Inc. 1/2 TEXACO Inc. 1/2
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Limbo 034379 **(** Ø 0 0 State Pauley 1/2 5 TEXACO 1/2 TEXACO Me 1/2 Pouley Pol Me 1/2 LC 06:563 A TEXACO Inc. 1/2 Pauley Pat Inc.1/2 NM 0503 23024745 H 4002 6 2 EXACO TEXAS inc 1/2 | Inc 1/2 outey Pel Postey Inc 1/2 | Inc 192742 186460 明果此 (3) **(1)** 92742 TENACON VE suley Poths VE LC 0618634 Powley Pot Inc 1/2 NA 0803 TEXACO Inc. V2 Pouley Pol Inc S/R INM 04262 0 TEXACO No 1/2 Pouley Pol Inc 1/2 NM 0503 TENACO IG TEXACO No I/P Pouley Pol Inole LC 001862 Poulcy Pot 194 II2 LC 061 878 230433 0 0 () <u>/</u> 0 T 25 S Pauley Per 18 TEXACO INSIS 166460 186460 (1) TEXACO INAL/E TEXACO INAL/E Pouley Pol Ino L/E Pouley Pol Init/ NM 0808 LC 061868 TEXACO INC VR Powley Pot Mc 1/R LC 061868 192743 LC 081873 A 0503 (A) TEXACO . VI NM 0503 13 186464 107463 TEXACO INC 1/2

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	SEFORE EXAMINER UTZ
OIL	ONSERVATION COMMISSION
Ter	MU EXHIBIT NO. 2
CASE	NO. 4660
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COMPLETION DATA

CITIES SERVICE OIL COMPANY SOUTH CARLSBAD (MORROW) POOL

	Daill S	ten Test	Compli	tion	Percent of
Well	Pressure (psig)	Rate (MHCF/D)	Pressure (paig)	Rate (MMCF/D)	fred earn (8)
Spencer 'A' No. 1	3525	7.849	3485	4.082	48.1
Herland B' No. 1	2400	5.34	2433	2、540	52.4
Strackbein 'A' No. 1	3200	4.7	2305	2.512	48.8

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GMH/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. 4660

Order No. R-4295

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION ON ITS OWN MOTION TO PERMIT TEXACO INC. TO APPEAR AND SHOW CAUSE WHY IT SHOULD NOT TAKE IMMEDIATE ACTION TO REPAIR ITS COTTON DRAW UNIT WELL NO. 65, A DUAL COMPLETION, LOCATED IN UNIT G OF SECTION 2, TOWNSHIP 25 SOUTH, RANGE 31 EAST, EDDY COUNTY, NEW MEXICO, IN SUCH A MANNER AS TO PREVENT COMMUNICATION BETWEEN THE PADUCA-MORROW AND PADUCA-WOLFGAMP GASTHEOGOMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 16 at Santa Fe, New Mexico, before Examiner __ Elvis A. Utz

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

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That Texaco, Inc., is the operator of the Cotton Draw Unit Well No. 65, located in Unit G of Section 2, Township 25 South, Range 31 East, NMPM, Eddy County, New Mexico.

-2-CASE NO. 4660 Order No. R-

- (3) That the subject well was completed as a dual completion (conventional) to produce gas from the Paduca-Wolfcamp and Paduca-Morrow Gas Pools through parallel strings of 2 7/8-inch tubing, with separation of zones by a packer set at approximately 14,700 feet, as authorized by Commission Order No. R-3266.
- (4) That due to some mechanical failure in the well-bore of the subject well, the two zones are being commingled in the well-bore and the two zones are not being produced as separate common sources of Supply.
- (5) That waste will occur and correlative rights will not be adequately rotected if the subject well is continued to be produced in its present condition.
- (6) That in order to prevent waste and protect correlative rights, the subject well should be repaired in such a manner as to prevent communication within the well-bore of the subject zones.

IT IS THEREFORE ORDERED:

- (1) That Texaco Inc. is hereby ordered to commence within 30 days from the date of this order such remedial action as is necessary to prevent communication between the Paduca-Wolfcamp and Paduca-Morrow Gas Pools in the well-bore of its Cotton Draw Unit Well No. 65, located in Unit G of Section 2, Township 25 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (2) That jurisdiction of this cause is retained for the entry of such firther orders as the Commission may deem necessary.

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