CASE 5777: GIFFORD & MITCHELL & M. B. WISENBAKER FOR POOL CREATION,
POOL RULES A NON-STANDARD GAS
POOL RULES A NON-STANDARD GAS

Application,

Transcripts, 5 mall EXhibts

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico October 27, 1976

#### EXAMINER HEARING

IN THE MATTER OF:

Application of Gifford & Mitchell and () M. B. Wisenbaker for pool creation, pool) rules and a non-standard gas spacing ) unit, Lea County, New Mexico.

CAŠE 5777 (Readvertised

BEFORE: Daniel S. Nutter, Examiner

#### TRANSCRIPT OF HEARING

#### PPEARANCES

For the New Mexico Oil Conservation Commission: Lýnn Teschendorf, Esq. Legal Counsel for the Commission State Land Office Building Santa Fe, New Mexico

For the Applicant:

Jason W. Kellahin, Esq. KELLAHIN & FOX Attorneys at Law 500 Don Gaspar Santa Fe, New Mexico

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MR. NUTTER: We will call Case Number 5777.

MS. TESCHENDORF: Case 5777, application of Gifford & Mitchell and M. B. Wisenbaker for pool creation, pool rules and a non-standard gas spacing unit, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason Kellahin Kellahin and Fox, appearing for the applicant.

This case was heard at the previous Examiner Hearing but because of the deviation of the testimony from the advertised case it has been readvertised for hearing at this time.

MR. NUTTER: I believe the record will reflect that the original advertisment of the case was for the Atoka formation and it has now been broadened to the entire Pennsylvanian formation.

Are there any appearances to be made in Caso Number 5777, other than Mr. Kellahin's? If not, we will take the case under advisement and the hearing is adjourned.

(THEREUPON, the hearing was adjourned.)

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#### REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

i do hereby certify that the foregoing is a complete record of the proceedings the Examiner hearing

Mexico Oil Conservation Commission



#### OIL CONSERVATION COMMISSION

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

DIRECTOR JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO
Rovember 4, 1976



STATE GEOLOGIST EMERY C. ARNOLD

Mr. Jason Kellanin Kellahin & Yox	ORDE	R NO. R-33	TO
Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico	App1	icant:	
		fford & Mit B. Wisenba	
Dear Sir:		· (*)	
Enclosed herewith are t Commission order recent			
Yours very truly,			
Joe Hetney			ing the second
Director		÷ .	
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JDR/fd			,
Copy of order also sent	to:	•	
Hobbs OCC X			
Artesia OCC X Aztec OCC			
Other			

Re: CASE NO.

#### 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. 5777 Order No. R-5316

NOMENCLATURE

APPLICATION OF GIFFORD & MITCHELL AND M. B. WISENBAKER FOR POOL CREATION, POOL RULES, AND A NON-STANDARD GAS SPACING UNIT, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 27, 1976, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 4th day of November, 1976, 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, Gifford & Mitchell and M. B. Wisenbaker, seeks the creation of a new gas pool for Pennsylvanian production in Lea County, New Mexico, and the promulgation of special rules and regulations governing said pool, including a provision for 640-acre spacing and proration units.
- (3) That said pool offsets a commercial gas pool for Pennsylvanian production which applicant has discovered by a well drilled in Section 13, Public School Land Block C-23, Winkler County, Texas.
- (4) That the Texas Railroad Commission has adopted rules for the aforesaid pool providing for 640-acre spacing and proration units.
- (5) 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

-2-Case No. 5777 Order No. R-5316

correlative rights, temporary special rules and regulations providing for 640-acre spacing units should be promulgated for the Horse Back-Pennsylvanian Gas Pool.

- (6) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (7) That special rules and regulations should be established for a temporary period to expire one year from the date that a pipeline connection is first obtained for a well in the pool; that during this temporary period all operators in the subject pool should gather all available information relative to drainage and recoverable reserves.
- (6) That this case should be reopened at an examiner hearing one year from the date that a pipeline connection is first obtained for a well in the Horse Back-Pennsylvanian Gas Pool, at which time the operators in the subject pool should appear and show cause why the Horse Back-Pennsylvanian Gas Pool should not be developed on 320-acre spacing units.
- (9) That the first operator to obtain a pipeline connection for a well in the Horse Back-Pennsylvanian Gas Pool should notify the Commission in writing of such fact, and that the Commission should thereupon issue a supplemental order designating an exact date for reopening this case.
- (10) That applicant further seeks approval for a 589.52acre non-standard gas spacing and proration unit comprising all
  of partial Sections 33 and 34, Township 26 South, Range 36 East,
  NMPM, Lea County, New Mexico, to be dedicated to applicant's
  Horse Back Well No. 1, located 1000 feet from the South line and
  1980 feet from the East line of said Section 33.
- (11) That approval of said non-standard unit will not impair correlative rights nor cause waste.

#### IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as a gas pool for Pennsylvanian production, is hereby created and designated the Horse Back-Pennsylvanian Gas Pool, comprising the following described area:

#### LEA COUNTY, NEW MEXICO TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM Sections 33 and 34: All

(2) That temporary Special Rules and Regulations for the Horse Back-Pennsylvanian Gas Pool, Lea County, New Mexico, are hereby promulgated as follows:

-3-Case No. 5777 Order No. R-5316

### SPECIAL RULES AND REGULATIONS FOR THE HORSE BACK-PENNSYLVANIAN GAS POOL

- RULE 1. Each well completed or recompleted in the Horse Back-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof, and not nearer to or within the limits of another designated Pennsylvanian gaz pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well shall be located on a standard unit containing 640 acres, more or less, consisting of a governmental section.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 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 quarterquarter sections or lots that are contiguous by a common bordering side.
  - (b) The non-standard unit lies wholly within a governmental 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 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 4. Each well shall be located no nearer than 1650 feet to the outer boundary of the section and no nearer than 330 feet to any governmental quarter-quarter section line.

-4-Case No. 5777 Order No. R-5316

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proration unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proration unit or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

#### IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the Horse Back-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before December 1, 1976.
- (2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the Horse Back-Pennsylvanian Gas Pool shall have dedicated thereto 640 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 640 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 Horse Back-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

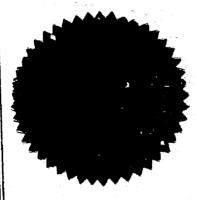
- (3) That this case shall be reopened at an examiner hearing one year from the date that a pipeline connection is first obtained for a well in the Horse Back-Pennsylvanian Gas Pool, at which time the operators in the subject pool may appear and show cause why the Horse Back-Pennsylvanian Gas Pool should not be developed on 320-acre spacing units.
- (4) That the first operator to obtain a pipeline connection for a well in the Horse Back-Pennsylvanian Gas Pool shall notify the Commission in writing of such fact, and that the Commission will thereupon issue a supplemental order designating an exact date for reopening this case.

-5-Case No. 5777 Order No. R-5316

- (5) That a 589.52-acre non-standard gas spacing and proration unit comprising all of partial Sections 33 and 34, Township 26 South, Range 36 East, NMPM, Lea County, New Mexico, is hereby approved, said unit to be dedicated to applicant's Horse Back well No. 1, located 1000 feet from the South line and 1980 feet from the East line of said Section 33.
- (6) 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



PHIL R. LUCZEO, Chairman

EMERY O. ARNOLD Member

JOE D. RAMEY, Member & Secretary

SEAL

### Memo "/

D. S. NUTTER

To Care 5777

Chas aldridge, midland ally for Sufford and mitches called and said that today the RR Comments on Toyar entered an arder in Dooket & 8.66522 creating the Commander-Marray gas pool, adopting 1320-3735' spacing, 640-acreaints, wo 10% tolerance and straight acreage allocation.

#

C W Trainer

Dave Trainer

9205 Hwy. 71 West - Austin, Texas 78746 - 512-288-2613 or 288-0277

October 26, 1976

New Mexico Oil Conservation Commission Box 2088 Santa Fe, N.M. 87501

Gentlemen:

Enclosed is your transcript of hearing for Case # 5777.

Thanks a million for the loan.

Sincerely

C W Trainer

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Santa Fe

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MR. NUTTER: We will call Case Number 5777.

MR. CARR: Case 5777, application of Gifford &

Mitchell and M. B. Wisenbaker for pool creation, pool rules

and a non-standard gas spacing unit, Lea County, New Mexico.

MR. KELLAHIN: Tom Kellahin of Kellahin and Fox

appearing on behalf of the applicant and I have one witness

(THEREUPON, the witness was duly sworn.)

#### JOE GIFFORD

called as a witness, having been first duly sworn, was examined and testified as follows:

#### DIRECT EXAMINATION

#### BY MR. KELLAHIN:

to be sworn.

- Q Would you please state your name and occupation?
- A. My name is Joe Gifford, I'm a partner in Gifford & Mitchell, Midland, Texas.
- Q Mr. Gifford, have you previously testified before this Commission?
  - A. No, I haven't.
- Would you describe briefly for the benefit of the
   Examiner your professional and educational background?
- A. I'm a graduate of the University of Nebraska in 1952 with a Bachelor of Science, majoring in geology and then

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# have you been employed? A. I was employed by Sinclair Oil and Gas Company and became the Chief Geologist for Sinclair Mediterranean Oil

a year of graduate work from '54 to '55.

Company in Paris, France, followed by a District Manager's job in Midland, Texas for Sinclair and then a partner with Bill Roden in Roden Oil Company and then an independent.

Subsequent to your graduation, Mr. Gifford, where

- Q When did you leave Sinclair?
- A. I left Sinclair in 1966.
- Q When did you form your current partnership with Mitchell and Wisenbaker?
  - A That was in 1969.
- Q Have you made a professional study of the facts surrounding the particular application in question?
  - A. Yes, I have.

MR. KELLAHIN: If the Examiner please, are the witness' qualifications acceptable?

MR. NUTTER: Yes, they are.

- Q (Mr. Kellahin continuing.) Would you please go to what has been marked Exhibit Number One, identify it and explain what you are seeking to accomplish?
- A. I have three maps on this montage and a cross section and I point out the location of Horseback Well is right on the Lea County-Winkler County line and I have it marked with a

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red arrow. There are also three fields noted here, the Crittenden Field, the Cheyenne Field and the Comanche Field which we discovered with our No. 1 Comanche Unit Well.

To the left is a land plat showing the Comanche Unit in Texas, it's a four-section unit. It was a beneficial working interest unit.

MR. NUTTER: And it is outlined in yellow?

In yellow, correct, and this was the Comanche Unit Well in Section 13 and the proposed well is approximately one mile north-northwest, lying in Section 33 cf-26, 37.

This is a structure map on the Devonian horizon which shows the proposed Horseback Well and its relationship to our Comanche Unit Well, as well as the relationship to the Crittenden Field and I am going to refer to that because that is on the cross section here. We have prepared a cross section running from A to A Prime and we just randomly put these wells in here but the reason they are put in the way they are is to show the distribution of the sand that is now producing in the Crittenden Field in Texas.

- (Mr. Kellahin continuing.) Why have you chosen a Devonian structure map?
- The Morrow -- well, in fact, the Pennsylvanian conforms very, very closely to the Devonian in this area. You have no major unconformities, no radical changes in thickness and so the Morrow structure will conform very closely.

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The map that I have presented here is a modification of a commercial structure map, it's called Structure Maps, Incorporated, that we subscribe to and it simply shows how the Horseback will relate to the regional structural geology.

- You are seeking to accomplish what type of spacing for the creation of this pool?
- We would like to space it on a six, forty acre proration unit.
  - For what formation?
  - For the Pennsylvanian.
  - The entire Pennsylvanian?
  - Yes.

MR. KELLAHIN: If the Examiner please, the application does request that the spacing rules apply to the Pennsylvanian and Devonian formations. It indicates that it is to be principally an Atoka test and perhaps that was the reason that the advertisement simply refers to Atoka production. We would like to present our testimony this morning with regards to the entire Pennsylvanian and perhaps have the advertisement re-issued and the order entered after re-advertisement.

MR. NUTTER: Because you feel that there may be production in other horizones in the Pennsylvanian formation besides the Atoka?

MR. KELLAHIN: That is correct. We believe that there may be production in the Morrow.

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- (Mr. Kellahin continuing.) While I have you on this point, Mr. Gifford, would you locate the non-standard proration unit that will be dedicated to the subject well?
- It would be the Section 33 and 34 which are half sections. They make up about five hundred and eighty-nine point something acres, as I recall.
- Q Okay. In order to form the proration unit it will be necessary to take portions of both of those sections and combine them, is that correct?
  - That's correct.
- By doing this will you be avoiding further nonstandard proration units in the area?
  - That is correct. A.

MR. NUTTER: Mr. Kellahin, you said take "portions" of those sections, you would take all of those section?

MR. KELLAHIN: All of them.

MR. NUTTER: All of those fractional sections?

MR. KELLAHIN: Exactly right.

(Mr. Kellahin continuing.) Please continue with Q. your cross section?

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- twelve thousand pounds.
  - Is this well currently producing out of the Atoka?
- No, it's not and it was not tested out of the Atoka. The Atoka in this well appears to be -- it's borderline, it's possibly wet. It has fifty-eight percent water saturation from our logs.
  - Q What is your next well in your cross section?
  - The next well over is back in the Crittenden which is right here. It is one of the producers on the east edge of the Crittenden Field. It's the No. 1 Tubb State Unit 22.

MR. NUTTER: What is the location of that well, Mr.

Gifford? 20

- Okay, that is in Section 22 of Block C-23.
- MR. NUTTER: And it is southwest of your proposed location.
  - It is southwest of our proposed location approximately three miles.

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The Crittenden Field is producing from the Atoka which is at the top of the cross section.

Q. (Mr. Kellahin continuing.) What is the spacing in the Crittenden Field?

A. It is on six forties. It has presently five Atoka producers and one Ellenberger producer.

I have marked the Atoka producing horizon in all of the wells that I have on the cross section. The thing I want to point out is that from sample examination and electric log examination, the Atoka sand and the Morrow sand are very similar, they are both a very poorly sorted coarse-grained sand apparently laid down in almost the same environment.

The Atoka which we will point out in a later exhibit has shown excellent communication between wells.

- Q. What was the original pressure in the Atoka?
- A. The original pressure in the Atoka was approximately twelve thousand pounds.
  - Q. What structure did you hang those cross sections on?
- A. We hung it on a marker within the Atoka that is fairly consistent throughout the area. It's a marker that we can map on, everything else is very stratigraphic and there is not a good time marker within the Pennsylvanian and that is hung right here on this level.

We show the presence, and we feel this is important, the Morrow sand in the three wells that are on the east flank

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of the Crittenden Field. That would be these three wells here, the No.1-8 Tubb State which is in Section 8 of Block 74, the well, it's the Tubb Unit No. 9 in Section 9 of Block 74.

They have the Morrow sand present but the wells were drilled down to a lower level but were completed back up in the Atoka formation. It is recognized that this is a zone that they will go back to at a later date and it shows that this sand body is present in a swath running up through here like this. Of course, this is the sand in our Comanche Unit Well, so we real like the sand body like the Atoka in the Crittenden Field is fairly extensive in its areal extent.

MR. NUTTER: Mr. Gifford, when you say "in a swath running up here like this" you mean from the Crittenden area northeast up towards your proposed location, is that correct?

- A. That is correct.
- Q (Mr. Kellahin continuing.) In your opinion is there any communication in the Atoka among these wells?
- A Yes, definitely there is communication. We can show that on our pressure data from the Dwight gas sheets that we have presented. The bottom-hole pressures are exactly the same in the Atoka in all of the producing wells in the Crittenden Field.
  - A Ho. do you propose to produce your subject well?
  - Me are going to complete in the Morrow, the reason

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being that there has been a pressure draw down in the Atoka and the pressures here are still virgin at twelve thousand pounds where pressures back up in the Atoka will be considerably less than that and it would be difficult for us to dually complete this well at this time. We would propose to go ahead and complete in the Morrow and if we are high enough and above water in the Atoka to possibly drill another separate well to the Atoka.

MR. NUTTER: Mr. Gifford, why would the pressures be lower in the Atoka, is it a natural reservoir function or is it because of drainage from the Crittenden to the southwest?

A. Well, of course, we don't know for sure what the pressures are here but when we drilled through this formation we did not encounter any excessive pressures. Our mud weight was up, it's hard for us to say for sure what the pressure is. I think that we are still quite a bit above the Crittenden Field pressures but I'm sure that there has been some draw down.

MR. NUTTER: And you feel that the differential of pressures between the Atoka and the Morrow would be such as to make a dual completion undesirable?

A. Probably not desirable, now, if it is we might try to dually complete it but we will as we go down, we will probably test this to determine what the pressures are and whether we can dually complete it.

sid morrish reporting service

General Court Reporting Service
25 Calle Mejla, No. 122, San'a Fe, New Mexico 87501
Phone (505) 982-9212

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Q.	(Mr.	Kellahir	ı co	ntinui	ng.)	Do	you have any	
additional	info	ormation	you	would	like	to	highlight on	Exhibi
Number One	?				Ī			

A That's about all I have, if there are any questions

MR. NUTTER: We might as well while we are on this

exhibit, Mr. Gifford.

#### CROSS EXAMINATION

#### BY MR. NUTTER:

- As I understand it, your proposed well is being projected to the Morrow and you will test the Atoka on the way down?
- A. It's projected to the Fusselman but we will be testing those horizons as we go down if the pressure permits.
- Q As far as the Pennsylvanian is concerned the Morrow is the A-one target?
  - A It is the main objective, correct.
- Q And you will test the Atoka. Now, the offsetting well to the south encountered a high saturation of water in the Atoka formation?
  - A. That is correct.
  - Q But the permeability and porosity were there?
  - A. That is correct.
- Q And apparently your proposed location is somewhat higher structurally than the Comanche?

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A.	The	Comanche,	yes.
		,	

- O. The Comanche Unit Well?
- A. We are hoping that it will be and that is the reason we are moving that direction, we think we will get somewhat higher.
- Q And the Comanche Unit Well did produce from the Morrow formation, it's completed in the Morrow for thirty-six point one million?
  - A. Yes, sir, that's correct.
- Q Now, the Crittenden Field is mainly an Atoka Field, is that it?
  - A. That is correct.
- Q And the Morrow sands are present but not very well developed but later on those wells will be recompleted in the Morrow?
- A. They will. The No. 1 Wolf Unit was actually completed or tested a Morrow sand that was productive. None of the other wells have actually tested that Morrow but after log analysis and after having seen what our well has done the Sinclair geologists have indicated that at some point they will go back in and recomplete in the Morrow formation.
- Q Now, you mentioned that the Railroad Commission had established six hundred and forty acre spacing in Crittenden Field, that is for the Atoka formation?
  - A. That is for the Atoka.

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and forty acre spacing?

- Q And this was on which well?
- A. It was on the Comanche Unit.
- Q And Exhibit Number Four?
- A. It's the Railroad Commission of Texas Form P-7 which is an application for discovery allowable in a new field designation.

In your opinion, Mr. Gifford, is it economical to

drill this type of well at this cost on less than six hundred

- Q Exhibit Number Five?
- A. This is an analysis of the gas from the No. 1 Comanche Unit.
  - O Okay. And Exhibit Number Six?
- A. These are the production figures from the commercial service, Dwights, which shows, and I have underlined in red the bottom-hole pressures in the producing wells in the Crittenden Field from the Atoka. The pressures are all at around a five thousand, twenty-five pound bottom-hole pressure

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at the present time. There are two of the wells that are making water at the present time that have not had a bottom-hol pressure taken in the last two or three years.

- Q. Which are those two?
- A. Those are the Tubb Unit 23 and the Tubb Unit 22.
- Q. Exhibit Number Seven?
- A. This is a Notice of Hearing from the Railroad

  Commission on the application of Gifford, Mitchell and

  Wisenbaker for the adoption of temporary field rules for the

  Comanche Morrow Field in Winkler County, Texas.
- Q. In your opinion, Mr. Gifford, will a well located at this particular location be able to economically and efficiently drain a six hundred and forty acre spacing proration unit?
  - A. Yes.
- Q In your opinion will the granting of this application be in the best interests of conservation, the prevention of waste and the protection of correlative rights?
  - A. Yes.
- Q. Were Exhibits One through Seven either prepared by you directly or compiled under your direction and supervision?
  - A. Yes, they were.

MR. KELLAHIN: We move the introduction of Exhibits One through Seven.

MR. NUTTER: Applicant's Exhibits One through Seven

will be admitted into evidence.

(THEREUPON, Applicant's Exhibits One through Seven were admitted into evidence.)

MR. KELLAHIN: That concludes our direct examination, Mr. Nutter.

#### CRUSS EXAMINATION

BY MR. NUTTER:

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Mr. Gifford, this Exhibit Number Two is your AFE for the well, two point four million dollars, this is the estimate of taking a well to the Fusselman, is that correct?

- A. Yes, that is correct.
- Q Okay, what would be an estimate for drilling a well to the Morrow formation?
- A. It's one million, one hundred and sixty-three thousand dollars to go to the Morrow only.
- Now, in response to a question from Mr. Kellahin
  you said that you didn't believe drilling two point four
  million dollar wells was economical on three hundred and twenty
  acre spacing, what about one point one million dollars?
- A. Well, we still feel that that would be economically unfeasible at that price.
- Q. Now, Exhibit Number Six is a computation of production and cumulative production from some wells. Now, those are the wells that are in the Atoka formation in the Crittenden

Mhat has been the cumulative recovery to date on some of these wells?

A. The cumulative production has been in the twenty billion cubic feet range of the older wells. Now, they're projected to approximately thirty billion cubic feet per well

That is correct.

area, is that correct?

out of the Atoka.

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#### Q On six hundred and forty acres?

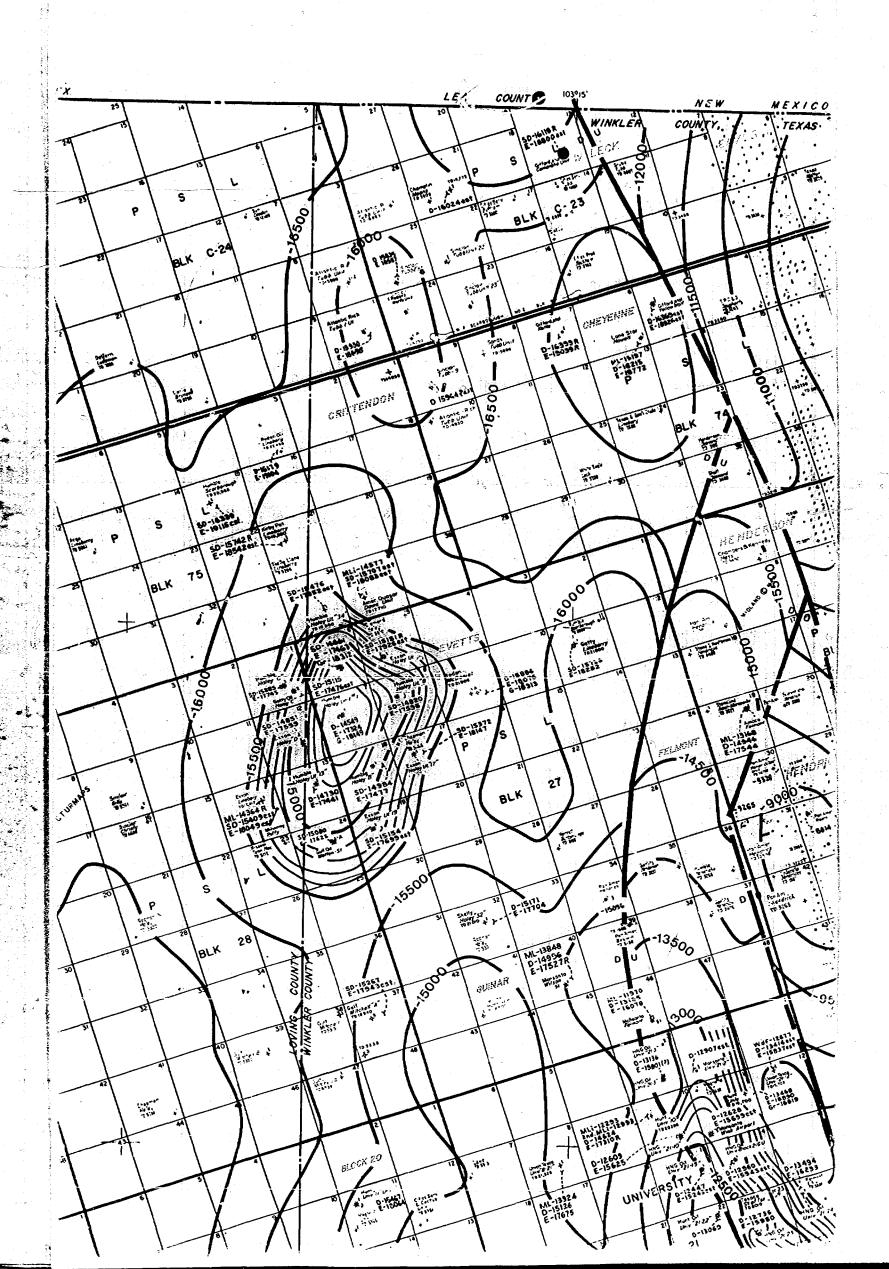
- A. On six hundred and forty acres.
- Now, I guess the cumulative production on each of these pages in this exhibit that are underlined is the figure that is underlined in black?
  - A In black, that is correct.
  - and that's to April of 1976, I think?
  - A. That's correct.
- Now, what is the significance of the figure that is underlined in orange?
- A. That is the present bottom-hole pressure in the wells that the pressure has been able to have been taken in the past six months.
  - Q. And it's in the neighborhood of five thousand pounds?
  - A. A little over five thousand pounds in each case.
  - Q. And is the pressure similar for each of the wells?
  - A. Yes, it is.

# sid morrish reporting service General Court Reporting Service 825 Calle Meils, No. 122, Santa Fr., New Mexico 87501 Phone (505) 982-9212

ESTATE OF THE CENTER OF

	Page 19
1	Q. Indicating that there is
2	A. That there is communication.
3	Q. That communication exists between the six hundred
4	and forty acre spaced wells?
5	A. Yes.
<b>. 6</b>	Q And the original pressure was in what magnitude?
7	A. The original pressure was in the magnitude of eleven
8	thousand, five hundred to twelve thousand pounds.
9	Q I see. Is this gas classified as a sweet or a
10	sour gas, Mr. Gifford?
11	A. It's a sweet gas: It will carry an estimated fifteen
12	barrels of condensate per million and it has a BTU rating of
13	I think it's one thousand, seventy or something in that
14	neighborhood.
15	Q. And hydrogen sulfide is not a big problem?
	A. No problem here at all.
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17	MR. NUTTER: Are there any further questions of
18	Mr. Gifford?
19	MR. KELLAHIN: No, sir.
20	MR. NUTTER: He may be excused.
21	(THEREUPON) the witness was excused.)
22	MR. NUTTER: Do you have anything further, Mr. Kellahin?
23	MR. KELLAHİN: No, sir.
24	MR. NUTTER: Does anyone have anything they wish to
25	offer in Case 5777? We will take the case under advisement.

	Page 20
1	REPORTER'S CERTIFICATE
2	I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,
3	do hereby certify that the foregoing and attached Transcript
	of Hearing before the New Mexico Oil Conservation Commission
	the same is a true and correct record
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CASE 5776: Application of Continental 011 Company for an unorthodox location, Eddy County, New Mexico. Application of Continental Oil Company for an unorthodox location, had County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the unorthodox location of its James Ranch Unit Well No. 9 to be drilled at a point 1980 feet from the North line and 660 feet from the West line of Section 31, Township 22 South, Range 31 East, Los Medanos-Morrow Gas Pool, Eddy County, New Mexico, the N/2 of said Section 31 to be dedicated to the well.

Horse Dack

CASE 5777:

Application of Gifford & Mitchell and M. B. Wisenbaker for pool creation, pool rules, and a non-standard gas spacing unit, Lea County, New Merico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Goral production for its Horseback Well No. 1 located 1000 feet from the South line and 1980 feet from the East line of Section 33, Township 26 South, Range 36 East, Lea County, New Mexico, the promulgation of pool rules therefor, including a provision for 640-acre spacing and approval for a 589,52-acre non-standard gas spacing unit comprising all of partial Sections 33 and 34 of the aforesaid township.

CASE 5778:

Application of Cas Company of New Mexico for underground gas storage findings, Eddy County, New Mexico. Applicant, in the above-styled cause, pursuant to Section 65-9-5 NASA 1953 Comp., seeks a decision from the Commission containing findings as to the propriety of utilization for underground gas storage of the sub-surface strata from the top of the Morrow clastic stratum to the top of the Barnett stratum underlying Sections 15, 16, 17, 20, 21, 22, 27, 28, and 29, Township 16 South, Range 27 East, Eddy County, New Mexico.

CASE 5779:

Application of Agua, Inc. for an extension of time and amendment of Order No. R-4495-A, as amended by R-4495-D, Lea County, New Mexico. Applicant, in the above-styled cause, seeks amendment of Order No. R-4495-A, as amended by Order No. R-4495-D to permit disposal, after the current October 1, 1976; deadline, of produced salt water through perforations from 4230 feet to 4320 feet in its SWD Well No. U-2, located in Unit C of Section 2, Township 22 South, Range 32 East, Lea County, New Mexico. Applicant seeks the amendment of said order to permit such disposal for an additional 30-day period or until it is able to get electrical power to its Blinebry-Drinkard SWD System Well No. A-22, located in Unit A of Section 22, Township 22 South, Range 37 East, Lea County, New Mexico, whichever comes later.

CASE 5262:

(Reopened) (Continued from September 1, 1976, Examiner Hearing)

In the matter of Case 5262 being reopened pursuant to the provisions of Order No. R-4822-B, which order extended the special pool rules for Southwest Media-Entrada Oil Pool, Sandoval County, New Merico, including a provision for 160-acre spacing and provation units and a special depth bracket allowable of 750 barrels of oil per day. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing and why the special depth bracket allowable should not be rescinded.

CASE 5736:

(Continued from September 1, 1976, Examiner Hearing)

Application of BCO Inc. for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Basin Dakota Gas Pool and Lybrook-Gallup Oil Pool and undesignated Greenhorn and Mancos production in the wellbore of its Dunn Well No. 2, located in Unit F of Section 10, Township 23 North, Range 7 West, Rio Arriba County, New Mexico.

Dockets Nos. 27-76 and 28-76 are tentatively set for hearing on October 13 and 27, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 29, 1976

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

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

- CASE 5768: In the matter of the hearing called by the 0il Conservation Commission on its own motion to permit Service Drilling Company, The Travelers Indemnity Company, and all other interested parties to appear and show cause why the Conzeles-Pittman Well No. 1, located in Unit M of Section 24, Township 21 North, Range 21 East, Mora County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.
- CASE 5769: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit

  Juanita Frank, The Aetna Casualty and Surety Company, and all other interested parties to appear
  and show cause why the Greathouse Frank Well No. 2, located in Unit C of Section 10, Township 23
  North, Range 1 West, Rio Arriba County, New Mexico, should not be plugged and abandoned in
  accordance with a Commission-approved plugging program.
- CASE 5770: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit George H. Krause, The Hartford Accident and Indemnity Company, and all other interested parties to appear and show cause why the Krause Beck Well No. 1, located in Unit J of Section 10, Township 29 North, Range 12 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.
- CASE 5771: Application of Yates Petroleum Corporation for compulsory, pooling and an unorthodor location, Eddy County, New Mexico. Applicant, in the above styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 22, Township 17 South, Range 26 East, Eddy County, New Mexico, to be dedicated to its Tom Brown GO Com Well No. 1 to be drilled at an unorthodox location 660 feet from the North line and 1982 feet from the West line of said Section 22. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- Application of Yates Petroleum Corporation for an unorthodox location, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal

  BZ Well No. 16 to be dri led at a point 1980 feet from the North line and 660 feet from the East

  line of Section 28, Township 17 South, Range 25 East, Eddy County, New Mexico, to test the Morrow
  formation, the N/2 of said Section 28 to be dedicated to the well.
- CASE 5773: Application of Yates Petroleum Corporation for a unit agreement, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the North Millman Unit Area comprising 2,017 acres, more or less, of State lands in Township 19 South; Range 28 East, Eddy County, New Mexico.
- CASE 5774: Application of Belco Petroleum Corporation for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the N/2 of Section 31, Township 21 South, Range 27 East, Eddy County, New Mexico, to be dedicated to its Mollie Well No. 1 to be drilled at an unorthodox location 1100 feet from the North line and 1500 feet from the East line of said Section 31. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 5775: Application of Cities Service Oil Company for compulsory pooling and an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 30, Township 21 South, Range 27 East, Eddy County, New Mexico, to be dedicated to its Tracy "E" Well No. 1 to be drilled at an unorthodox location 1880 feet from the North line and 660 feet from the West line of said Section 30. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

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BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3
CASE NO. 6777

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Docket No. 29-76

Dockets Nos. 31-76 and 32-76 are tentatively set for hearing on November 10 and November 23, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 27, 1976

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

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

CASE 5768: (Continued from September 29, 1976, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Service Drilling Company, The Travelers Indemnity Company, and all other interested parties to appear and show cause why the Gonzales-Pittman Well No. 1, located in Unit M of Section 24, Township 21 North, Range 21 East, Mora County, New Mexico, should not be plugged and abandoned in accordance with a Commission approved plugging program.

CASE 5785: (Continued from October 13, 1976, Examiner Hearing)

Application of Doyle Hartman for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Seven Rivers-Queen formation underlying the NE/4 NE/4, NW/4 NE/4, SW/4 NE/4, and SE/4 NE/4 of Section 19, Township 24 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico, to form four 40-acre proration units to be dedicated to four oil wells to be drilled at standard locations on said tracts. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in drilling said wells.

CASE 5574: (Reopened) (Continued from October 13, 1976, Examiner Hearing)

In the matter of Case 5574 being reopened pursuant to the provisions of Order No. R-5118 which order established a temporary special depth bracket allowable of 750 barrels of oil per day for the Eagle Mesa-Entrada Oil Pool, Sandoval County, New Mexico. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

Application of Amoco Production Company for salt water disposal well, Roosevelt County, New Mexico.

Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Fuseiman formation through the perforated interval from 8313 feet to 8538 feet in its Swearingen "C" We'l No. 2 located in Unit M of Section 18, Township 5 South, Range 33 East, Petersen-Fuseiman Pool, Roosevelt County, New Mexico.

CASE 5790: Application of Dome Petroleum Corporation for pool creation and assignment of a discovery allowable, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Entrada production and the assignment of approximately 58,770 barrels of oil discovery allowable to the discovery well, being the Federal 21 Well No. 1 located in Unit K of Section 21, Township 20 North, Range 5 West, McKinley County, New Mexico.

CASE 5791: Application of Texaco Inc. for a non-standard gas proration unit and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 320-acre non-standard Eumont gas proration unit comprising the E/2 SE/4, SW/4 SE/4, and SE/4 SW/4 of Section 23; the W/2 NW/4 of Section 25; and the F/2 NE/4 of Section 26, all in Township 19 South, Range 36 East, Lea County, New Mexico, to be simultaneously dedicated to applicant's William Weir Wells Nos. 1 and 2 at unorthodox locations in Unit E of said Section 25 and Unit N of said Section 23, respectively.

Application of Dugan Production Corporation for downhole commingling, San Juan County, New Mexico.

Applicant, in the above-styled cause, seeks authority to commingle Angels Peak-Gallup and Basin-Dakota production in the wellbore of its McAdams Well No. 3 located in Unit H of Section 34,
Township 27 North, Range 10 West, San Juan County, New Mexico.

CASE 5793: Application of Dugan Production Corporation for an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Sherman Edward Well No. 2A, to be drilled at a point 2500 feet-from the North line and 510 feet from the West line of Section 3, Township 29 North, Range 5 West, Blanco Mesaverde Gas Pool, Rio Arriba County, New Mexico, the N/2 of said Section 3 to be dedicated to the well.

Examiner Hearing - Wednesday - October 27, 1976

CASE 5776: (Continued & Readvertised)

Application of Continental Oil Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its James Ranch Unit Well No. 8 to be drilled at a point 1980 feet from the North line and 660 feet from the West line of Section 31, Township 22 South, Range 31 East, Los Medanos-Morrow Gas Pool, Eddy County, New Mexico, the N/2 of said Section 31 to be dedicated to the well.

CASE 5794: Application of Continental Oil Company for compulsory pooling, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 31, Township 22 South, Range 31 East, Los Medanos Field, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location in Unit L of said Section 31. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5795: Application of Continental Oil Company for an exception to the provisions of Order No. R-1670, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 21(A) of the General Rules and Regulations for the provated gas pools of Northwestern New Mexico contained in Order No. R-1670, to permit the reporting of Basin Dakota production from wells on its Northeast Haynes Lease in Township 24 North, Range 5 West, Rio Arriba County, New Mexico, without the necessity of separately measuring the production from each well.

CASE 5777: (Continued & Readvertised)

Application of Gifford & Mitchell and M. B. Wisenbaker for pool creation, pool rules, and a non-standard gas spacing unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Pennsylvanian production for its Horse Back Well No. 1 located 1000 feet from the South line and 1980 feet from the East line of Section 33, Township 26 South, Range 36 East, Lea County, New Mexico, the promulgation of pool rules therefor, including a provision for 640-acre spacing and approval for a 589.52-acre non-standard gas spacing unit comprising all of partial Sections 33 and 34 of the aforesaid township.

Docket No. 30-76

Dockets Nos. 31-76 and 32-76 are tentatively set for hearing on November 10 and November 23, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - THURSDAY - NOVEMBER 4, 1976

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

CASE 5743: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit

John W. Adams, Executor of Estates of R. W. and June Adams; and Ruth McGahey, Fred McGahey and

David McGahey dba Adams & McGahey, American Employers' Insurance Company, and all other interested

parties to appear and show cause why the following wells located in Township 21 North, Range 30

East, Harding County, New Mexico, should not be plugged and abandoned in accordance with a

Commission-approved plugging program:

Gonzales Well No. 2, located in Unit P of Section 9; Adams & McGahey Well No. 1, located in Unit B of Section 16; and Gonzales "A" Well No. 1, located in Unit H of Section 32.

Upon application of John W. Adams, this case will be heard De Novo pursuant to the provisions of Rule 1220.

5777

KELLAHIN AND FOX ATTORNEYS AT LAW 500 DON GASPAR AVENUE POST OFFICE BOX 1769

OIL CONSERVATION COMM.

SANTA FE, NEW MEXICO 87501

Santa Fe

TELEPHONE 982-4315 AREA CODE 505

September 2, 1976

Mr. Joe Ramey, Secretary-Director New Mexico Oil Conservation Commission P. 0. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Ramey:

JASON W. KELLAHIN ROBERT E. FOX W. THOMAS KELLAHIN

Enclosed please find the original and two copies of the application of Gifford & Mitchell & M. B. Wisenbaker for approval of a non-standard unit and pool rules. We would appreciate this being set for hearing on the 29th of September.

Yours very truly,

Jason W. Kellaki

Jason W. Kellahin

CC: Charles C. Aldridge, Esq.

JWK:kjf

Enclosure

#### BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

SEP -3 1975

IN THE MATTER OF THE APPLICATION OF GIFFORD & MITCHELL & M. B. WISENBAKER FOR APPROVAL OF A NON-STANDARD UNIT AND POOL RULES, LEA COUNTY, NEW MEXICO.

### APPLICATION

Come now Gifford & Mitchell and M. B. Wisenbaker, and apply to the oil Conservation Commission of New Mexico for approval of pool rules and a non-standard spacing and proration unit for their No. 1 Horseback well consisting of approximately 589.52 acres, more or less, according to the Government survey, and in support thereof would show the Commission:

- Applicants propose to drill their No. 1 Horseback well 1000 feet from the South line, and 1980 feet from the East line of Section 33, Township 26 South, Range 36 East, N.M.P.M., Lea County, New Mexico.
- 2. The subject well is projected to test the Pennsylvanian and Devonian formations, testing the Atoka in the Pennsylvanian, and the Fusselman zone at approximately 19,500 feet. The well may also be projected to the Ellenburger at approximately 22,500 feet.
- 3. Section 33 and 34, Township 26 South, Range 36 East are located on the New Mexico-Texas state line, and are short sections. Section 33 contains 294.92 acres, and Section 34, 294.60 acres, according to the government survey of said sections.

4. Applicant proposes to dedicate Sections 33 and 34 to

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the proposed well, creating a unit of 589.52 acres, for any gas production encountered, which more nearly accords with spacing across the state line, offsetting the proposed unit. The applicant further proposes adoption of pool rules for Pennsylvanian gas production, Devonian or Ellenburger production.

- 5. The discovery well in the area is applicants' No.

  1 Comanche Unit well, located in Section 13, Block C-23,

  Public School Survey, Winkler County, Texas. This well is

  Morrow

  completed for production from the Atoka formation at a depth

  15500

  of approximately 48,500 feet. Application is being made to

  the Texas Railroad Commission for 640-acre spacing for this

  well, and a proposed well, to be located in the adjacent

  Section 12.
- 6. The Crittendon Field, lying due South of the Comanche Unit well, also producing from the Atoka formation, at approximately 14,500 mately 18,500 feet, is spaced on 640-acre spacing and proration units.
- 7. Evidence presently available indicates that one well completed in any of the above-mentioned formations will adequately and economically drain and develop the proposed unit. Approval of this application will result in the production of oil and gas, or either of them, that would not otherwise be recovered, thereby preventing waste. Correlative rights will not be impaired by approval of this application.

WHEREFORE applicant prays that this application be set for hearing before the Commission's duly appointed examiner at the hearing scheduled for September 29, 1976, and after notice and hearing as required by law, enter its order approving the proposed unit as applied for.

Respectfully submitted, GIFFORD & MITCHELL M. B. WISENBAKER

KBLLAHIN & FOX
P. O. Box 1769
Santa Fe, New Mexico 87501

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

SEP - 3 1976 )

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Respectfully submitted,
GIFFORD & MITCHELL
M. B. WISENBAKER

By Leson W. Kellih-KELLAHIN & FOX P. O. Box 1769 Santa Fe, New Mexico 87501

ase 5777

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF GIFFORD & MITCHELL & M. B. WISENBAKER FOR APPROVAL OF A NON-STANDARD UNIT AND POOL RULES, LEA COUNTY, NEW MEXICO.

### APPLICATION

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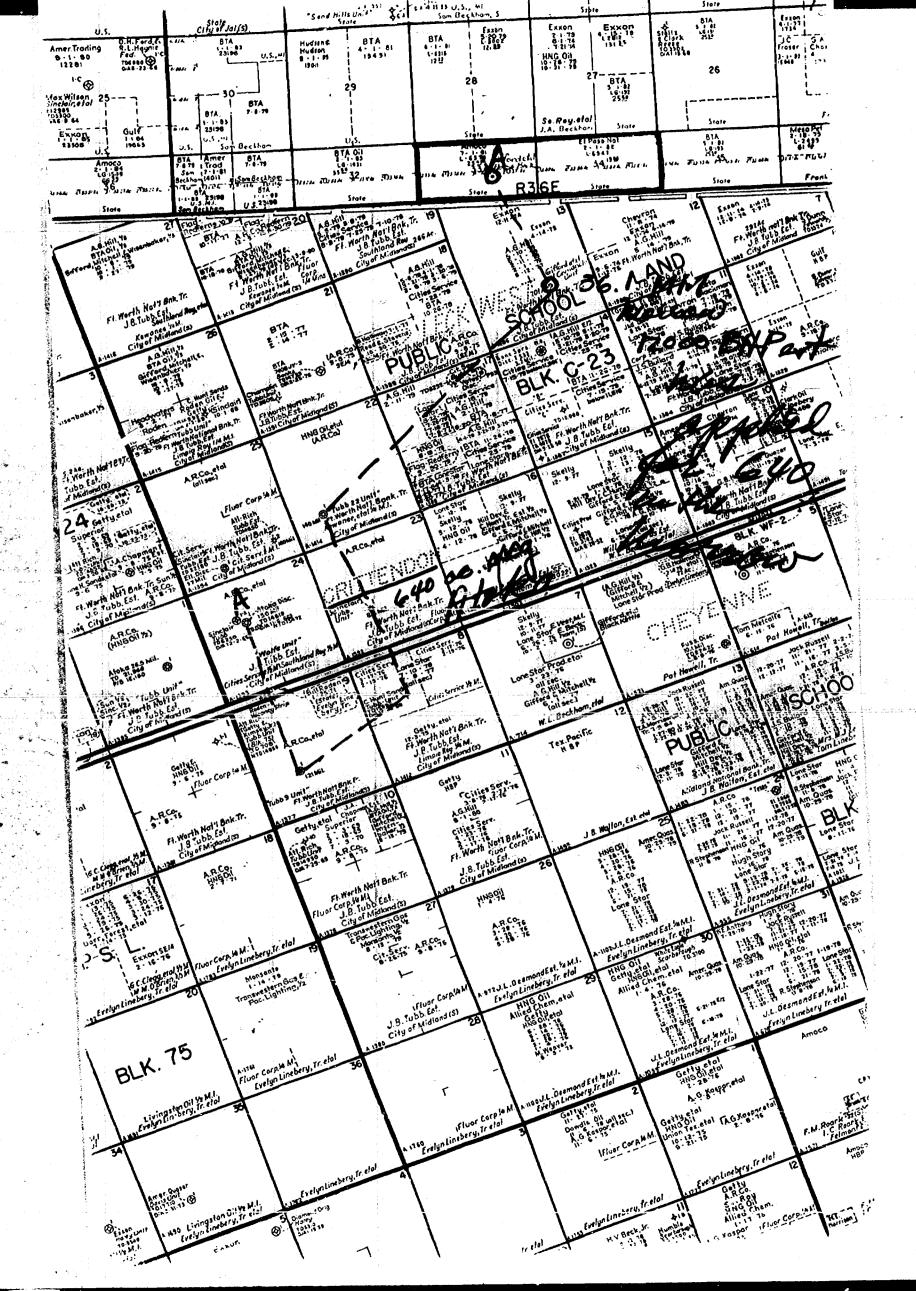
WHEREFORE applicant prays that this application be set for hearing before the Commission's duly appointed examiner

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Respectfully submitted,
GIFFORD & MITCHELL
M. B. WISENBAKER

KELLAHIN & FOX
P. O. Box 1769
Santa Fe, New Mexico 87501



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21752666CRITTEND(IN (PENN.)

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22 ATLANTIC RICHFIELD CO TUNB 22 UNIT WHSIP = 1 080244651 PLOT 21752666 CRITTENDUN (PENN.) STATE OR PROVINCE | FIELD NUMBER SYMBOLS: BIIP/Z = Z 140000 9063 1,000 7298C 15863 OATE COMPS | CONT | ST PROOF | CAS EPINATE | NIGHT | 151 0611 | OB 1 868 | OB -68 | 64 | OB 1 868 | COUNTY OF PARISH ESSURE WHSIP & BHP /Z COMMON= C VINKLER TEMP GRAD: 0.700 1847,412 0000 3379,400 2144,458 9000 1061,176 Ö 1423,670 1071,408 3000 607,799 1,550 O Z 7000 Z C ±000 n ŋ 5000 4000 3000 2000 1000 08,0 10.0 12.0 02.0 04.0 06,0 14.0 16.0 18.0 20.0 22,0 BILLIONS --->

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### RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

OIL AND GAS DOCKET

110. 8 - 66,522

Austin, Texas September 14, 1976 IN RE:

CONSERVATION AND PREVENTION OF WASTE OF CRUDE PETROLEUM AND NATURAL GAS IN THE COMANCHE (MORROW) FIELD, WINKLER COUNTY, TEXAS

NOTICE OF HEARING
ON THE APPLICATION OF GIFFORD, MITCHELL & WISENBAKER
FOR THE ADOPTION OF TEMPORARY FIELD RULES
FOR THE COMANCHE (MORROW) FIELD
WINKLER COUNTY, TEXAS

NOTICE IS HEREBY GIVEN To the public and all interested persons that under the authority of Title 102, Oil and Gas, and Chapters 21, 22 and 24 of the Texas Water Code, Revised Civil Statutes of Texas, the Railroad Commission of Texas will hold a hearing on OCTOBER 8, 1976, at 9 a.m. in its Hearing Room in the Ernest O. Thompson State Building, 10th and Colorado Streets, Austin, Texas, for the following purpose:

To consider the application of Gifford, Mitchell & Wisenbaker for the adoption of temporary field rules for the Comanche (Morrow) Field, Winkler County, Texas.

The applicant will request 1320' - 3735' spacing, 640 acre proration units and 100% acreage allocation.

PURSUANT TO SUCH HEARING, the Commission will enter such rules, regulations, and orders as in its judgment the evidence presented may justify.

RAILROAD COMMISSION OF TEXAS

Secretary As

/bp

BEFORE EXAMINER NUTTER
OIL CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVATION CASE NO. 5222



# WOLF PETRO LAB, INC. DIAL EMERSON 6.9701 DIAL EMERSON 6.7171

HYDROCARBON ANALYSIS

LABORATORY REPORT

Giff	ord,	Mitc	hell
Charge & Wi	senba	ker	
Test No. WPL	-76-	<b>19</b> رک	
Date of Run_	7-10		
Date Received	7-5	-78	

	1.	•					Date of		7-10-76
							Date Re	eceived_	7-5-78
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A Sample of	Gas Irom S	eperator ·	- Command	THE NO. T		<del></del>		<u>-</u>	<del></del>
Secured from	Моггом Гол	mation		4		<u> </u>			
At	Winkler Co	unty, Texa	ıs			Secured	l by		
Purpose						-	Date		
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Sampling Condition			15553	Caet			75		
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				Volume of S	ample			<u> </u>	cc. @° F
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	or Mol. %	Vol. %		Molecular W	gt. of	Residue .	·		90 A
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Hydrogen Sulfide			<del></del>	j.,			OR PRESSU		
Carbon Dioxide	38		<del></del>	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2	-::	<u> </u>	<del> </del>		_ lbs. @ 100° F _ lbs. @ 100° F
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Oxygen	-02 11		*						G. P. M
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Iso-Butane	28	<del> </del>	.09			W II TW II	TO EXTEND 3 4 TO	TARTON	
N-Butane Iso-Pentane	12		Oli	3		SULFUR	DETERMIN	NATION	
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Iso-Hexane						RSH	1985		grs/100 SCF grs/100 SCF
N-Hexane				Sulfides		RSR	.0336		grs/100 SCF grs/100 SCF
Pentanes (2)							.0050		grs/100 SCF grs/100 SCF
Hexanes (2)	16		.07	Total Sulfide			2786		grs/100 SCF grs/100 SCF
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OIL CON	SERVATION	COMMISSI	IN IN						

### RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

### APPLICATION FOR DISCOVERY ALLOWABLE

			IELD DESIGNATION		
J. RRC Pletriet	2. County	3. Survey	* * *		4. Sec. Ne.
8	<u>l Winkler</u>		23 PSL Survey	<del></del>	13
5. Operator	-6-11 0 18			-	7. Well No.
8. Address	chell & Wisenbak	<u>er i c</u>	omanche Unit	<del></del>	!
	idland National	Pank Tower	Midland, ÎX	70701	
9. Suggested Field No	mes (in order of preference	pank rower.	10. Name of Producing	79701 Zona	<del></del>
			Morrow		1
Fireti	<del></del>		11. Type of Production	(Indicate one only)	
Comar	nche		OlL:	GAS:	<b>X</b>
- Second:			12. Top of Pay	en Till till till till till till till till	
		<u>6.4 []</u>	15,550'		1
Third:			13. Peif.		
			From: 15,560'		15,570'
14. Date of Water Bose	d letter:	15. Date Commi	ssion Form W-2 or G-1 (Potent	ini Test) filed: 8-9	-76
11-14-7	<b>15</b>	(¥-2)	BOPDOA	PI Gravity	GOR
			,100 AOF 0.60 c	NΔ	Gas-Lig. Hydro Ratio
16. Nearest Production	(oil and/or gas, past or pa	resent) to this Well:	MCF/D		
	West			l or Gas (State Which):	_0il
b. Reservoir Name	& Depth Interval:BON	e-Sörinds	(9.742' - 64')		
					*
c. Distance & Direc	tion from this Well:	<u>mile southw</u>	est		<u></u>
	Production (oil and/or ga	ie, past or présent) t	o this Well;		
. Field: None				l or Gas (State Which) .	NA
				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
b. Reservoir Name	& Depth Interval: NA			<del></del>	
	NA.				
c. Distance & Direc	tion from this Well: NA	بمحاج المحاددا			
:T: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TORS MUST BE NOTIFIE		er and the second of the secon		
If this is a newly di		nown producing multi	reservoir structure, all operate	ors in field or fields inv	elved must be notified
	were notified of this applic	cation:	September 9.	19 75	
19. Operators Notified (		:			i
a, Operator Name		. A	b. Address		
<u>Cities Serv</u>	vice Company	Р.	0. Box 1919 Mid	land, TX 7	9701
i i i i i kasasi					
	oloration, Inc.	<u>P</u> _			9701
Exxon Compa			Take to the control of the control o		9701
<u>El Paso Nat</u>			O Bldg of the Sout		
BTA Oil Pro					9701
Amoco Produ		P_			9701
Skelly Oil	to.	* .	- \$ f	land, TX 79	9701
			TIFICATE:		4
declare under pena	Ities prescribed in Ati	icle 6936c, R. C.	S., that I am authorized to	make this report, the	t this report was pre-
pared by me or unde best of my knowledge		direction, and tha	t data and facts stated the	rein are inje, comect	, and complete, to the
110	nA1				•
Malh	Welstin		Kale Webs	ter	
Signature			Name of Person (type	or print)	
8-9-76 Date	Petro - Engr	Agent	Telephone No91	5 682-4321 Number	· · · · · · · · · · · · · · · · · · ·
Dato	Title		Area	Code Number	

andra (1944) in 1945 in 1955 in 1955 in 1965 in 1965 in 1965 in 1965 in 1965 in 1965 in 1965 in 1965 in 1965 i Bandara (1965 in 1965					
A. Wosi Engineering, Inc.			AFE No.		
	- E	Company W.			
Company NameGifford, Mitchell & Wise		•			
		1	Proposed 20,000		
Lease Name Horse Back Lea	Well	No Formation	Depth		
County		To Be Tested	Fusselman		
Wall Location Section 33, T26S, R 36E			·	. <u> </u>	
Spud Date September 15, 1976 Estimated	- David & Del	150	7: Committee 15		
<u> </u>				·	
WILDCAT   DEVELOPMENT	` <u> </u>	WORKOVER Plug Back	OTHER	•	
☐ Complete (X) Complete	<b>)</b>	Deepen	ö .		
	**********	Change Zo	ne 🔲 -		
DESCRIPTION	INTANGIB	DRILL DRILL	COMPLETE	TOTAL	
Access & Damages		10,000	COMPLETE	10,000	
2 Location & Roads		15,000	2,000	17,000	
3 Rig Move 4 Day Work Cost150Days @ \$_360	00 /	50,000		50,000	
5 Footage CostFeet @ \$	/day /foot	540,000		540,000	
6 Bits		40,000		40,000	
7 Reamers 8 Short Sub		12,000	-	12,000	
8 Shock Sub 9 Fuel	00 /day	9,000 75,000	7,500	9,000 82,500	
: 10 Fresh Water		10,000		10,000	
i 11 Brine Water		15,000	2,000	17,000	
12 Mud Materials 13 Corrosion Inhibitor		160,000 10,000	2,500	160,000	
14 Cement & Pump Service		50,000	12,000	62,000	
15 Miscellaneous Pump Service		4. 3. 45 ££\$\$4. A	444		
16 Pipe Inspection		12,000	10,000	22,000	
17 Coring 18 Drill Stem Testing		3,000		3,000	
19 Electrical Lagging		50,000	4,000	54,000	
20 Casing Crews & Tools		8,000	2,000	10,000	
21 Mud Logging 22 Perforating		20,000	4,000	20,000 4,000	
23 Stimulation (Acid & Frac)			15,000	15,000	
24 Transportation		10,000	2,000	12,000	
25 Equipment Rental (Pvt, Degasser, Misc To 26 Supervision & Overhead	ols, etc.)	50.000	5,000	55,000 40,000	
26 Supervision & Overhead 27 Completion Rig		36,000	4,000 54,000	54,000	
28 Other Drilling Expense			XJ_XXX		
29 Contingencies (10% of Intangibles)		118,500	12,600	131,100	
30					
32 TOTAL INTANGIBLES		1,303,500	138,600	1,442,100	
248 CH 1000 \$ 200 CH	TANGIBLI	2.000			
33 60 Of 30 "Conductor Ca		2,000		2,000 47,000	
34 1,200 Of 20 Surface Casing 35 4,500 Of 13-3/8 Intermediate C		47,000 83,000		83,000	
36 14,000 ' Of 9-5/8 " Intermediate (		273,000 /		273,000	
37 4.500 Of 7-3/4 "Intermediate		117,000	r2-000	117,000 52,000	
38 4,000 Of 5 Production Co		52,000	52,000		
40 5,000 Of 3-1/2 "Tubing		65,000	65,000		
41 11,000 Of 3-1/2 "Tubing			110,000	110,000	
42 Of Tubing		),200	6,700		
43 Float Equipment 44 Liner Equipment	5,500 7,000	7,000	14,000		
45 Wellhead Equipment		15,000	35,000	50,000	
46 Producing Facilities, Tank Battery, Flowlin		50,000 7,500	50,000 7,500		
47 Packers & Other Subsurface Tools 48 Contingencies [10% of Tangibles]	55,000	32,800	87,800		
49 Commigencies (10 % of 1 ingroles)	33,000				
50		200-00-	965,000		
51 TOTAL TANGIBLES 52 TOTAL WELL COST	604,500 1,908,000	360,500 499,100	2,407,100		
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COMPANY APPROVAL		JOIN	T OPERATOR APPROVE		
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### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

11

CASE NO. 5777 (Respensed)

Order No. R- 53/6

APPLICATION OF GIFFORD & MITCHELL AND M. B. WISENBAKER FOR POOL CREATION, POOL RULES, AND A NON-STANDARD GAS SPACING UNIT, LEA COUNTY, NEW MEXICO.

NOMENCLATURE

ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 27

19 76, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this day of November, 1976, 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, Gifford & Mitchell and M. B. Wisenbaker, seeks the creation of a new gas pool for Pennsylvanian production in Lea County, New Mexico, and the promulgation of special rules and regulations governing said pool, including a provision for 640-acre spacing units.
- (3) That said pool offsets a commercial gas pool for Pennsylvanian production which applicant has discovered by a well drilled in Section 13, Public School Land Black

C-23, Winkler County, Texase.

(A) That the Texas Railroad Commission has adopted rules for the aforesaid pool providing for 640-acre spacing and provation units.

N

-2-Case No. 5777 (Reopened) Order No. R-

- 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, temporary special rules and regulations providing for 640-acre spacing units should be promulgated for the Horse Back-Pennsylvanian Gas Pool.
- (6) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (7) That special rules and regulations should be established for a temporary period to expire one year from the date that a pipeline connection is first obtained for a well in the pool; that during this temporary period all operators in the subject pool should gather all available information relative to drainage and recoverable reserves.
- (5) That this case should be reopened at an examiner hearing one year from the date that a pipeline connection is first obtained for a well in the Horse Back-Pennsylvanian Gas Pool, at which time the operators in the subject pool should appear and show cause why the Horse Back-Pennsylvanian Gas Pool should not be developed on 320-acre spacing units.
- (9) That the first operator to obtain a pipeline connection for a well in the Horse Back-Pennsylvanian Gas Pool should notify the Commission in writing of such fact, and that the Commission should thereupon issue a supplemental order designating an exact date for reopening this case.
- (18) That applicant further seeks approval for a 589.52acre non-standard gas spacing and provation unit comprising all of partial Sections 33 and 34, Township 26 South, Range 36 East, NMPM, Lea County, New Mexico, to be dedicated to applicant's Horse Back W211 No. 1, located 1000 feet from the South line and 1980 feet from the East line of said Section 33.

(10) That approval of said non-standard unit will not impair correlative rights nor cause waste.

-3-Case No. 5777 (Reopened) Order No. R-

### IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as a gas pool for Permsylvanian production, is hereby created and designated the Horse Back-Pennsylvanian Gas Pool, comprising the following described area:

TOWNS HIP ZG SOUTH, RANGE 3 CEAST, NMPM Sections 33 and 34: All

(2) That temporary Special Rules and Regulations for the Horse Back-Pennsylvanian Gas Pool, Lea County, New Mexico, are hereby promulgated as follows:

## SPECIAL RULES AND REGULATIONS FOR THE HORSE BACK-PENNSYLVANIAN GAS POOL

- RULE 1. Each well completed or recompleted in the Horse Back-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof, and not nearer to or within the limits of another designated Pennsylvanian gas pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well shall be located on a standard unit containing 640 acres, more or less, consisting of a governmental section.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 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 quarterquarter sections or lots that are contiguous by a common bordering side.

Case No. 5777 (Reopened)
Order No. R-

- (b) The non-standard unit lies wholly within a governmental 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 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 4. Each well shall be located no nearer than 1650 feet to the outer boundary of the section and no nearer than 330 feet to any governmental quarter-quarter section line.
- RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proration unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proration unit or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

-5-Case No. 5777 (Reopened) Order No. R-

### IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the Horse Back-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before
- (2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the Horse Back-Pennsylvanian Gas Pool shall have dedicated thereto 640 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 640 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 Horse Back-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

(3) That this case shall be reopened at an examiner hearing one year from the date that a pipeline connection is first obtained for a well in the Horse Back-Pennsylvanian Gas Pool, at which time the operators in the subject pool may appear and show cause why the Horse Back-Pennsylvanian Gas Pool should not be developed on 320-acre spacing units.

Case No. 5777 (Reopened) Order No. R-

designated.

- (4) That the first operator to obtain a pipeline connection for a well in the Horse Back-Pennsylvanian Gas Pool shall notify the Commission in writing of such fact, and that the Commission will thereupon issue a supplemental order designating an exact date for reopening this case.
- (6) 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
- provation unit comprising all of partial Sections 33 and 34, Tenswhip 26 South, Range 36 East, NMPM, Lee County, how Meiges, is hereby approved, pail unit to be dedicated to applicant's Horse Back WEN no. 1, located 1000 feet from the South line and 1980 feet from the South line and 1980 feet from the South Section 33.