

**CASE 4759: Application of ATLANTIC
RICHFIELD FOR A SPECIAL GAS-OIL
RATIO LIMITATION, LEA COUNTY.**

Case Number
4759

Application

Transcripts

Small Exhibits

E T C.

dearnley, meier & mc cormick

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
CONFERENCE ROOM, STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO
July 12, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of Atlantic-Richfield
Company for a special gas-oil
ration limitation, Lea County,
New Mexico.

Case No. 4759

BEFORE: Richard L. Stamets,
Examiner.

TRANSCRIPT OF HEARING

dearnley, meier & mc cormick

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1 MR. STAMETS: Case 4759.

2 MR. HATCH: Application of Atlantic-Richfield
3 Company for a special gas-oil ratio limitation, Lea County,
4 New Mexico.

5 MR. HINKLE. Clarence Hinkle, appearing on behalf
6 of Atlantic-Richfield in Case 4759. We have one witness
7 we would like to have sworn and two exhibits.

8 JERALD TWEED,
9 was called as a witness, and after being duly sworn,
10 testified as follows:

11 DIRECT EXAMINATION

12 BY MR. HINKLE:

13 Q Would you state your name and address and by whom you
14 are employed?

15 A Jerry Tweed, and I am employed by Atlantic-Richfield
16 in Midland, Texas.

17 Q What is your position with the company?

18 A Senior operating engineer and petroleum engineer.

19 Q Have you testified before the Oil Conservation Commission
20 before?

21 A Yes, I have.

22 Q And made your qualifications a matter of record with
23 the Commission?

24 A Yes, sir.

25 Q Have you made a study of the Justice Tubb-Drinkard Pool

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1 and the wells in the pool and the logs of the wells
2 and all the information concerning the pool?

3 A Yes. I have

4 Q Are you familiar with the application filed by
5 Atlantic-Richfield in this case?

6 A Yes.

7 Q What are they seeking to accomplish?

8 A We are asking for an exception to Rule 506 of the
9 Commission Rules and Regulations.

10 Q Have you prepared, or has there been prepared under
11 your direction, certain exhibits for introduction in
12 this case?

13 A Yes.

14 Q Referring you to Exhibit Number One, would you please
15 explain what it is and what it shows?

16 A Exhibit One is a structure map on the top of the Tubb
17 sand. The wells that have produced from the Tubb-
18 Drinkard formation are colored on the map. I think it
19 can be seen that this is a north-south trending
20 structure, and there originally were 136 Tubb-Drinkard
21 completions. There are presently fifty-one wells still
22 producing from the Tubb-Drinkard, and they are colored
23 in red on the map. The limits of production in this
24 pool were determined by both porosity and permeability.
25 There is some downdip water in some areas, and this is

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1 a rather low permeability, low porosity reservoir
2 which is in the late stage of production. The fifty-
3 one wells made 428 barrels of oil in April, which is
4 approximately nine barrels of oil per day per well
5 for April. The GOR for the pool for April was
6 9,681.

7 Q Does this map also show the ownership of the acreage
8 in the pool?

9 A Yes, it shows various ownership and there would be
10 four wells now that would be affected by this gas-oil
11 ratio. They are the Wimberley Number Six in Section
12 D of Section 24, Township 25 South, Range 37 East.
13 The other wells are the Shell State JM Number 1B in
14 Unit B of Section 22, 5, 37; the Colt C Number 25 in
15 Unit A of Section 24, 25, 37; and the Texas-Pacific
16 Eton Number Eleven in Unit K of 12, 25, 37.

17 Q Are those the only wells that would be affected?

18 A That's right. The other thing, on these wells, it is
19 our estimate from recent tests that an increase in the
20 GOR from 2,000 to 1 to 6,000 to 1 would result in
21 approximately 800 MCF per day being produced and
22 120 barrels of oil per day.

23 MR. STAMETS: Eight hundred MCF and 120 barrels
24 of oil?

25 THE WITNESS: Yes, sir.

dearniey, meier & mc cormick

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1 Q (By Mr. Hinkle) Referring you to Exhibit Two, would
2 you explain this?

3 A Exhibit Two is a decline curve of the Justice Tub-
4 Drinkard Pool. The daily average of oil production
5 and oil-water production and gas-oil history are shown
6 here. The initial discovery well was completed in
7 December of 1957 with first production being essentially
8 in January, 1958. I would like to point out on the
9 oil production curve that oil production has declined
10 rather rapidly since 1965, and the gas-oil ratio curve
11 has increased since that time.

12 This is, in my opinion, a typical performance of
13 a low permeability reservoir producing from solution
14 gas drive mechanism.

15 Q Referring you to Exhibit Three, would you explain that?

16 A Exhibit Three is a letter from the gas purchaser, El
17 Paso Natural Gas Company, in which they state that
18 they are willing and able to take the additional 800
19 MCF of gas per day which would be produced with an
20 increase in the GOR. El Paso would take all of the
21 gas from the wells that would be capable of producing
22 additional gas.

23 Q So they are willing to take the excess gas if the
24 gas-oil ratio is increased?

25 A Yes, sir.

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1 Q In your opinion, would this increase prevent waste
2 and protect correlative rights?

3 A Yes, it would.

4 Q Do you have anything else you would like to present
5 in connection with this matter?

6 A No, I do not.

7 MR. HINKLE: At this time, we will offer Exhibits
8 One through Three.

9 MR. STAMETS: Any objection?

10 (No response)

11 MR. STAMETS: They will be admitted.

12 (Whereupon Applicant's Exhibits One through Three
13 were admitted in evidence.)

14 MR. HINKLE: That's all we have on direct.

15 * * * *

16 CROSS EXAMINATION

17 BY MR. STAMETS:

18 Q What benefit does Atlantic-Richfield hope to receive
19 from a 6000 to one GOR?

20 A Essentially, the benefit that will be derived will be
21 the ability to produce forty barrels of oil and
22 approximately 250 MCF more production.

23 Q Do you feel that a higher GOR limit will adversely
24 affect the ultimate recovery in the field?

25 A No, sir, I don't. This is a solution gas drive

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1 reservoir in a tight field and an additional GOR
2 limit increase will not have any adverse affect on
3 the recovery. We are not getting any benefit from the
4 gas other than pushing the oil in the well bore. We
5 are not getting any secondary gas cap expansion or
6 anything of this type.

7 I would also like to point out that in April that
8 the actual producing GOR for the pool was over 9,000
9 to one, and I calculate that well will roughly be
10 producing additional oil and gas at a GOR of about
11 6,500 to one, so the additional fluid that would be
12 taken out of the reservoir would be produced at a lower
13 GOR than is now currently in the reservoir.

14 Q The four wells you mentioned which would benefit from
15 the higher GOR, would they benefit by receiving a
16 higher oil allowable?

17 A Yes, sir.

18 Q They are basically near the top of the structure, isn't
19 that right?

20 A I think all of them are except the Texas-Pacific Well,
21 which is on the east side.

22 Q But there are wells higher structurally, according to
23 your exhibit, which will not be affected by the higher
24 GOR, is that right?

25 A That's true. Their allowable is not restricted to the

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1 high GOR , and I believe that affects approximately
2 forty of the current fifty-one producing wells that
3 are produced at a higher rate than 2,000 to one.

4 Q The oil production rate is low enough that they are
5 not restricted?

6 A Yes, sir. The pool is near depletion except for just
7 a few wells.

8 MR. STAMETS: Are there any other questions of
9 this witness?

10 (No response)

11 MR. STAMETS: If not, the witness may be excused.

12 (Witness excused.)

13 MR. STAMETS: Any additional testimony in this case?

14 MR. HINKLE: No, sir.

15 MR. STAMETS: Any statements?

16 (No response)

17 MR. HATCH: There is a letter from Getty supporting
18 the application.

19 MR. STAMETS: Case 4759 will be taken under
20 advisement.

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1 STATE OF NEW MEXICO)
2) SS
3 COUNTY OF BERNALILLO)

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

11 *Richard E. McCormick*
12 CERTIFIED SHORTHAND REPORTER
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I do hereby certify that the foregoing is
a correct record of the proceedings in
the hearing before the New Mexico Oil Conservation
Commission on *July 17*, 19*77*.
Richard E. McCormick, Examiner
New Mexico Oil Conservation Commission

dearnley, meier & mc cormick

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I N D E X

WITNESS

PAGE

JERALD TWEDD

Direct Examination by Mr. Hinkle

3

CROSS EXAMINATION by MR. Stamets

7

E X H I B I T S

APPLICANT'S

ADMITTED

OFFERED

Exhibit 1

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Exhibit 2

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Exhibit 3

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6



OIL CONSERVATION COMMISSION

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

GOVERNOR
BRUCE KING
CHAIRMAN

**LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER**

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

July 19, 1972

Mr. Clarence Hinkle
Hinkle, Bondurant, Cox & Eaton
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: Case No. 4759

Order No. R-4346

Applicant:

Atlantic Richfield

Dear Sir:

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

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 4759
Order No. R-4346

APPLICATION OF ATLANTIC RICHFIELD
COMPANY FOR A SPECIAL GAS-OIL
RATIO LIMITATION, JUSTIS TUBB-
DRINKARD POOL, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 12, 1972, at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

NOW, on this 19th day of July, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Atlantic Richfield Company, seeks, as an exception to Rule 506 of the Commission Rules and Regulations, a limiting gas-oil ratio of 6,000 cubic feet of gas per barrel of oil in the Justis Tubb-Drinkard Pool, Lea County, New Mexico.

(3) That the reservoir characteristics of the subject pool presently available justify the establishment of a gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of liquid hydrocarbons.

(4) That an additional volume of 800 MCF per day of casinghead gas production is anticipated to be produced from the Justis Tubb-Drinkard Pool at a gas-oil ratio of 6,000 cubic feet of gas per barrel of oil.

(5) That the anticipated volume of additional casinghead gas may be produced from the Justis Tubb-Drinkard Pool without waste.

-2-

CASE NO. 4759
Order No. R-4346

(6) That in order to afford to the owner of each property in the Justis Tubb-Drinkard Pool the opportunity to produce his just and equitable share of the oil and gas in the subject pool and for this purpose to use his just and equitable share of the reservoir energy, a limiting gas-oil ratio of 6,000 cubic feet of gas per barrel of liquid hydrocarbons should be established for the subject pool.

(7) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That, effective September 1, 1972, the limiting gas-oil ratio in the Justis Tubb-Drinkard Pool, Lea County, New Mexico, shall be 6,000 cubic feet of gas for each barrel of oil produced.

(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
BRUCE KING, Chairman

Alex J. Armijo
ALEX J. ARMILLO, Member

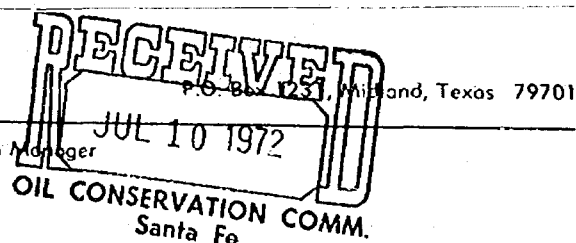
A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary

S E A L

dr/

Getty Oil Company

Mid-Continent Division J. E. Pierce, Midland District Production Manager



July 7, 1972

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

MA

4759

Dear Mr. Porter:

Getty Oil Company respectfully wishes to support the Atlantic Richfield Company in their efforts to increase the GOR limit of the Justis Tubb-Drinkard Pool from 2000/1 to 6000/1, Case No. 4759, which is to be heard before the New Mexico Oil Conservation Commission on July 12, 1972.

Yours truly,

J E Pierce

TCW:rt

CASE 4759: Application of Atlantic Richfield Company for a special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 506 of the Commission Rules and Regulations, a limiting gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of oil in the Justis Tubb-Drinkard Pool, Lea County, New Mexico.

CASE 4732: (Continued from the June 7, 1972 Examiner Hearing)
Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Skaggs-Glorieta, East Weir-Blinbry, and Skaggs-Drinkard Pools in the wellbore of its Skaggs "B" Well No. 5 located 990 feet from the North line and 1700 feet from the West line of Section 12, Township 20 South, Range 37 East, Lea County, New Mexico.

CASE 4760: Application of Anadarko Production Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks to institute a waterflood project by the injection of water into the Penrose-Skelly Pool by the injection of water through its R. E. Cole Well No. 3 located in the SW/4 SW/4 of Section 16 and its E. W. Walden Well No. 6 located in the SE/4 SW/4 of Section 15, Township 22 South, Range 37 East, Lea County, New Mexico.

Applicant further seeks establishment of a procedure whereby the conversion of additional wells to injection may be approved administratively.

CASE 4761: Application of Shell Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a well at an unorthodox location 1980 feet from the South line and 660 feet from the East line of Section 33, Township 23 South, Range 34 East, Antelope Ridge-Devonian Gas Pool, Lea County, New Mexico.

CASE 4762: Application of Shell Oil Company for an unorthodox location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to deepen its Antelope Ridge Well No. 4 to the Antelope Ridge-Morrow Gas Pool at an unorthodox location 990 feet from the North line and 2310 feet from the East line of Section 4, Township 24 South, Range 34 East, Lea County, New Mexico, which location is approximately 800 feet from its Antelope Ridge Well No. 2 located 660 feet from the North line and 1650 feet from the East line, same pool, township and range. Applicant proposes to simultaneously dedicate the N/2 of said Section 4 to the two wells.

CASE 4763: Application of Black River Corporation for compulsory pooling and non-standard proration unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the E/2 of Section 3, Township 26 South, Range 24 East, adjacent to the Washington Ranch-Morrow Gas Pool, Eddy County, New Mexico, comprising, approximately, a 409.22-acre non-standard proration unit. Said acreage to be dedicated to its Cities "3" Federal Well No. 2 located 2212 feet from the North line and 1998 feet from the East line of said Section 3.

El Paso Natural Gas Company

El Paso, Texas 79921
May 26, 1972

Atlantic-Richfield Company
P. O. Box 1610
Midland, Texas

Attention: Mr. K. W. Hill

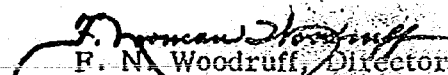
Re: G-O-R Limit
Justice Tubb Drinkard Gas Pool
Lea County, New Mexico

Gentlemen:

This letter is in response to your letter dated May 22, 1972 concerning your plans to request the New Mexico Oil Conservation Commission to increase the Gas-Oil-Ratio limit from 2000:1 to 6000:1 in the above reference field.

Please be advised that El Paso Natural Gas Company is able and willing to take the estimated 800 MCF of gas per day for processing and has no objections to your request.

Yours very truly,


F. N. Woodruff, Director
Gas Proration Operation

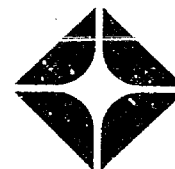
FNW:vap

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	3
CASE NO.	
Submitted by	
Hearing Date	

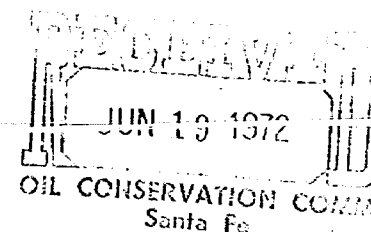
Exhibit No. 3

AtlanticRichfieldCompany

Legal Division
Post Office Box ~~1777~~ 1610
Midland, Texas 79701



June 16, 1972



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

Case 4759

Gentlemen:

Enclosed in triplicate is application of Atlantic Richfield Company for special order providing for special gas-oil ratio limitation for the Justis Tubb-Drinkard Pool, Lea County, New Mexico, which we request be docketed and set for hearing at the earliest convenient date.

Very truly yours,

Horace N. Burton
Horace N. Burton
Attorney

HNB:11

Enc.

cc: Mr. Clarence E. Hinkle

⑦

DOCKET MAILED

Date 6-30-72

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

JUN 19 1972

OIL CONSERVATION COM.
Santa Fe

APPLICATION OF ATLANTIC RICHFIELD COMPANY
FOR A SPECIAL GAS-OIL RATIO LIMITATION FOR
THE JUSTIS TUBB-DRINKARD POOL, LEA COUNTY,
NEW MEXICO.

CASE NO.

4759

Atlantic Richfield Company hereby makes application to the Commission for a special gas-oil ratio limitation and an exception to Statewide Rule 506 for the Justis Tubb-Drinkard Pool, Lea County, New Mexico, and in support thereof, represents:

1.

The common reservoir to be affected by the order sought by Applicant is the Justis Tubb-Drinkard Pool, Lea County, New Mexico.

2.

Applicant seeks an exception to Statewide Rule 506 to provide that the oil-gas ratio limitation for the subject pool shall be changed from 2,000 cubic feet of gas for each barrel of oil produced to 6,000 cubic feet of gas for each barrel of oil.

3.

The approval of the application will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil and gas and for this purpose, to use his just and equitable share of the reservoir energy, and will prevent waste and protect correlative rights.

WHEREFORE, Applicant prays that notice be issued on this application as required by law; that the application be set for hearing before an examiner at Santa Fe, New Mexico at the earliest convenient date and after hearing, a special order be entered approving this application for said special oil-gas ratio limitation.

Horace N. Burton

Horace N. Burton
P. O. Box 1610, Midland, Texas 79701

Clarence E. Hinkle
Hinkle, Bondurant, Cox & Eaton
P. O. Box 10, Roswell, New Mexico 88201

ATTORNEYS FOR APPLICANT
ATLANTIC RICHFIELD COMPANY

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. ~~420~~ 4759
Order No. ~~R-420~~ R-4346

APPLICATION OF ~~DTA OIL PRODUCERS~~

FOR A SPECIAL GAS-OIL RATIO LIMITATION, *Justis Tubb*
Drinkard ~~Wade-Pennsylvanian~~ POOL, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on ~~March 17, 1972,~~ *July 12, 1972,*
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this ~~10th~~ *July* day of ~~March~~, 1972, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

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

(2) That the applicant, *Atlantic Richfield Company,*
~~DTA Oil Producers~~, seeks, as an
exception to Rule 506 of the Commission Rules and Regulations,
a limiting gas-oil ratio of ~~10,000~~ *6,000* cubic feet of gas per barrel
of oil in the ~~Wade-Pennsylvanian~~ *Justis Tubb-Drinkard* Pool, Lea County, New Mexico.

(3) That the reservoir characteristics of the subject pool
presently available justify the establishment of a gas-oil ratio
limitation of ~~10,000~~ *6,000* cubic feet of gas per barrel of liquid
hydrocarbons.

(4) That an additional volume of ~~800~~ 800 MCF per day of
casinghead gas production is anticipated to be produced from

CASE No. 4670
Order No. R-4278

Justis Tubb-Drinkard
the ~~Vada Pennsylvanian~~ Pool at a gas-oil ratio of ~~10,000~~ ^{6,000} cubic feet of gas per barrel of oil.

(5) That the anticipated volume of additional casinghead gas may be produced from the ~~Vada Pennsylvanian~~ Pool without waste.
Justis Tubb-Drinkard

(6) That, in order to afford to the owner of each property in the ~~Vada Pennsylvanian~~ Pool the opportunity to produce his just and equitable share of the oil and gas in the subject pool and for this purpose to use his just and equitable share of the reservoir energy, a limiting gas-oil ratio of ~~10,000~~ ^{6,000} cubic feet of gas per barrel of liquid hydrocarbons should be established for the subject pool.

(7) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED: *September 1, 1972,*

(1) That, effective ~~March 1, 1972~~ ^{*March 1, 1972*}, the limiting gas-oil ratio in the ~~Vada Pennsylvanian~~ Pool, Lea County, New Mexico, shall be ~~10,000~~ ^{6,000} cubic feet of gas for each barrel of oil produced.

(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

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

S E A L

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