

Case Number.

4210

Application

Transcripts.

Small Exhibits

ETC.



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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
September 19, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Mobil Oil
Corporation for a special
gas-oil ratio limitation, Chaves,
County, New Mexico

Case No. 4210

BEFORE: Daniel Nutter, Examiner.

TRANSCRIPT OF HEARING

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date SEPTEMBER 10, 1969 TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
C.R. KREUZ	MOBIL OIL	MIDLAND
J. E. Sperling	Marpet Oil Co.	Alt.
Nina P. J. Dabanne	RW Byram & Co.	Santa Fe
Chambers H. H. H.	Coastal States Gas	Corpus Christi, Tex
W.D. Elliott	Gen. Amer. Oil Co.	Midland, Tex
Clarence Munagor	Gen. Amer. Oil Co.	Roswell, N.M.
John D. Russell	Gen. Amer. Oil Co.	Artavia N.M.
Roy Crow	Kellack & Fox	Santa Fe
Jason W. Kellack	Amradex Hess	Hobbs
Albert D. Metcalf	TAMMACK	MIDLAND
Roy A. Williamson Jr.	Wichita, Sigs. Williamson	Midland
J. D. H. H.	Amradex Hess	Midland
	Amradex Hess	Midland

MR. NUTTER: The hearing will come to order. The first case this morning will be Case Number 4210.

MR. HATCH: Case 4210. Application of Mobil Oil Corporation for a special gas-oil ratio limitation, Chaves County, New Mexico.

MR. SPERLING: James E. Sperling of Modrall, Seymour, Sperling, Rhoad and Harris, Albuquerque, appearing for the Applicant. We have one witness.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 10 were marked for identification.)

C. R. KREUZ

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

DIRECT EXAMINATION

BY MR. SPERLING:

Q Please state your name, your place of residence, your occupation and your employer.

A My name is C. R. Kreuz; that's K-r-e-u-z. I live in Midland, Texas; work for Mobil Oil Corporation as a senior production engineer.

Q Mr. Kreuz, have you on any previous occasion

testified before the Commission so that your qualifications as petroleum engineer are a matter of record?

A Yes, sir, I have.

MR. SPERLING: Mr. Kreuz' qualifications acceptable?

MR. NUTTER: Yes, they are.

Q (By Mr. Sperling) Please explain what is sought by the application of Mobil in Case 4210.

A Mobil is requesting an exception to Rule 506 of the Commission Rules and Regulations to provide for a limiting gas-oil ratio in excess of the existing 2000 to 1 cubic feet per barrel limitation.

Q Will you please refer now to what's been marked as Exhibit No. 1 in this case and explain what is shown on that exhibit?

A Exhibit No. 1 is an area map showing the Lightcap Devonian and Lightcap Pennsylvanian Pools. It should be noted in the title block that we called it an undesignated Penn Pool. I neglected to tell our draftsman to change that.

These two pools have been designated as a Lightcap Devonian and a Lightcap Pennsylvanian Pool. The two completions in the Lightcap Devonian Pool are indicated by a blue circle in Section 6 and 7 near the center of the map. These two wells are Mobil Oil Corporation's Lightcap Land

Company Well No. 1, which is a single completion in the Devonian and Mobil's C. L. O'Brian No. 1, which is a dual Devonian and Pennsylvanian completion and these two Devonian completions are the only two completions in the field.

The Lightcap Land Company No. 1 is a discovery well for the Lightcap Devonian Pool and it was potentialized in May of 1950 for 491.8 barrels of oil per day with a GOR 1472 cubic feet per barrel. In December of 1950, the production had dropped to around 40 barrels a day and the GOR had increased to 13,026 cubic feet per barrel.

MR. NUTTER: What was that initial GOR?

THE WITNESS: The initial GOR was 1472.

Q (By Mr. Sperling) That was in May of 1950, and then in December of 1950, it had increased to 13,026?

A And Mobil's C. L. O'Brian Well No. 1 was completed and potentialized in November of 1950, for 44.7 barrels of oil per day with a GOR of 16,629 cubic feet per barrel.

Q For the record, Mr. Kreuz, would you identify the name and the locations -- you referred to the names, but the locations of the wells, I think you referred to them as being in Section 6 and 7. Is that in Township 7 South and Range 29 East?

A Yes, sir, that's correct. Mobil's Lightcap Land Company Well No. 1 is located 660 out of the Southeast corner of Section 6, T. 7 South, Range 29 East and Mobil's C. L. O'Brian No. 1 is located 660 feet out of the Northeast corner of Section 7, T. 7 South, Range 29 East.

MR. NUTTER: That would be 8 South, wouldn't it?

THE WITNESS: Yes, sir: that is correct, 8 South.

Q (By Mr. Sperling) Now, you indicated that both of these wells were drilled in 1950, late 1950, or May and December -- I guess -- and November.

There has been no development in that pool, is that correct?

A No, sir. This is the only two wells in the Devonian Pool and no other development.

Q Well, does Mobil anticipate any further development?

A No, sir.

Q Would you now refer to what's been marked as Exhibit 2 and explain what is shown on that exhibit and its purpose?

A Exhibit 2 is a set of three sheets showing the allowable schedule for the month of July, August and September. And on this exhibit I have underlined Mobil Oil Corporation's C. L. O'Brian Well No. 1 in the Lightcap

Devonian Pool and submit this exhibit to show that this one well, Mobil C. L. O'Brian is penalized due to a high gas-oil ratio.

The other well in the pool, Mobil's Lightcap Land Company Well No. 1, has a high GOR but it is not penalized because of its capacity, and this is submitted to indicate a need for an increase in the GOR limitations.

Q Now refer to Exhibit No. 3: tell us what it shows.

A Exhibit No. 3 is a production summary from the Lightcap Devonian Pool showing oil and gas production and the GOR for the two wells in this pool beginning in January of 1969, and if you will note the two columns headed "Gas-Oil Ratio" you will notice that both of these wells have experienced a history of high gas-oil ratios and this is not something that has just occurred recently.

Q All right. Please refer to Exhibit No. 4.

A Exhibit No. 4 is a graphic representation of the previous tabulation that was submitted. It shows monthly oil production and gas-oil ratio for Mobil's Lightcap Land Company Well No. 1.

Q Exhibit 5, what does it show?

A Exhibit 5 is a graphic representation of the

production data submitted on Exhibit No. 3 for Mobil's C. L. O'Brian Well No. 1. It shows the gas-oil ratio and oil production by month, starting with January of 1969.

It should be noted here that in January of 1969 oil production was zero and gas production during this month was 1629 MCF. Mobil re-entered this well in January of 1969, for the purpose of working over the Devonian Zone and recompleting this well in the Penn Zone and making it a dual completion.

Now, I have an idea of what happened here is that we just produced a little bit of gas and no oil due to this work-over during January of '69.

Q Now, Mr. Kreuz, has your company conducted any tests which would indicate one way or another whether or not the gas-oil ratio is affected by the rate of production from the wells?

A Yes, sir, we have. This is shown on Exhibits 6 and 7. Exhibit 6 being a plot of gas-oil ratio versus production rate in barrels of oil per day for Mobil's Lightcap Land Company Well No. 1.

We have three points on this graph and the date that these tests were taken is indicated under each point. It can be seen from this graph here that the only conclusion

that you could draw from this is that as your production rate goes up the gas-oil ratio goes down.

The only explanation I have for this peculiarity is our tubing may be loading up and we are experiencing liquid fall out and gas breaking out of the tubing at these low producing rates, low producing rates resulting in a low velocity in the tubing.

Exhibit 7 is the same type of plot for Mobil's C. L. O'Brian Well No. 1. Here we have four test points plotted. The only conclusion that I can draw from this graph is that it gives an indication that as your producing rate increases your COR goes down. Here again I think that is the result of velocity in your tubing string. I can say that these two exhibits do not give us any indication that the COR is rate sensitive.

Q All right. Refer to Exhibit 8 please and tell us what what shows.

A Exhibit 8 is a plot of gas-oil ratio tests that Mobil has taken and submitted to the Commission on their Lightcap Land Company Well No. 1 beginning in 1960.

On this graph we show the oil production in barrels per day, your COR in cubic feet per barrel and

your gas production and MCF per day. It can be seen from this plot that, here again, as your production rate goes down your GOR goes up.

It doesn't look really too significant. If I had made the scale smaller the --- this indicated GOR decrease as production increases wouldn't be near as evident as it is on this plot.

Q Is Exhibit 9 a similar exhibit with reference to the C. L. O'Brian Well No. 1?

A Yes, sir, that's correct. Here we notice this same peculiarity as your production goes down your GOR goes up.

Q Are you presently marketing the casing head gas?

A Yes, sir, we are.

Q Who is the purchaser?

A City Service Oil Company.

Q I assume that is the purpose for Exhibit 10?

A Yes, sir, it is. Exhibit 10 is a letter from Mr. Donald A. Board, with City Service, to Mobil Oil Corporation and in this letter Mr. Board verifies the fact that City Service is purchasing casing head gas from the Lightcap Land Company and C. L. O'Brian leases. Mr. Board further states that this gas is processed in the Bluit

Gas Processing Plant and that City Service shall continue to take all available gas as long as it is economical to do so.

Q From the study that you have made of this pool, or these pools, have you reached a conclusion as to whether the granting of this application will be in the interest of conservation?

A Yes, sir, it will.

Q Do you have anything further to add?

A No, sir, except that perhaps to recommend a limiting GOR for this Lightcap Devonian Pool.

Q What would your recommendation be?

A I would recommend a GOR limitation of thirty thousand cubic feet per barrel for this pool. Now, this is not the limit that we require at this time to produce the two wells in this pool at capacity.

However, in the next case we are applying for the same type of increase in GOR limitation for the Lightcap Pennsylvanian Pool and here we are going to --- we also recommend a limitation of thirty thousand cubic feet per barrel and we are recommending thirty thousand cubic feet per barrel here more or less to aid in administration of the rules of these two pools since they over-lie each

other and in the same area. It would be convenient for Mobil to have the same GOR limitation for both pools.

Q Were these exhibits prepared by you or under your supervision?

A Yes, sir, they were.

MR. SPERLING: At this time, Mr. Examiner, I would like to offer Exhibits 1 through 10 in this case.

MR. NUTTER: Applicant's Exhibits 1 through 10 will be admitted in evidence.

MR. SPERLING: That's all we have.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Kreuz, I notice on your summary of production, Exhibit No. 3, that you don't mention any water production. Do either of these wells make water?

A Yes, sir. If you will let me check my files, Mr. Examiner, I can give you a pretty good indication of -- the Devonian formation makes very little water, from just a trace to maybe one or two barrels per day.

Q I see. How about pressures in these reservoirs?

A We don't have any pressures in the Devonian reservoir.

Q You have no pressure in the Devonian?

A We do have one pressure in the Penn reservoir.

Q Now, evidently, you have had only one low GOR in the entire history of the Devonian; that would have been on the initial potential where your GOR was set 1472?

A Yes, sir.

Q And shortly after that it climbed to thirteen thousand. The wells make very little water. You don't have any pressure information; but, from the available data that we do have it would appear that this is not a water drive reservoir?

A No, sir. It -- in my opinion, it is not. If we do have a water drive it's very slight.

Q Do you think that you have a gas cap or did you have a solution gas drive?

A I think it's a solution gas drive. We don't have enough data from the reservoir to make a firm conclusion as to whether or not we have a gas cap. I would -- in my opinion it's like a solution gas drive reservoir.

Q Evidently, it didn't take long to lower the pressure in the reservoir below the bubble point; your gas came out. Since then, you have been producing a high GOR then?

A Yes, sir.

Q Have you made any tests of either of these Devonian wells to produce them more or less wide open and see just how much they would make in the line of gas?

A No, sir, we haven't. We have never opened these wells up, that I know of.

Q Are the wells pumped?

A No, sir, they are flowing. Both wells are flowing.

Q Now this test that is shown on Exhibit 2, is it the same test as far as GOR is concerned? When was that test taken? Is it shown here on any of these exhibits?

A Yes, sir. On Exhibit 7 this test is shown as the furthestmost point to the right. This test was taken in October 25, 1968.

Q So that would also be then on your Exhibit 9?

A Yes, sir, it is.

Q That would be the last test there, I guess?

A Yes, sir.

Q Then, the test that is on the Lightcap Number 1, which is a GOR of 6750, that would be the test taken February 24 of '69, on Exhibit 6, I guess?

A Yes, sir.

Q And also it shows on Exhibit No. 8 as being the test in February, I presume?

A Yes, sir.

Q Do you have any knowledge as to the choke size or what restrictions, if any, were placed on the flow when these tests were taken?

A I don't know offhand, Mr. Examiner. Let me check my files again and see if I have this information.

On the Lightcap Land Company Well No. 1 on the February 24, 1969 test, it was flowed through a thirty-two sixty-fourths choke and on the C. L. O'Brian No. 1 on the October 25, '68 test, it was flowed through a twenty-four sixty-fourths inch choke.

Q What I was wondering if these wells were produced in a more or less wide open condition if they would behave more like gas wells if the production of oil would, by comparison, be rendered negligible and GOR's would sky rocket?

A This is a possibility.

Q This is contrary to everything that you have seen so far?

A Yes, sir.

Q If you increase the oil production the GOR's go down?

A Yes, sir.

Q I wonder what would happen if you produced them more wide open and increase the gas production. There is a good chance there is not enough oil there to keep up with the gas production, at least for not very long. Then, you would be producing in the characteristics of a gas well?

A Yes, sir; that's a possibility.

MR. NUTTER: Does anyone have any further questions of Mr. Kreuz?

MR. PORTER: I wanted to comment here, Mr. Examiner. I believe that Lightcap No. 1, Section 6, is being produced apparently at the capacity because that gas-oil ratio is not effective.

MR. NUTTER: The thirty-two sixty-fourths inch choke however --

MR. PORTER: That's when he took that test. I don't know whether it is produced in that manner or not. The 750 gas-oil ratio doesn't appear to limit the oil production on it.

THE WITNESS: No, sir; that is correct. The GOR penalized allowable at a GOR of 6750 is greater than the 32 barrels that this well was tested at.

MR. NUTTER: Evidently, the well in the last

two or three months has only been making about nine or ten barrels of oil per day, from your Exhibit 3?

THE WITNESS: I think perhaps this is because our operating people are concerned with the gas limit on these wells and trying to stay within the gas limit.

I might add, too, that these -- both of these leases are in an out-lying area. Mobil has no other production nearby.

MR. NUTTER: How long has the gas been sold from these wells; just in recent years since this development immediately east?

A Yes, sir; that is correct. Our contract with City Service was dated June 4, 1968, and we didn't start selling gas until after that.

MR. NUTTER: If there are no further questions of the witness he may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further, Mr. Sperling?

MR. SPERLING: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 4210? We will take the case under advisement and call Case No. 4211.

I N D E X

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[illegible]

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

Blenda Burba

Notary Public

My Commission Expires:

March 12, 1973

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiners hearing of Case No. 9210 heard by me on 9/10 1967.

Arthur, Examiner
New Mexico Oil Conservation Commission

I do hereby certify that the foregoing is
a correct record of the proceedings in
the case of the Board of Health in
the case of the Board of Health in

New Boston 013 Conservative Organization

Docket No. 25-69

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 10, 1969

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
Elvis A. Utz, Alternate Examiner:

CASE 4210: Application of Mobil Oil Corporation for a special gas-oil ratio limitation, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 506 of the Commission Rules and Regulations to provide for a limiting gas-oil ratio in excess of the existing ratio of 2000 cubic feet of gas per barrel of oil in the Lightcap (Devonian) Pool, Chaves County, New Mexico.

CASE 4211: Application of Mobil Oil Corporation for a special gas-oil ratio limitation, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 506 of the Commission Rules and Regulations to provide for a limiting gas-oil ratio in excess of the existing ratio of 2000 cubic feet of gas per barrel of oil in the Lightcap-Pennsylvanian Pool, Chaves County, New Mexico.

CASE 3857: (Reopened)

In the matter of Case No. 3857 being reopened pursuant to the provisions of Order No. R-3504, which order established 160-acre spacing units and 80-acre proportional factors of 4.77 for the Tulk-Pennsylvanian Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on less than 160-acre spacing units and why the 80-acre proportional factor of 4.77 should or should not be retained.

CASE 4212: Application of General American Oil Company of Texas for an unorthodox oil well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its Maddren "B" Well No. 12, a producing oil well, at an unorthodox location 1295 feet from the West line and 1815 feet from the South line of Section 27, Township 17 South, Range 30 East, as an infill well in its Grayburg Jackson Premier Unit Waterflood Project area, Grayburg-Jackson Pool, Eddy County, New Mexico.

CASE 4213: Application of Texo Oil Company for pool redelineation, creation of a new gas pool, an unorthodox gas well location, and non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the redelineation of the vertical limits of the South Corbin-Queen Pool to permit the

(Case 4213 continued)

creation of a new basal Penrose gas pool for its Buffalo unit Well No. 11 located at an unorthodox gas well location 2310 feet from the South line and 330 feet from the West line of Section 35, Township 18 South, Range 33 East, Lea County, New Mexico. Applicant further seeks approval of an 80-acre non-standard gas proration unit comprising the N/2 SW/4 of said Section 35, to be dedicated to the above-described well.

CASE 4214: Application of Amerada Hess Corporation for approval of an unorthodox injection well location and the amendment of Order No. R-2197, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox water injection well location for its Langlie-Mattix Woolworth Unit Well No. 710 at a point 1950 feet from the North line and 50 feet from the East line of Section 27, Township 24 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant also seeks further amendment of Order No. R-2197 to provide for an administrative procedure whereby additional injection wells might be approved at locations no closer than 50 feet to the outer boundary of the unit area.

CASE 4215: Application of Standard Oil Company of Texas to directionally drill, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Smith Federal Well No. 1, a wildcat located 1650 feet from the South and East lines of Section 34, Township 20 South, Range 24 East, Eddy County, New Mexico. Said well was drilled to a total depth of 7845 feet. Applicant proposes to plug the well back to approximately 5500 feet, set a whipstock at said depth and directionally drill to a depth of approximately 7800 feet to bottom said well in the Cisco formation at a point approximately 200 feet East of the present bottom hole location.

CASE 4216: Application of Tamarack Petroleum Company, Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northeast Pearl-Queen Unit Area comprising 920 acres, more or less, of State and fee lands in Sections 15, 22, 23, and 24, Township 19 South, Range 35 East, Pearl-Queen Pool, Lea County, New Mexico.

Examiner Hearing - September 10, 1969

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Docket No. 25-69

CASE 4217: Application of Tamarack Petroleum Company, Inc. for a water-flood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a water-flood project in its Northeast Pearl-Queen Unit Area by the injection of water into the Queen formation through eight wells located in Sections 15, 22, 23, and 24, Township 19 South, Range 35 East, Pearl-Queen Pool, Lea County, New Mexico.

CASE 4181: (Continued from the August 6, 1969, Examiner Hearing)

Application of J. M. Huber Corporation for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete it Stoltz Federal Well No. 1 located in Unit J of Section 12, Township 15 South, Range 34 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Morton-Wolfcamp Pool and the disposal of produced salt water through the 8 5/8 X 4 1/2-inch casing-casing annulus into the San Andres, Tubb, Abo, and possibly other formations in the open-hole interval from approximately 4330 feet to 9750 feet.

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. 4210
Order No. R-3847

APPLICATION OF MOBIL OIL CORPORATION
FOR A SPECIAL GAS-OIL RATIO LIMITATION,
CHAVES COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 10, 1969,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 14th day of October, 1969, 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, Mobil Oil Corporation, seeks an
exception to Rule 506 of the Commission Rules and Regulations to
provide for a limiting gas-oil ratio in excess of the existing
ratio of 2000 cubic feet of gas per barrel of oil in the Lightcap
(Devonian) Pool, Chaves County, New Mexico.

(3) That the reservoir characteristics of the subject pool
presently available justify the establishment of a gas-oil ratio
limitation of 5000 cubic feet of gas per barrel of liquid hydro-
carbons.

(4) That in order to afford to the owner of each property
in the Lightcap (Devonian) Pool the opportunity to produce his
just and equitable share of the oil and gas in the subject pool

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CASE No. 4210

Order No. R-3847

and for this purpose to use his just and equitable share of the reservoir energy, a limiting gas-oil ratio of 5000 cubic feet of gas per barrel of liquid hydrocarbons should be established for the subject pool.

(5) That approval of the subject application will prevent waste and protect correlative rights, provided the flaring or venting of gas in the Lightcap (Devonian) Pool is prohibited.

(6) That in order to assure the protection of correlative rights, the operator of each well in the Lightcap (Devonian) Pool should file a new gas-oil ratio test with the Commission's Hobbs District Office on or before November 1, 1969.

IT IS THEREFORE ORDERED:

(1) That, effective November 1, 1969, the limiting gas-oil ratio in the Lightcap (Devonian) Pool, Chaves County, New Mexico, shall be 5000 cubic feet of gas for each barrel of oil produced; that, effective November 1, 1969, each proration unit in the Lightcap (Devonian) Pool shall produce only that volume of gas equivalent to 5000 multiplied by top unit oil allowable for the pool.

(2) That the operator of each well in the Lightcap (Devonian) Pool shall file a new gas-oil ratio test with the Commission's Hobbs District Office on or before November 1, 1969, and shall furnish a schedule of test dates to the Commission's Hobbs District Office in order that the tests may be witnessed.

(3) That no gas shall be flared or vented in the Lightcap (Devonian) Pool more than 60 days after a well begins to produce or 60 days after the date of issuance of this order, whichever is later. Any operator desiring to obtain an exception to this provision shall submit to the Secretary-Director of the Commission an application for such exception with a statement setting forth the facts and circumstances justifying it. The Secretary-Director is hereby authorized to approve such an application if he determines that the exception is necessary to prevent waste. If the Secretary-Director declines to grant administrative approval of the requested exception, the matter shall be set for hearing if the operator so requests.

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CASE No. 4210
Order No. R-3847

(4) 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


David E. Cargo
DAVID E. CARGO, Chairman

Alex J. Armijo
ALEX J. ARMILLO, Member

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

ear/

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. 3882
Order No. R-3545

APPLICATION OF SOLAR OIL COMPANY
FOR A SPECIAL GAS-OIL RATIO LIMITA-
TION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 23, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 31st day of October, 1968, 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, Solar Oil Company, seeks the establishment of a special gas-oil ratio limitation of 6,000 cubic feet of gas for each barrel of oil produced in the Teague-Blinbry Pool, Lea County, New Mexico.

(3) That approval of the subject 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.

(4) That approval of the subject application will prevent waste and protect correlative rights, provided the flaring or venting of gas in the Teague-Blinbry Pool is prohibited.

(5) That in order to assure the protection of correlative rights, the operator of each well in the Teague-Blinbry Pool

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CASE No. 3882

Order No. R-3545

should file a new gas-oil ratio test with the Commission's Hobbs District Office on or before January 15, 1969.

IT IS THEREFORE ORDERED:

(1) That, effective December 1, 1968, the limiting gas-oil ratio in the Teague-Blinebry Pool, Lea County, New Mexico, shall be 6,000 cubic feet of gas for each barrel of oil produced; that, effective December 1, 1968, each proration unit in the Teague-Blinebry Pool shall produce only that volume of gas equivalent to 6,000 multiplied by top unit oil allowable for the pool.

(2) That the operator of each well in the Teague-Blinebry Pool shall file a new gas-oil ratio test with the Commission's Hobbs District Office on or before January 15, 1969, and shall furnish a schedule of test dates to the Commission's Hobbs District Office in order that the tests may be witnessed.

(3) That no gas shall be flared or vented in the Teague-Blinebry Pool more than 60 days after a well begins to produce or 60 days after the date of issuance of this order, whichever is later. Any operator desiring to obtain an exception to this provision shall submit to the Secretary-Director of the Commission an application for such exception with a statement setting forth the facts and circumstances justifying it. The Secretary-Director is hereby authorized to approve such an application if he determines that the exception is necessary to prevent waste. If the Secretary-Director declines to grant administrative approval of the requested exception, the matter shall be set for hearing if the operator so requests.

(4) 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

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

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

S E A L

esr/

LEONARD QUEEN SOUTH CONTINUED

COMPANY	WELL	JULY	COMPANY	WELL	JULY
LEASE	UNIT S.T.R.	DAILY GOR.	LEASE	UNIT S.T.R.	DAILY GOR.
TEXAS PACIFIC OIL CO.			LOVINGTON ABO		
South Leonard Unit			Top Allowable 192 GOR Limit 2,000		
Tr. 3	(4) 7 E 24-26-37	4 TSTM	AMERADA PETROLEUM CORP.		
"	(10) 8 F "	5 "	State LA(191) 8 A 1-17-36	191	666
Tr. 4	(26) 9 G "	26 2076	"	(184) 9 B "	184 655
Tr. 3	6 H "	T.A.	"	(94) 11 G "	90 627
"	11 I "	Input	"	(8) 12 K "	8 572
TOTAL	3	35	TOTAL	4	473
TEXAS PACIFIC OIL CO.			ASHLAND OIL & REFINING CO.		
Project. Allowable (10 x 64 = 640).			C.S.Caylor(74) 3 C 6-17-37 74 1326		
South Leonard Unit			"	(2) 4 F "	2 1750
Tr. 3	13 K 24-26-37	2	TOTAL	2	76
Tr. 4	3 D "	8	ATLANTIC RICHFIELD CO.		
"	4 C "	3	St.182-A(114) 4 K 31-16-37 110 351		
"	5 B "	8	CITIES SERVICE OIL CO.		
"	14 J "	4	State AE(105) 1 M 36-16-36 105 86		
"	15 M "	3	"	(142) 2Y L "	142 366
Tr. 1	1 N 13-26-37	Input	TOTAL	2	247
Tr. 2	2 A 23-26-37	"	GETTY OIL CO.		
Tr. 3	12 L 24-26-37	T.A.	State M (21) 2 I 36-16-36	21	810
Tr. 4	16 N "	Input	"	(120) 3 J "	100 558
TOTAL	6	28	State P (30) 2 D 32-16-37	30	433
POOL TOTAL	10	64	"	(36) 3 M "	36 806
LIGHTCAP DEVONIAN			"	(33) 4 N "	33 939
Top Allowable 150 GOR Limit 2,000			TOTAL	5	220
MOBIL OIL CORP.			PAN AMERICAN PETROLEUM CORP.		
L'Cap. (32) 1 P 6-8-30	32	**6750	State E-18(139) 15C 1-17-36 130 374		
O'Brien (48) 1 A 7-9-30	33	*9000	"	(95) 16 D "	80 242
POOL TOTAL	2	65	"	(136) 17 F "	130 301
LIGHTCAP PENN			"	(27) 18 A 2-17-36	27 630
Top Allowable 150 GOR Limit 2,000			"	(90) 19 E 1-17-36	85 367
MOBIL OIL CORP.			"	(42) 20 H 2-17-36	42 1167
C.L.O'Brien(84) 1A 7-8-30	17	*18000	"	(20) 21 B "	20 **2000
LITTLE LUCKY LAKE DEVONIAN			"	(17) 22 G "	17 630
Top Allowable 363 GOR Limit 2,000			TOTAL	8	531
TEXACO INC.			SKELLY OIL CO.		
Perry Fed. (132) 1G 29-15-30	132	**4300	Caylor (58) 3 B 6-17-37 58 397		
"	(15) 2 O "	15 TSTM	"	(11) 4 G "	10 1091
"	(385) 3 K "	363 940	State O (48) 9 M 31-16-37	48	542
V. G. Kinahan Federal			Acreage factor 1.225		
"	(10) 1 O 20-15-30	10 TSTM	"	(53) 10 L "	53 660
POOL TOTAL	4	520	Acreage factor 1.250		
LITTMAN SAN ANDRES			"	(27) 11 O "	10 1259
Top Allowable 64 No GOR Limit			"	(44) 12 J "	44 1182
ATLANTIC RICHFIELD CO.			"	(9) 14 I "	9 1444
East Eunice Federal			State Q (77) 3 P 36-16-36	77	571
"	(26) 1 N 21-21-38	13 461	"	(68) 4 O "	68 603
Acreage factor 1.150			State R (43) 5 N "	43 791	
SOHIO PETROLEUM CO.			"	(134) 6 K "	134 485
Littman San Andres Unit			State S (116) 2 P 35-16-36	116 466	
Tr. 1	(8) 1 A 17-21-38	5	TOTAL	12	670
Tr. 2	(17) 3 I 8-21-38	8	SUN OIL CO. - DX DIVISION		
Tr. 3	(10) 1 N 9-21-38	5	Caylor (143) 3 D 6-17-37 143 418		
Acreage factor 1.125			Acreage factor .925		
"	(8) 2 M "	3	"	(33) 7 E "	33 187
Tr. 4	(13) 1 C 16-21-38	8	Acreage factor .925		
Acreage factor 1.125			TOTAL	2	176
Tr. 2	2 P 8-21-38	1	POOL TOTAL	36	2503
Tr. 3	3 K 9-21-38	1	LOVINGTON DEVONIAN		
Acreage factor 1.125			(80 Acre Spacing)		
Tr. 4	2 D 16-21-38	1	Top Allowable 427 GOR Limit 2,000		
TOTAL	5	29	UNION OIL COMPANY OF CALIFORNIA		
POOL TOTAL	6	42	Midway St.(350) 1 F 12-17-36 350 154		

BEFORE EXAMINER NUTTER

OIL COMMISSION

PERMIT NO. 2

CASE NO. 4210

BEFORE EXAMINER NUTTER
OIL COMMISSION
CASE NO. 4210

LEONARD QUEEN SOUTH CONTINUED

COMPANY	WELL	JULY	GOR.	COMPANY	WELL	JULY	GOR.
LEASE	UNIT S.T.R.	DAILY		LEASE	UNIT S.T.R.	DAILY	
TEXAS PACIFIC OIL CO.				LOVINGTON ABO			
South Leonard Unit				Top Allowable 192 GOR Limit 2,000			
Tr. 3	(4) 7 E	24-26-37	4	AMERADA PETROLEUM CORP.			
"	(10) 8 F	"	5	State LA(191) 8 A	1-17-36	191	666
Tr. 4	(26) 9 G	"	26	"	(184) 9 B	"	184
Tr. 3	6 H	"	T.A.	"	(94) 11 G	"	90
"	11 I	"	Input	"	(8) 12 K	"	8
TOTAL	3		35	TOTAL	4		473
TEXAS PACIFIC OIL CO.				ASHLAND OIL & REFINING CO.			
Project. Allowable (10 x 64 = 640).				C.S.Caylor(74) 3 C			
South Leonard Unit				"	(2) 4 F	"	2
Tr. 3	13 K	24-26-37	2	TOTAL	2		76
Tr. 4	3 D	"	8	ATLANTIC RICHFIELD CO.			
"	4 C	"	3	St.182-A(114) 4 K			
"	5 B	"	8	31-16-37			
"	14 J	"	4	110			
"	15 M	"	3	351			
Tr. 1	1 N	13-26-37	Input	CITIES SERVICE OIL CO.			
Tr. 2	2 A	23-26-37	"	State AE(105) 1 M			
Tr. 3	12 L	24-26-37	T.A.	"	(142) 2Y L	"	142
Tr. 4	16 N	"	Input	"			366
TOTAL	6		28	TOTAL	2		247
POOL TOTAL	10		64	GETTY OIL CO.			
LIGHTCAP DEVONIAN				State M (21) 2 I			
Top Allowable 150 GOR Limit 2,000				"	(120) 3 J	"	100
MOBIL OIL CORP.				State P (30) 2 D			
L'Cap. (32) 1 P	6-8-30	32	**6750	"	(36) 3 M	"	36
O'Brien (48) 1 A	7-9-30	33	*9000	"	(33) 4 N	"	33
POOL TOTAL	2		65	TOTAL	5		220
LIGHTCAP PENN				PAN AMERICAN PETROLEUM CORP.			
Top Allowable 150 GOR Limit 2,000				State E-18(139) 15C			
MOBIL OIL CORP.				"	(95) 16 D	"	80
C.L.O'Brien(84) 1A	7-8-30	17	*18000	"	(136) 17 F	"	130
LITTLE LUCKY LAKE DEVONIAN				"	(27) 18 A	2-17-36	27
Top Allowable 363 GOR Limit 2,000				"	(90) 19 E	1-17-36	85
TEXACO INC.				"	(42) 20 H	2-17-36	42
Perry Fed.(132) 1G	29-15-30	132	**4300	"	(20) 21 B	"	20
"	(15) 2 O	"	15	"	(17) 22 G	"	17
"	(385) 3 K	"	363	TOTAL	8		531
V. G. Kinahan Federal				SKELLY OIL CO.			
"	(10) 1 O	20-15-30	10	Caylor (58) 3 B			
POOL TOTAL	4		520	"	(11) 4 G	"	10
LITTMAN SAN ANDRES				State O (48) 9 M			
Top Allowable 64 No GOR Limit				31-16-37			
ATLANTIC RICHFIELD CO.				48			
East Eunice Federal				Acreage factor 1.225			
"	(26) 1 N	21-21-38	13	"	(53) 10 L	"	53
Acreage factor 1.150			461	Acreage factor 1.250			
SONIO PETROLEUM CO.				"	(27) 11 O	"	10
Littman San Andres Unit				"	(44) 12 J	"	44
Tr. 1	(8) 1 A	17-21-38	5	"	(9) 14 I	"	9
Tr. 2	(17) 3 I	8-21-38	8	State Q (77) 3 P			
Tr. 3	(10) 1 N	9-21-38	5	36-16-36			
Acreage factor 1.125			940	77			
"	(8) 2 M	"	3	Acreage factor 1.250			
Tr. 4	(13) 1 C	16-21-38	8	"	(68) 4 O	"	68
Acreage factor 1.125			940	State R (43) 5 N			
Tr. 2	2 P	8-21-38	Input	43			
Tr. 3	3 K	9-21-38	"	(134) 6 K			
Acreage factor 1.125			"	134			
Tr. 4	2 D	16-21-38	"	State S (116) 2 P			
TOTAL	5		29	35-16-36			
POOL TOTAL	6		42	116			
				660			
				1259			
				1182			
				1444			
				571			
				603			
				791			
				485			
				466			
				670			
				418			
				187			
				176			
				2503			
				LOVINGTON DEVONIAN			
				(80 Acre Spacing)			
				Top Allowable 427 GOR Limit 2,000			
				UNION OIL COMPANY OF CALIFORNIA			
				Midway St.(350) 1 F			
				12-17-36			
				350			
				2 B			
				351			
				701			
				(74) POOL TOTAL 2			

BEFORE EXAMINER NUTTER
OIL COMMISSION
CASE NO. 4210

LEAMEX PENN CONT'D.

COMPANY	WELL	AUGUST	
LEASE	UNIT S.T.R.	DAILY	GOR
PHILLIPS PETROLEUM CORP. CONT'D.			
Leamex (42)	7 F	24-17-33	42

POOL TOTAL	2	99
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LEAMEX WOLF CAMP

Top Allowable	290	No GOR Limit
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PHILLIPS PETROLEUM CO.

Leamex (40)	9 O	16-17-33	30
"	(28)	10 I	24

POOL TOTAL	2	54
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LEONARD SEVEN RIVERS

Top Allowable	62	GOR Limit 2,000
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TENNECO OIL CO.

Federal (4)	1 J	11-26-37	3	TSTM
"	(2)	2 N	2	**3000

POOL TOTAL	2	5
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LEONARD QUEEN SOUTH

Top Allowable	62	GOR Limit 10,000
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TENNECO OIL CO.

Leon. Fed. (1)	5 I	14-26-37	1	**60500
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TEXAS PACIFIC OIL CO.

South Leonard Unit

Tr. 3 (4)	7 E	24-26-37	4	TSTM
"	(10)	8 F	5	"
Tr. 4 (26)	9 G	"	26	2076

TOTAL	3	35
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TEXAS PACIFIC OIL CO.

Project. Allowable (10 x 62 = 620).

South Leonard Unit

Tr. 3	13 K	24-26-37	2
Tr. 4	3 D	"	8
"	4 C	"	3
"	5 B	"	8
"	14 J	"	4
"	15 M	"	3
Tr. 1	1 N	13-26-37	Input
Tr. 2	2 A	23-26-37	"
Tr. 3	6 H	"	T.A.
"	11 I	"	Input
"	12 L	24-26-37	T.A.
Tr. 4	16 N	"	Input

TOTAL	6	28
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POOL TOTAL	10	64
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LIGHTCAP DEVONIAN

Top Allowable	145	GOR Limit 2,000
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MOBIL OIL CORP.

L'Cap. (32)	1 P	6-8-30	32	**6750
O'Brien (48)	1 A	7-9-30	32	*9000

POOL TOTAL	2	64
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LIGHTCAP PENN

Top Allowable	145	GOR Limit 2,000
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MOBIL OIL CORP.

C.L.O'Brien (84)	1A	7-8-30	16	*18000
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LITTLE LUCKY LAKE DEVONIAN

Top Allowable	352	GOR Limit 2,000
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TEXACO INC.

Perry Fed. (132)	1G	29-15-30	132	**4300
"	(15)	2 O	15	TSTM
"	(385)	3 K	352	940

V. C. Kinahan Federal

"	(51)	1 O	20-15-30	51	TSTM
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POOL TOTAL	4	550
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COMPANY	WELL	AUGUST	
LEASE	UNIT S.T.R.	DAILY	GOR

LITTMAN SAN ANDRES

Top Allowable 62 No GOR Limit

ATLANTIC RICHFIELD CO.

East Eunice Federal

"	(26)	1 N	21-21-38	13	461
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Acreage factor 1.150

SOHIO PETROLEUM CO.

Littman San Andres Unit

Tr. 1 (8)	1 A	17-21-38	5
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Tr. 2 (17)	3 I	8-21-38	8
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Tr. 3 (10)	1 N	9-21-38	5
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Acreage factor 1.125

"	(3)	2 A	"	3
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Tr. 4 (13)	1 C	16-21-38	8
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Acreage factor 1.125

Tr. 2	2 P	8-21-38	Input
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Tr. 3	3 K	9-21-38	"
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Acreage factor 1.125

Tr. 4	2 D	16-21-38	"
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TOTAL	5	29
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POOL TOTAL	6	42
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LONE MISSISSIPPIAN

Top Allowable 186 GOR Limit 2,000

BWP, INC.

General American Federal

"	(17)	1 E	7-7-31	17	**10900
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LOVINGTON ABC

Top Allowable 186 GOR Limit 2,000

AMERADA HESS CORP.

State LA (191)	8 A	1-17-36	186	666
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"	(184)	9 B	"	184	655
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"	(94)	11 G	"	90	627
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"	(8)	12 K	"	8	572
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TOTAL	4	458
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ASHLAND OIL & REFINING CO.

C.S. Caylor (74)	3 C	6-17-37	74	1326
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"	(2)	4 F	"	2	1750
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TOTAL	2	76
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ATLANTIC RICHFIELD CO

St. 182-A (114)	4 K	31-16-37	110	351
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CITIES SERVICE OIL CO.

State AE (105)	1 M	36-16-36	105	86
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"	(142)	2Y L	"	142	366
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TOTAL	2	247
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GETTY OIL CO.

State M (21)	2 L	26-16-36	21	810
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"	(120)	3 J	"	100	558
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State P (39)	2 F	32-16-37	39	433
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"	(36)	3 N	"	36	806
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"	(23)	4 R	"	33	939
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TOTAL	5	220
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PAN AMERICAN PETROLEUM CORP.

State E-18 (139)	15 C	1-17-36	130	374
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"	(25)	16 D	"	80	242
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"	(136)	17 F	"	130	301
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"	(27)	18 A	2-17-36	27	630
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"	(90)	19 E	1-17-36	85	367
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"	(42)	20 H	2-17-36	42	1167
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"	(20)	21 B	"	20	**2000
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"	(17)	22 G	"	17	630
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TOTAL	8	531
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COMPANY	WELL	SEPTEMBER	COMPANY	WELL	SEPTEMBER
LEASE	UNIT S.T.R.	DAILY GOR.	LEASE	UNIT S.T.R.	DAILY GOR.
<u>LEONARD SEVEN RIVERS</u>					
Top Allowable	62	GOR Limit 2,000	SOHIO PETROLEUM CO. CONT'D		
TENNECO OIL CO.			Littman San Andres Unit		
Federal (4)	1 J 11-26-37	3 TSTM	Tr. 4 (13) 1 C 16-21-38	8	
" (2)	2 N "	2 **3000	Acresage factor 1.125		
POOL TOTAL	2	5	Tr. 2 2 P 8-21-38	Input	
<u>LEONARD QUEEN SOUTH</u>					
Top Allowable	52	GOR Limit 10,000	Tr. 3 3 K 9-21-38	"	
TENNECO OIL CO.			Acresage factor 1.125		
Leon. Fed. (1)	5 I 14-26-37	1 **60500	Tr. 4 2 D 16-21-38	"	
TEXAS PACIFIC OIL CO.			TOTAL	5	29
South Leonard Unit			POOL TOTAL	6	42
Tr. 3 (4) 7 E 24-26-37	4 TSTM		<u>LONE MISSISSIPPIAN</u>		
" (10) 8 F "	5 "		Top Allowable	186	GOR Limit 2,000
Tr. 4 (26) 9 G "	26 2076		BWP, INC.		
TOTAL	3	35	General American Federal		
TEXAS PACIFIC OIL CO.			" (17) 1 E 7-7-31	17 **10909	
Project. Allowable (10 x 62 = 620).			<u>LOVINGTON A80</u>		
South Leonard Unit			Top Allowable	186	GOR Limit 2,000
Tr. 3 13 K 24-26-37	2		AMERADA HESS CORP.		
Tr. 4 3 D "	8		State 1A (191) 8 A 1-17-36	157	666
" 4 C "	3		" (184) 9 B "	184	655
" 5 B "	8		" (95) 11 G "	95	603
" 14 J "	4		" (8) 12 K "	8	572
" 15 M "	3		TOTAL	4	444
Tr. 1 1 N 13-26-37	Input		ASHLAND OIL & REFINING CO.		
Tr. 2 2 A 23-26-37	"		C.S. Caylor (74) 3 C 6-17-37	74	1326
Tr. 3 6 H "	T.A.		" (2) 4 F "	2	1750
" 11 I "	Input		TOTAL	2	76
" 12 L 24-26-37	T.A.		ATLANTIC RICHFIELD CO.		
Tr. 4 15 N "	Input		St. 182-A (114) 4 K 31-16-37	110	351
TOTAL	6	28	CITIES SERVICE OIL CO.		
POOL TOTAL	10	64	State AE (105) 1 M 36-16-36	105	86
<u>LIGHTCAP DEVONIAN</u>					
Top Allowable	145	GOR Limit 2,000	" (142) 27 L "	142	366
MOBIL OIL CORP.			TOTAL	2	247
L'Cap. (32) 1 P 6-8-30	32 **6750		GETTY OIL CO.		
O'Brien (48) 1 A 7-9-30	32 **9000		State M (21) 2 I 36-16-36	21	810
POOL TOTAL	2	64	" (120) 3 J "	100	558
<u>LIGHTCAP PENN</u>					
Top Allowable	145	GOR Limit 2,000	State P (30) 2 D 32-16-37	30	433
MOBIL OIL CORP.			" (36) 3 M "	36	806
C.L. O'Brien (84) 1 A 7-8-30	16 **18000		" (33) 4 N "	33	939
<u>LITTLE LUCKY LAKE DEVONIAN</u>					
Top Allowable	352	GOR Limit 2,000	TOTAL	5	220
TEXACO INC.			PAN AMERICAN PETROLEUM CORP.		
Perry Fed. (132) 1 G 29-15-30	132 **43000		State E-18 (139) 15 C 1-17-36	130	374
" (15) 2 O "	15 TSTM		" (95) 16 D "	80	242
" (385) 3 K "	352 940		" (136) 17 F "	130	301
V.G. Kinahan Federal			" (27) 18 A 2-17-36	27	630
" (51) 1 O 20-15-30	51 TSTM		" (90) 19 E 1-17-36	85	367
POOL TOTAL	4	550	" (42) 20 H 2-17-36	42	1167
<u>LITTMAN SAN ANDRES</u>					
Top Allowable	62	No GOR Limit	" (20) 21 B "	20 **2000	
ATLANTIC RICHFIELD CO.			" (17) 22 G "	17	630
East Eunice Federal			TOTAL	8	531
" (26) 1 N 21-21-38	13 461		SKELLY OIL CO.		
Acresage factor 1.150			Caylor (58) 3 B 6-17-37	58	397
SOHIO PETROLEUM CO.			" (11) 4 E "	10	1091
Littman San Andres Unit			State O (48) 9 M 31-16-37	48	542
Tr. 1 (8) 1 A 17-21-38	5		Acresage factor 1.225		
Tr. 2 (17) 3 I 8-21-38	8		" (53) 10 L "	53	660
Tr. 3 (10) 1 N 9-21-38	5		Acresage factor 1.250		
Acresage factor 1.125			" (27) 11 O "	10	1259
" (8) 2 M "	3		" (44) 12 J "	44	1182
(73)			" (9) 14 I "	9	1444
			State Q (77) 3 P 36-16-36	77	571
			" (68) 4 O "	68	603
			State R (43) 5 N "	43	791
			" (134) 6 K "	134	485
			State S (116) 2 P 35-16-36	116	466
			TOTAL	12	670

PRODUCTION SUMMARY
LIGHTCAP DEVONIAN POOL

Month	Year	Lightcap Land Co. Well No. 1			C. L. O'Brien Well No. 1		
		Oil Bbls	Gas Mcf	GOR cf/Bbl	Oil Bbls	Gas Mcf	GOR cf/Bbl
Jan.	1968	246	4,794	19,488	229	3,990	17,424
Feb.		157	3,035	19,331	289	4,970	17,197
March		212	4,099	19,335	310	5,349	17,255
April		231	4,389	19,000	291	4,919	16,904
May		246	4,737	19,256	306	5,315	17,369
June		207	4,002	19,333	298	5,177	17,372
July		195	3,866	19,826	305	5,332	17,482
Aug.		289	5,684	19,668	759	13,244	17,449
Sept.		242	4,443	18,360	350	6,725	19,214
Oct.		135	3,823	28,319	374	8,498	22,722
Nov.		306	3,189	10,422	700	7,387	10,553
Dec.		325	3,826	11,772	78	7,447	95,474
Jan.	1969	419	3,405	8,126	0	1,629	--
Feb.		493	4,883	9,905	588	7,411	12,604
March		570	3,985	6,991	614	12,616	20,547
April		153	4,479	29,275	200	14,164	70,820
May		264	5,095	19,299	759	8,745	11,522
June		300	5,043	16,810	999	10,025	10,035
July		271	4,577	16,889	708	11,181	15,792

*Recommend
GOR 30,000 to 1
for Devonian*

CRKreuz/bje
9/5/69

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3
CASE NO. 4210

MADE TO ORDER TO 1 INCH 46 1323
NEUFEL & SONS CO.

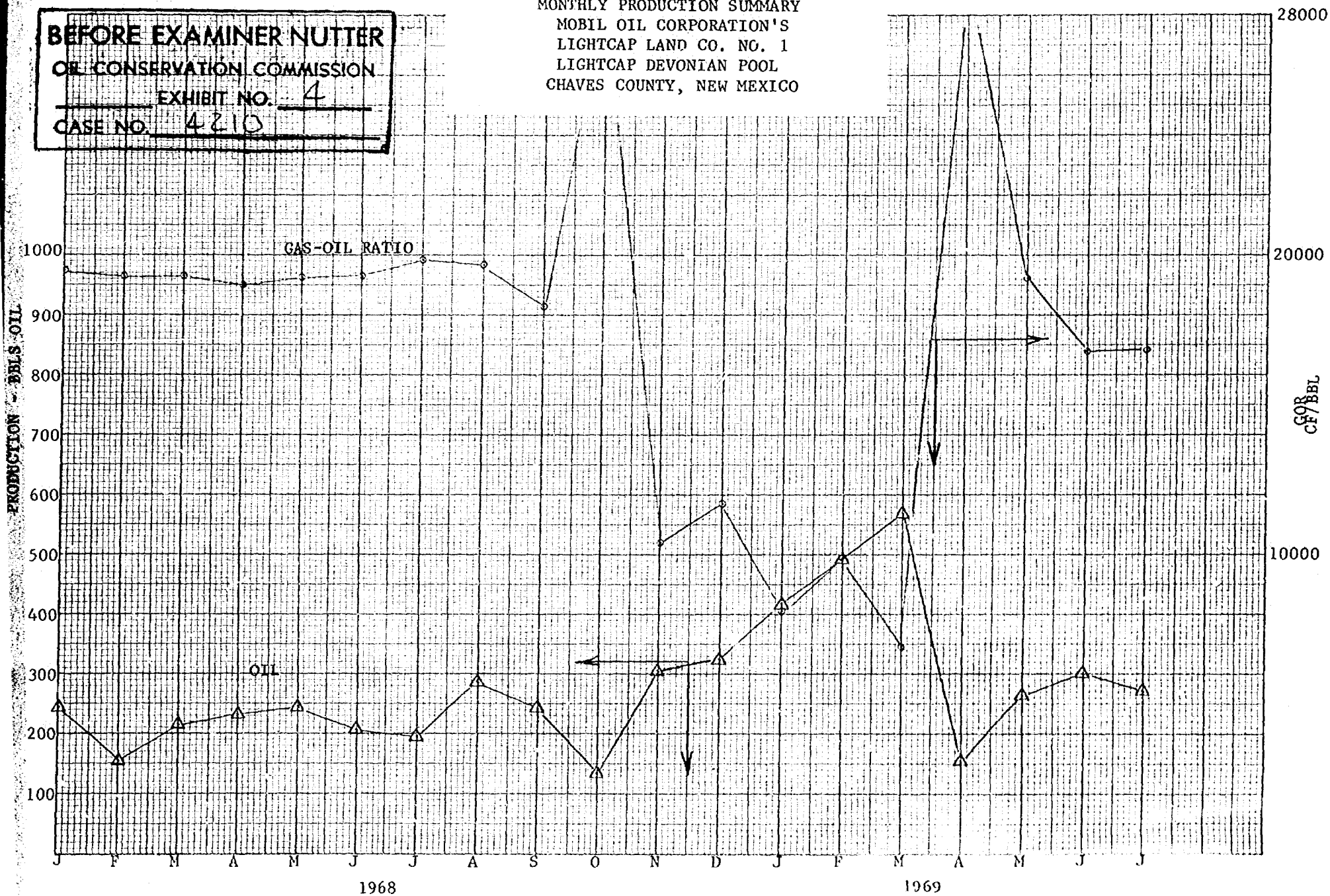
MONTHLY PRODUCTION SUMMARY
MOBIL OIL CORPORATION'S
LIGHTCAP LAND CO. NO. 1
LIGHTCAP DEVONIAN POOL
CHAVES COUNTY, NEW MEXICO

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

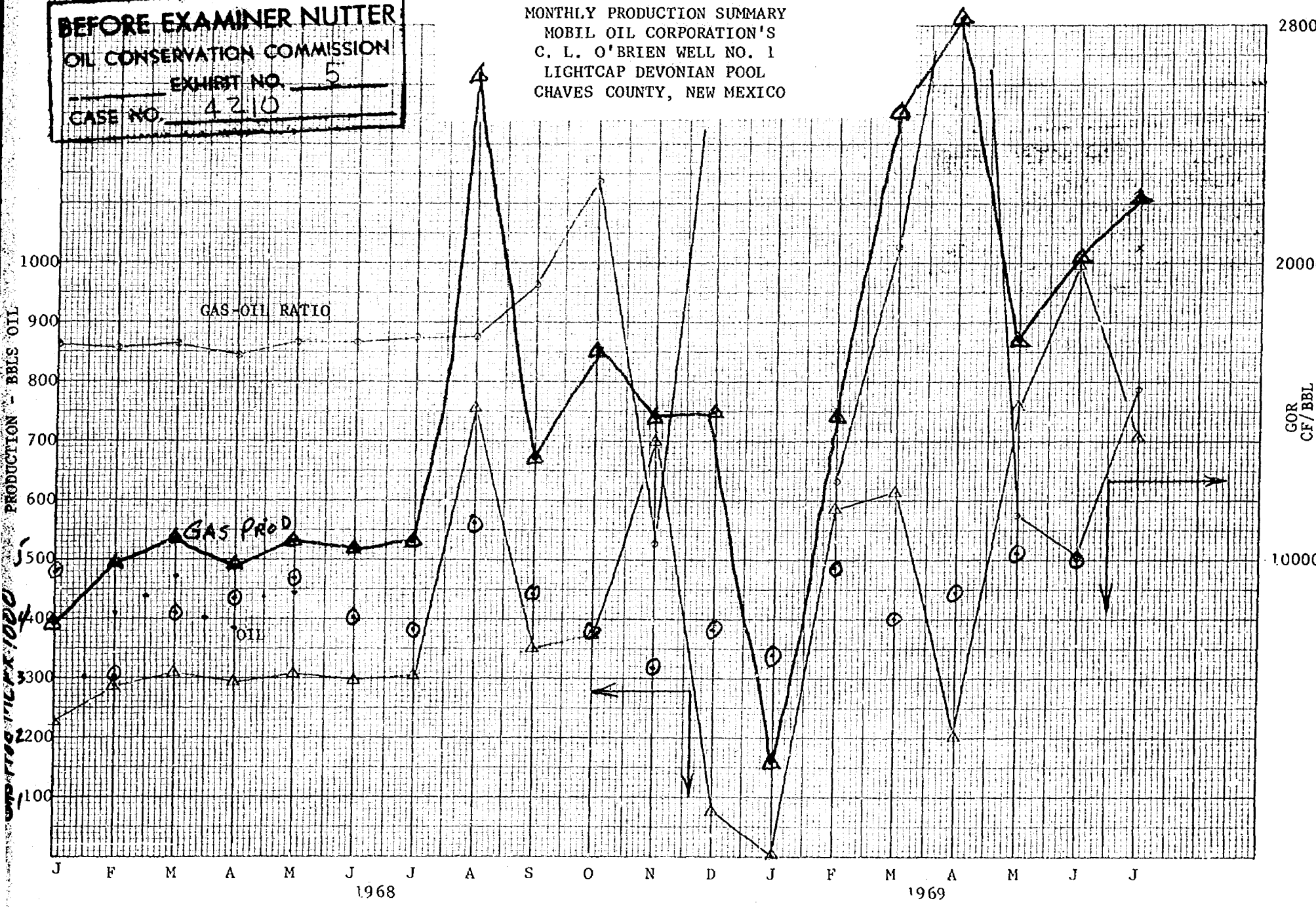
EXHIBIT NO. 4

CASE NO. 4210



BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. 5
 CASE NO. 4210

MONTHLY PRODUCTION SUMMARY
 MOBIL OIL CORPORATION'S
 C. L. O'BRIEN WELL NO. 1
 LIGHTCAP DEVONIAN POOL
 CHAVES COUNTY, NEW MEXICO



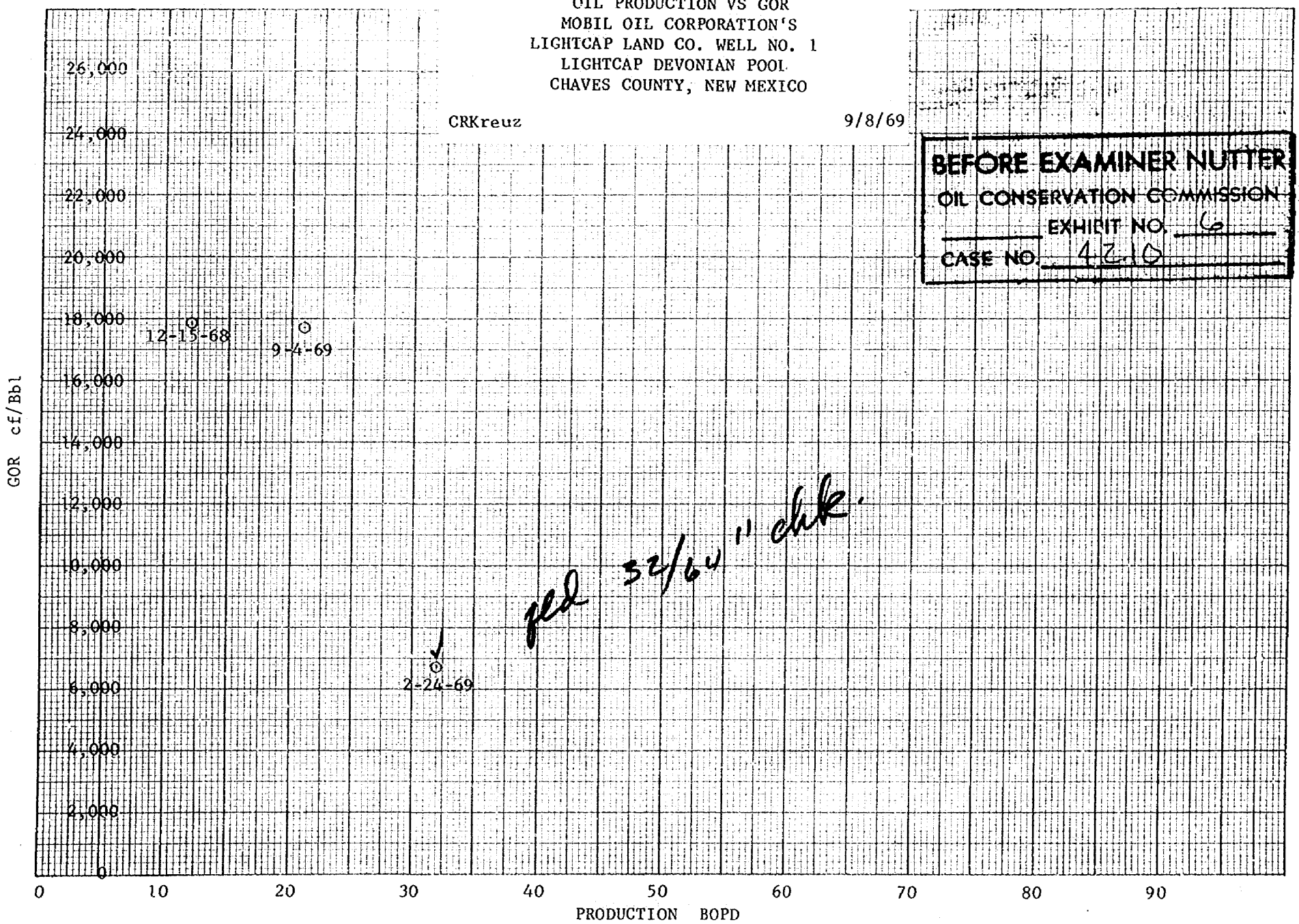
OIL PRODUCTION VS GOR
MOBIL OIL CORPORATION'S
LIGHTCAP LAND CO. WELL NO. 1
LIGHTCAP DEVONIAN POOL
CHAVES COUNTY, NEW MEXICO

CRKreuz

9/8/69

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 6
CASE NO. 4210

ged 32/64" dia



14-1/2 10 X 10 TO 12 INCH 46 1323
14-1/2 10 X 10 TO 12 INCH 46 1323
REPLACES

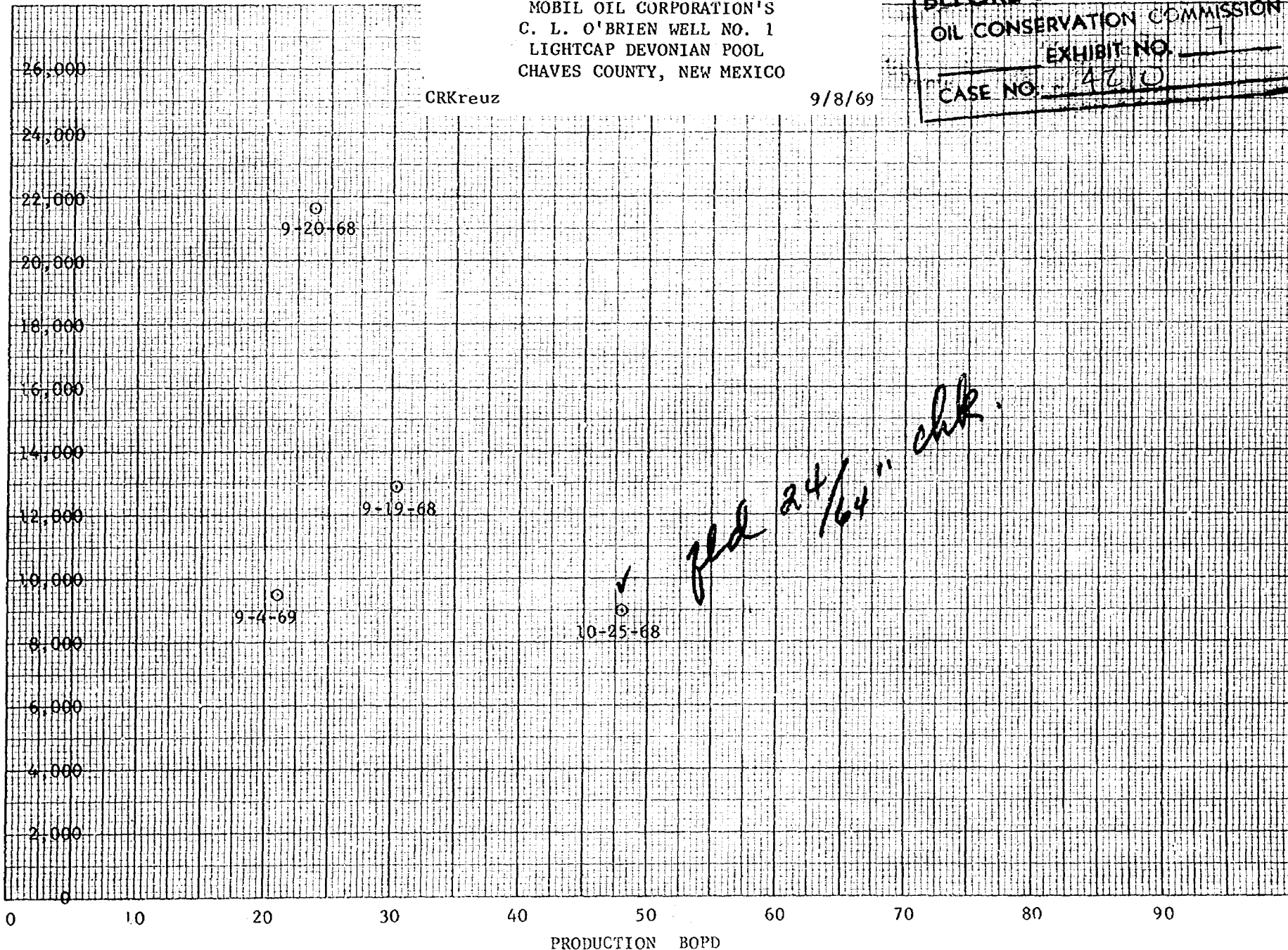
OIL PRODUCTION VS GOR
MOBIL OIL CORPORATION'S
C. L. O'BRIEN WELL NO. 1
LIGHTCAP DEVONIAN POOL
CHAVES COUNTY, NEW MEXICO

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 7
CASE NO. 4210

GOR cf/Bbl

CRKreuz

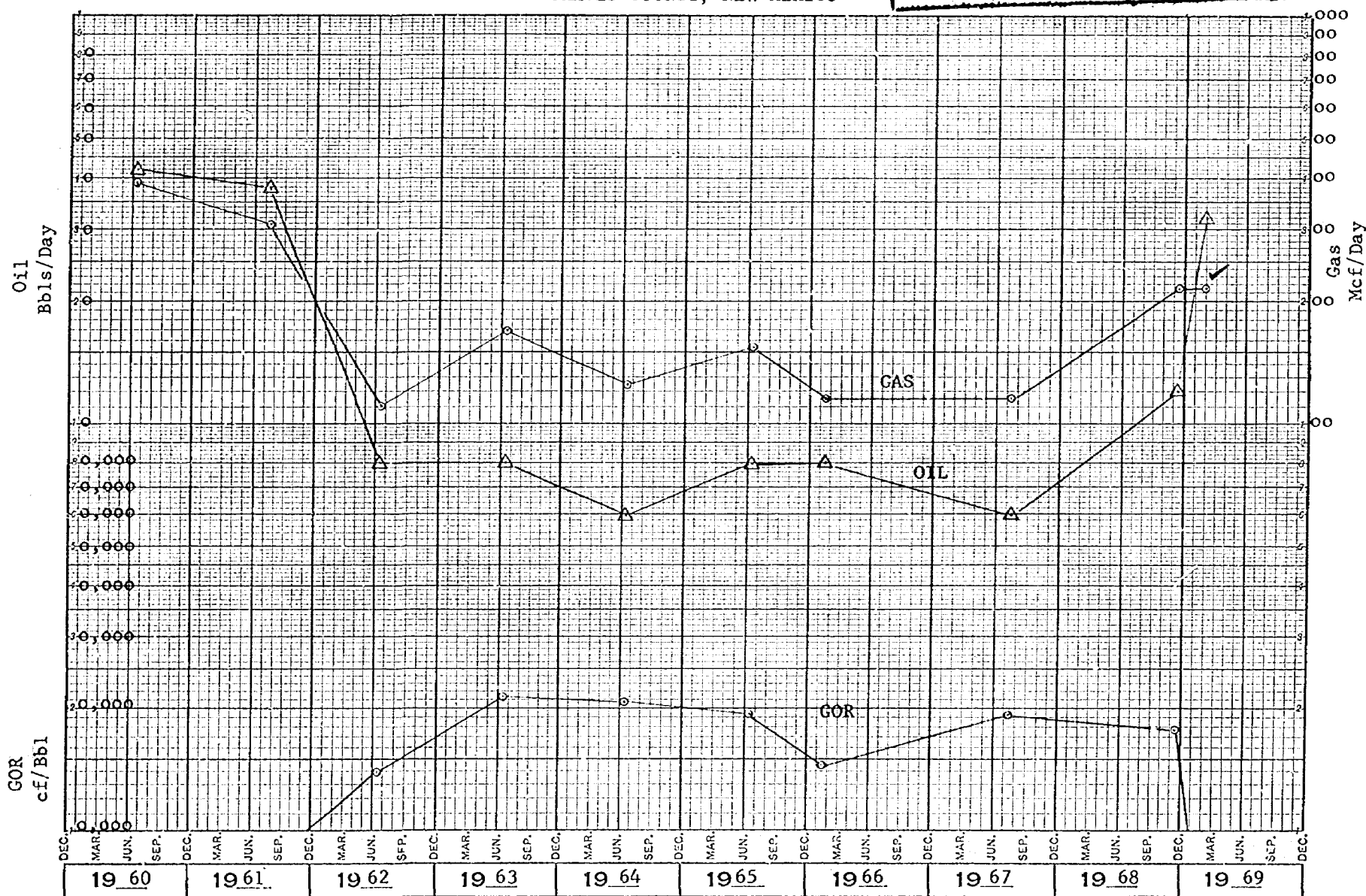
9/8/69





GAS-OIL RATIO TEST
MOBIL OIL CORPORATION'S
LIGHTCAP LAND CO. NO. 1
LIGHTCAP DEVONIAN POOL
CHAVES COUNTY, NEW MEXICO

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 8
CASE NO. 4210



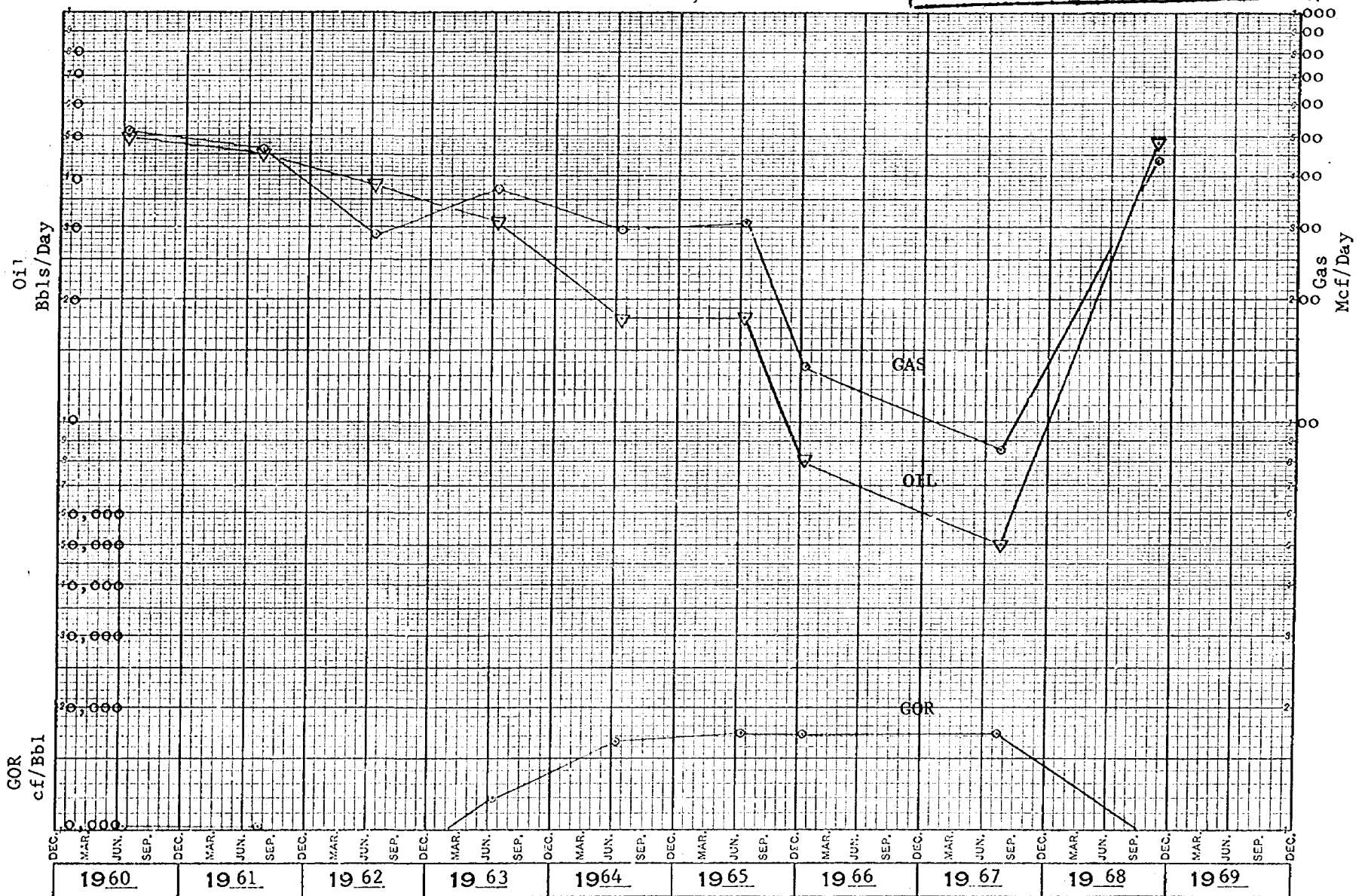
NO. 3257. TEN YEARS BY MONTHS X 2 3-INCH CYCLES RATIO RULING.



CODEX BOOK COMPANY, INC. NORWOOD, MASSACHUSETTS.
PRINTED IN U. S. A.

GAS-OIL RATIO TEST
MOBIL OIL CORPORATION'S
C. L. O'BRIEN WELL NO. 1
LIGHTCAP DEVONIAN POOL
CHAVES COUNTY, NEW MEXICO

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 9
CASE NO. 4210



CRKreuz/9-8-69



CITIES SERVICE OIL COMPANY

Oil Center Building
Box 300, Tulsa, Oklahoma 74102
Telephone: 918 LU 2-1531
August 1, 1969

Mobil Oil Corporation
P. O. Box 633
Midland, Texas 79701

Gentlemen:

This letter will verify that Cities Service Oil Company is purchasing casinghead gas from the Lightcap Land Company and C. L. O'Brien Leases producing from the Lightcap (Devonian and/or Pennsylvanian) Field, Chaves County, New Mexico, under a Casinghead Gas Contract dated June 4, 1968.

The gas from these leases is processed in the Bluit Gas Processing Plant and Cities Service shall continue to take all the available gas as long as it is economical to do so.

It is understood that the above information will support your application to the New Mexico Conservation Commission for an exemption to the 2000-1 rule.

Very truly yours,

NATURAL GAS LIQUIDS GROUP

Donald A. Board

Donald A. Board

DAB:lb

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>10</u>
CASE NO. <u>4210</u>

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF MOBIL OIL CORPORATION TO
INCREASE THE GOR LIMITATION IN
THE LIGHTCAP DEVONIAN AND LIGHTCAP
PENNSYLVANIAN POOLS, CHAVES COUNTY,
NEW MEXICO

Case No. 4210

A P P L I C A T I O N

Applicant, Mobil Oil Corporation, whose address is Post Office Box 633, Midland, Texas, respectfully requests that the gas-oil ratio limit of 2000 to 1 be increased as this Commission may determine above the generally applicable 2000 to 1 limit in the Lightcap Devonian and Lightcap Pennsylvanian Pools, Chaves County, New Mexico, and in support of its request states:

1. Applicant is the only operator in these pools having completed one well in the Lightcap Pennsylvanian Pool and two wells in the Lightcap Devonian Pool.

2. The granting of this application will be in the interest of prevention of waste, physical and economical, and will not impair correlative rights.

WHEREFORE, applicant requests that this matter be set for hearing as provided by law and that the Commission issue its order increasing the gas-oil ratio limit in the above-mentioned pools.

Respectfully submitted,

MOBIL OIL CORPORATION

BY: MODRALL, SEYMOUR, SPERLING, ROEHL & HARRIS

Original James E. Sperling
Checked by

By

James E. Sperling, its attorneys
800 Public Service Building
P. O. Box 2168
Albuquerque, New Mexico 87103

DOCKET MAILED

Date 8-28-69

DRAFT

GMH/esr

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:

RECORDS CENTER

CASE No. 4210

Order No. R- 2847

APPLICATION OF MOBIL OIL CORPORATION
FOR A SPECIAL GAS-OIL RATIO LIMITATION,
CHAVES COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 10, 1969,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 10th day of September, 1969, 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, Mobil Oil Corporation, seeks an
exception to Rule 506 of the Commission Rules and Regulations to
provide for a limiting gas-oil ratio in excess of the existing
ratio of 2000 cubic feet of gas per barrel of oil in the Lightcap
(Devonian) Pool, Chaves County, New Mexico.

(3) That the reservoir characteristics of the subject pool
presently available justify the establishment of a gas-^{oil}liquid
ratio limitation of 5000 cubic feet of gas per barrel of liquid
hydrocarbons.

(4) That in order to afford to the owner of each property
in the Lightcap (Devonian) 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}liquid ratio of 5000 cubic feet of gas per barrel of liquid hydrocarbons should be established for the subject pool.

(5) That approval of the subject application will prevent waste and protect correlative rights, provided the flaring or venting of gas in the Lightcap (Devonian) Pool is prohibited.

(6) That in order to assure the protection of correlative rights, the operator of each well in the Lightcap (Devonian) Pool should file a new gas-oil ratio test with the Commission's Hobbs District Office on or before November 1, 1969.

IT IS THEREFORE ORDERED:

(1) That, effective November 1, 1969, the limiting gas-oil ratio in the Lightcap (Devonian) Pool, Chaves County, New Mexico, shall be 5000 cubic feet of gas for each barrel of oil produced; that, effective November 1, 1969, each proration unit in the Lightcap (Devonian) Pool shall produce only that volume of gas equivalent to 5000 multiplied by top unit oil allowable for the pool.

(2) That the operator of each well in the Lightcap (Devonian) Pool shall file a new gas-oil ratio test with the Commission's Hobbs District Office on or before November 1, 1969, and shall furnish a schedule of test dates to the Commission's Hobbs District Office in order that the tests may be witnessed.

(3) That no gas shall be flared or vented in the Lightcap (Devonian) Pool more than 60 days after a well begins to produce or 60 days after the date of issuance of this order, whichever is later. Any operator desiring to obtain an exception

to this provision shall submit to the Secretary-Director of the Commission an application for such exception with a statement setting forth the facts and circumstances justifying it. The Secretary-Director is hereby authorized to approve such an application if he determines that the exception is necessary to prevent waste. If the Secretary-Director declines to grant administrative approval of the requested exception, the matter shall be set for hearing if the operator so requests.

(4) 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.

CASE 4211: Application of MOBIL
OIL CORP. FOR A SPECIAL GAS-OIL
RATIO LIMITATION, CHAVES COUNTY.

*Received by J. B. Smith
from the Chaves County
Commissioners for
the purpose of*