Lase Number
136

Application
Transcripts.

Small Exhibits

T. C.

dearnley-meier reporting service,

20% SIMMS BLDG. . P.O. BOX 1092 . PHONE 243-6691 . ALBUQUERQUE, NEW MEXICO

BEFORE THE NEW MEXICO GIL CONSERVATION COMMISSION Santa Fer New Mexico July-1, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Mobil Oil ) Corporation for down-hole ) commingling, Lea County, New Mexico.

Case No. 4366

BEFORE: Elvis A. Utz, Examiner



TRANSCRIPT OF HEARING

MR. HATCH: Application of Mobil Oil Corporation for down-hole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian Pools in the well-bore of its Bridges State Well No. 109, a triple completion, located in Unit N of Section 24, Township 17 South, Range 34 East, Lea County New Mexico. Examiner please, this case was heard on June 10 but there was a slight mistake in the advertising and so that no order has been issued. It was readvertised to give the interested party an opportunity to appear. If no one makes an appearance, I would recommend the order be issued on testimony given on June 10th.

MR. UTZ: Is there any appearance on Case 4366?

Let the record show that 4366 was called as stated by Mr. Hatch. There were no appearances.

STATE OF NEW MEXICO )

SS
COUNTY OF BERNALILLO )

I, PETER A. LIMIA, Certified Shorthand 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.

CERTIFIED SHORTHAND REPORTER

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BEFORE THE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

June 10, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Benson-Montin-Greer )
Drilling Corporation for )
amendment of special pool rules, )
Rio Arriba County, New Mexico )

Case No. 4365

IN THE MATTER OF:

Application of Mobil Oil Corporation for down-hole Commingling, Lea County, New Mexico Case No. 4366

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING



MR. NUTTER: The first case is 4365.

MR. HATCH: Application of Benson-Montin-Greer
Drilling Corporation for amendment of special pool rules,
Rio Arriba County, New Mexico. The applicant has requested
that this case be dismissed.

MR. NUTTER: Case No. 4365 will be dismissed, and we will go on with Case No. 4366.

MR. HATCH: Application of Mobil Oil Corporation for down-hole commingling, Lea County, New Mexico.

MR. NUTTER: At the outset, I might point out there was an error in the legal notice for this case in the Hobbs
Daily News Sun. We will go ahead and hear the evidence in this case. We will re-advertise it and call it at the next hearing.
We cannot enter an order in the case until we have had the correct advertisement.

MR. SPERLING: I am James E. Sperling of Modrall, Seymour, Sperling, Roehl and Harris, appearing for the applicant. We have one witness, and his name is William E. Simmons.

(Whereupon, Applicant's Exhibits 1 through 9 marked for identification.)

(Witness sworn.)

### WILLIAM B. SIMMONS, JR.

called as a witness, having been first duly sworn, was

examined and testified as follows:

# DIRECT EXAMINATION

# BY MR. SPERLING:

- Please state your name, position, place of residence Q and employer.
- I am W. B. Simmons, Jr., employed as Associate Engineer in the Proration Group for the Midland Division Office of Mobil Oil Corporation.
- Have you on any previous occasion testified as a Petroleum Engineer before the Commission?
  - Yes, I have.
  - Your qualifications are a matter of record?
  - Yes, they are.

MR. SPERLING: Are the witness's qualifications

# acceptable?

MR. NUTTER: Yes, they are.

- (By Mr. Sperling) What is sought by Mobil in this application?
- Mobil Oil Corporation plans to seek exception to New Mexico Oil Conservation Commission's Rule 303 and requests authority to commingle within the well-bore of Mobil's Bridges State No. 109, production from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian Pools. The Upper Pennsylvania

Zone is now at its economic limit. Then it can continue to produce along with the Wolfcamp Zone. Both zones will realize an extension of their economic productive life and will ultimately result in additional oil recovery, thereby preventing waste.

Q Would you please refer to what has been marked as Exhibit 1 and explain its purpose?

A Exhibit 1 is an ownership plat that shows the location of the subject well, Bridges State 109, which is located in Unit N, 610 feet from the south line 1830 feet from the west line of Section 24, Township 17 South, Range 34 East in Lea County, New Mexico. The Upper Pennsylvania producers and the outline of the field are noted in the red color and the Wolfcamp producers and the outline of the Wolfcamp field are outlined and noted in the green figure.

Q Is the entire area outlined here as the Bridges Lease, is that held under one lease?

A Yes, the lease consists of 5,281.38 acres, leased from the State of New Mexico.

Q Now, refer to Exhibit 2 and explain that exhibit and its purpose.

A Exhibit 2 is a graph and it shows the performance curves for the Wolfcamp Zone of Well 109. It shows that the production is decreasing at approximately 35% percent decline,

that the well is producing at a marginal rate and that the -it's about 29 barrels of oil a day. We had a test at 2770.

Now, not shown on this graph is the insignificant amount of
water produced since 1966. It's cumulative is only about 114
barrels.

Q Now, refer to Exhibit 3, please.

A Exhibit 3 is a graph showing the performance curves for the Upper Penn Zone of Well 109. It shows that the oil production is decreasing at an approximate rate of 39% decline and the well is producing at a marginal rate.

Q And what, if any, water production is being encountered?

A On Graph 4, I have indicated the water production because of the crowded Graph 3. I wasn't able to put it on there, but this graph shows that the water production initially was somewhat high. It has dropped and has maintained a low water volume. We expect this trend to continue.

MR. NUTTER: Have you had a recent test in this Zone, Mr. Simmons?

THE WITNESS: Yes, sir, I have and it tested at 10 barrels per day with 4 barrels of water per day.

MR. NUTTER: What was the date of that?

THE WITNESS: That was 5-27-70.

MR. NUTTER: Same date as the other one?

THE WITNESS: Yes, sir.

MR. NUTTER: Thank you.

- Q (By Mr. Sperling) Now, the last graph that you have offered is marked Exhibit 4, is that correct?
  - A Exhibit 4, yes.
  - Q Now, refer to Exhibit 5, please.
- A Exhibit 5 is the backup information. It's a tabular data, tabular production history, and it just backs up the graphic.
  - Q Simply presents --
  - A In tabular form.
  - Q -- the information shown on the previous exhibits --
  - A Yes, sir.
  - Q -- three and four. O. K. Exhibit 6?
- A Exhibit 6 is a graph that shows the anticipated production decline of both Zones if produced separately and then a composite production curve if the same two Zones were produced commingled down-hole. Now, the combined production will be 39 barrels of oil per day produced with a Ben pump operating under vented conditions.
- Q What is the significance of the horizontal line on Exhibit 6?
  - A It was shown to, drawn on there to show the 80 barrels

of oil per day which is the maximum daily production allowed for both zones when commingled under Commission's Rule 303C. This Rule provides for an administrative procedure by which exceptions to Rule 303A may be granted by the Commission, provided certain facts, exhibits and the required conditions were met.

Now, since this Rule was written for specifically dually completed wells, this triply completed well is not eligible for administrative approval under this rule. The graph also shows that the total commingled production on line 3 there, is expected to decline from its initial rate at about 36 decline rate, with an extended life due to the commingling.

Q Are there any other facts or conditions existing in these two zones which would meet the guideline for Rule 303A?

A Yes. Both zones do require artificial lift and are under artificial lift at present, for any future production.

Neither zone produces more than the 80 barrels of water per day allowed for this dip. Now actually, the combined water is only 4 barrels of water per day. The fluid from both zones are compatible with each other and their combination will not result in damaging precipitates in either reservoir.

The total value accrued will not be reduced by commingling. Ownership of the zones to be commingled is common.

The royalty interest of both zones is common. Mobil has no plans for secondary recovery in either of the zones to be commingled, nor do we know of any such plans.

- Q Why do you consider that these points are significant in this matter?
- A Well, in my opinion, the two zones in Well 109 has substantially satisfied the guidelines of eligibility set forth in Commissions Rule 303C and should receive consideration for these facts, along with any criterian that the Commission deems necessary in this case. If Mobil were required to continue production from separated zones, the Upper Penn Zone would have to be abandoned in the near future, thereby resulting in waste.
- Q Now, would you refer, please, to what has been marked as Exhibit 7 and explain its purpose.
- A Exhibit 7 is a data sheet with attachments that summarizes the background necessary for the Commission's consideration of this request. The two attached C-1 16 forms are current productivity tests for both zones.
  - Q Now would you please refer to Exhibit 8?
- A Exhibit 8 is a computation of the relative values of the hydrocarbon production before and after down-hole commingling. It shows that the value of accrual will remain

the same before and after the proposed down-hole commingling.

These two zones are presently commingled on the surface in accordance with Commission's Rule PC-100.

Q Would you please refer back to Exhibit 7, and there are bottomhole pressures indicated which do result in a pressure differential which conceivably could cause cross-flow insofar as these two zones are concerned after down-hole commingling.

How do you propose to handle that problem?

A In answer to this question, I would like to submit Exhibit 9 which is a schematic well-bore sketch of Well 109. This shows the existing triple completion and the proposed dual completion, if down-hole commingling were allowed.

You will note that the packers are to be left in place and that the long string will be perforated as shown on the exhibit there, at about 10,000 feet. The existing Ben pump now pumping the Upper Penn Zone will be pulled, and a new pump installed, and operated in such a manner as to maintain a low fluid level in this well. This will minimize any tendency for cross-flow since we believe the reservoir pressure of the lower zone will more than offset the pressure encountered by normal pumping level of the commingled well. The gas lift equipment in intermediate spring shown on the exhibit will be pulled, but the tubing will be left in place to provide

draining of the commingled zones.

We believe this will increase pumping efficiency of the well. However, if the well were to become inoperative for a rather long period of time, or a sufficient time for the fluid level to rise, the check valve, stemming valve would prevent cross-flow from the Wolfcamp Zone into the Upper Penn Zone.

After the proposed commingling the Abo Zone will continue to be produced, maintained and operated as an isolated zone and it will be completely isolated from the two lower zones.

- Q Was notification given to the other operators in the area as to Mobil's proposed plan?
- A Yes, we sent them individual letters. Now, there has been no adverse response to this application directed to Mobil. The State of New Mexico, as royalty owner, has been notified of this application by letter to the State Land Commissioner and a copy was sent to the Commission, and I believe the Commission has received a copy from the State Land Commissioner on this. At least, I was informed of that.
  - Q In response to the letter?
  - A Yes, stating they had no objections.
  - Q Now, in your opinion, Mr. Simmons, would the granting

of this application have any adverse effect upon the correlative rights of any other operators?

A In my opinion, no.

Q I believe you testified earlier that in your opinion the granting of the application would enable Mobil to recover oil that would not otherwise be economically recoverable, and thereby preventing waste, is that your testimony?

A Yes, sir, it will prevent the waste of oil, and we believe it will be in the best interest of conservation.

Q Were Exhibits 1 through 9 prepared by you, or under your supervision?

A Yes, they were.

MR. SPERLING: At this time, I would like to offer Exhibits 1 through 9.

MR. NUTTER: Mobil's Exhibits 1 through 9 will be admitted in evidence.

MR. SPERLING: That's all we have.

MR. NUTTER: Are there any questions of Mr. Simmons?

He may be excused. Anything else, Mr. Sperling?

MR. SPERLING: No.

MR. NUTTER: Does anyone have anything they would like to offer in Case 4366? The case will be taken under advisement.

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WITNESS	4	PAGE					
WILLIAM B. SIMMONS, J	TR.						
Direct Examinati	on by Mr. Sperling	3					
DVBYDYM	WANTER	OFFERED AND					
EXHIBIT Applicant's 1 through	MARKED 9 2	ADMITTED					

STATE OF NEW MEXICO COUNTY OF BERNALILLO )

I, the undersigned , Notary Public 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.

MY COMMISSION EXPIRES:

mark 26,1974

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# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87801 GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

July 10, 1570

Mr. James E. Sperling Modrall, Seymour, Sperling, Attorneys at Law Post Office Box 2168 Public Service Building Albuquerque, New Mexico	Re: Case No. 4366  Roehl & HarQrder No. R-3989  Applicant:  Mobil Oil Corporation
Dear Sir:	
Enclosed herewith are two sion order recently entere	copies of the above-referenced Commis-
sion order recently entere	g in the subject case.
	Very truly yours,
	a. h. Carter . Si.
	A. L. PORTER, Jr.
	Secretary-Director
ALP/ir	
Copy of order also sent to	<b>8</b>
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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 COMSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF COMSIDERING:

> CASE No. 4366 Order No. R-3989

APPLICATION OF MOBIL OIL CORPORATION FOR DOWN-HOLE COMMINGLING, LEA COUNTY, HEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 1, 1970, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

MOW, on this 10th day of July, 1970, 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, is the owner and operator of the Bridges State Well No. 109, located in Unit M of Section 24, Township 17 South, Range 34 East, MNPM, Lea County, New Mexico.
- (3) That pursuant to authority granted by Administrative Order MC-1716-A, the subject well was completed by the applicant as a triple completion (conventional) to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp, and the Vacuum-Upper Pennsylvanian Pools through parallel strings of tubing.
- (4) That the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones are now capable of only low marginal production.

-2-CASE No. 4366 Order No. R-3989

- (5) That the applicant now proposes to complete the subject well in such a manner as to produce oil from the North Vacuum-Abo Pool through one string of 2 3/8-inch tubing and to produce the low marginal production from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian Pools through a single parallel string of 2 3/8-inch tubing, commingling in the well-bore the production from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian oil zones, with separation of the North Vacuum-Abo zone and the commingled Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones by means of a packer set at approximately 9500 feet.
- (6) That the proposed commingling of the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones may substantially extend the productive lives of said zones.
- (7) That the reservoir characteristics of the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones in the subject well are such that underground waste would not be caused by the proposed commingling in the well-bore.
- (8) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones, thereby preventing waste, and will not violate correlative rights.
- (9) That the mechanics of the proposed completion are feasible and in accord with good conservation practices.
- (10) That in order to allocate the commingled production to each of the commingled zones in the subject well, approximately 75% of the future allowable and production should be attributed to the Vacuum-Wolfcamp zone, and 25% to the Vacuum-Upper Pennsylvanian zone.
- (11) That approval of the subject application will prevent waste and protect correlative rights.
- (12) That Administrative Order MC-1716-A should be placed in abeyance.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to complete its Bridges State Well No. 109, located in Unit N of Section 24, Township 17 South, Range 34 East, NMPM,

-3-CASE No. 4366 Order No. R-3989

Lea County, New Mexico, in such a manner as to produce oil from the North Vacuum-Abo Pool through one string of 2 3/8-inch tubing and to produce oil from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian Pools through a single parallel string of 2 3/8-inch tubing, commingling in the well bore the production from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian Pools, with separation of the North Vacuum-Abo zone and the commingled Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones by means of a packer set at approximately 9500 feet;

<u>PROVIDED HOWEVER</u>, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packerleakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Vacuum-Wolfcamp Pool.

- (2) That approximately 75% of the future allowable and production from the commingled zones shall be attributed to the Vacuum-Wolfcamp zone and approximately 25% to the Vacuum-Upper Pennsylvanian zone of the subject well until further order of the Commission.
- (3) That the commingling in the well-bore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed 80 barrels of oil per day.
- (4) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the for the Vacuum-Wolfcamp Pool.
- (5) That Administrative Order MC-1716-A is hereby placed in abeyance.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

CASE No. 4366 Order No. R-3989

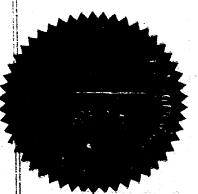
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF MEW MEXICO OIL COMPRESSATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO Member

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



### DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 1, 1970

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

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

## CASE 4354: (Continued from the May 13, 1970, Examiner Hearing)

Application of Michael P. Grace and Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the N/2 of Section 11, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, said acreage to be dedicated to a well to be drilled in either the NE/4 NW/4 or the NW/4 NE/4 of said Section 11. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

#### CASE 4165: (Reopened):

In the matter of Case No. 4165 being reopened pursuant to the provisions of Order No. R-3795, which order established 160-acre spacing units and an 80-acre proportional factor of 4.77 for the East Bagley-Pennsylvanian Pool, Lea County, New Mexico. All interested parties may appear and show cause why the said pool should not be developed on less than 160-acre spacing units and to show cause by the 80-acre proportional factor of 4.77 should or should not be retained.

### CASE 4173: (Reopened):

In the matter of Case No. 4173 being reopened pursuant to the provisions of Order No. R÷3811, which order established 80-acre spacing units and a limiting gas-oil ratio of 4000 cubic feet of gas per barrel of oil for the Hobbs-Drinkard Pool, Lea County, New Mexico. All interested parties may appear and show cause why the said pool should not be developed on 40-acre spacing units and why the limiting gas-oil ratio should not revert to 2000 to one.

- Application of Betty Oil Company for a waterflood expansion and amendment of Order No. R-2966, as amended, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Justis-McKee Unit Waterflood Project, Justis-McKee Pool, by the conversion to water injection of four additional wells in Units B and H of Section 24, Township 25 South, Range 37 East, and Units D and M of Section 19, Township 25 South, Range 38 East, Lea County, New Mexico. Applicant further seeks the amendment of Order No. R-2966, as amended, to permit administrative approval for the drilling or conversion of additional injection wells at orthodox or unorthodox locations without a showing of well response.
- CASE 4372: Application of International Hydrocarbons Incorporated for an unorthodox gas well location, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location for a well to be drilled 990 feet from the North and West lines of Section 8, Township 26 South, Range 33 East, Red Hills-Wolfcamp Gas Pool, Lea County, New Mexico.
- CASE 4373: Application of Benson-Montin-Greer Drilling Corporation for pool redelineation, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the redelineation of certain pool boundaries to include the deletion of the following-described acreage from the East Puerto Chiquito-Mancos Oil Pool, Rio Arriba County, New Mexico.

#### TOWNSHIP 26 NORTH, RANGE 1 EAST

Section 20: W/2

Section 29: All

Section 32: All

Section 33: W/2

#### TOWNSHIP 25 NORTH, RANGE 1 EAST

Section 4: W/2

Section 5: All

Section 8: All

Section 9: W/2

Section 17: All

Section 20: Alli

Section 29: W/2

and for the extension of the West Puerto Chiquito-Mancos Oil Pool to include the above-described acreage and the following-described acreage in said county:

# (Case 4373 continued)

# TOWNSHIP 24 NORTH, RANGE 1 WEST Sections 1 through 36 - All

#### TOWNSHIP 24 NORTH, RANGE 1 EAST

Section 6: All

Section 7: All

Section 8: W/2

Section 17: W/2

Section 18: All

Section 19: All

Section 20: W/2

Section 30: All

#### CASE 4374:

Application of Benson-Montin-Greer Drilling Corporation for expansion of a unit area, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand the Canada Ojitos Unit Area, authorized by Order No. R-2544, to include some 20,480 additional acres, more or less, of Federal, State and Fee lands in Township 24 North, Ranges 1 East and 1 West, Township 25 North, Ranges 1 East and 1 West; and Township 26 North, Range 1 East, Rio Arriba County, New Mexico.

#### CASE 4366:

#### (Readvertised)

Application of Mobil Oil Corporation for down-hole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian Pools in the well-bore of its Bridges State Well No. 109, a triple completion, located in Unit N of Section 24, Township 17 South, Range 34 East, Lea County, New Mexico.

#### CASE 4375:

Application of Pan American Petroleum Corporation for an exception to Rule 104 C. I. Lea County, New Mexico.

Applicant, in the above-styled cause, seeks an exception Rule 104 C. I of the Commission Rules and Regulations to permit the completion within 660 feet of another producing

#### CASE 4375 - Continued from Page 3 -

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well of its Byers "A" Well No. 1 which is being directionally drilled in Unit C of Section 5, Township 19 South, Range 38 East, Hobbs Pool, Lea County, New Mexico, pursuant to Order No. R-3973.

- CASE 4376: Application of Pan American Petroleum Corporation for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Lusk "A" Lease comprising the NE/4 of Section 6, Township 15 South, Range 30 East, Double L-Queen Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said lease in an unlined surface pit.
- CASE 4377: Application of Champlin Petroleum Company for a unit agreement, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval of the State 32-7-33 Unit Area comprising 640 acres, more or less, of State lands in Section 32, Township 7 South, Range 33 East, Chaveroo-San Andres Pool, Roosevelt County, New Mexico.
- CASE 4378: Application of Champlin Petroleum Company for a waterflood expansion and amendment of Order No. R-3550, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its State 32 Waterflood Project, Chaveroo-San Andres Pool, by the conversion of water injection of one additional well located in Unit B of Section 32, Township 7 Souch, Range 33 East, Roosevelt County, New Mexico. Applicant further seeks the amendment of Order No. R-3550 to permit administrative approval for the drilling or conversion of additional injection wells without a showing of well response.

Examiner Hearing - July 1, 1970 -5-

Docket No. 16-70

CASE 4379:

Application of Hal M. Stierwalt for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, for himself and as agent for Southern Union Production Company, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico. Said exception would be for eight of Stierwalt's wells and four of Southern Union Production Company's wells located in Sections 1 and 2 of Township 16 South, Range 30 East, West Henshaw-Grayburg Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said wells in unlined surface pits located in the vicinity of said wells.

CASE 4380:

Application of Shenandoah Oil Corporation for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Shugar? Pool, Eddy County, New Mexico, by the injection of water into the Yates and Queen formations through its Shugart "B" Well No. 1 located in the SW/4 SE/4 of Section 33, Township 18 South, Range 31 East.

Docket No. 14-70

## DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 10, 1970

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

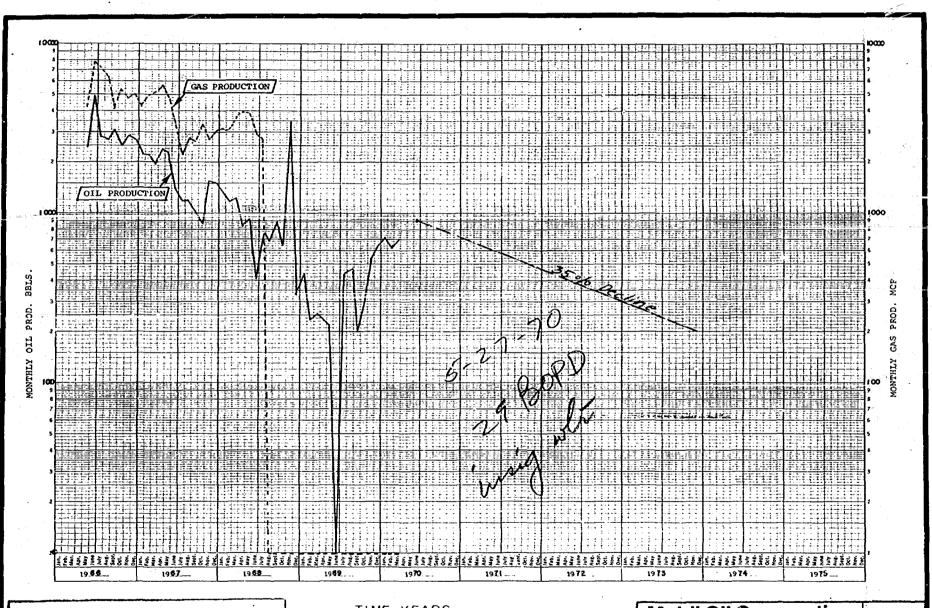
The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

- CASE 4363: Application of Jack L. McClellan for unorthodox gas well location, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location for his Atlantic Federal Well No. 1 located 2130 feet from the South line and 660 feet from the East line of Section 24, Township 8 South, Range 37 East, Bluitt-San Andres Associated Pool, Roosevelt County, New Mexico. The S/2 of said Section 24 to be dedicated to said well.
- CASE 4364: Application of Roy E. Kimsey, Jr., for a non-standard oil proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the approval of a 120-acre non-standard oil proration unit comprising the N/2 SW/4 and SE/4 SW/4 of Section 24, Township 9 South, Range 34 East, Jenkins-Cisco Pool, Lea County, New Mexico, to be dedicated to his Mounsey Well No. 1-Y located in Unit N of said Section 24.
- CASE 4365: Application of Benson-Montin-Greer Drilling Corporation for amendment of special pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Rule 1 of the Special Rules and Regulations governing the East and West Puerto Chiquito-Mancos Oil Pools to provide that wells completed or recompleted in the Mancos formation within one mile of said pools shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations governing said pools.
- CASE 4366: Application of Mobil Oil Corporation for down-hole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian Pools in the well-bore of its Bridges State Well, No. 109, a triple completion, located in Unit N of Section 24, Township 17 South, Range 34 East, Lea County, New Mexico.
- CASE 4367: Application of Mobil Oil Corporation for a waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Bridges State Waterflood Project, Vacuum Pool, by the drilling of an additional water injection well at an unorthodox location 100 feet from the South line and 1980 feet from the West line of Section 26, Township 17 South, Range 34 East, Lea County, New Mexico.

CASE 4368: Application of Mobil Oil Corporation for a water flood expansion and amendment of rules governing same, Lea/County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Bridges State Waterflood Project, Vacuum Pool, by the conversion to water injection of 13 additional wells and the drilling of one additional water injection well, all at standard locations in the N/2 of Section 25, Section 26, and E/2 of Section 27, Township 17 South, Range 34 East, Lea County, New Mexico. Applicant further seeks the amendment of the rules governing said project to permit expansion of the project administratively

without a showing of well response.

CASE 4369: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Ahadarko Production Company and all other interested persons to appear and show cause why the Anadarko Samwell No. 1, located in Unit B of Section 15, Township 19 South, Range 29 East, Turkey Track-Queen Pool, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.



BEFORE EXAMINER NUTTER

CONSERVATION CONVESSION

EXHIBIT NO. 4366

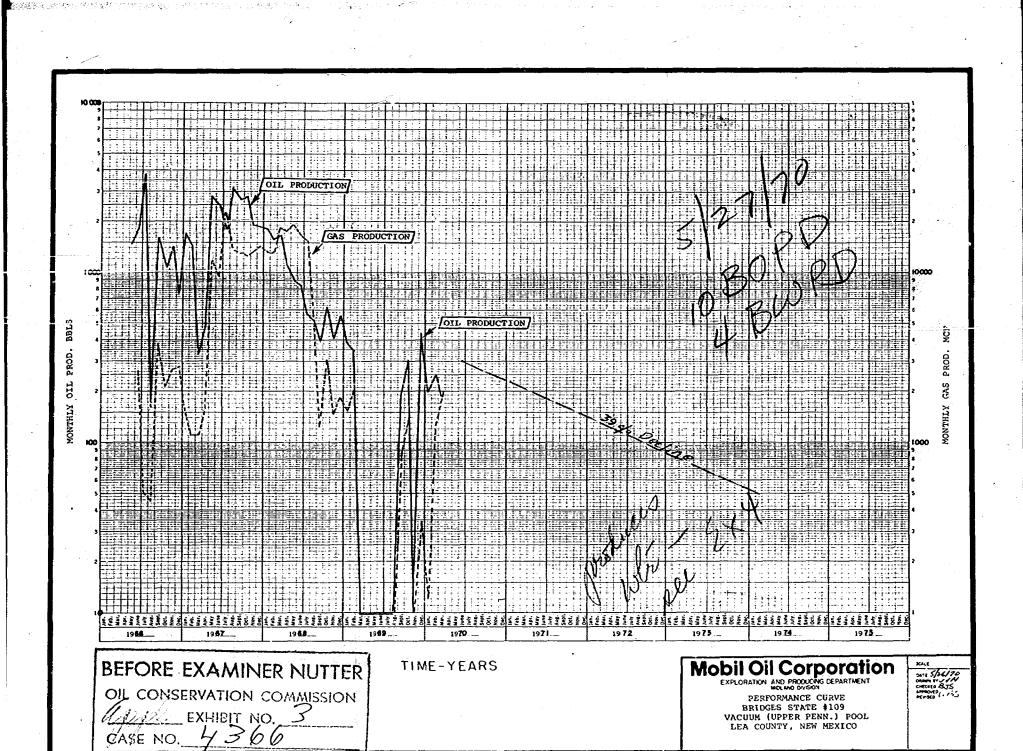
TIME-YEARS

NOTE: WATER PRODUCTION HAS TEEN NEGLIGIBLE IN THIS WELL'S WOLFCAMP ZONE.

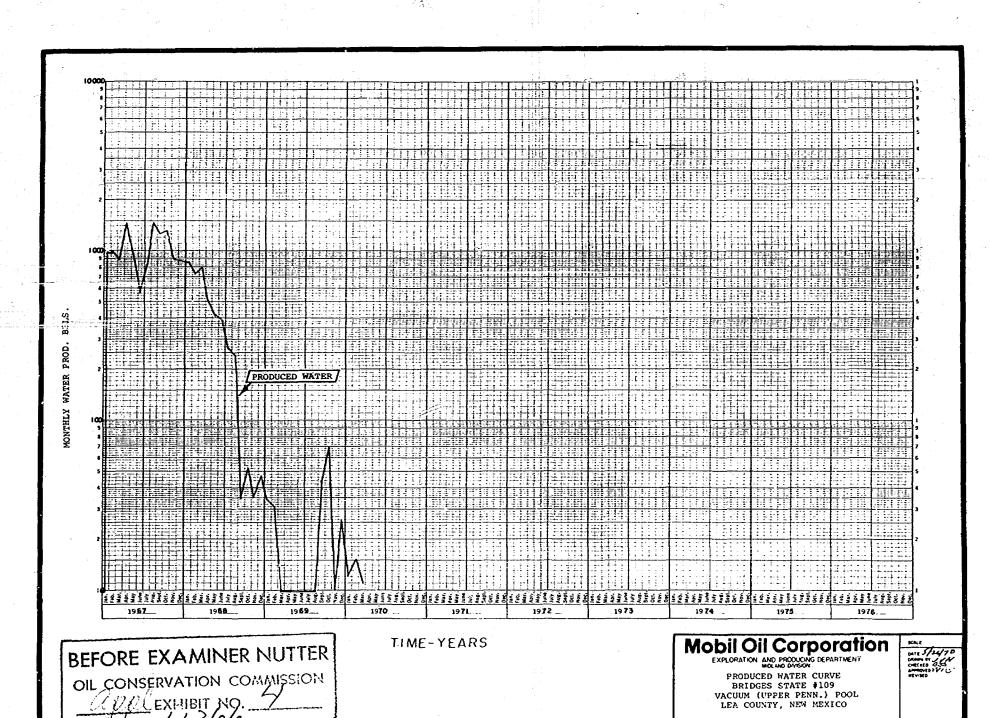
Mobil Oil Corporation
EXPLORATION LIND PRODUCING DEPARTMENT

PERFORMANCE CURVE BRIDGES STATE \$109 VACUUM (WOLFCAMP) POOL LEA COUNTY, NEW MEXICO





CASE NO.



OIL CONSERVATION COMMISSION EXHIBIT NO.

TABULATION OF PRODUCTION HISTORY
MOBIL OIL CORPORATION'S
BRIDGES STATE LEASE, WELL NO. 109
VACUUM FIELD
LEA COUNTY, NEW MEXICO

# Vacuum (Wolfcamp) Pool

Year	Oil/Bbls	Water/Bbls	Gas/Mcf
1966	24,009	56.	44,895
1967	19,723	58	44,893
1968	12,718	0	23,280
1969	3,989	<b>0</b>	55
1970 Jan. Feb. March	714 623 692	0 0 0	0 0 0
Cumulative	62,468	<u>114</u>	113,123

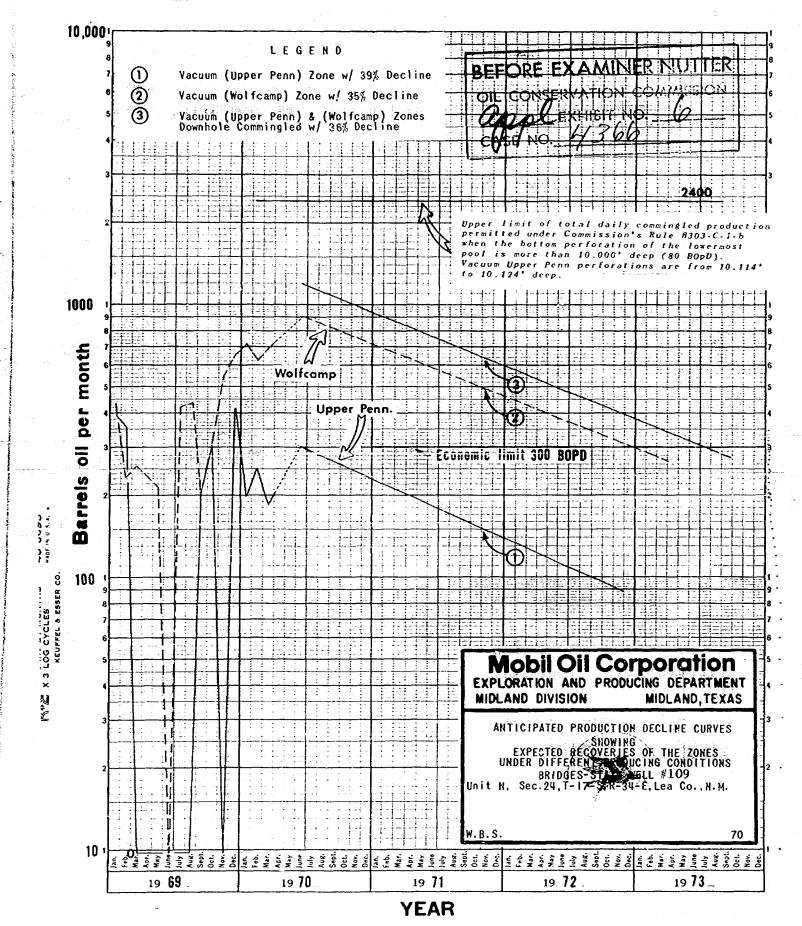
## Vacuum (Upper Penn) Pool

Year	Oil/Bbls	Water/Bbls	Gas/Mcf
1966	12,247	0	15,074
1967	23,640	12,512	116,202
1968	11,010	4,378	127,775
1969	1,679	208	6,306
1970 Jan. Feb. March	196 250 183	12 15 11	124 1,269 1,946
Cumulative	49,205	<u>17,136</u>	268,696

BJStubbs/WBSimmonsJr:bje

OIL CONSERVATION COMMISSION

CASE NO. 4366



## DATA SHEET

MOBIL OIL CORPORATION
P. O. BOX 633
MIDLAND, TEXAS 79701

BEFORE EXA	MINER NUTTER
OIL CONSERVA	TION COMMISSION
CASE NO.	IBIT NO.
CASE NO	300

APPLICATION FOR EXCEPTION TO RULE 303(a) OF NEW MEXICO OIL CONSERVATION COMMISSION'S RULES & REGULATIONS AND FOR AUTHORITY TO DOWNHOLE COMMINGLE

001	milobion o nobbo a nboomiziono mad i	on normonerr to b	CHIMODE COMMENCES
1.	Lease Name // Bridges State		
*			en e
2.	Well No. 109		
3.	Well Location: Unit N, 183	0 feet from _	West_line,
	610 feet from South line	of Section 24,	Township 17 S,
	Range 34 E, Lea County,	New Mexico	
4.	Upper Zone Vacuum (Wolfcamp)		
5.	Completion Interval 9,532' - 10	,049 '	
6.	Lower Zone Vacuum (Upper Penn)	nan ege	
7.	Completion Interval 10,114' - 10	,124'	
8.	Triple Completion Authorized by Con	mmission Order No	MC-1716
9.	Current Productivity Test Summary	(Form C-116 attac	hed)
		Wolfcamp	Upper Penn.
		(Upper Zone)	
	Producing Method	Gas Lift	Beam Pump
	011	29 BPD	10 BPD
	Gas	11.3 Mcf	13.4 Mcf
	Water	O BPD	4 BPD
	GOR	391:1	1341:1
	GOR Limit	2000:1	2000:1
10.	Bottom-hole Pressure of Upper Zone	Wolfcamp 9	00
11.	Bottom-hole Pressure of Lower Zone	Upper Penn	800
12.	Fluid Characteristics of Each Zone	Production from	both zones is an
	intermediate type crude. Total wat	ter production fr	om both zones is
	4 BWPD and is expected to remain re	elatively low. E	xpect no problems
	from the formation of untreatable p	recipitates in t	he commingled
	produced water.		

By: <u>W. B. Simmons, Jr.</u>
Date: <u>6-3-70</u>

#### NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

Operator				Po	ol .		15				Co	unity			<u>, , , , , , , , , , , , , , , , , , , </u>		
	Mobil Oil Corporation					Vacu	m Wolfcamp	i i				Lea					
Address	Box 633, Midland, Texa	s 7970	1	100	- : 		ΤΥ	Pξ	EOF - (X)	Sch	reduled		Comp	oletion [		Spec	lal 🔀
		WELL		LOC	ATION		DATEOF	5	CHOKE TBG. DA	DAILY	LENGTH	Р	RÓD. C	DURING	TEŠT	GAS - OIL	
	LEASE NAME	NO.	U	s	Т	R	TEST	STATE	71 4 4 4	PRESS.	ALLOW-	OF TEST HOURS	WATER BBLS.	GRAV.	OIL BBLS.	GAS M.C.F.	RATIO CU.FT/88L
Λ					12-3				- M - 17547							-	
- 3	Bridges State	109	N	24	17	34	5-27-70	C	-		36	24	0	40.2	-29	11.3	390
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psis and a temperature of 60° F. Specific gravity base

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Camella	
(Signature)	
Proration Clerk	
(Title)	
June 3, 1970	

# NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

				*		- '							-5	nevisea i	- 1-65	•
Operator			Po	ol						Ce	unty			F		
Mobil Oil Corporation			-	Vac	uum U	oper Penn.	_				Lea			· <u> </u>	·	
Address 633, Midland, Texa	s 7970	1		53411.01		Τ	YP! EST	E OF / (X)	Sch	neduled		Comp	oletion [	<b>)</b>	Spec	:1a) [X]
	WELL	LOCATION				DATEOF	CHOKE	TRG	DAILY	LENGTH	PROD. DURING TEST			GAS - OIL		
LEASE NAME	NO.	U	s	Т	R	TEST	STAT		PRESS.	ALLOW-	TEST HOURS	WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS O	RATIO CU.FT/BBI
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Bridges State	109	N	24	17	34	5-27-70	P	-	-	34	24	4	41.3	10	13.4	1340
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This test taken prior				ningl	ing											
hearing for testimony	in case	43	<b>во.</b>	1		1										
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 psis and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

(Signature)
Proration Clerk
(Tide)
June 3, 1970
(Rate)

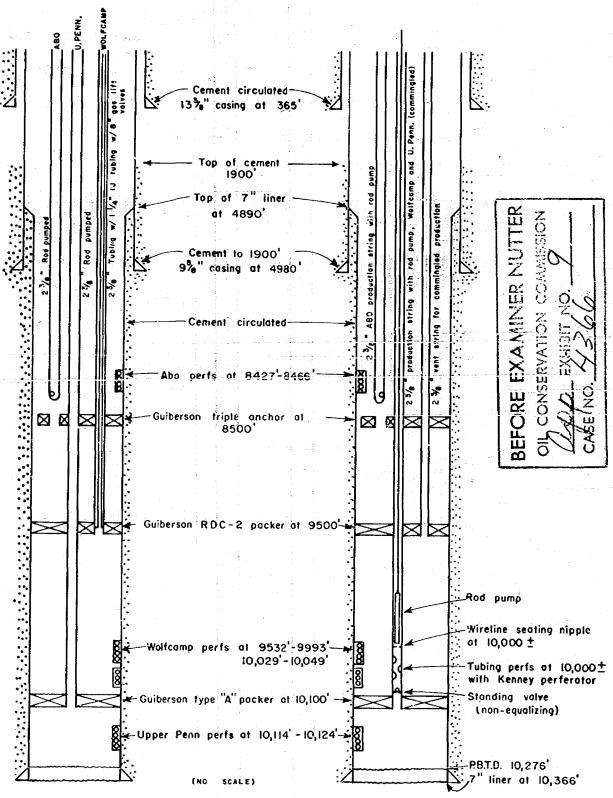
MOBIL OIL CORPORATION
P. O. BOX 633
MIDLAND, TEXAS 79701
COMPUTATION OF RELATIVE
VALUES OF THE HYDROCARBON
PRODUCTIVE BEFORE AND
AFTER DOWNHOLE COMMINGLING

LEASE AND WELL NUMBER	Bridges State Well No. 109								
	UPPER POOL	LOWER POOL	COMMINGLED						
POOL NAME	Vacuum (Wolfcamp)	Vacuum (U. Penn.)							
SRAVITY, API	40.2	41.3	40.5						
SELLING PRICE /BBL.	\$3.31	\$3.31	\$3.31						
DAILY PRODUCTION /BBL.	29	10	39						
DAILY INCOME	\$95.99	\$33.10	\$129.09						
OTAL DAILY INCOME (POOI	LS SEPARATED) \$ 12	9.09	in the second of						
	l from downhole comm gain or loss.	ningling based on curren	t well test =						
	en e		• •						
EMARKS: Production i	information obtained	from well tests taken l	May 27, 1970.						
Relative val	ues of separated an	d commingled crude oil	production						
will not be	affected by changes	in volumes since the g	ravities are						
both in the	same gravity range.								
	:	•							
	·								
	The state of the s								
		BEFORE EXAL	MINER NUTTI						
By: W. B. Simmons,	Jr.	A D 1/2 EXHIII	BIT NO. 8						
OATE: 6-3-70		Criota 1101							

### BRIDGES STATE WELL NO. 109

EXISTING TRIPLE COMPLETION PROPOSE

PROPOSED DUAL COMPLETION



MOBIL OIL CORPORATION
MIDLAND DIVISION MIDLAND, TEXAS

SCHEMATIC WELL BORE SKETCH

Bridges State Well No. 109, Unit N, Sec. 24, T-17-S, R-34-E Lea County, New Mexico 5/27/1970 W. B. Simmons, Jr.

## **Mobil Oil Corporation**

P.O. BOX 633 MIDLAND, TEXAS 79701

in .

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Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87501

> APPLICATION OF MOBIL GIL CORPORATION FOR EXCEPTION TO NEW MEXICO OIL COMBERVATION COMMISSION RULE 303 AND AUTHORIZING THE DOWNHOLE COMMINGLING OF THE VACUUM (UPPER PENM) ZONE AND THE VACUUM (WOLFCAMP) ZONE IN MOBIL'S BRIDGES STATE WELL NO. 109 LEA COUNTY, NEW MEXICO

#### Gentlemen:

Mobil Oil Corporation plans to seek exception to New Mexico Oil Conservation Commission's Bule 303 and request authority to commingle within the wellbore, of Mobil's Bridges State Well No. 109, production from the Vacuum (Upper Penn) Pool and Vacuum (Wolfcamp) Pool, said well being located in Unit N. Section 24, Township 17 South, Range 34 Rast, H.M.F.M., Lea County, New Mexico. It is Mobil's understanding that this hearing will be set for Examiner's hearing on June 10, 1970.

This well is presently a triple completion in the North Vacuum (Abo), Vacuum (Upper Penn) and Vacuum (Wolfcamp) zones and all three zones require artificial lift.

The downhole commingling of the production from the two pools will not effect the unit commercial value of the crude since it is presently being commingled on the surface in accordance with the Commission's Administrative Order PG-100. However, there will be an appreciable increase in the life of the well thereby resulting in additional oil production due to this more economical method of operation.

In support of the application, Mobil will state:

1. That said well is presently a triply completed well in the North Vacuum (Abo), Vacuum (Upper Penn) and Vacuum (Wolfcamp) zones, and, except for this fact, the application could be submitted for administrative approval under provisions of Rule 303-C.

- 2. That the two zones to be commingled will be isolated from the third zone, the North Vacuum (Abo), with the existing packer, thereby eliminating the mixing of the North Vacuum (Abo) zone's production with any other zone's production. The well will, in effect, become a dually completed well.
- 3. That the production from the Abo some will continue to be produced, maintained and operated as an isolated some in a multiply completed well under existing Commission rules and orders.
- 4. That said well is located upon lands subject to lease from the State of New Mexico and that the royalty under said lease is common to the two pools which are the subject of this application.
- 5. That the granting of this application will enable Mobil to continue to produce the Vacuum (Upper Penn) zone, now at its economic limit, and extend the productive life of the Vacuum (Wolfcamp) zone.
- 6. That the granting of this application will prevent waste, will not affect and will protect correlative rights and will be in the best interests of conservation.

Attached is a plat of the area showing the well's location on the lease and a copy of Mobil's application to the Commission.

Since State lands are involved, Mobil must furnish the Commission with evidence that the Commissioner of Public Lands has consented to the proposed downhole commission. If you have no objection to Mobil's proposal, a letter to the Commission so stating will be appreciated. Please send a copy to this office in order that we may know the status of this request. If additional information is required, contact W. B. Simmons, Jr., Kidland, Texas.

Attached is a check for \$10.00 to cover the required filing fee.

Very truly yours,

Ira B. Stitt

Division Operations Engineer

WBSimmonsJr/bje Attachments

cc: New Mexico Oil Conservation Commission (w/o attach.)

J. R. MODRALL JAMES E. SPERLING JOSEPH E. ROEHL GEORGE T. HARRIS, JR. GEORGE T. MARIS, JR.

LELAND S. SEDBERRY, JR.

ALLEN C. DEWEY, JR.

FRANK H. ALLEN, JR.

JAMES P. SAUNDERS, JR.

JAMES A. PARKER JOHN R. COONEY KENNETH L. HARRIGAN PETER J. ADANG DALE W. EK PETER J. BROULLIRE, III

CAMERON R. GRAHAM

Modrall, Seymour, Sperling, Roehl & Harris LAW OFFICES OF

PUBLIC SERVICE BUILDINGN .

ALBUQUERQUE, NEW MEXICO 103

May 22, 1970

JOHN F. SIMMS (1885-1954) AUGUSTUS T. SEYMOUR (1907-1965)

> TELEPHONE 243-4511 AREA CUDE 505

HAD Corr 4366 Mr. A. L. Porter, Jr. Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Porter:

Enclosed is original and two copies of Mobil Oil Corporation's application for downhole commingling authority within its Bridges State Well No. 109, Vacuum (Upper Penn) and Vacuum (Wolfcamp) Pools, Lea County, New Mexico.

We understand that this matter will be set for hearing on the June 10, 1970 docket.

very truly yours,

James E. Sperling

JES:jV

Enclosures

cc: Mr. Ira B. Stitt, w/encl. Mobil Oil Corporation

DOCKET HALLED

Dote 6-18-70

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# BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF MOBIL OIL CORPORATION FOR EXCEPTION TO COMMISSION RULE 303 AND FOR AUTHORITY TO COMMINGLE WITHIN THE WELLBORE PRODUCTION FROM THE VACUUM UPPER PENN POOL AND FROM THE VACUUM WOLFCAMP POOL IN APPLICANT'S BRIDGES STATE WELL NO. 109, LOCATED IN UNIT N, SECTION 24, TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.

The state of the s

Case	No.		
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### APPLICATION

Mobil Oil Corporation by this Application seeks exception to Commission Rule No. 303 and requests authority to commingle within the wellbore of Mobil's Bridges State Well No. 109 production from the Vacuum Wolfcamp Pool and Vacuum Upper Penn Pool, said well being located in Unit N, Section 24, Township 17 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and in support of such application states:

- 1. That said well is presently a triple completion in the North Vacuum (Abo), Vacuum (Wolfcamp) Pool and Vacuum (Upper Penn) Pool and that except for this fact the application could be submitted for administrative approval under the provisions of Rule No. 303-C.
- 2. That the zones proposed to be commingled will be isolated from the Abo zone with the existing packer thereby preventing any communication between the Abo zone and the Upper Penn and Wolfcamp.
- 3. That the production from the Abo zone will continue to be produced, maintained and operated as an isolated zone in a multiply-completed well under existing Commission rules and orders.

- 4. That said well is located upon lands subject to lease from the State of New Mexico and that the royalty under said lease is common to the two pools or zones which are the subject of this application.
- 5. That the granting of this application will enable applicant to continue to produce the Vacuum Upper Penn zone now at its economic limit and extend the productive life of the Vacuum Wolfcamp zone.
- 6. That the granting of this application will prevent waste, will not affect and will protect correlative rights and will be in the best interests of conservation of natural resources.

Respectfully submitted, MOBIL OIL CORPORATION

BY: MODRAGL, SEYMOUR, SPERLING, ROEHL & HARRIS

By

James E. Sperling, Yts attorneys 800 Public Service Building

P. O. Box 2168

Albuquerque, New Mexico 87103

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:

An

CASE No. 4366

Order No. R- 3989

APPLICATION OF MOBIL OIL CORPORATION FOR DOWN-HOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

don

#### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 1 , 1970 at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this \_\_\_\_\_\_\_ day of \_\_\_\_\_\_, 1970, 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, is the owner and operator of the Bridges State Well No. 109, located in Unit N of Section 24, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.
- (3) That pursuant to authority granted by Administrative Order MC-1716-A, the subject well was completed by the applicant as a triple completion (conventional) to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp, and the Vacuum-Upper Pennsylvanian Pools through parallel strings of tubing.
- (4) That the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones are now capable of only low marginal production.

- (6) That the proposed commingling of the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones may substantially extend the productive lives of said zones.
- (7) That the reservoir characteristics of the Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones in the subject well are such that underground waste would not be caused by the proposed commingling in the well-bore.
- (8) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones, thereby preventing waste, and will not violate correlative rights.
- (9) That the mechanics of the proposed completion are feasible and in accord with good conservation practices.
- (10) That in order to assist in a determination of the amount of production to be allocated to each of the commingled zones, four weekly production tests of the commingled Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zones should be taken by the applicant; that the results of said tests should be submitted to the Santa Fe and Hobbs offices of the Commission.
- (11) That approval of the subject application will prevent waste and protect correlative rights.

to each of the commingled zone the famingled production appraise make 75% of the future taccoration and production phonds be alleitented to the vacuum wolf camp zone and 25% to the Vacuum wolf camp zone and 25% to the Vacuum wolf camp zone one 25%

(12) That Administrative Order MC-1716-A should be placed in abeyance.

#### IT IS THEREFORE ORDERED:

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packerleakage tests upon completion and annually thereafter during the
Annual Gas-Oil Ratio Test Period for the Vacuum-Wolfcamp Pool.

- (2) That the applicant shall take one production test of the commingled Vacuum-Wolfcamp and Vacuum-Upper Pennsylvanian zone per week for a period of one month and submit results of said tests to the Santa Fe and Hobbs offices of the Commission.
- (3) That the production from the Vacuum-Wolfcamp zone and from the Vacuum-Upper Pennsylvanian zone in the subject well shall be established and future production allocated to said zones in the subject well in the proportion that the production from each that approximately 75% of the future alternating and production from the sometimes and some shall be attributed to the Vacuum walkeners and for the Australian walkeners the success of the Australian walkeners and the subject were until further order of the subject with a subject with some or the subject with surface and the subject of the sub

of said zones in the subject well bears to the combined production from both of said zones until further order of the commission.

(4) That the commingling in the well-bore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed \_\_\_\_\_\_ barrels of oil per day.

That Administrative Order MC-1716-A is hereby placed in abeyance.

(d) 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.

Welf camp Pool,

DOCKET MAILED aff. Mobil -Case Blob Bridges state Well No. 109 (Vacutum repper from Unit N - Lec 24 - T175 R34E

CASE 4367: Application of MOBIL OIL CORPORATION FOR A WATERFLOOD EXPANSION, LEA COUNTY.

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