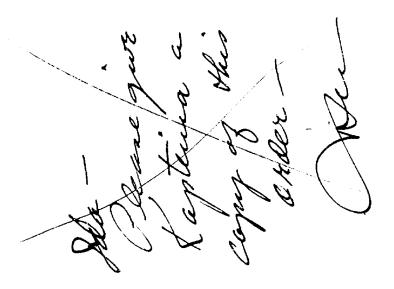
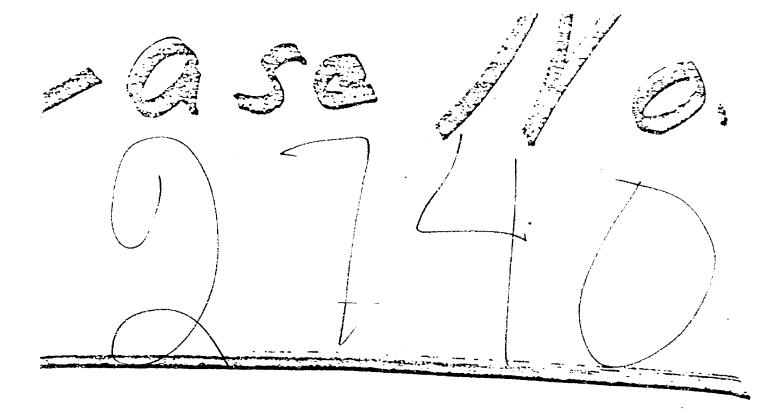
CASE 2740: Application of SOCONY MOBIL for special pool rules for the VACUUM-WOLFCAMP POOL.





phistip, Transcript,

#### DOVERNOR JACK M. CAMPBELL CHAIRMAN

#### State of New Mexico

### **Gil Conserbation Commission**

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER



STATE DECLOCIST
A. L. PORTER, JR.
SCORETARY - DIRECTOR

March 13, 1964

Mr. James Sperling
Modrall, Seymour, Sperling, Roehl
and Harris
Attorneys at Law
Suite 1200 - Simms Building
Albuquerque, New Mexico

Case No. 2741

Case No. R-2421-A, R-2422-A, & Applicant: R-2423-A

SOCOMY MOBIL OIL COMPANY

Dear Sire

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

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

Carbon copy of order also sent to:

Hobbs OCC \_x

Artesia OCC

Astec OCC

OTHER Mr. Charlie White, Mr. Jason Kellahin, Mr. Carl Jones
Mr. Ron Jacobs.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 23, 1963

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, as alternate examiner:

#### CASE 2729: (Continued)

Application of Scanlon-Shepard for a waterflood project, Chaco Wash Oil Pool, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject water into the Mesaverde formation through certain wells in Sections 21, 22, 27 and 28, Township 20 North, Range 9 West, McKinley County, New Mexico.

- CASE 2731: Application of Texaco, Inc., for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State of New Mexico "O" NCT-1 Well No.12, located in Unit J of Section 36, Township 17 South, Range 34 East, as a dual completion (tubingless) to produce oil from the Glorieta and Blinebry formations, Lea County, New Mexico.
- CASE 2732: Application of Sinclair Oil & Gas Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Mahaffey-Federal (ARC) Well No. 1 located in Unit C of Section 14, Township 20 South, Range 33 East, Lea County, New Mexico, to produce Bone Springs oil and Pennsylvanian gas through parallel strings of tubing.
- CASE 2733: Application of Charles B. Read for a non-standard oil proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 48.99-acre non-standard oil proration unit in an undesignated Delaware pool consisting of Lots 4 and 5 of Section 31, Township 26 South, Range 32 East, Lea County, New Mexico.
- CASE 2734: Application of Aztec Oil & Gas Company for approval of a unit agreement, Lea and Eddy Counties, New Mexico. Applicant, in the abovestyled cause, seeks approval of the Aztec-Robinson Waterflood Unit, comprising approximately 682 acres of State and Federal Lands in the E/2 SE/4 and SW/4 SE/4 of Section 36, Township 16 South, Range 31 East, the SW/4 SE/4 of Section 30, the W/2, W/2 E/2 and SE/4 SE/4 of Section 31, Township 16 South, Range 32 East Lea and Eddy Counties, New Mexico.
- CASE 2735: Application of Amerada Petroleum Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State BT "G" Well No. 2 located in Unit P, Section 27, Township 12 South, Range 33 East, Hightower Field, Lea County, New Mexico, in such a manner as to dispose of produced salt water into the Pennsylvanian formation.

- CASE 2736: Application of Gulf Oil Corporation for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 120-acre non-standard gas proration unit in the Blinebry Gas Pool, comprising the N/2 SW/4 and SE/4 NW/4 of Section 31, Township 22 South, Range 38 East, Lea County, New Mexico, said unit to be dedicated to the Scarborough Estate Well No. 4 located in Unit F of Section 31.
- CASE 2737: Application of Gulf Oil Corporation for special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of special pool rules for the White City-Pennsylvanian Gas Pool, Eddy County, New Mexico, including provisions for 640-acre spacing therein.
- CASE 2738: Application of BCO, Inc. for a no-flare exception, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the no-flare provisions of Order No. R-2267 for its Campos Well No. 1-10 located in Unit J of Section 10, Township 23 North, Range 7 West, Lybrook-Gallup Pool, Rio Arriba County, New Mexico.
- CASE 2739: Application of Socony Mobil Oil Company, Inc., to create a new pool for Abo production, and for special pool rules, Lea County, New Mexico, Applicant, in the above-styled cause, seeks the creation of a new pool for Abo production in Section 26, Township 17 South, Range 34 East, Lea County, New Mexico, and the establishment of temporary special pool rules therefor, including a provision for 80-acre spacing units.
- CASE 2740: Application of Socony Mobil Oil Company, Inc., for temporary special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of temporary special pool rules for the Vacuum-Wolfcamp Pool in Section 26, Township 17 South, Range 34 East, Lea County, New Mexico, including a provision for 80-acre spacing units.
- <u>CASE 2741</u>: Application of Socony Mobil Oil Company, Inc., for temporary special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of temporary special pool rules for the Vacuum-Devonian Pool in Section 26, Township 17 South, Range 34 East, Lea County, New Mexico, including a provision for 80-acre spacing units.
- CASE 2742: Application of Pan American Petroleum Corporation for special temporary pool rules, Lea County, New Mexico. Applicant, in the above styled cause, seeks the establishment of temporary special pool rules for the Fowler-Blinebry Oil Pool, Lea County, New Mexico, including a provision for 80-acre proration units.
- CASE 2743: Application of Pan American Petroleum Corporation for the creation of a Tubb Gas Pool, for approval of a non-standard gas unit, and for special temporary pool rules. Applicant, in the above-styled cause, seeks the creation of a new Tubb gas pool, and the establishment of temporary special pool rules therefor, Lea County, New Mexico, including a provision for 320-acre spacing units. Applicant further seeks establishment of a non-standard unit in said pool, comprising the NE/4, E/2 NW/4, and the N/2 SE/4 of Section 22, Township 24 South, Range 37 East.

CASE 2744: Application of Pan American Petroleum Corporation for special pool rules and approval of a non-standard gas unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of temporary special pool rules for the Fowler-Paddock Gas Pool, Lea County, New Mexico, including a provision for 320-acre spacing units. Applicant further seeks establishment of a non-standard unit in said pool, comprising the NE/4, E/2 NW/4, and the N/2 SE/4 of Section 22, Township 24 South, Range 37 East.

Cuar. 2740. Leard 1-23-63 Rec. 1-30-63. 1. Such 80 aa. Dempung, spacing. for. Vacuum Wolfcamps-Oil food, as recomend for case. 2734. Thur a. D. Citalia Con Commence. 175 . . 4 6. Xx. 26-564

(00 mg

LAW OFFICES OF

#### Modrall, Seymour, Sperling, Roehl & Harris

SIMMS BUILDING

P. O. BOX 466

ALBUQUERQUE, NEW MEXICO TELEPHONE CHAPEL 3-4511

JOHN F. SIMMS (1885-1954)

J R.MODRALL AUGUSTUS T SEYMOUR JAMES E.SPERLING JOSEPH E ROEHL GEORGE T, HARRIS DANIEL A. SISK LELAND S. SEDBERRY ALLEN C. DEWEY FRANK H. ALLEN
JAMES A. BORLAND JAMES P. SAUNDERS

December 26, 1962

Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

> Re: Application of Socony-Mobil Oil Company, Inc. for adoption of temporary special pool rules within undesignated pools, Lea County, New Mexico

Gentlemen:

Enclosed is the original and two copies of Socony-Mobil Oil Company's application as set forth above. Would you please advise us of the case number assigned this application and the earliest hearing date we can expect.

Thank you very much.

Very truly yours,

MODRALL SEYMOUR SPERLING ROEHL & HARRIS

DOCKET MAILED

ch

White IM Starling and admind that Date 1-11-63
this officialise would be set you son 23 of Extein

# EXHIBIT NO. RESERVOIR DATA SHEET VACUUM SOLFCAMP OIL POOL LEA COUNTY, NEW MAXICO

Average Permeability, Md. 0.1 to 13 (Core Analysis)
Core Analysis)
Core Analysis)
Estimated) Permeability Range, Md. Permeability Range, Md.
Connate Water Saturation, Per Cent
Average Net Pay, Feet
Oil Gravity, OAPI
Solution GOR, Cubic Feet per Barrel
Saturation Pressure, PSI
Hormation Waltime Factor Smalker R 40.5 1050 (Estimated) 2700 (Estimated) 1.52 (Estimated) Formation Volume Factor, STB/Res. B Intuial Acservoir Pressure, PSI Annual Acservoir Pressure, PSI
Reservoir Temperature, OF
Productivity Index (One Well)
Cumulative Oil Production, Bbls. 1-1-64
Current Oil Production, Bbls. 12-63 3846 0ال ند 0.3/12 245,430 Number of Completion, 2-1-64 53,413 Well Density, Acres per Well Developed Area, Acres 18 Producing Mechanism 80 1440 Solution Gas

#### EXHIBITE NO. RECEDIT DATA SHEET VACUUL HON MEADO OF CH LEA COUNTY, NE. 11 (200)

Average Porosity, Per Cent 5.8 (Core Analysis) 8.3 (Core Analysis)
0.1-104.0 (Core Analysis) Average Permeability, Md. Permeability Range, Md. Connate Water Saturation, Per Cent Average Net Pay, Feet Oil Gravity, API Solution GOR, Cubic Feet per Barrel 35 (Estimated) 39.2 700 (Estimated) 2100 (Estimated) 1.33 (Estimated) Saturation Pressure, PSI Formation Volume Factor, PD/Res. B Initial Reservoir Pressure, PSI 3382 Reservoir Temperature, OF 1i:0Productivity Index (One Woll) 0.479 Cumulative Oil Production, Bbls, 1-1-64 145, 155 Current Oil Production, Bbls, 12-63 Number of Completions, 2-1-64 26,344 11 Well Density, Acres per Well 80 880 Developed Area, Acres Producing Mechanism Solution Gas

/

## FXHIBET NO. MENVOLA DATA SHEET VACOUN MAVOLAN OLD FOOD LWA COUNTY, NEW MEXICO

Average Porosity, Per Cent Average Permeability, Md. Permeability Range, Md. Connate Water Saturation, Per Cent Average Gross Pay Above Water, Feet Oil Gravity, OAPI Solution GOR, Cubic Feet per Barrel Saturation Pressure, PSI Formation Volume Factor, STB/Res. B Initial Reservoir Pressure, PSI Reservoir Temperature, OF Productivity Index (Two Wells) Cumulative Oil Production, Bbls, 1-1-64 Current Oil Production, Bbls, 12-63 Cumulative Water Production, Bbls, 1-1-64 Current Water Production, Bbls, 12-63 Number of Completions, 2-1-64 Well Density, Acres per Well Developed Area, Acres	3 (Log and Core Analysis) 10 (Core Analysis) 0.1 to 26.0 (Core Analysis) 25 (Estimated) 55 50 1975 (Estimated) 3600 (Estimated) 2.3 (Estimated) 4821 144 0.587 152,448 19,011 51,507 11,724 4 80 320
Producing Mechanism	Water Drive

8

#### DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 19, 1964

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 2991: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Dwight L. Smith and all other interested parties to appear and show cause why the Walker Well No. 1, located 2290 feet from the South line and 500 feet from the East line of Section 21, Township 15 South, Range 11 East, Otero County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
- CASE 2992: Application of Co solidated Oil & Gas, Inc., for an unorthodox location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of the unorthodox location of their Hoyt Well No. 3-5, located 1850 feet from the North line and 11 0 feet from the West line of Section 5, Township 26 North, Range 4 West, Blanco Me averde Pool, Rio Arriba County, New Mexico.
- CASE 2993: Application of Sinclair Oil & Gas Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Southwest Jal Unit Area comprising 6401 acres, more or less, of State, Federal and fee lands in Townsnips 25 and 26 South, Range 36 East, Lea County, New Mexico.
- CASE 2994: Application of Skelly Oil Company for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project in the Gallup formation underlying its Navajo "P" and "M" leases in Sections 25, 26, 33, 34, 35, and 36, Township 32 North, Range 17 West, Many Rocks-Gallup Oil Pool, San Juan County, New Mexico. Initial injection will be through applicant's Navajo "P" Well No.6 located in Unit P of said Section 35. Applicant further seeks the promulgation of special rules governing the operation of said project.
- CASE 2995: Application of Deane H. Stoltz for two non-standard oil proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of two 80-acre non-standard oil proration units in the North Bagley-Upper Pennsylvanian Pool, Lea County, New Mexico, the first to comprise the SE/4 NE/4 and NE/4 SE/4 of Section 22, Township 11 South, Range 33 East, to be dedicated to a well completed in the SE/4 NE/4 of Section 22; the second to comprise the SW/4 NE/4 and the NW/4 SE/4 of

CASE 2995: said Section 22 to be dedicated to a well to be re-entered in the SW/4 NE/4 of said Section 22.

#### CASE 2984: (Continued from the February 5th Examiner Hearing)

Application of The Pure Oil Company and Continental Carbon Company to utilize natural gas in a carbon black plant, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to utilize approximately 7 million cubic feet of Morrow gas per day in the Continental Carbon Company carbon black plant near Eunice, New Mexico, said gas to be produced from The Pure Oil Company Wilson Deep Unit Well No. 1, located in the SE/4 NW/4 of Section 13, Township 21 South, Range 34 East, Lea County, New Mexico.

CASE 2996: Application of Nearburg & Ingram for the creation of a new gas pool and for special temporary pool rules, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for San Andres production in Sections 10, 11, 12, 13, 14 and 15, Township 8 South, Range 37 East, Roosevelt County, New Mexico, and for the establishment of temporary rules therefor, including provisions for 320 acre spacing.

#### CASE 2739: (Reopened)

In the matter of Case No. 2739 being reopened pursuant to the provisions of Order No. R-2421, which order established temporary 80-acre proration units for the North Vacuum-Abo 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 40-acre proration units.

#### CASE 2740: (Reopened)

In the matter of Case No. 2740 being reopened pursuant to the provisions of Order No. R-2422, which order established temporary 80-acre proration units for the Vacuum-Wolfcamp Oil 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 40-acre proration units.

#### CASE 2741: (Reopened)

In the matter of Case No. 2741 being reopened pursuant to the provisions of Order No. R-2423, which order established temporary 80-acre proation units for the Vacuum-Devonian Oil 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 40-acre proration units.

#### CASE 2742: (Reopened)

In the matter of Case No. 2742 being reopened pursuant to the provisions of Order No. R-2424, which order established temporary 80-acre oil proration units for the Fowler-Blinebry Oil 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 40-acre proration units.

#### CASE 2743: (Reopened)

In the matter of Case No. 2743 being reopened pursuant to the provisions of Order No. R-2425, which order established temporary 320-acre spacing units for the Fowler-Tubb Gas 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 160-acre spacing units.

#### CASE 2744: (Reopened)

In the matter of Case No. 2744 being reopened pursuant to the provisions of Order No. R-2426, which order established temporary 320-acre spacing units for the Fowler-Paddock Gas 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 160-acre spacing units.

CASE 2997: Application of Socony Mobil Oil Company, Inc., for the abolishment of an existing pool and the creation of two new oil pools, and for special temporary pool rules, Lea County, New Mexico, Applicant, in the above-styled cause, seeks the creation of a new oil pool for lower Pennsylvanian production in Section 26, Township 17 South, Range of East, Lea County, New Mexico, and for the establishment of temporary rules therefor, including provisions for 80-acre units and for the establishment of a cos-oil ratio limitation of 6000 cubic feet of gas per barrel or oil produced. Said pool would be created by the abolishment of the Vacuum-Pennsylvanian Pool in Township 17 South, Range 34 East, and the subsequent creation of the Vacuum Upper Pennsylvanian and Vacuum Lower Pennsylvanian Pools.

CASE 2998: Application of Tenneco Oil Company for a gas well-water injection well, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Central Totah Unit Well No. 24 located in Unit O of Section 11, Township 28 North, Range 13 West, San Juan County, New Mexico, to produce gas from the Basin-Dakota Gas Pool through 1 ½ inch tubing and to inject water into the Gallup formation, Totah-Gallup Oil Pool, through 2 1/16 inch tubing with separation of the zones by a packer set at 5766 feet.

CASE 2999: Application of Phillips Petroleum Company for two nonstandard oil proration units, Lea County, New Mexico.
Applicant, in the above-styled cause, seeks the approval
of an 80-acre non-standard oil proration unit for each
of two pools, the Vacuum Wolfcamp Pool and the North
Vacuum Abo Pool, said units to comprise the NW/4 SW/4
and the SW/4 NW/4 of Section 31, Township 17 South, Range
35 East, Lea County, New Mexico, to be dedicated to applicant's Santa Fe Well No. 87, located 2310 feet from the
South line and 660 feet from the West line of said Section
31.

CASE 3000: Application of Franklin, Aston & Fair Inc. for the creation of a San Andres Gas Pool and for special pool rules, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new San Andres Gas Pool comprising all or portions of Sections 22, 23, 25, 26, 27 and 28, Township 7 South, Range 35 East, and the establishment of special pool rules, including 320 acre spacing and fixed well locations, Roosevelt County, New Mexico.

CASE 2979: (Continued from February 5, 1964, Examiner Hearing)

Application of Pan American Petroleum Corporation for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Abo formation through its U.S.A. Malco Refineries 'G' Well No. 13, located 2302 feet from the Jouth line and 1650 feet from the West line of Section 10, Township 18 South, Range 27 East, Empire Abo Pool, Eddy County, New Mexico.

#### OUVERNOR JACK M. CAMPBELL CHAIRMAN

#### State of New Mexico

### **Bil Conserbation Commission**

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER



STATE GEOLOGIST

A. L. PORTER, JR.

BEGRETARY - DIRECTOR

/3 February 14, 1963

Mr. James Sperling
Modrall, Seymour, Sperling, Roehl,
and Harris
Attorneys at Law
Post Office Box 466
Albuquerque, New Mexico

2739
2740
Case No. 2741
Order No. R-2421, R-2422 and R-2423
Applicant:
Socony Mobil Oil Company

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

()c

DOCKET MAILED

(into 5 70 -66)

#### 1930 OCU 5128 OCH COURT WASTEST COLORES NOS OF SPEC PROSES OCT 1883 FIGNICO

IN THE FORTIGE OF THE MARKETON CALLED BY THE OIL CONSTRUCTION OF MAN MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE Mo. 2740 Order Mo. R-2422 NOMENCLATURE

APPLICATION OF SOCIAL MODIL OIL COMPANY, INC., TO CREAME A BRE POOL FOR WOLVCAMP PRODUCTION AND FOR SPECIAL POOL RULES, LSA COUNTY, MEN BERICO.

#### ORDER OF THE COMMISSION

#### MY THE COMMISSIOM:

This cause came on for hearing at 9 o'clock a.m. on January 23, 1963, at santa fe, New Mexico, before Alvis A. Utz. Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

MOW, on this 13th day of February, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

#### ETHOS:

- (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, secony Mobil Oil Company, Inc., seeks the creation of a new pool for Wolfcamp production and the promulgation of temporary special rules and regulations governing said pool, including a provision for 80-acre spacing units.
- (3) That a new oil pool for Wolfcamp production should be created and designated the Vacuum-Wolfcamp Oil Pool. This pool was discovered by the Jocony Mobil State Bridges Well Wo. 95, located in Unit P of Jection 26, Township 17 South, Range 34 Hast, NARM, Lea County, New Mexico. The top of the perforations in the Wolfcamp formation is at 9518 feet.
- (4) That temporary special rules and regulations establishing 80-acre specing should be promulgated for the subject pool in order to prevent the possibility of economic loss resulting from the drilling of unnecessary wells and in order to allow the

CASE No. 2740 Order Mo. R-2422

operators in the subject pool to gather information concerning the reservoir characteristics of the pool.

- (5) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (6) That the temporary special rules and regulations should be established for a one-year period and that during this one-year period all operators in the subject pool should gather all available information relative to drainage and recoverable reserves.
- (7) That this case should be reopened at an examiner hearing in February, 1964, at which time the operators in the subject pool should appear and show cause why the Vacuus-Wolfcamp Oil Pool should not be developed on 40-acre proration units.

#### IT IS THEREFORE ORDERED:

(1) That a new pool in Las County, New Messico, classified as an oil pool for Wolfcamp production is hereby created and designated the Vacuum-Wolfcamp Oil Pool, consisting of the following-described area:

## TOWNSHIP 17 SOUTH, RANGE 34 EAST, MEEPN SECTION 26: 507/4

(2) That special rules and regulations for the Vacuum-Wolfeamp Oil Pool are heroby promulgated as follows, effective March 1, 1963.

## SPECIAL RILES AND REGULATIONS FOR THE VACUUM-WOLFCAMP OIL FOOL

- RULE 1. Each well completed or recompleted in the Vacuum-Wolfcamp Oil Pool or in the Wolfcamp formation within one mile of the Vacuum-Wolfcamp Oil Pool, and not nearer to or within the limits of another designated Wolfcamp pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well completed or recompleted in the Vacuum-Wolfcamp Gil Pool shall be located on a standard unit containing 80 acres, more or less, consisting of the M/2, G/2, E/2, or W/2 of a single governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

-----120 - 10. 6760 Om om 16. 142622

Middle. Who been tary-director may grant an exception to the requirements of Auto 2 without notice and hearing when an application has been filed for a non-standard unit comprising a single quarter-quarter section or lot. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The secretary-director may approve the application upon receipt of written walvers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the decretary-director has received the application.

RELE 4. The first well drilled on every standard or non-standard unit in the Vacuum-Wolfcamp Gil Fool shall be located within 200 feet of the center of either the ME/4 or the SE/4 of a governmental quarter section.

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

ROLL 6. A standard provation unit (79 through 81 acres) in the Vacuum-Wolfcamp Gil Bool shall be assigned an 80-acre proportional factor of 6.77 for allowable purposes, and in the event there is more than one well on an 80-acre provation unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable in the Vacuum-Wolfcamp Oil Pool as the acreage in such non-standard unit bears to 80 acres.

#### IN IS FURTHER ORDERAD:

(1) That any well presently drilling to or completed in the Wolfcamp formation within the Vacuum-Wolfcamp Oil Fool or within one mile of the Vacuum-Wolfcamp Oil Fool that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of Rule 4. The operator shall notify the Hobbs District Office in writing of the name and location of the well on or before March 1, 1963.

-4-Casa No. 2740 Oxdex No. 8-2422

- (2) That any operator desiring to dedicate 80 acres to a well presently dulling or completed in the Vacuum-Wolfcamp Oil Pool shall file a new Form C-128 with the Commission on or before March 1, 1963.
- (3) That this case shall be reopened at an examiner hearing in February, 1964, at which time the operators in the subject pool may appear and show cause why the Vacuum-Wolfcamp Oil Fool should not be developed on 40-acre proration units.
- (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 herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member A. L. Cartu, h.

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

Case 2743

Keard 2-19-64

Rec. 2-26-64

1. Lund Social Mobil a perminent.

80 Ac or les for. R-2422 vacuum

He wolfeungs. Oil Porl.

Thurstone.

## 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. 2740 Order No. R-2422-A

APPLICATION OF SOCONY MOBIL OIL COMPANY, INC., TO CREATE A NEW POOL FOR WOLFCAMP PRODUCTION AND FOR SPECIAL POOL RULES, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 19, 1064, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 13th day of March, 1964, 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 by Order No. R-2422 dated February 13, 1963, temporary Special Rules and Regulations were promulgated for the Vacuum-Wolfcamp Oil Pool.
- (3) That pursuant to the provisions of Order No. R-2422, this case was reopened to allow the operators in the subject pool to appear and show cause why the Vacuum-Wolfcamp Oil Pool should not be developed on 40-acre proration units.
- (4) That the evidence establishes that one well in the Vacuum-Wolfcamp Oil Pool can efficiently and economically drain and develop 80 acres.
- (5) That to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of

-2-CASE No. 2740 Order No. R-2422-A

too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-2422 should be continued in full force and effect until further order of the Commission.

(6) That the Special Rules and Regulations promulgated by Order No. R-2422 have afforded and will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil in the pool.

#### IT IS THEREFORE ORDERED:

- (1) That the Special Rules and Regulations governing the Vacuum-Wolfcamp Oil Pool promulgated by Order No. R-2422 are hereby continued in full force and effect until further order of the Commission.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

TACK M. CAMPBELL Chairman

WALKER, Member

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

PHONE 243 6591

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexcio
January 23, 1963

EXAMINER HEARING

IN THE MATTER OF:

Application of Socony Mobil Oil Company,)
Inc., to create a new pool for Abo production)
and for special pool rules, Lea County, New )
Mexico. Applicant, in the above-styled cause)
seeks the creation of a new pool for Abo pro-)
duction in Section 26, Township 17 South, )
Range 34 East, Lea County, New Mexico, and )
the establishment of temporary special pool )
rules therefor, including a provision for 80-)
acre spacing units.

Application of Socony Mobil Oil Company,)
Inc., for temporary special pool rules, Lea )
County, New Mexico. Applicant, in the above-)
styled cause, seeks establishment of tempor- )
ary special pool rules for the Vacuum-Wolf- )
camp Pool in Section 26, Township 17 South, )
Range 34 East, Lea County, New Mexico, including a provision for 80-acre spacing units. )

Application of Socony Mobil Oil Company,)
Inc., for temporary special pool rules, Lea )
County, New Mexico. Applicant, in the above-)
styled cause, seeks establishment of tempor- )
ary special pool rules for the Vacuum-Devonian)
Pool in Section 26, Township 17 South, Range )
34 East, Lea County, New Mexico, including a )
provision for 80-acre spacing units.

Case 2739

Case 2740

Case 2741

(Consolidated)

BEFORE:

Elvis A. Utz, Examiner



#### TRANSCRIPT OF HEARING

MR. UTZ: This hearing will come to order. Case 2739.

MR. SPERLING: Jim Sperling, appearing for the applicant. I would like to ask that for the purpose of testimony and evidence to be presented that the three cases, 2739, 2740 and 2741 be consolidated. They, of course, involve the same area but different pools vertically.

MR. UTZ: Cases 2739, 2740 and 2741 will be consolidated for the purpose of the testimony, but separate orders will be written on each case.

MR. SPERLING: We have one witness.

MR. UTZ: Do we have any other appearances?

(Witness sworn.)

#### JOSEPH C. GORDON,

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

#### DIRECT EXAMINATION

#### BY MR. SPERLING:

- Q State your full name, your place of residence, your employer and your capacity.
- A Joseph C. Gordon, Jr., Socony Mobil Oil Company, at Hobbs, New Mexico, Senior Production Engineer.
- Q You have testified before the Commission on previous occasions, have you not?

A Yes, sir.

- Q Your qualifications are a matter of record?
- Α Right.

(Whereupon, Applicant's Exhibits 1 in Cases 2739, 2740 & 2741 were marked for identification.)

I would like, first, Mr. Gordon, to have you identify what you have denominated as Exhibit Number 1 in each of the three cases that have been assigned docket numbers following the filing of the application of Socony Mobil.

The first one, Exhibit 1, Case Number 2739, is a map of the portion of the Vacuum area showing the wells which have been completed in and are now drilling which may be expected to drill through the Abo formation. Similarly, the Exhibit in Case 2740 shows the wells completed in or the wells drilling, which may be expected to penetrate the Wolfcamp formation; and the Exhibit in Case 2741 shows the wells which will be completed in, or are drilling to the Devonian formation.

The yellow areas on all three exhibits are the lease holdings of Socony Mobil Oil Company.

MR. UTZ: Just a moment. I either got one number wrong or -- Exhibit Number 1 with the purple coloring on the wells, is that 2740?

- Yes, sir, that is the Wolfcamp. Α
  - MR. UTZ: And the green is 2741?
- Yes, sir, that is the Devonian. A
  - MR. UTZ: You may proceed.



Q (By Mr. Sperling) The area is designated, that is, the Township, Range, and, of course, the section where those locations are, are on the exhibits, are they not?

A Yes, sir.

Q Previously your company had been granted authority to multiple complete the wells in this area; is that not correct?

A Yes, sir. We have received permission for the multiple completion of our well, the State Bridges 95, located in the southeast quarter of Section 26, 17, 34, for multiple completion in the Abo, Wolfcamp, Pennsylvanian and Devonian formations. That well was the initial discovery in these formations. At the present time this well is being completed in the Abo, Wolfcamp and Devonian formations. Because of mechanical difficulties we have been unable to obtain the packer-leakage test, and we have been repairing the well in order to obtain a final completion. As a result of the repairs necessary we have been unable to secure any production from the well or any bottom hole pressures, or any test of any extensive nature, beyond the initial potential.

Q Do I understand that the well that you have been referring to, the State Bridges Number 95, is the only well that is in any stage of completion at the present time, in any of those three pools?

A Yes, sir. The other wells shown here are all drilling and none of them have set casing yet, or started their completion work.



SANTA FE, N. M. PHONE 983-3971

Would you explain to the Examiner what conditions prevai in this area with respect to these three undesignated pools which has prompted your company to make an application for the spacing and the pool rules that you will propose?

At the present time, there is a lack of development, and in order to bring about an orderly plan for the development we would like to propose rules of a temporary nature so that the area can be developed economically without drilling unnecessary extra wells, and we, therefore, will be proposing that we have a temporary 80-acre spacing for all three zones, with a one-year period here to allow for development, and then the submission to the Commission of the proper information to confirm, or possibly change our mind in regard to the 80-acre spacing.

What is the estimated cost of these wells? I assume you Q have costs relative to the wildcat wells, but what do you anticipate for the completion costs, drilling and completion costs concerned on these, do you know?

Our wildcat well, the State Bridges 95, cost a total of \$641,000.00. I would estimate that a completed triple completion could be made to these three formations for approximately \$400,000.00. At the present time we are not concerned in this instance with, or solely concerned with the economics. We are more concerned about the drilling of unnecessary wells which might be done if we went ahead on a 40-acre pattern and on a later date found out that we could have produced the field more economically with an



the second of the second

ABOUT TO THE STATE OF THE STATE

TO THE CONTROL OF THE

The role proposals that were well assets to be an expensively as

Summary of Proposed Fermionary Sulter for the content of the conte

DEARNLEY, WEIFR REPORTING SERVICE, Inc.

ables are concerned?

A We would propose that during this one-year period that the wells drilled on the 80-acre drilling units be assigned temporary 80-acre unit allowables appropriate to their depth, using the factors assigned for 80-acre drilling units in the present Commission rules. This would result, in the case of the Abo formation, which is in the 9,000 foot depth bracket, of an allowable of 4.77. The Wolfcamp formation, which is also in the 9,000 foot bracket would receive a 7.75 allowable factor.

Q What do you propose to do testwise in order to collect information which would be helpful to the Commission and to your company in determining efficient drainage in this area?

A If the temporary 80-acre rules are granted, I believe that Mobil would be glad to take the lead in forming an informal field committee of the operators to gather the required data in regard to bottom hole pressure, gas-oil ratio, interference tests, fluid sampling and flow testing, in order to substantiate or deny the existence of 80-acre capability for a producing well. I believe that this operators' committee would be very easily handled as it has been in many other fields in similar cases.

Q Mr. Gordon, referring to Exhibit No. 1 in Case 2739 which shows the Abo location or completion, calling your attention to the lower right-hand corner of the exhibit there is a line there which is designated present limit of Vacuum Abo Reef Pool?

No, sir. As shown here in the lower right-hand corner

1

this Vacuum Abo Reef Pool is the present Vacuum Abo Pool. This is the Vacuum Abo Reef which runs through the general area and is a definite structural feature. The present Vacuum-Abo Pool produces entirely from the reefing structure and is separate from our other Abo structures as shown here.

In conversation with the Hobbs Commission Office and with an informal geological committee, we have been led to believe that the Commission itself will probably be retitling the present Vacuum-Abo Pool in a nomenclature case to be the Vacuum-Abo Reef Pool, and designate the Abo production which we have found in our State Bridges 95 to become the new Vacuum-Abo Pool. The Vacuum-Abo as found in our State Bridges 95 is Abo; the producing is Abo. In fact, it is not a reef-type structure and has no relation whatsoever to the reef and the occurrence of oil is not reef. We believe there is adequate testimony that could be presented at some other time to substantiate the difference between the Abo Reef and the Abo production found north of the reef.

Q The reason for my question was that conceivably development in the Abo could extend within one mile of the present limits of the Vacuum-Abo Pool, and that was the reason I was inquiring as to whether or not there is any relationship between the Abo Production as found in your Bridges 95 Well, and that of the older field lying to the southeast.

A Yes, sir. Well, I believe here, from examination of the logs and such, we could always maintain a separation or definition



between the reef production and this other production which is not reefing, and that there is a physical separation in this case between the reef and this other production.

MR. UTZ: Is this physical separation, you mean, by permeability pinchout or by depth?

A Permeability pinchout would be the barrier between; I believe, also, there is some separation in depth.

Q (By Mr. Sperling) Do you have anything further to add at this time, Mr. Gordon?

A No, sir.

MR. SPERLING: I think that is all the Direct at this time, Mr. Examiner.

#### CROSS EXAMINATION

#### EY MR. UTZ:

Q You are recommending here, as I understand, a rigid pattern insofar as the location of the well in the quarter-quarter section?

- A Yes, sir.
- Q And also as to the location within that quarter section?
- A Yes, sir.
- Q Is the, so far as you know, is the Ohio McCallister

  Number 5 the only non-standard location that is now drilling?

A Yes, sir, it is the only one. I beg your pardon. It is not non-standard with respect to the location in the quarter section. The Shell well shown in Section 31 of 17, 35 is also non-



95 is non-standard in respect to the fact that it is 200 feet from the center of the quarter-quarter section; and the Texaco Well State 0-11 in Section 36 of 17, 34 is 200 feet west of the center of the quarter-quarter section. For various reasons these wells were drilled at their designated location and we propose that they be accepted as is.

Q Mr. Gordon, do you have any core data or reservoir information of any nature from your 95 well which show what the reservoir characteristics are in these three pools?

A I believe we have no core data. The only information that we can furnish here, and I do not have it with me, would be calculations from log data.

Q You have no idea what the permeabilities and porosities would be --

A No, sir.

Q --of these zones. Do you have any pressure information?

A Drill stem tests is all we have here, sir, and I would be a little bit reluctant to furnish them because in the very near future we will be getting information, the most accurate information we can get.

MR. SPERLING: I might point out that some of the information what you are inquiring about was, if I recall correctly, was preserved in connection with the testimony in the multiple completion here on the State 95.



A Yes, sir.

Q (By Mr. Utz) Those were estimated, were they not?

A I believe that is all we can furnish at the present time are calculations from the log data.

MR. UTZ: Are there any other questions of the witness?

MR. DURRETT: Yes, sir, I have a question or two.

#### BY MR. DURRETT:

Q Mr. Gordon, this information we are talking about now that you might be able to furnish in the future, that would be what, test results on the State Bridges 95 Well?

A Well, in regard to the gathering of data during the next year period, is that what you have reference to?

Q Well, that is mainly what I was talking about, only I thought -- one thing I want to get clear is how soon would it be before you would have information concerning reservoir characteristics?

A We would have to start the gathering of it with a committee to act as a gathering point. This hasn't been done yet. I believe we would probably follow a program of gathering of initial bottom hole pressure, initial GOR, further testing for GOR and further testing for bottom hole pressure and the conducting of bottom hole pressure buildup tests to determine reservoir permeability; the possible conducting of interference tests between wells to demonstrate interference or lack of interference; the use of bottom hole pressure history during this first year period to demonstrate



the decline in new wells to show that the entire field was a common reservoir. We are speaking here in regard to one reservoir, but I believe our remarks could be applied equalty to all three reservoirs.

Q The main point I was making was, actually, as things stand right at this time, we don't really have any way of knowing whether or not one well will or will not drain 80 acres?

Yes, sir. That is correct. That is why at this time we want to start an 80-acre development program, which can be supplemented and filled out to a 40-acre program if it is needed. At the present time, under present statewide rules a field can be developed on a 40-acre program. We can never undrill it, for an 80-acre program which might prove to be desirable. At the present time, with our present information we can't say that at the end of the year we will come back and request an 80-acre program. It may be we may come back and request for all three zones that 40-acre rules be adopted. I believe that would be one extreme. The other extreme would be possibly that we would ask for 80 acres to be continued on a permanent basis, but the granting of temporary rules here would permit the field to be developed at the most economical cost possible without the expenditure of any unnecessary money.

MR. DURRETT: That is all I have.

#### BY MR. KELLY:

I just want to get a couple of questions for fill-in for



when I wasn't here. [ am sure you covered it. Are you asking for 80-acre temporary spacing for one year?

- A Yes.
- Q And are you asking that the Commission grant well locations in either the northwest quarter or the southwest quarter of a quarter section?

A Yes.

MR. KELLY: That is all I have. I just wanted to make sure that their information was the same as the prior information I had. I would like to read a statement at the close of the case.

MR. UTZ: Do you have anymore questions?

MR. SPERLING: Just one more.

#### REDIRECT EXAMINATION

#### BY MR. SPERLING:

Q It appears that there are a number of wells drilling at the present time, which it would seem would furnish a basis for considerable information. What state drilling are these wells?

A I believe we should refer here to the Vacuum-Abo map in Case Number 2739, since it shows the maximum number number of wells. Starting from the top in Section 26 of 17, 34, our State Bridges 98 located in the northwest quarter, at the present time, I believe, is approximately at 4,000 feet in drilling ahead. Our State Bridges 96 in the northeast quarter of Section 26, is approximately at 8,000 feet and drilling a head. Our 95 is undergoing repairs. The Ohio Number 5 State McCallister in Section 25



is drilling below the Wolfcamp, I believe. The Texaco 0-11 in Section 36 is drilling below the Wolfcamp and the Shell Well Number 5 Atate A, I believe in Section 31 of 17, 35 is somewhere between the Abo and Wolfcamp, I believe, I am not exactly informed as to where it is.

Have you spoken to the other operators in the area with a view toward exchanging of info mation and support of 40's or 80's?

No, sir. We have not contacted the operators with a view for making up a committee of any sort.

- But it is your intention to do so?
- Yes, sir. If the temporary 80's are granted we most certainly would take the lead in this.

MR. SPERLING: I think that is all I have.

## RECROSS EXAMINATION

## BY MR, DURRETT:

Mr. Gordon, would you know, or do you have with you some of the expected completion dates on any of these wells that are drilling a head now?

No, sir. I don't believe so. That could be furnished to you by letter.

- Would you do that? I would appreciate it if you would.
- That is right.
- Could you give us some idea, oh, say within a month or two when you think they would be completed, would you do that?



- I would have to go back to the record.
- But you would give us a letter on that?
- Yes, sir, we will.

MR. DURRETT: Fine, thank you, I appreciate that.

MR. UTZ: Do you happen to know what the foot location of the Shell Number 5 is? It looks like it may be a 330.

No, sir, I don't have any idea. It is plotted from data. I would hesitate to measure it here and scale it.

MR. UTZ: Are there any other questions of Mr. Gordon? The witness may be excused.

(Witness excused.)

MR. UTZ: Are there any statements in the case?

MR. KELLY: I have a statement on behalf of Texaco. Texaco is currently drilling their ONCT Number 11 Well and they plan possible completion in all three of these zones. Texaco also owns a considerable amount of acreage in the immediate area and therefore it can be seen that Texaco is vitally interested in the adoption of special rules for these new pools. Texaco has, and always will urge the Commission to adopt the widest feasible spacing program. It is never too late to infill drill in order to prevent waste. On the other hand, however, if a reservoir is developed on a close spacing pattern when a wider pattern would have efficiently drained the pool, it is too late to cover the unnecessary drilling of the unnecessary wells; and Texaco believes that this excess amount could be used by the industry for the

UCROUE, N. M.

exploration and development of other oil and gas reservoirs in the State which would result in economic benefit to both the oil industry and gas industry of the State of New Mexico. Because of this, Texaco respectfully requests that the Oil Conservation Commission approve the application.

MR. UTZ: Are there other statements?

MR. DURRETT: Yes, sir. I have some communications I would like to read. The Commission has received a telegram, a quite lengthy telegram, from Marathon Oil Company and I will read this telegram in its entirety. "Reference Examiner's Hearings in Cases Numbers 2739, 2740 and 2741, Marathon urges that in the three referenced cases, Socony Mobil Oil Applicant, will propose that the Commission adopt temporary field rules in the Abo Pool, Case Number 2739; in the Wolfcamp Pool, Case 2740; and in the Vacuum-Devonian Pool, Case Number 2741, all in Section 26, Township 17 South, Range 34 East, Lea County, New Mexico; and that the rules in each case provide for 80-acre proration units and 80-acre well spacing with relocation in the northwest quarter and the southeast quarter of any quarter section. Marathon is presently drilling a well at a location 560 feet from the west line and 660 feet from the south line of Section 25, Township 17 South, Range 34 East, which is projected to a depth sufficient to encounter the pools mentioned in the application in the three referenced cases. This well will not conform to the spacing and well location provision of the requested rules. Marathon recommends in each of these threa

cases that the Commission adopt temporary special rules providing for 80-acre spacing and 80-acre proration units composed of two contiguous quarter quarter sections in any governmental quarter section, providing the rules provide for an exception without reduction of allowable to any existing well location, or any well heretofore completed or presently drilling, which may hereafter be completed in any or all of the pools mentioned in the three cases; and that the rules further provide for granting of future exceptions to such spacing and well location rules, if such further exception is necessary to protect the correlative rights of any party." Signed, I. K. Burrell, Division Manager of Marathon Oil Company.

The Commission has also received a telegram from Phillips
Petroleum Company, and it reads as follows:

"Reference hearing January 23, 1963, Cases 2739 and 2740 application of Socony Mobil Oil Company for 80-acre spacing for Abo and Wolfcamp production, Section 26, Township 1.7 South, Range 34 East, Lea County, New Mexico. We concur in spacing and rules to be proposed by the applicant; also, we concur in rules to be proposed by them in Case 2741 for Vacuum-Devonian Pool. However, we urge consideration be given to exceptions of 160-acre spacing." Signed, Phillips Petroleum, Mr. Griffin, Manager of Production Division.

MR. UTZ: Are there any other statements?

MR. LYON: V. T. Lyon with the Continental Oil Company.



Continental does not, at the present time, have any wells drilling in this area. We do have acreage in the immediate area and we should like to go on record as favoring temporary 80-acre spacing in this pool in order to avoid the drilling of wells which we may learn at a later date are unnecessary. We would like to concur with the application in these cases.

MR. UTZ: Are there any other statements? Mr. Gordon, do you know whether or not this well drilling in the southwest of the southwest of Section 25 is being drilled by Marathon rather than Ohio?

MR. GORDON: Yes, that is a case of a name change which has not caught up with our map makers.

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

ALBUQUEROUE, N. M. PHONE 243-6691

STATE	OF	NEW	WEXICO	)	
				)	SS
COUNTY	OF	F BEI	RNALILLO	)	

I, BILL LANGFORD, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

Court Reporter

I do hereby condity that the foregoing is a complete record of the proceedings in the Exeminer hearing of Case No. 2.3.8. heard by He on January. 1963.

New Mexico Oil Conservation Commission



## BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico February 19, 1964

## EXAMINER HEARING

IN THE MATTER OF:

Case No. 2739 being reopened pursuant to the provisions of Order No. R-2421, Lea County, New Mexico; and Case No. 2740 being reopened pursuant to the provisions of Order No. R-2422, Lea County, New Mexico; and Case No. 2741 being reopened pursuant to the provisions of Order No. R-2423, Lea County, New Mexico.

Case No. 2739.

BEFORE: ELVIS A. UTW, EXAMINER

TRANSCRIPT OF HEARING

ALBUQUERQUE, N. PHODER 243.669

DEARNLEY-MEIER REPORTING SERVICE, Inc.



BEFORE THE

NEW MEXICO OIL CONSERVATION COMMISSION Santa Re, New Mexico February 19, 1964

## EXAMINER HEARING

IN THE MATTER OF:

Case No. 2739 being reopened pursuant to the provisions of Order No. R-2421, Lea County, New Mexico; and Case No. 2740 being reopened pursuant to the provisions of Order No. R-2422, Lea County, New Mexico; and Case No. 2741 being reopened pursuant to the provisions of Order No. R-2423, Lea County, New Mexico.

CASE NO. 2739

BEFORE: ELVIS A. UTZ: EXAMINER

## TRANSCRIPT OF HEARING

MR. UTZ: Case 2739.

MR. DURRETT: In the matter of Case No. 2739 being reopened pursuant to the provisions of Order No. R-2421, which order established temporary 80-acre proration units for the North Vacuum-Abo Pool, Lea County, New Mexico.

MR. WHITE: If the Examiner please, Charles White of Gilbert, White and Gilbert, Santa Fe, appearing on behalf of the Texaco, Inc., and we have one witness.



Suite 1120

## General Court Reporting Service

In order to expedite matters, if the Examiner please, we would like to consolidate Cases 2739, 40 and 41 for the purpose of this hearing.

MR. UTZ: You will have the same witness in all cases?

MR. WHITE: Yes, sir.

MR. UTZ: Well, you will put the cases on somewhat in order of number?

MR. WHITE: That's correct.

MR. UTZ: So that the testimony on each pool will be somewhat segregated in the record.

MR. WHITE: Yes, sir.

MR. UTZ: For the purposes of hearing the Cases 2739, 40 and 41 will be consolidated and separate orders will be written on each case.

MR. JACOBS: Appearing for Skelly Oil Company is Ronald Jacobs, in Case 2740.

MR. UTZ: Are there other appearances?

MR. KELLAHIN: Jason Kellahin of Kellahin & Fox, Santa Fe, appearing on behalf of Amerada Fetroleum Corporation in all three of the cases.

MR. SPERLING: Jim Sperling of Modrall, Seymour, Sperling, Roehl and Harris, Albuquerque, appearing on behalf of Socony Mobil Oil Company in the three cases.

MR. KELLAHIN: If the Examiner please, I would like to also enter an appearance and associated with me is Mr. Carl Jones

ms Building Albuquerane New Mexico

Simms

Suite 1120

243-6691

of the Texas Bar, in Cases 2739 and 2740, Phillips Petroleum Company.

MR. UTZ: This was in Cases 2739 and 40?

MR. KELLAHIN: Yes, sir.

MR. UTZ: Are there other appearances? All these appearances are opposing the application, I take it.

(Witness sworn)

MR. WHITE: If the Examiner please, we have arranged our testimony not as to refer to one exhibit such as the structure map of the Abo, then the next one would be the Wolfcamp, and the next one would be of the Devontan. Now, we don't have these exhibits set out for testimony for just one case and then the other case, as you had just mentioned.

MR. UTZ: You don't segregate the formations too much then?

MR. WHITE: No, sit but I think the testimony will be orderly and be applicable to all the cases.

MR. UTZ: Well, you go shead with it the way you prepared it, and we will try to disect it.

CARL L. WHICHAM, JR.,

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

DIRECT EXAMINATION

## Suite 1120 Simms

Mr. Whigham, would you state your full name for the record, please?

- My name is Carl L. Whigham, Jr. A
- For whom are you employed and in what capacity?  $\mathbf{C}$
- Employed by Texaco, Inc., for the Midland Division, as ٨ Division Exploration Engineer.
- Would you briefly give your educational and professional background?

I graduated from Texas A & M College in 1949 with a BS A degree in Petroleum Engineering, and at that time I went to work for Texaco, Inc., and for the past 15 years, I have been employed by Texaco or their foreign subsidiary in various petroleum engineering assignments in drilling and production operations.

- Are you familiar with Cases 2939, 40 and 41, and the Ç orders issued upon the hearings?
  - Yes, sir, I am. A
  - Is Texaco one of the producing operators in the area?
- Yes, sir, they are the principal producing operator in the area.
- Have you conducted various studies of these three reservoirs?
- Studies have been conducted on these three reservoirs under my supervision.
  - Would you refer to Exhibit One, and explain that, please? Q
  - Yes, sir. Exhibit Number One is a lease ownershi



Buildin

Simms

the area in question showing the various operators in this Vacuum area. It also shows the completion intervals of all 18 wells that have been drilled in the area, and it shows the sold line extending from the northern limits of the field to the southern limits of the field, which represents a line and that a cross section has been prepared and will be presented in a later exhibit. It may be noted that Texaco, Inc. operates eight of these wells, Socony Mobil Oil Company has drilled and completed and operate three of the wells, and Continental Oil and Marathon Oil Company each have drilled and completed two wells in the reservoir and Tidewater Oil Company, Phillips Petroleum Company and Shell Oil Company have each drilled and completed one well in these reservoirs.

The reservoir in which each well has been completed is designated by the color code. The green color denotes the four Devonian producing wells, the purple color denotes the 18 Wolfcamp producers, and the red color denotes the 11 Abo producers.

- And I notice this exhibit is dated February 12, 1964. Have there been any recent development in this pool?
- Very little. Current development is limited at the present time to Phillips Petroleum Company Well Number 37 in Section 31.
  - 0 That is not in the plat, is it?
  - Á Yss, sir, it is.
  - Q. Beg your pardon.
  - This well has been completed in the Wolfcamp reservoir



Simms Building Albuquerque, New Mexico Phe

and operations are currently under way to complete the Abo.

Also in Section 35, Phillips Petroleum Company has spudded a well in the Southeast Cuarter of the Southeast Guarter, and it is our understanding that they plan to drill the well to the Pennsylvanian formation and they anticipate completion in the Wolfcamp and Glorietta reservoirs.

MR. UTZ: Which section is that?

- A That was Section 35.
- Q (By Mr. White) Now, will you refer to Exhibit Two and explain that, please?
- mentioned, and this exhibit was prepared primarily to indicate the relative depth of the three reservoirs in question and also to show their continuity across the reservoir. The uppermost reservoir is noted to be the Abo, and a relative point designated as the base of the Abo and the top of the Wolfcamp was agreed upon by the major operators in the field, and the Conservation Commission at a meeting held January 9, 1963 is the Hobbs office of the Oil Conservation Commission. The second reservoir is the Wolfcamp reservoir and the main pay is indicated on this cross section to be continuous across the field. The lowermost reservoir is the Devonian and the solid line across this cross section indicates the top of the Devonian reservoir. Also shown on this reservoir is an oil-water contact. The purpose of presenting the cil-water contact, at a Sul-Compth of 2,000 teet, is to substantiste the



producing mechanism. Whis drive is a bottom water drive, whereas, the upper two reservoirs produce under a solution gas drive mechanism.

- Q Now, will you now explain Exhibit Three?
- A Exhibit Number Three is a structural contour map of the Abo reservoir, the correlative point being the base of the Abo and the top of the Wolfeamp, was determined from each individual well log and these points were photted on this map and contoured at a contour interval of 50 feet. It can be noted that the geological structure is an alongated antichine trending north and south. Again, the Abo producing wells are designated by the red color, and it may be noticed that it wells have been completed in the Abo. There are seven other wells in the Iteld that actually penetrated the Abo, but were not completed in this reservoir.
  - Q Will you now explain Exhibit Four, please?
- A Exhibit Number Four is a similar structure contour map, drawn on the top of the Wolfcamp main pay zone. Each log was analyzed and the correlative point was picked and contoured on an interval of 50 feet. It is significant that all 18 wells drilled in this area have been completed in the Wolfcamp reservoir.
  - Q Now, will you similarly explain Exhibit Five?
- A Exhibit Number Five is a similar structural contour map contoured on the top of the Devonian reservoir. These points were obtained from well logs on all wells that have penetrated the Devonian top. Four of these wells have actually been completed as



Simms

Devonian producers. Mine other wells in the area penetrated the Devonian, but were not completed in this reservoir. The five remaining wells did not penetrate the top of the Devonian.

Q Will you identify and collectively explain Exhibits Six, Seven and Eight, your reservoir data?

A As set out in the original hearing, approximately one year ago, all of the operators in this area have pooled their information, and this information has been averaged out and consolidated into these three exhibits, which show the reservoir data for each of the three oil pools in question. It is significant that each reservoir exhibits a permeability sufficient to support drainage in excess of 80 acres.

The Vacuum Morth Abo Oil Pool has an average permeability of 8.3 millidarcies. The permeability range, however, goes up to 104 millidarcies.

The Vacuum-Wolfcamp Oil Pool exhibits an average permeability of 3.2 millidarcies with a range in permeability up to 13 millidarcies.

And the Vacuum-Devonian Gil Pool shows an average permeability of 10 millidarcies, and the permeability range goes up to 26 millidarcies.

It is felt that these permeability values are significant in supporting our request, and it might also be noted at this time that the Vacuum North Abo Oll Pool is designated as a solution gas drive reservoir, and the producing mechanism for the Vacuum



Suite 1120 Simms Building Albuquerque, New Mexic

Welfcamp is solution gas drive reservoir, and the producing mechanism for the Vacuum-Devonian is a bottom water drive.

- These exhibits present the most recent and all available data; is that correct?
  - A Yes, sir, it represents all data presently available.
  - Q Have you obtained any bottom holo pressure data?
- A Yes, sir, we have obtained all the bottom pressure data that is currently available from all operators in the area.

MR. UTZ: Mr. White, in view of the hour, and I suspicion you are getting in the cruz of this testimony, I wonder if this wouldn't be a goodtime to adjourn for lunch.

MR. WHITE: Perhaps it would.

(Noon Recess)

MR. UTZ: The hearing will come to order. We will continue with Cases 2739, 40 and 41. I believe you were on Exhibit Number Nine, were you not.

MR. WHITE: Yes, sir.

- Q (By Mr. White) Mr. Whigham, will you explain Exhibit Nine and Ten?
- A Yes, sir. Exhibits Numbers Hine and Ten present the bottom hole pressure data for the Vacuum North Abo Pool. Exhibit Number Nime presents this data in a behavior form for reference purposes, and these same values are plotted graphically in Exhibit Number Ten. It may be noted in Exhibit Number Ten that two sets of points have been plotted. To explain this, it should be noted

# DEARNLEY, MEIER, WILKINS and CROWNOVER

Mexico Albuquerque, Building

Simms

Suite 1120

243-669

to a standard ordinary 80 pattern, even though 80 acres is available to be dedicated to this well. This well is spaced between three other wells, which are on a standard 80 acre pattern So, this situation results, in four wells being spaced somewhat closer together than an 30 acre pattern. These four wells are represented by the pressure points, enclosed by a triangle. It may be noted that the minimum distance between these wells is 1220 feet. It can also be noted that the initial bottom hole pressure of each well is somewhat lower than the well previously drilled. In other words, this decrease in reservoir pressure denotes communication between these two wells. Therefore, on a basis of 1220 feet, minimum, between these wells, a drainage area can be calculated and this calculation results in a drainage area of 170 acres. The second curve plotted on Exhibit Mumber Ten are all the other wells, those that are spaced on standard 80 acre tracts. And again, it can be seen that each well exhibited an initial bottom hole pressure somewhat celow that of the well previously drilled. These bottom hade pressure values are plotted against accumulative oil production from the Vacuum North Abo Oil Pool.

that one well, Marethon's McAllister Mumber Five, does not conform

Now, reference is made to Echibas Mine. I notice in your reservoir pressure information, your Wall Humber Cha is 3342, and on your well Momber Five, you have 3343. How do you account for that increase

## DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service Simms

Mexico NewAlbuquerque, Building

1120

243-660

To letter was 3 MP to MA as compared to Pressure Mumber Mive in the Texaeo State )-14 of 1980. Thre Chose the two values you were referring too. I callere for tall proceeded purposer those presences can be considered identical. The original reservoir pressure here was determined to be 1989 PMID. That is the highest bomb cressure recorded in this Melt. Some of these other As a marker of fear, there is only one other. oressures- pressure which is a drillsten test pressure, the remaining dine pressures are bomb pronsurer. Now, rould you similarly extlede Wyhibits il and 10%

tobulation shows that Erassure Mamber One in the Mobil State

pricerain; to the presoure numbers, my

Exhibits 11 and 12 are similar to the two just presented Exhibit Number II is a tabulation of all the bottom pressure data that has been accumulated and made available from the Vacuum-Wolfeamp Oil Pool, and this pressure data is plotted graphically on Schibit Number 12. Again, we have the two conversions of Wasa representing those wells that show communication at a minimum distance of 1220 feet, representing a drainage area of it least 10% acces. uppermost curve represents the cross of trace in those wells which are spaced a minimum of 187% feet, representing a fraininge area of 179 acres. Again, it may be noted that each pressure recorded is comowhat balow the pressure recorded in a previously drilled well. Some emony adopt existing that Obore our seturity only three. considered that the guy e. The clotted through the



Suite 1120

everence point. Point Number Five is a very poor well and was not adcountely stimulated for persons of communication with other zonos, and Well Marker Seven exhibitor of lower than average pressure for the same reason, but both of these curves do indicate communication between subsceptent wells believeding a drainage area in excess of 30 acres.

MR. UTZ: These numbers or these charts here, is that a prossure number or well number;

Those are pressure numbers.

MR. UTZ: I see. That accommiss for my not being able to find the wells then.

Yes, sir.

(By Mr. White) Mow, will you similarly explain Exhibits 13 and 14?

Exhibits 13 and 14 represent the bottom hole pressure data available from the wells that were drilled to and completed in the Vacuum Devonian Oil Pool. Exhibit Humber 13 is a tabular representation and the values that appear in this table have been plotted on Exhibit Number 14. As stated previously, it has been determined that the Davonian is a water drive reservoir, and the pressure performance curve depteted by dyhibit Number 14 bears out this conclusion. It can be seen that the pressure has not declined as compared to accumulative oil production. It can also be seen that the aquifer pressure is assentially the same of button hale pressure as seasured in the oil partice of the resempoir.



## 243.669 DEARNLEY, MEIER, WILKINS and CROWNOVER iencral Court Reporting Scruice Buildin Simms 1120

Mexico

side if icens the acco

The property in the many the very the production to be the SI slace and letter, bouldedon. – You, while you refur to buildout dil your monthly production information for jour Devenium, and while of toward you think the

- Behill in A war pro and to substantiate previous statemon's that this is a solub lunce resolvate. Doth oil and water production are taked tel monthly throughout 1963. It est be noted that water production has been administration on a condishows a slitte temperate, beseth, only the substantian that the Devonien is a water drive concevoir.

- What comeliations do you donn is a diese chidibles and Cros the studies that you have made
- A The exhibits than the show there ear well in any case of these three reservoirs will effectively and efficiently drain more than 30 acres.
- Compared the second of the sec analysia:
- A Brhibit Turber 15 is in accounter the light chousing the cost to drill sed complete where diverges egges or mells in these three reservoirs. It shows the not term that would be incurred if these wells were imilied and completed and produced of 40 sere specing, and it else shows the net profit that would result if these wells word drittled and roughleted and replaced to ನಡಕ್ಕೆಯ ಗರ್ವಚ

2, New Mexico Phone 243.66

page post of those wells to 131,000.00. The viscover available from this well, based upon to are reconston white, would show a set look for this operation of \$3,500.00. Or the other hand, if this well were initial and completed and produced on 30 dere something, a net profit of \$3.5,000.00 rould be passived.

with recard to the dual condition ensure, that is shown in Echibic warment 16. It was narrows that a well would be completed in the College and the Diventer off reservoirs. These two were chosen because they were a rought a moultime in the most optimistic situation. They would meanly to the most profit of any two of the three reservoirs in question. This subject well is estimated to cost \$235,000.00. Hereas upon a he save provation unit, a net loss would incur of \$3,000.00. Whereas, if this well were operated on 30 save provation unit, a profit of \$276,000.00.

the same reason, the Follosop reservoir was chosen because this would result in the most profitable of any single completion in these three reservoirs. The estimates cont for this well would be \$6,500.00. Thereon, if this well well would be \$6,500.00. Thereon, if this well well well accompleted on 80 sere units would be \$6,500.00. Thereon, if this well well accompleted on 200 contains a serious on \$30 sere provetion units, a new profit well be resided on 10,000

All of hashe valled to the new baned when a straining dest of forty-five confi ter baned. As you as to be baned,

## DEARNLEY, MEIER, WILKINS and CROWNOVER Court Reporting Service

Mexico

Simms

Suite 1120

New Ibuquerque,

to at 19.46 or Larget. Including the gree result to this a net value of \$2.42 per terret.

- Then, Will addition dions that age of the reservoirs can be developed then, a 20 news mercention until commandeally:
  - The bir come b.
  - Does that conclude your Justinsonyt
  - Yee, sir.
- Mere Change established proposed by you or under your direction?
  - Tan, sir they were proposed under it, direction.

TR WHITE: We off r Exhibite One through 16 at this time That concludes our direct,

MR. WMM: Biblits One through 25 this be entered into the record in this case. The there quistions of the without

## CROSS EXAMENATION

## BY MR. UTZ:

To be sure I understand time two the bene, take a choser look at the Abo section, there presented that are profited with the triangles as symbols ase different form the ones with eigeles as symbols, in that these wells have a different radius of drainage?

Yes, sin, that's cormect. Proper cante represented by the triangles are the pressure points for four salls that are spaced a minimum distance of 1220 fort (rea anch other. The sea refer to any one of the wife and I will paint out those form wells.



General Court Reporting Service Building

Mexico

PAGE 10 10 the my shape we are talking about Move a Carbin for these Proces. There while the pressures one, three, six and easing, were letter to

One, States with his class, Cast's correct. 243-669 outle dake on Amber 90. Olrecti eset of thet well is Dec Welleton | m. as Pive, which is Pressure Point Number Three. 20238 Ge 2011 will be been dere without woll to the east, Mc Widel. a waster Assign the Property Country Mumber Eight in the Tidentian Street house Tumber State. are the four wells to the control es complete epeced closer than would be common Contracta two So some opposition.

- In other words, there your notice actor clustered there on actually a specing of less than 30 seres have caused a les pressure area in that particular part to the thelds
- That appears to be a conclusion they could be drawn from this data.
- Whereas, the coher wolls that we actually spaced nore nearly in the 80 sers specing, presumes one built o lifete higher:
  - You, sir, they one a bit bigher.
- What would this in lighte to you, four that includes to you well interference;
- Po we that would indicate the large is interingence between alk welling but the tower second sould naturally to tome what greater for those walls our of in the thes, however, in

Buquerque, Buildin Simms

ស្វាធីរ៉ាន់ដែលមេខេស្ស ប៉ុន្តែ Maria Maranta 🔒 To seem both to a more than a reason are special then then to draw down the jorder pare will be the reconvenies of a nore

reactive their oil in , herei Trachth whose that I emple holds which bishement, its fits.

even hasis and like every hady a 30% to the to be openion by portangly for

Well, wouldn't you have to a men that the odd in coing to travel toward this classes of four wells hore. I as not trying to prove or disprove pour esse. I just the condition have their is omite interesting and I would like to have an opinion on it.

- A - Yes, thr. Rock of these wells would have the care allowable. The mithdramals, I believe, a while approximately the same for all wells. Therefore, I don't that their double be any greater of wation toward while ever than one other ones in the field.

But, the pressures are lower in this area, are they not?

They are at the present time. One conture that right account for their fact is that games above the developed belows the wells remaining. This particular team is there the initial development took place.

You feel some of that there were slight be die to which area having been developed firence

More, that I as Charledy as. There promotes police two actually plotted a pinat occurrentation add penduction, and it loss



## WILKINS and CROWNOVER General Court Reporting Scrvice Building

World, the processor of the Phales of well is taken after The vilation of the education of the state the lamber Seven well, still estration and answers, about 300 pounds difference after the .... companions fire in that mand sagns, Tacable Tambor Six on your Exhibit Mumber

- Propagation of the state of the Sporte 14, and 16 is semanted bigher than in the recorded to Marenthon's Telliston In a line. I seek that the standard and the reason for thet is the West Manuer at in quite distantiv loasted from the area of ordered development. several locations coutlingstowed free the visitate, of the industri development. I chieve state for their consense bloker postance could be expected.
  - Because In is deciming a like or escay
- No, wir, because it would be army with we be empoundering a pressure more necessor the virgin concentrate areasses.
- You at inth accusably run any inversemble tests in connection with Mass stray,
- entropic contract of the contr of the analysis is and the second of the sec the constant of the

General Court Reporting Service

Suite 1120 Simms Building Albuquerque, 1

.

- Mar Marith and with the tr

with a medium count to the surether divisor to the the surether.

G 100, no didn't use passerve dane to establishe the rediction of drainage in other rest.

The No. 12 to the Arter's of decimans result determined specifically.

well, in the Abs and the Welterry, well, to some opinion, due to production from the vectories and the time the time of which the molde were completed?

A Mos, sir, Matts sorrest.

of the Deventan reservoir, when you didn't have any pressure drop, unturally, if this is a water drive reservoir, you wouldn't have any, what is your passe for caying that this will drain in excess of 30 covers.

A I would estar, along with a hibble Ni to Exhibit Member Sight, which shows the membersed elementaristics for the Davesian Cil Pool.

C I can't find any Exhibit Hambe I.E.

A Actually, was only thing former so coll attention to was the permeability in the Devonina reservoir. The permeability of the Devonina reservoir for the permeability everages ten millidirecies with a resure of one tenth up to 18 millidaretes, and Attention be and a principle from this permeability



# DEARNLEY, MEIER, WILKINS and CROWNOVER

General Court Reporting Service Building

New Albuquerque,

Simms

1120

Suite

bla reserveds to hater drive, that the Conditions eving that would posset a dealenge area of at least 33 somes.

You would estileights a batter sweet, efficiency with water drive that you is milliously the you delive?

Yes, sie, Shaw's wormens.

MA. Oblic and Whole asher que this is of the without

MA. IN AMERICAN are paralysissing for the rule for the three pools on a. 80 acce bends be beda parsanent?

Yes, Me.

MR. Unit: Are there of hear qualification of the without any be excused. Do you have other witnesser

MR. WHIRE: That somewhere our technomy.

MR. 1922: And their symboles of the sails in this ease?

MR. JACOBS: Hr. Examinary Tomald excells for digitly Oil

Company. Skelly Oil Company is not an operator in any of these three pools, however, we do have screege in Section 31 or 17 hough, 35 Mast, and as on interested named in the even, which is probably productive, we consume in the recommendations of Percen.

MR. MAJAMIN: It Was Beacher Coase, Fulling Petroleum Company and Amerada Rebrolaum Comparation are operators in one or most of the three cools invested intes. We fell that the Continony that has seen presented by United shows that he to seem of the three games where the energy are particled and all colle



there

## DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Service

Building 1120 Simms

Suite

MexicoAlhuquerque,

付款代表 29153 the newy intrances, at That is the ferf will grevent was to and will wells, and as a result will eventually promote the greater little mate recovery of oil from these three recomming. It join with Taxaco in advocating the 80 seas specing as less be made germanant.

MA. SPORTERED Six Spectrical for the Six Only Mag. Mobil urges that Consission to adopt the procently exasting or lar on a permanent basis, footing that the continues obtain was found procented certainly apoparts the same went then then been ande Vs urge the Commission consider the work the Cacture which have been established hore an contentially the development of this reservoir.

MR. MITTE ្រាស់ ជំនិស្មាន ស្វាស់សម្រាប់ មេស្សា សំព្



# DEARNLEY, MEIER, WILKINS and CROWNOVER

General Court Reporting Scruice

Suite 1120 Simms Building Albuquerque, New Mexico Phone 243-6691

at. Patth we at the british the interported to the record.

M. blue for a released rea gould.

Wi. Witter indicate to be estimated by Mr. White, to the Examiner tool a bird of statements in the file.

UN. HIMPER: This was been cally belower.

Ma. De la Climb de notte land from a land otter spillents.

MR. WIERE FRAME.

with than to be do the w

MR. The To the dade in appoint or vice verse.

MR. WHICE: A didn't program that fast. We will reflic compromise.

MR. UMM: Teach share accur to be town on the case will be taken under advisement.

\*\* \*\* \*\* \*\* \*\*



## DEARNLEY, MEIER, WILKINS and CROWNOVER General Court Reporting Scrvice

New Mexico

STATE OF NEW MEXICO COUNTY OF BERNALTLEO

I, ROY D. WILKINS, Motary inblie in and for the county or Hernalillo, Stave of New Lexico, no heropy certify that the foregoing and attached Transcript of Hearing before the Hear Mexico Cil Conservation dommission was reperced by me, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, build, and shakitey.

WITNESS my mand and Seal of Ulilbe, whis and day of warch, 1964.

My Commission Expans. September 6, 1907.

> I do hereby sertify that the foregoing is a complete record of the proceedings in the Exertiser hearing of Case No. 2239-40-... 19 6 4.

New Maxico Uil Conservation Commission .... Examiner

DRAFT

JMD/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:

CASE No. 2740

Order No. R-2422-A

APPLICATION OF SOCONY MOBIL OIL COMPANY, INC., TO CREATE A NEW POOL FOR WOLFCAMP PRODUCTION AND FOR SPECIAL POOL RULES, LEA COUNTY, NEW MEXICO.



## ORDER OF THE COMMISSION

## BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 19 1964, at Santa Fe, New Mexico, before Examiner Elvis A. Utz Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Pegulations.

NOW, on this day of represent, 1964, the Commission, a quorum being present, having considered the record, widenescoddward 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 by Order No. R-2422 dated February 13, 1963, temporary Special Rules and Regulations were promulgated for the Vacuum-Wolfcamp Oil Pool.
- (3) That pursuant to the provisions of Order No. R-2422, this case was reopened to allow the operators in the subject pool to appear and show cause why the <u>Vacuum-Wolfcamp Oil Pool</u> should not be developed on 40 -acre proration units.
- (4) That the evidence establishes that one well in the

  Vacuum-Wolfcamp Oil Pool can efficiently and economically drain
  and develop 80 acres.

- (5) That to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-2422 should be continued in full force and effect until further order of the Commission.
- (6) That the special Rules and Regulations promulgated by Order No. R-2422 have afforded and will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil in the pool.

## IT IS THEREFORE ORDERED:

- (1) That the Special Rules and Regulations governing the Vacuum-Wolfcamp Oil Pool promulgated by Order No. R-2422 are hereby continued in full force and effect until further order of the Commission.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

DRAFT

JMD/esr February 5, 1963

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:

Sur

CASE No. 2740

Order No. R- 21/20

APPLICATION OF SOCONY MOBIL OIL COMPANY, INC., TO CREATE A NEW POOL FOR WOLFCAMP PRODUCTION AND FOR SPECIAL RULES, LEA COUNTY, NEW MEXICO

AM

## ORDER OF THE COMMISSION

## BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on January 23, 196B, at Santa Fe, New Mexico, before Elvis A. Utz Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this day of <u>February</u>, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the <u>Examiner</u>, <u>Elvis A. Utz</u>, 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, Socony Mobil Oil Company, Inc., seeks the creation of a new pool for Wolfcamp production and the promulgation of temporary special rules and regulations governing said pool, to provide for 80-acre spacing units.
- (3) That a new oil pool for Wolfcamp production should be created and designated the Vacuum-Wolfcamp Oil Pool. This pool was discovered by the Socony Mobil State Bridges Well No. 95, located in Unit P of Section 26, Township 17 South, Range 34 East, New Mexico.

  NMPM, Lea County, / The top of the perforations in the Wolfcamp formation is \$\frac{1}{2}\$ 9518 feet.
- (4) That temporary special rules and regulations establishing 80-acre spacing should be promulgated for the subject pool in order to prevent the possibility of economic loss being caused.

operators in the subject pool to gather information concerning the area that can be efficiently and economically drained by one well.

- (5) That the temporary special rules and regulations limits should provide for fixed well locations in order to assure orderly development of the pool and protect correlative rights.
- (6) That temporary special rules and regulations for the Wacuum-Wolfcamp Oil Pool should be established for a one-year period and that during this one-year period all operators in the subject pool should gather all available information relative to drainage and recoverable reserves.
- (7) That this case should be reopened at an examiner hearing in February, 1964, at which time the operators in the subject pool should appear and show cause why the Vacuum-Wolfcamp Oil Pool should not be developed on 40-acre proration units.

## IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production is hereby created and designated the Vacuum-Wolfcamp Oil Pool, consisting of the following-described area:

## TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM Section 26: SE/4

(2) That special rules and regulations for the Vacuum-Wolfcamp Oil Pool are hereby promulgated as follows, effective warch /,
1963.

## SPECIAL RULES AND REGULATIONS FOR THE VACUUM-WOLFCAMP OIL POOL

RULE 1. Each well completed or recompleted in the Vacuum-Wolfcamp Oil Pool or in the Wolfcamp formation within one mile of the Vacuum-Wolfcamp Oil Pool, and not nearer to or within the limits of another designated Wolfcamp pool shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well completed or recompleted in the Vacuum-Wolfcamp Oil Pool shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a single governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

RULE 3. For good cause shown, the Secretary-Director may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a single quarter-quarter section or lot. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the application has been

received by the Secretary-Director has received the synchrotron the first welldrilled on every standard or non-standard unit RULE 4. (Each well-drilled in the Vacuum-Wolfcamp Oil Pool with 200 feet of the content of sides shall be located in the NW/4 or the SE/4 of a governmental quarter section, and not closer than 200 feet to a governmental quarter-quarter section line.

7

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed unorthodox location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may

-4-CASE No. 2740

approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

RULE 6. A standard proration unit (79 through 81 acres) in the Vacuum-Wolfcamp Oil Pool shall be assigned an 80-acre proportional factor of 4.77 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable in the Vacuum-Wolfcamp Oil Pool as the acreage in such non-standard unit bears to 80 acres.

(/) (2) any well presently drilling to or completed in the Wolfcamp formation within the Vacuum-Wolfcamp Oil Pool or within one mile of the Vacuum-Wolfcamp Oil Pool that will not come, with the well location requirements of Rule 4 is hereby granted an exception to the requirements of Rule 4.

That this case shall be reopened at an examiner hearing in February, 1964 at which time the operators in the subject pool may appear and show cause why the Vacuum-Wolfcamp Oil Pool should not be developed on 40-acre proration units.

(2)(7) That any operator desiring to dedicate 80 acres to a well presently drilling or completed in the Vacuum-Wolfcamp Oil Pool shall file a new Form C-128 with the Commission on or before March 1, 1963.

(4)(6) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

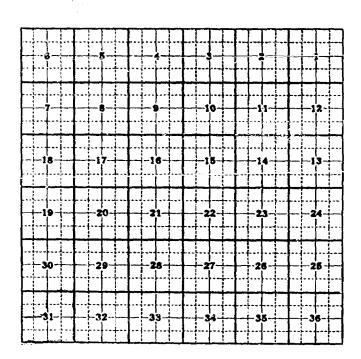
of The species of sing with confronting shell next; be hearing of the name of the second of the seco

Name

Address

Ph.

Remarks:



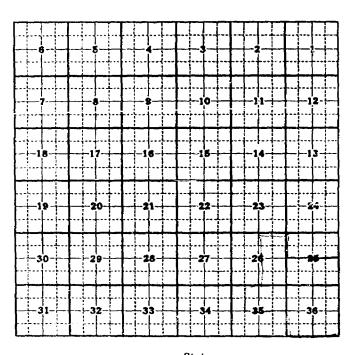
T ...... R ..... or County .....

Name

Address

Ph,

Remarks:



T ...... R ...... or County ......