

OIL CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

November 5, 1964

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P  
Y  
Phillips Petroleum Company  
P. O. Box 2130  
Hobbs, New Mexico

Attention: Mr. W. C. Rodgers

Administrative Order CTB-135

Gentlemen:

Reference is made to your application dated October 22, 1964, for administrative approval of an exception to Rule 309-A of the Commission Rules and Regulations to permit the commingling of Vacuum Abo Reef production from your State B-1502 Lease comprising the NW/4 of Section 5, Township 18 South, Range 35 East and your State B-2073 Lease comprising the SE/4 SW/4 of Section 33, Township 17 South, Range 35 East, Lea County, New Mexico. It is our understanding that each of these leases has a common working interest and that the royalty interest is also common throughout, and that you therefore propose to allocate the production to each of the leases on the basis of periodic well tests.

Under the authority granted me pursuant to Rule 309-B, you are hereby authorized to commingle the above-described production as proposed, subject to the provisions of the Commission "Manual for the Installation and Operation of Commingling Facilities."

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/DSM/esr

cc: Oil Conservation Commission (with enclosure) - Hobbs  
Oil & Gas Engineering Committee - Hobbs  
State Land Office - Santa Fe  
Oil & Gas Accounting Commission - Santa Fe

PROBLEMI DI MATEMATICA  
Esercizio 1  
Calcolo differenziale

1. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^2 \sin\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

2. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^2 \cos\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

3. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^3 \sin\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

4. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^4 \cos\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

5. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^5 \sin\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

6. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^6 \cos\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

7. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^7 \sin\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

8. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^8 \cos\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

9. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^9 \sin\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .

10. Sia  $f: \mathbb{R} \rightarrow \mathbb{R}$  una funzione definita da

$$f(x) = \begin{cases} x^{10} \cos\left(\frac{1}{x}\right) & x \neq 0 \\ 0 & x = 0 \end{cases}$$

Calcolare  $f'(0)$ .



PHILLIPS PETROLEUM COMPANY

Exploration & Production Department

P. O. Box 2130  
Hobbs, New Mexico

October 22, 1964

Mr. A. L. Porter, Jr., Secretary-Director (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

Dear Sir:

Phillips Petroleum Company hereby applies for Administrative exception to Rule 309-A to commingle production from two separate State Land leases into one central tank battery. The two leases are described as: State B-1502 Lease, NW/4 in Section 5, Township 18 South, Range 35 East; and State B-2073 Lease, SE/4 SW/4 in Section 33, Township 17 South, Range 35 East, Lea County.

Each of the wells on these two leases produce from the Vacuum Abo Reef Pool and are presently producing into the Santa Fe Lease Battery No. 15.

There is attached a copy of the Commissioner of Public Lands letter that approves the commingling of production from these leases. Also, there is attached a plat showing the locations of the leases, wells and battery, and a sketch of the tank battery equipment and testing facilities. Also, there is attached a copy of the pipe line company's letter, stating that they agree to the commingling of the two leases.

Each of these leases has a common working interest and the royalty interest is also common throughout. The allocation of production to each of the leases is on the basis of periodic well tests.

Very truly yours,

  
W. C. Rodgers  
Area Superintendent  
Production Division

MGC:wma  
Attach.