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BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 1304
Order No. R-104B

APPLICATION OF EL PASO NATURAL
GAS PRODUCTS COMPANY FOR APPROVAL
OF AN UNORTHODOX OIL WELL LOCATION
IN AN UNDESIGNATED GALLUP OIL POOL
IN SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on August 30, 1957, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the New Mexico Oil Conservation Commission, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 16th day of September, 1957, the Commission, a quorum being present, having considered the application, the evidence, and the recommendations of the Examiner, Daniel S. Nutter, 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 case and the subject matter thereof.

(2) That El Paso Natural Gas Products is the owner and operator of an oil and gas lease covering Section 30, Township 24 North, Range 8 West, NMPM, San Juan County, New Mexico.

(3) That the applicant spudded its Sapp No. 1 Well as a projected gas well at a point 1430 feet from the South line and 965 feet from the East line of said Section 30, which location is an orthodox gas well location under the provisions of Paragraph (b) (2) of Rule 104 of the Commission Rules and Regulations.

(4) That the above-described Sapp No. 1 Well was found to be productive of oil from the Gallup formation and was completed as an oil well in said formation.

(5) That approval of the unorthodox location of the said Sapp No. 1 Well will not cause waste nor impair correlative rights.

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x \frac{1}{1+t^2} dt, \quad x \in \mathbb{R}.$$

It is well known that this function is the arctangent function, i.e., $f(x) = \arctan x$.

The second part of the paper is devoted to the study of the properties of the function $g(x)$ defined by the equation

$$g(x) = \int_0^x \frac{1}{1+t^4} dt, \quad x \in \mathbb{R}.$$

It is well known that this function is the arctangent function, i.e., $g(x) = \arctan x$.

The third part of the paper is devoted to the study of the properties of the function $h(x)$ defined by the equation

It is well known that this function is the arctangent function, i.e., $h(x) = \arctan x$.

The fourth part of the paper is devoted to the study of the properties of the function $i(x)$ defined by the equation

It is well known that this function is the arctangent function, i.e., $i(x) = \arctan x$.

The fifth part of the paper is devoted to the study of the properties of the function $j(x)$ defined by the equation

It is well known that this function is the arctangent function, i.e., $j(x) = \arctan x$.

The sixth part of the paper is devoted to the study of the properties of the function $k(x)$ defined by the equation

It is well known that this function is the arctangent function, i.e., $k(x) = \arctan x$.

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Case No. 1304
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(6) That the denial of this application would impose an undue hardship upon the applicant.

IT IS THEREFORE ORDERED:

(1) That the unorthodox location of the El Paso Natural Gas Products Company Sapp No. 1 Well at a point 1450 feet from the South line and 965 feet from the East line of Section 30, Township 24 North, Range 8 West, NMPM, in an undesignated Gallup Oil Pool in San Juan County, New Mexico, be and the same is hereby approved.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEN, Chairman

MURRAY E. MORGAN, Member

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

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