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El Paso Natural Gas Company

El Paso, Texas
June 16, 1959

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

Gentlemen:

As soon as possible, please set for hearing our application for dual completion in the Pictured Cliffs and Mesa Verde producing intervals El Paso Natural Gas Company's Hancock No. 3, M-22, 28 North, 9 West.

The form, "Application for Dual Completion," and the diagrammatic sketch of the mechanical facilities in the well have been forwarded to you by our Farmington Office. This application is for dual completion with a retrievable type Baker model EJD packer.

If there is any further information that you need prior to the hearing, please advise me.

Yours very truly,

D. H. Rainey

D. H. RAINEY
Administrative Assistant
Proration Department

DHR:jmh

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El Paso Natural Gas Company

El Paso, Texas July 10, 1959

Mr. Dan S. Nutter, Chief Engineer
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Dan:

In compliance with your request as Examiner in Case No. 1713, whereby the El Paso Natural Gas Company seeks an order authorizing the dual completion of its Hancock No. 3 well by utilizing a retrievable type casing packer, the following information is submitted:

A. Data on producing formations.

1. Bottom hole pressures--calculated:

Pictured Cliffs..... 787 psia (at 3274 ft.)
Mesa Verde..... 1138 psia (at 5490 ft.)

2. In-hole temperatures from Temperature Survey:

Pictured Cliffs..... 98°F (at 3274 ft.)
Mesa Verde..... 133°F (at 5490 ft.)
At packer..... 103°F (at 3488 ft.)

B. Information in regards to Baker Model "EGJ" casing packer.

1. Drillability:

This packer is constructed of a J-55 grade or better and is not drillable; however, it can be milled out, which operation El Paso would be willing to undertake should the necessity arise.

2. Tubing weight required to hold bottom slips in place:

It is recommended that a tubing weight of 12,000 to 14,000 pounds be applied to hold the slips in place effectively. A minimum of 6,000 pounds is required to expand the packing element. El Paso sets down within the recommended range of 12,000 to 14,000 pounds.

3. Differential required to actuate the hydraulic hold-down buttons:

Only a slight differential, 5 to 10 psi, will actuate the buttons; however, in order to effectively contact the casing and prevent upward movement, a differential of 85 to 100 psi in favor of the tubing is required. The differential between the two producing zones in the subject well is approximately 350 psi.

Mr. Dan S. Nutter

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4. Temperature conditions under which the Baker Model "EGJ" packer may be used:

Normally, this packer is not recommended for use in the San Juan Basin Area where the temperature is in excess of 200°F. El Paso's policy is to limit the use to wells with temperatures not in excess of 120°F at the packer setting depth. The Hancock No. 3 well has a temperature of approximately 103°F at the packer.

We wish to reiterate our willingness to conduct packer leakage tests in this well at six-month intervals instead of annually so long as the Commission shall deem necessary in order to determine the effectiveness of the segregation of the Pictured Cliffs and Mesa Verde formations.

It is hoped that the above information will be of assistance in your determination of this case; however, if we can be of further help in any way, please advise me.

Best personal regards.

Sincerely yours,

A handwritten signature in cursive script that reads "John B. Mason". The signature is written in dark ink and is positioned above the printed name and title.

John B. Mason
Proration Department

JBM:jmh

MAIN OFFICE OCC

1959 JUN 17 AM 8:35

Case 1713

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

I, D. H. Oheim, being first duly sworn upon my oath
depose and say as follows:

I am an employee of El Paso Natural Gas Company, and
that on May 13, 1959, I was called to the location of the El Paso
Natural Gas Company Hancock No. 3 (FM) Well located in the SWSW/4 of
Section 22, Township 28 North, Range 9 West, N.M.P.M., for advisory
service in connection with installation of a production packer. In
my presence, a Baker Model "EGJ" Production Packer was set in this
well at 3488 feet in accordance with the usual practices and customs
of the industry.

Donald H. Oheim

Subscribed and sworn to before me this 10th day of
June, 1959.

Paul D. MacIsaac
Notary Public in and for San Juan
County, New Mexico

My commission expires February 24, 1960.