New Maxico Oil Conservation Commission P. O. Box 871

Santa Fe, New Mexico

Re: Application for Dual Completion of Northwest Production Corporation Well "N" 4-6, Located in Section 6, TESN, NOV. Rio Arriba County, New Mexico.

Attention: Mr. A. L. Porter

## Gantleman:

In accordance with Rule 112-C of the Commission Rules and Regulations, Northwest Production Corporation requests final approval for the dual completion of Well "g" 4-6 in the Mesaverde and Graneros-Dakota formations. Tentative approval of the plan for drilling and equipping the well was received from Mr. Emery C. Arnold an January 22, 1987. Approval from the United States Geological Survey was received January 17, 1987 on the Metics of Intention to Brill a dual Mesaverds - Graneros-Dakota well.

Pollowing is a resume of the work performed on Well "K" 4-6 which is located 1880 feet from the North line and 1180 feet from the East line of Section 6. Township 26 North, Range 4 West, Rio Arriba County. New Mexico:

- 1. 7-5/8 inch intermediate casing was set at 4131.34 feet.
- 2. A 6-3/4 inch hole was drilled to \$375 feet and a 51 inch liner was communed at total depth. Top of the liner was hung at 4081.86 feet with a Burns liner hanger.
- 3. A 4-3/4 inch hale was drilled below the 5g inch liner to 8392 feet; however, the open hele from 8375 to 8392 feet produced water and the well was plugged back to 8365 feet.
- 4. The 5% inch limer was perforated from 8300-8364 feet and the Dakota formation was fractured with water and send.
- 5. A bridge plug was set at \$160 feet with one sack coment on tep, the 55 inch liner was perforated from \$000-8132 feet and the Graneros formation was fractured with water and sand.
- 4. A bridge plug was set at 8000 feet with two sacks commut on top and the 54 inch liner was perforated from \$948-6180 feet. The lower

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Mesaverde formation was fractured using water only.

7. The 51 inch liner was perforated from 8573-8006 feet, a bridge plug was set at 5036 feet and the upper Messwerde was fractured using water only.

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- 8. The bridge plugs at 5926 feet, 8000 feet and 8160 feet were drilled out and the well cleaned out to 8365 feet.
- 9. Two-inch EUE tubing was hung at \$302.73 feet, a production packer was set at 7306 feet and a tubing side-deer choke at 6196 feet. The well was completed February 7, 1957.

The three-hour absolute open flow for the Messverde tubing-casing annulus completion was 2,365 Mcf per day taken on March 5, 1957, and for the Graneros-Daketa tubing completion was 4,465 Mcf per day taken on February 23, 1987.

Attached for your information is a diagramatic sketch of the dual with portinent data of the completion. Test data, including the Packer Loakage Test and a Packer Setting Affidevit are also attached.

Bi Paso Natural Gos Company, owner of mineral rights on effsetting acreage, was furnished a copy of the application for permission to dually complete "N" 4-6, and the signed registered receipt is attached for your information.

Should you desire additional information before a final order is issued approving the dual completion, please advise.

Very truly yours.

ORIGINAL SIGNED BY W. R. JOHNSTON

W. R. Johnston, Manager Production Operations

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"Burns Liner Hanger" at 4021.86 feet 7 <sup>5</sup>/8" OD casing set at 4121.34 feet

## MESAVERDE DATA

TOP OF MESAVERDE — 5110' BOTTOM OF MESAVERDE — 6183' PERFORATIONS: 5572'-6180'

GRANEROS - DAKOTA DATA

TOP OF GRANEROS — 8068'
BOTTOM OF GRANEROS — 8225'
PERFORATIONS: 8040' — 8214'
TOP OF DAKOTA — 8225'
DAKOTA TO TOTAL DEPTH OF 8392'
PERFORATIONS: 8228'—8364'

"Otis" side door choke with straight thru Mandril at 6190 feet

"Baker" EGJ Packer with hydraulic holddown at 7306'

 $2^{3}/8$  OD tubing at 8302.73

Open Hole — 5 ½ 0D casing at 8375'
TD 8392'

DIAGRAMATIC SKETCH OF DUAL GAS

COMPLETION FOR "N" WELL 4-6

## NORTHWEST PRODUCTION CORPORATION ALBUQUERQUE, NEW MEXICO

APPLICATION FOR DUAL GAS COMPLETION
OF "N" WELL 4-6 IN MESAVERDE AND
GRANEROS-DAKOTA FORMATION

RIO ARRIBA COUNTY
NEW MEXICO

CONTRACT # 119

DRAWN: W.H. McGahey

APPROVED: RAY PHILLIPS

SCALETI"= 600'
DATE: MAR. 7, 1957