March 7, 1957

New Mexico 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, T26N, R4W, Rio Arriba County, New Mexico.

Attention: Mr. A. L. Porter

Gentlemen:

In accordance with Rule 112-C of the Commission Rules and Regulations, Northwest Production Corporation requests final approval for the dual completion of Well "N" 4-6 in the Mesaverde and Graneros-Dakota formations. Tentative approval of the plan for drilling and equipping the well was received from Mr. Emory C. Arnold on January 22, 1957. Approval from the United States Geological Survey was received January 17, 1957 on the Notice of Intention to Drill a dual Mesaverde - Graneros-Dakota well.

Following is a resume of the work performed on Well "N" 4-6 which is located 1850 feet from the North line and 1190 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 4121.34 feet.

2. A 6-3/4 inch hole was drilled to 8375 feet and a 5½ inch liner was cemented at total depth. Top of the liner was hung at 4081.86 feet with a Burns liner hanger.

3. A 4-3/4 inch hole was drilled below the 5½ inch liner to 8392 feet; however, the open hole from 8375 to 8392 feet produced water and the well was plugged back to 8365 feet.

4. The 5½ inch liner was perforated from 8280-8364 feet and the Dakota formation was fractured with water and sand.

5. A bridge plug was set at 8180 feet with one sack cement on top, the 5½ inch liner was perforated from 8090-8128 feet and the Graneros formation was fractured with water and sand.

6. A bridge plug was set at 8080 feet with two sacks cement on top and the 5½ inch liner was perforated from 6048-6180 feet. The lower

Mesaverde formation was fractured using water only.

7. The 5½ inch liner was perforated from 5572-5906 feet, a bridge plug was set at 5926 feet and the upper Mesaverde was fractured using water only.

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 8308.73 feet, a production packer was set at 7306 feet and a tubing side-door choke at 6190 feet. The well was completed February 7, 1957.

The three-hour absolute open flow for the Mesaverde tubing-casing annulus completion was 2,365 Mcf per day taken on March 6, 1957, and for the Graneros-Dakota tubing completion was 4,448 Mcf per day taken on February 23, 1957.

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

El Paso Natural Gas Company, owner of mineral rights on offsetting 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

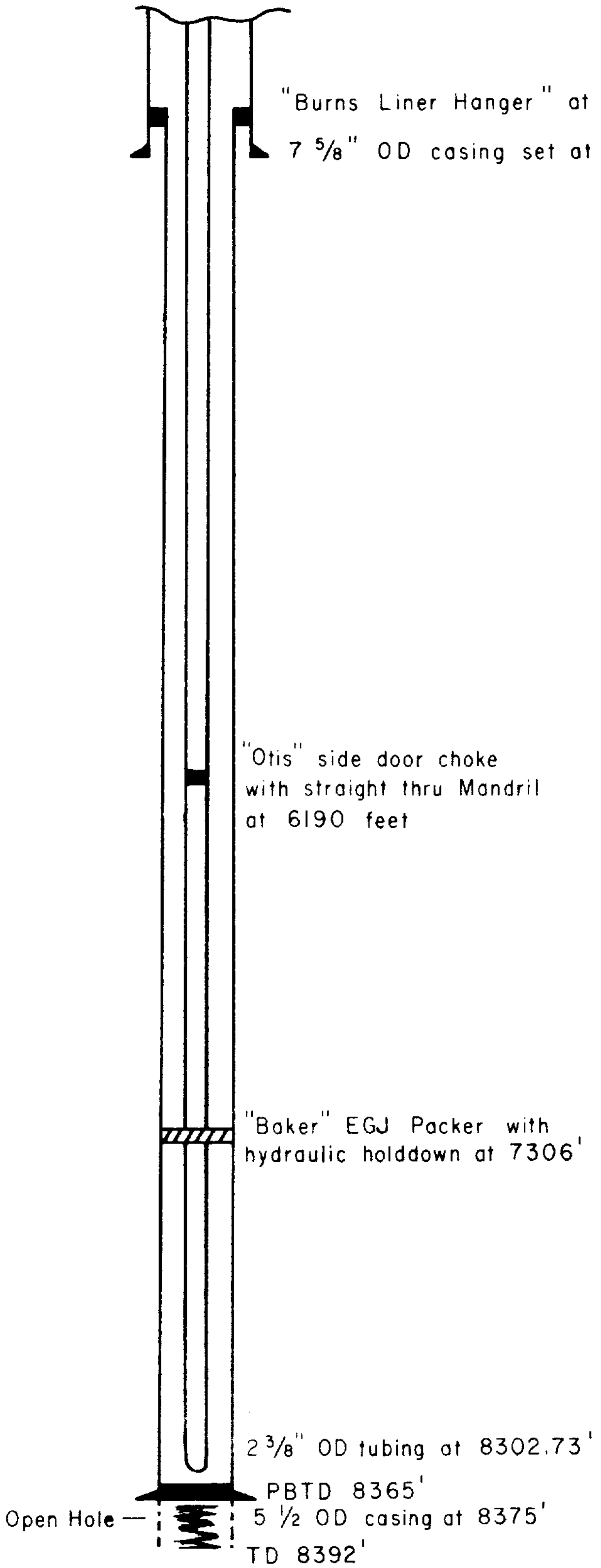
W. R. Johnston, Manager
Production Operations

WRJ/RP/mt

In duplicate
Attachments

cc: New Mexico Oil Conservation Commission
Aztec, New Mexico

United States Geological Survey
Farmington, New Mexico



DIAGRAMATIC SKETCH OF DUAL GAS COMPLETION FOR "N" WELL 4-6

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: 8090'–8214'
TOP OF DAKOTA — 8225'
DAKOTA TO TOTAL DEPTH OF 8392'
PERFORATIONS: 8228'–8364'

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
SCALE: 1" = 600'
DATE: MAR. 7, 1957