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DRILLING AND EXPLORATION COMPANY, INC.

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HOBBS, NEW MEXICO

HOBBS OFFICE OCC

May 21, 1954 1954 MAY 21 AM 9:56

Oil Conservation Commission
Box 871
Santa Fe, New Mexico

Gentlemen:

Application is hereby submitted to ^{fully} complete Drilling & Exploration Company, Inc., State Endura Well No. 4, located 1980 feet from South line and 660 feet from East line of Section 12, Township 21 South, Range 35 East, Lea County, New Mexico.

Notice of Intention to Drill, Form C-101, was filed on March 5, 1954 and approved March 8, 1954. Total depth of 3911 feet was reached on May 6, 1954 and 5-1/2-inch casing was cemented at 3910 feet with 800 sacks cement. Temperature Survey indicates top of cement behind casing to be at 1250 feet. The cement plug was drilled out to 3909 feet.

The 5-1/2-inch casing was perforated opposite the Queen formation from 3855 to 3908 feet and from 3790 to 3834 feet with four jet shots per foot. The interval from 3855 to 3908 was treated with 6,000 gallons crude carrying one pound sand per gallon with packer set at 3825 feet. The interval 3790 to 3834 was treated with 6,000 gallons crude with one pound sand per gallon with bridging plug set at 3845 feet and packer set at 3700 feet. On potential test flowed 98.15 barrels oil, no water, in 6 hours for a 24-hour potential of 392.60 barrels oil with gas-oil ratio of 750 cubic feet gas per barrel.

It is proposed to perforate the 5-1/2-inch casing opposite the Seven Rivers formation of the Jalco Gas Pool from 3350 to 3410, 3520 to 3540, 3590 to 3570, 3610 to 3650 and from 3730 to 3750 feet. Two-inch tubing will be run to approximately 3800 feet with a Sweet Model HD hookwall packer set at approximately 3775 feet. In this manner it is proposed to produce oil from the Queen formation of the Emico-Monument Oil Pool through 2-inch tubing and gas from the Seven Rivers formation of the Jalco Gas Pool through casing-tubing annulus.

through casing-tubing annulus.
and gas from the Seven Rivers formation of the Nalco Gas Pool
formation of the Zurich-Monument Oil Pool through 2-inch tubing
In this manner it is proposed to produce oil from the Queen
Sweet Model 8D wellbore set at approximately 3775 feet.
Two-inch tubing will be run to approximately 3800 feet with a
3520 to 3540, 3540 to 3570, 3510 to 3550 and from 3730 to 3750 feet.
Seven Rivers formation of the Nalco Gas Pool from 3750 to 3810.
It is proposed to perforate the 2-1/2-inch casing opposite the