

## HARDY STATE 36 LEASE

### Tubb Formation

#### Fluid Properties

Oil Gravity	40.6 API
Oil Density	46.5 lb/ft <sup>3</sup>
Oil Viscosity	1.15 cp @ 120F
Oil Volume Factor	1.311 RB/STB
Gas Gravity	0.74
Gas Density	5.9 lb/ft <sup>3</sup>
Gas Viscosity	0.014 cp @ 100F
Bubble Point Pressure	1605 psia
Solution GOR	629 SCF/STB
Water Density	67.1 lb/ft <sup>3</sup>
Water Viscosity	0.82 cp
Rw	0.04

#### Reservoir Data

Reservoir Pressure	2325 psia
Reservoir Temperature	103 F
Average Porosity	11 %
Average Permeability	2 - 3 md
Average Gross Thickne	100 ft
Initial Oil Saturation	0.6

#### Reservoir Acreage:

- SW Structure	390 acres
- NE Structure	260 acres

(based on area within -2830 ft contour from Top Structure Map)

#### Volumetrics

- SW Structure	15232 MSTB
- NE Structure	10155 MSTB

BEFORE AN EXAMINER OF THE  
OIL CONSERVATION DIVISION

EXHIBIT NO. 5

CASE NO. 11779

Submitted by: Conoco Inc.

Hearing Date: May 29, 1997