

1000

PERMEABILITY MILLIDARCIES

100

10

1.0

0.10

# EXHIBIT XIII

PERMEABILITY VS. POROSITY

PENNZOIL COMPANY

YAWKEY-FREEMAN NO. 114 WELL

BEREA SANDSTONE

PERMIT #1092

BOONE COUNTY, W. VA.

0.1 md = 6.4%  $\phi$

4.0

8.0

12.0

16.0

20.0

24.0

POROSITY : PERCENT

(Tight Formation Committee, 1981)

## EXHIBIT XXII

COMPARISON OF BEREA  
CORE POROSITY VS LOG POROSITY

<u>WELL</u>	<u>CORE POROSITY</u>	<u>LOG POROSITY</u>
Boone County, WV #1092 Pennzoil	7.5%	7.0%
Kanawha County, WV #2788 Columbia Gas	10.1%	10.2%
Putnam County, WV #839 D. C. Malcolm	7.6%	8.1%
Martin County, KY #32635 Columbia Gas	<u>6.8%</u>	<u>6.1%</u>
Average Porosity for 4 Representative Wells	8.0%	7.9%