



## CORE LABORATORIES

May 10, 1988

UNOCAL  
P.O. Box 671  
Midland, Texas 79702

File : 57181-15596  
Subject: Drilled Sidewall Analysis  
North Maduro Federal #1  
Gem (Morrow) Field  
Lea County, New Mexico  
*2310/N + 660/E 20 19-33*

Gentlemen:

Sidewall Core Analysis was made on 2 drilled sidewall core samples received from Schlumberger.

Fluid removal and fluid saturations were determined using Dean Stark techniques.

Gas expansion porosity and grain density were determined using Boyle's Law.

Gas detection was measured using a "Hot Wire Gas Detector" on gas in the sealed jars.

Air permeability was measured horizontally on drilled sidewalls.

Descriptions and fluorescence were visually determined microscopically.

The samples are being held at our Midland lab as we await further disposition instructions.

We trust these data will be useful in the evaluation of your property and thank you for the opportunity of serving you.

Very truly yours,

CORE LABORATORIES, a subsidiary of  
WESTERN ATLAS INTERNATIONAL, INC.

Wade J. Reinheimer  
Laboratory Supervisor II/Geologist

WJR/yn