VENADO MESASVERDE
(Oil)
T. 22 N., R. 5 W., NMMP
Sandoval County, New Mexico

GEOLOGY
Regional Setting: Chaco slope, southern San Juan Basin
Surface Formations: Tertiary, San Jose Formation
Exploration Method Leading to Discovery: Drilled Dakota test, subsurface geology
Type of Trap: Stratigraphic
Producing Formation: Cretaceous, Menefee Formation
Gross Thickness and Lithology of Reservoir Rocks: 550 feet, sandstones, shales, and coals
Geometry of Reservoir Rock: Lenticular (lagoonal and floodplain deposits)
Other Significant Shows: None
Oldest Stratigraphic Horizon Penetrated: Jurassic, Morrison Formation

DISCOVERY WELL
Name: Warren Drilling Company No. 1 Littleton
Location: NW NW (660' FNL and 660' FWL) sec. 8, T. 22 N., R. 5 W., NMMP
Elevation (KB): 7,002 feet
Date of Completion: August 17, 1971
Total Depth: 6,611 feet
Production casing: 4 1/2" at 5,102 feet with 180 sacks of cement
Perforations: 4,052 to 5,062 feet; 4,070 to 4,074 feet; 4,078 to 4,082 feet; 4,088 to 4,093 feet with 2 shots per foot
Stimulation: Sand-water fractured, 4,052 to 4,093 feet with 44,800 gallons water, 55,000 lbs sand
Initial Potential: Pump 75 BOD, 50 MCFGD, 300 BWD
Bottom Hole Pressure: Unknown

DRILLING AND COMPLETION PRACTICES
Wells were drilled through the Mesaverde, casing run, cemented, and perforated. Two of the three wells were stimulated by sand-water fracturing and the other was natural.

RESERVOIR DATA
Productive Area:
  - Proved (as determined geologically): 160 acres
  - Unproved: 0 acres
  - ApprovedSpacing: 40 acres
  - No. of Producing Wells: 2
  - No. of Abandoned Wells: 1
  - No. of Dry Holes: 1
Average Net Pay: 20 feet
Porosity: 16 percent
Permeability: Unknown
Water Saturation: 50 percent
Initial Field Pressure: Unknown
Type of Drive: Gravity flow
Gas Characteristics and Analysis: Unknown
Oil Characteristics and Analysis: 46° API gravity
Associated Water Characteristics and Analysis: Unknown
Original Gas, Oil, and Water Contact Datums: Unable to determine from logs
Estimated Recovery: 40,000 to 45,000 BO
Present Daily Average Production: 6 BOP (January 1, 1977)
Market Outlets: Trucked to Bloomfield area by Permian Corporation

FIELD COMMENTARY
The three wells in this pool produce from sandstones in the Menefee Formation. The cross-section indicates that all three wells probably produce from different sandstones.