KUTZ FRUITLAND, WEST
(Gas)
T. 29 N., R. 12-13 W.
San Juan County, New Mexico

GEOLOGY
Regional Setting: West-central San Juan Basin
Surface Formations: Tertiary, Ojo Alamo Sandstone; Cretaceous, Kirtland Shale
Exploration Method Leading to Discovery: Subsurface geology
Type of Trap: Stratigraphic
Producing Formation: Cretaceous, Fruitland Formation
Gross Thickness and Lithology of Reservoir Rocks: 20 feet, sandstone
Geometry of Reservoir Rock: Elongate, lenticular, sandstone lens; northwest depositional strike
Other Significant Shows: Cretaceous, Pictured Cliffs Sandstone and Dakota Sandstone produce in the area
Oldest Stratigraphic Horizon Penetrated: Cretaceous, Dakota Sandstone

DISCOVERY WELL
Name: Locke-Taylor Drilling Co. No. 1 Tycksen
Location: NE NE (990' FNL and 990' FEL) sec. 23, T. 29 N., R. 13 W.
Elevation (KB): 5,300 feet (estimate)
Date of Completion: October 22, 1952
Total Depth: 1,230 feet
Production Casing: 5" at about 900 feet
Perforations: Open hole completion, 900 to 975 feet
Stimulation: Nitroglycerine
Initial Potential: 370 MCFGD
Bottom Hole Pressure: 350 psi

DRILLING AND COMPLETION PRACTICES
Well is drilled into the Pictured Cliffs where 5½" casing is set and a completion is attempted. If the Pictured Cliffs is nonproductive, the well is plugged back and perforated in the Fruitland. Treatment is a sand-water fracture consisting of 21,000 gallons of water and 30,000 lbs of sand.

RESERVOIR DATA
Productive Area:
Proved (as determined geologically): 500 acres
Unproved: 2,000 acres (The boundary between Kutz, West, and Pison, North is not defined. Combined total unproved area for both fields is 3,300 acres.)
No. of Producing Wells: 2
No. of Abandoned Wells: 0
No. of Dry Holes: 0
Average Net Pay: 12 feet
Porosity: 16 percent (estimated)
Permeability: Unknown
Water Saturation: 40 percent (estimated)
Initial Field Pressure: 382 psi
Type of Drive: Pressure depletion
Gas Characteristics and Analysis: Specific gravity 0.664
Oil Characteristics and Analysis: None
Associated Water Characteristics and Analysis: 3,000 to 5,000 ppm NaCl
Original Gas, Oil, and Water Contact Datums: Unknown
Estimated Primary Recovery: 1,370,000 MCFG (80 percent)
Type of Secondary Recovery: None
Present Daily Average Production: 115 MCFGD
Market Outlets: El Paso Natural Gas

REFERENCES
New Mexico Oil and Gas Engineering Committee records. Operator's files.