ADOBE CHACRA
(Gas)
T. 24 N., R. 4 W., NMPM
Rio Arriba County, New Mexico

GEOLGY
Regional Setting: Southeastern San Juan Basin
Surface Formations: Tertiary, San Jose Formation
Exploration Method Leading to Discovery: Subsurface geology
Type of Trap: Stratigraphic
Producing Formation: Cretaceous, “Chacra” sandstone
Gross Thickness and Lithology of Reservoir Rocks: 30 to 40 feet of sandstone, gray, very fine-grained, and shaly sandstone
Geometry of Reservoir Rock: Northwest trending discontinuous beach bar
Other Significant Shows: Commercial production from Cretaceous, Pictured Cliffs and Dakota Sandstones
Oldest Stratigraphic Horizon Penetrated: Jurassic, Morrison Formation

DISCOVERY WELL
Name: Cotton Petroleum Corporation No. 26 Apache
Location: NE SW (1,500' FSL and 1,845' FWL) sec. 13, T. 24 N., R. 4 W., NMPM
Elevation (KB): 6,852 feet
Date of Completion: January 15, 1981
Total Depth: 4,120 feet
Production Casing: 4½" casing at 4,119 feet with 420 sacks of cement
Stimulation: Sand-water fracture, 80,000 gallons of water, 80,000 lbs of sand
Initial Potential: Flow 325 MCFGD
Bottom Hole Pressure: 961 psi

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DRILLING AND COMPLETION PRACTICES
The “Chacra” can be completed either singly or commingled with the Pictured Cliffs. Set 8½" surface casing, drill with mud, log; set 4½" production casing, perforate, sand-water fracture, and flow test. To commingle, set bridge plug, perforate Pictured Cliffs, sand-water fracture, flow test, and commingle with “Chacra.”

RESERVOIR DATA
Productive Area:
Proved (as determined geologically): 800 acres
Unproved: 960 acres
Approved Spacing: 160 acres
No. of Producing Wells: 4
No. of Abandoned Wells: 1
No. of Dry Holes: 0
Average Net Pay: 20–30 feet
Porosity: 10 percent
Permeability: Unknown
Water Saturation: Unknown
Initial Field Pressure: 961 psi
Type of Drive: Gas expansion
Gas Characteristics and Analysis: ("Chacra" and Pictured Cliffs commingled) Composition by percentage: carbon dioxide .15, nitrogen 1.37, methane 82.89, ethane 7.55, propane 4.71, iso-butane 1.01, normal butane 1.13, iso-pentane .47, normal pentane .31, hexane .41; Btu 1,218; specific gravity .702
Associated Water Characteristics and Analysis: Unknown
Original Gas, Oil, and Water Contact Datums: None available
Estimated Recovery: Not available
Present Daily Average Production: 10 MCFGD
Market Outlets: El Paso Natural Gas Company, Gas Company of New Mexico, Northwest Pipeline Corporation