DISCOVERY DETAILS

Method
Reflection seismograph mapping.

Well
Lyons Pool.
Name: The California Company No. 1 Priddy NW SW 23-8N-66W.
Completed: June 30, 1955. Perforated 9201-9210'.
Treament: None.
Initial Potential: Well pumped 320 BOPD cut 0.2% BS&W with a GOR of 30 cu.ft./bbl.

GEOLOGY

Producing Zone(s)
Lyons sand—Permian.

Other Saws
Shows were logged in thin sands in the lower Pierre, in fractures in the Niobrara shale, in hard tight and clay cemented sandstone of the Muddy formation. Drill stem tests to evaluate these shows indicated non-commercial production.

Trap Type
Structural.

Lithology
Lyons Pool: Sandstone, white with dark brown to black staining, fine to medium grained, fair to good sorting, cemented with anhydrite—fair to good porosity and permeability.

Maximum Reservoir Thickness
70 feet.

Regional Setting
Structure on steeper west flank of Denver Basin.

Deepest Formation Penetrated
Precambrian.

DEVELOPMENT DATA

Oil Zone Thickness
Maximum 42'
Average 27'

Porosity
11.8% Avge., 26.1% Max.

Permeability
44 md./ft. average.

Area
2000 acres.

Gas Characteristics
Not analyzed.

Oil Characteristics
Gravity (API) 36.0'
Sulphur 0.50%
Initial solution GOR (cu.ft./bbl.): 39.3
Base Paraffin

Assoc. Water Characteristics
Total solids (ppm) 55,279
NaCl equiv. (ppm) 50,883
Resistivity (ohm-meters at 68°F) 0.15

Pressure Maintenance or Secondary Recovery
Water injection (just started)

PRODUCTION

Cumulative Production through 1960
(bbls.) 3,224,472

Production in 1960
(bbls.) 707,635

Market Outlet
Frontier Refining—Cheyenne, Wyoming.