BULL CREEK FIELD

By Bill J. Wright
Champlin Petroleum Company
April, 1965

DESCRIPTION

T 21 S, R 7 W - SW/4 19; W/2 30;
T 21 S, R 8 W - SE/4 22; S/2 23; S/2 24;
All 25 & 26; E/2 35;
W/2 & W/2 E/2 36

Rice County, Kansas

METHOD OF EXPLORATION
LEADING TO DISCOVERY

Subsurface geology.

DISCOVERY WELL

Pure Oil Co., No. 1 Thode, C NE SE Section 26-21S-8W, spudded 12-8-60, completed 1-10-61, IP: Flowed 168 BOPD plus 33 MCFGPD from Mississippian Osage chert through 10/64th inch choke. DST pressures: ISIP 1222#/30 mins. FSIP 1215#/30 mins.

GEOLOGICAL CONDITIONS AND NATURE OF TRAP

The Bull Creek Field is primarily a stratigraphic trap. Production is from porous, weathered Mississippian and/or Conglomerate cherts which occupy a small structural embayment on the east flank of the Sterling-Lyons anticline. Post-Mississippian erosion has created minor topographic noses and drainage channels perpendicular to the strike. The field is restricted laterally by permeability loss due to shaly chert development. Longitudinal shale barriers and topography have formed local traps within the field, having erratic gas caps and water levels.

PRODUCTIVE AREA AND TYPE DRIVE

The field covers approximately 1200 acres, with 27 wells on 40 acre spacing. The reservoir has a water drive. The earlier wells had considerable solution gas and flowed initially.