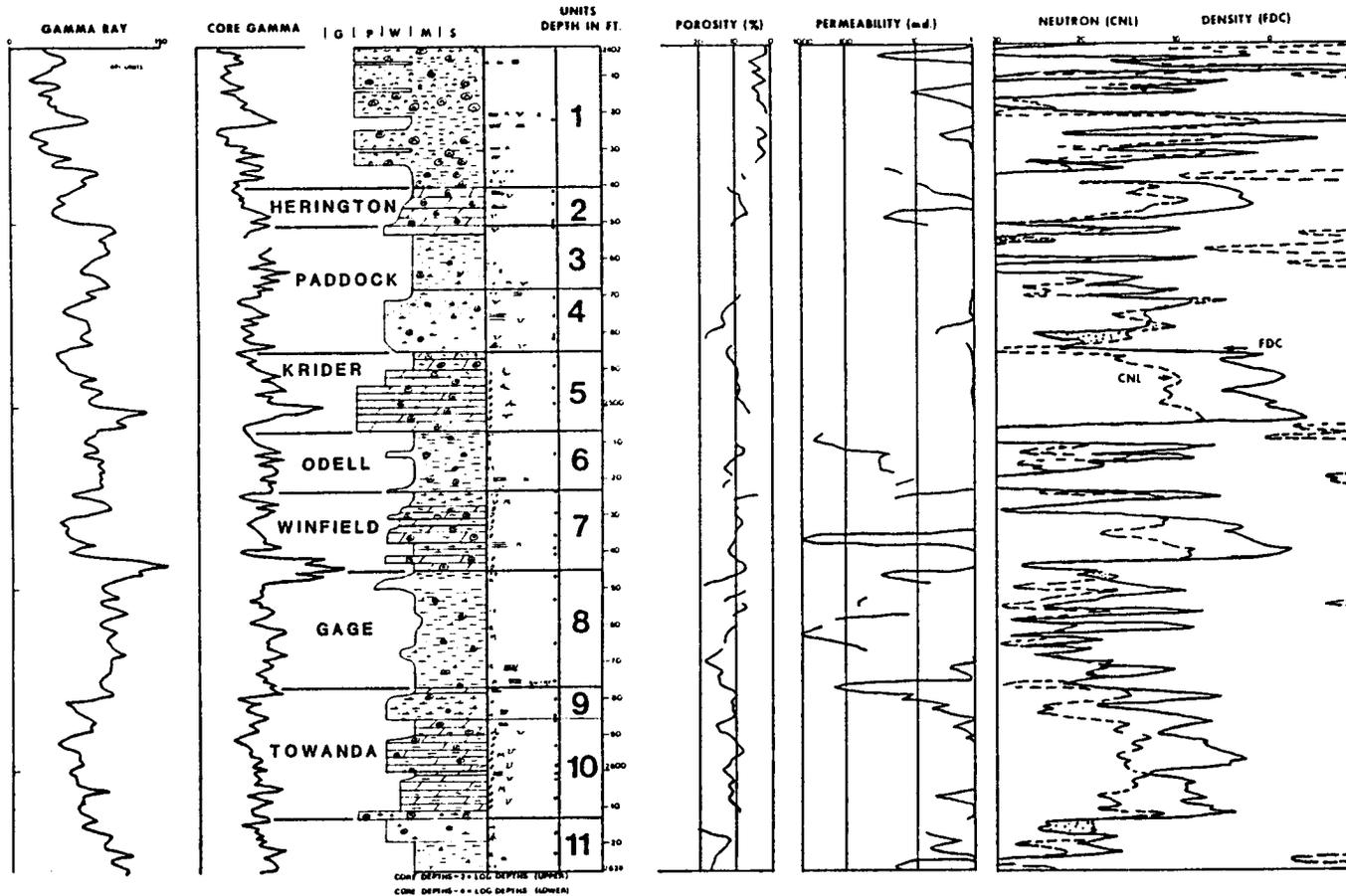


CITIES SERVICE COMPANY GARDEN CITY E-2
SEC. 32 T23S R34W
FINNEY CO., KANSAS



LEGEND	
[Symbol]	THIN BEDDED LIMESTONE
[Symbol]	THICK BEDDED LIMESTONE
[Symbol]	THIN BEDDED DOLOMITE
[Symbol]	THICK BEDDED DOLOMITE
[Symbol]	GRANITONE
[Symbol]	PACKSTONE
[Symbol]	WACKSTONE
[Symbol]	MUDSTONE
[Symbol]	SALTSTONE SHALY
[Symbol]	SHALE SHALEY
[Symbol]	SAND SANDY
[Symbol]	SANDY
[Symbol]	DOLOMITE
[Symbol]	CHERT
[Symbol]	PYRITE
[Symbol]	ANHYDRITE
[Symbol]	ANHYDRISM
[Symbol]	DAYTONIAN
[Symbol]	CORAL
[Symbol]	SHALVE
[Symbol]	DOLOITE
[Symbol]	DOLOMITE
[Symbol]	PELLOID GRAINS
[Symbol]	BURROW
[Symbol]	MOTTLED
[Symbol]	ROOT MARK
[Symbol]	CLAY MISP
[Symbol]	STYLOLITE
[Symbol]	REPLICATED FRACTURE
[Symbol]	VERTICAL FRACTURE
[Symbol]	HORIZONTAL FRACTURE
[Symbol]	IRREGULAR BEDDING
[Symbol]	LAMINATE BEDDING
[Symbol]	THIN SECTION
[Symbol]	DRILL STEM TEST
[Symbol]	RED COLOR
[Symbol]	GREEN COLOR
[Symbol]	INDISTINCT FORAM FRAGMENT
[Symbol]	VISIBLE POROSITY
[Symbol]	CALICHE

VERTICAL SCALE
 0
 FT.
 20

CITIES SERVICE OIL AND GAS CORPORATION
 EXPLORATION AND PRODUCTION GROUP

KANSAS HUGOTON FIELD

Exhibit No. 21
 Docket No. C-164
 Date: **FEBRUARY 15, 1985**
 Witness: **G.D. HINTERLONG**