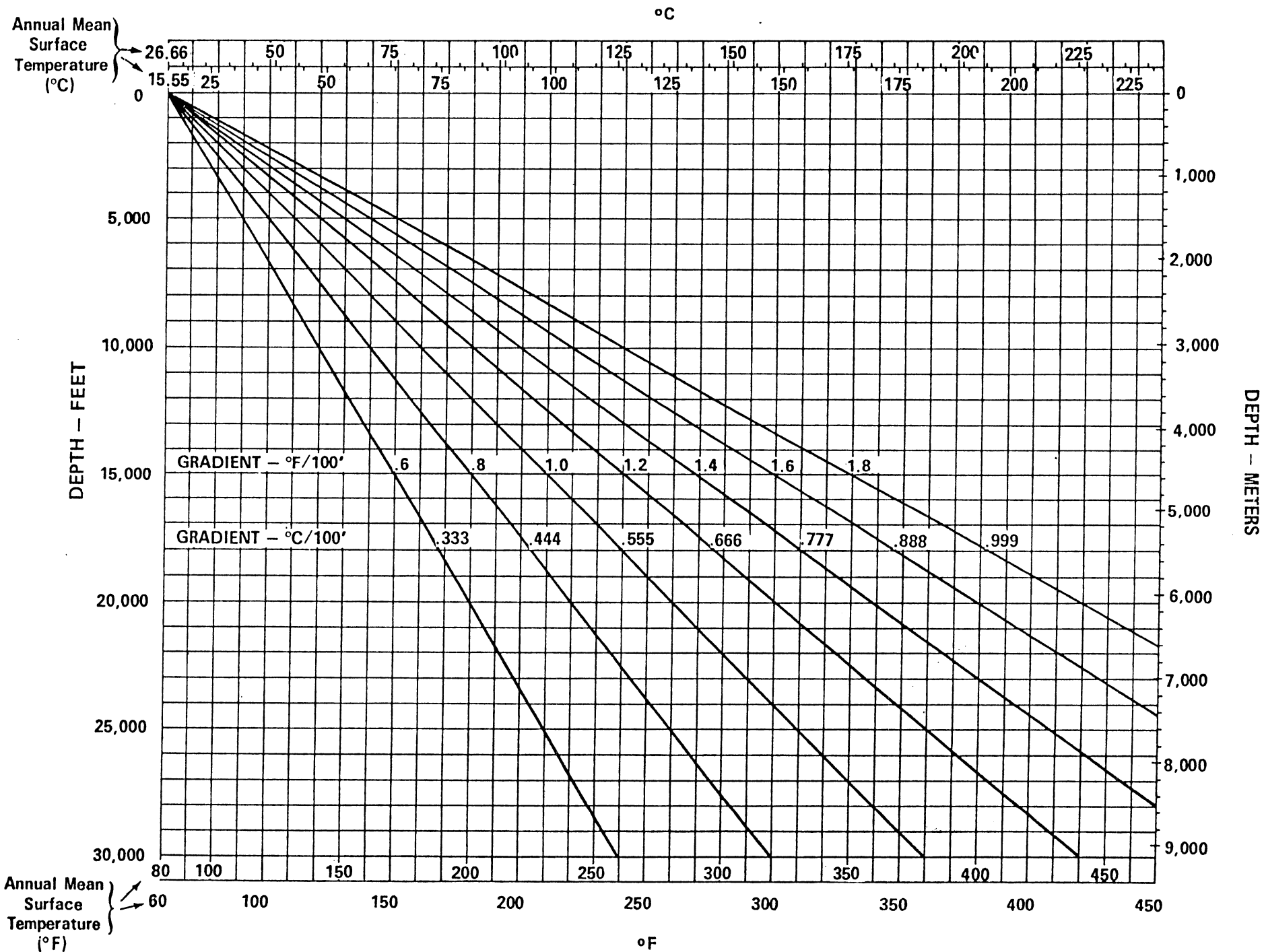


**GEOLOGIC TIME SCALE**

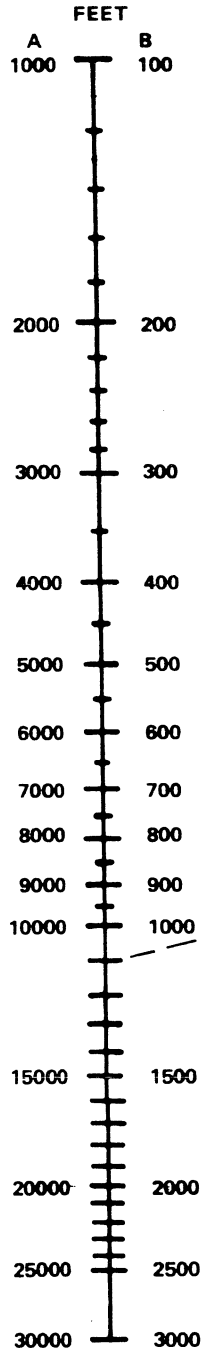
ERA	PERIOD	EPOCH	YEARS BEFORE THE PRESENT
Cenozoic	Quaternary	Holocene (Recent)	11,000
		Pleistocene (Glacial)	500,000 to 2,000,000
	Tertiary	Pliocene	13,000,000
		Miocene	25,000,000
		Oligocene	36,000,000
		Eocene	58,000,000
		Paleocene	63,000,000
		Mesozoic	Cretaceous
Jurassic	180,000,000		
Triassic	230,000,000		
Paleozoic	Permian	280,000,000	
	Carboniferous	Pennsylvanian (Upper Carboniferous)	310,000,000
		Mississippian (Lower Carboniferous)	345,000,000
	Devonian	405,000,000	
	Silurian	425,000,000	
	Ordovician	500,000,000	
	Cambrian	600,000,000	
Precambrian			

# FORMATION TEMPERATURE - DEPTH RELATIONSHIPS



# HYDROSTATIC PRESSURE FOR DRILLING FLUIDS

DEPTH OF COLUMN



## EXAMPLE:

Depth: 11,000

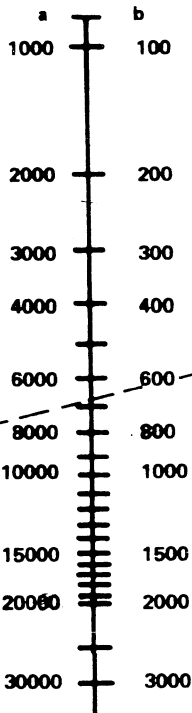
Density: 12 ppg - 90 lb./cu.ft.

Lay straight-edge from 11,000' on scale "A" to 12 - 90 on density scale

Read intersection on scale "a" - 6860 psi

BOTTOM HOLE PRESSURE

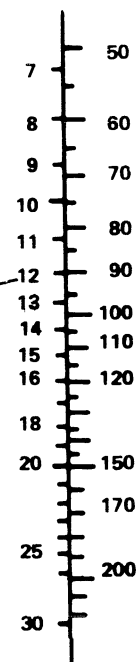
Pound Per Square Inch



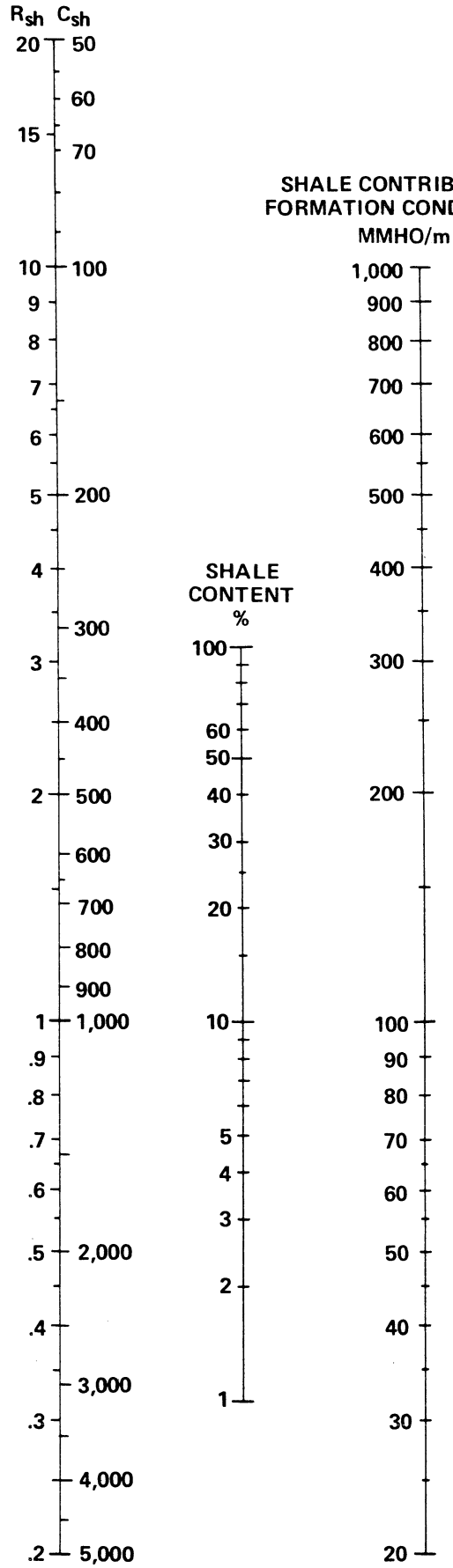
FLUID DENSITY

Pounds Per Gallon

Pounds Per Cubic Foot



# SHALY SAND NOMOGRAPH



Subtract the calculated shale contribution to formation conductivity as obtained from nomograph bar three from the log conductivity value after correcting for borehole and bed thickness effects.

# FORMATION PRESSURE FROM SHALE COMPACTION GRADIENT

DEPTH IN FEET X 1000

