UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
PROFESSIONAL PAPER 305 PLATE 17
SYSTEM OR SERIES
GROUP
FORMATION
FACIES
FAUNAL ZONE
HEAVY MINERAL ZONE
SPONTANEOUS POTENTIAL
DEPTH IN FEET
COMPOSITION
RESISTIVITY
SELECTED LITHOLOGIC DESCRIPTION
DIP
CORE
HOLE DIAMETER AND CASING DIAMETER
RATE OF PENETRATION
CORE BIT NUMBER
DRILL BIT
PLEISTOCENE
CRETACEOUS
LOWER
NANUSHUK
GROUP
TOPAGORUK
COLVILLE
UPPER
JURASSIC
MIDDLE
TRIASSIC
PERMIAN
DEVONIAN OR PERMIAN
MIDDLE DEVONIAN
UNNAMED STRATA
UNNAMED RED BEDS
EXPLANATION
Gravel or conglomerate
Sandstone
Siltstone, mudstone
Calcareous sandstone
Siltstone
Silty sandstone
Siltstone
Calcareous siltstone
Clay shale or claystone
Clay shale or claystone
Sandy clay shale or claystone
Silty clay shale or claystone
Calcareous clay shale or claystone
Clay
Clay, limestone
Coal or carbonaceous material
Limestone
Limestone
Sandy limestone
Dolostone
Cored interval
No samples recovered
Oil show
Gas show
Oil & gas show
Very fine grained
Fine grained
Medium grained
Coarse grained
Abd
Electrolin spacing
BIT SYMBOLS
DRILL BITS
A-B
Globe Jet
BRC
Hole opener made at Barrow
HW
Hughes CD
HWC
Hughes CDC-1
HWJ
Hughes CDC-3
HWJ
Hughes CDQ-2
HWT
Hughes CWG
HYW
Hughes WTR
RHW
Reed hole opener
R-1
Reed T
RT
Reed TST
R
Reed T
RT
Reed ET
S-HW
Security hole opener
HW-1
Security CR-1
SHW
Security CW
HW-5
Security S-H-5
SC
Security C
S-W
Smith R-JP
S
Smith S
CORE BITS
A-1B-2
B-1B-B Christensen diamond core
C-1B-B Christensen diamond core
R-1
Reed R-1H hard formation
PD-1
Reed wire line PD-1
PD-2
Reed wire line PD-2
SW-1H
Security CW-6 coring
Location: Lat 70°33'30" N.
Long 159°50'28" W.
Elevation: Kelly bushing 47 feet above sea level.
Spudded: June 15, 1950.
Completed: September 26, 1951
Total depth: 10,504 feet
Status: Dry and abandoned
Drilling and engineering data compiled from records of Arctic Contractors
Colors were determined by comparison of Munsell Soil Color Charts, Munsell Research Council Rock Color Chart, 1948
Electric log Run 1 made with Welex Logger.
Runs 2 to 12 made with Schlumberger Well Surveying Corporation.
All depths are measured from the top of the kelly bushing.
Logged by Florence A. Collins
GRAPHIC LOG OF TOPAGORUK TEST WELL 1, ALASKA