

LEGEND

CEANOZOIC

QUATERNARY

HOLOCENE

Qf Fluvial silt, sand and gravel, in part with cover of organic deposits; undivided

Qg Gypsiferous intrusion in Richardson Fault Array

CRETACEOUS

LOWER CRETACEOUS

KAR ARCTIC RED FORMATION: shale, silty, concretionary, dark grey; siltstone, medium to dark grey; concretionary, marine. May include Martin House Formation.

KRR RAT RIVER FORMATION: sandstone, pale brownish grey; conglomerate, sandstone-quartzite- and chert- pebble; marine

KMG MOUNT GOODENOUGH FORMATION: shale, siltstone, and sandstone; marine

KMH MARTIN HOUSE FORMATION: siltstone and shale, glauconitic, concretionary; marine

The new formation names Mount Goodenough and Rat River are after J.A. Jeletzky (in press)

JURASSIC AND CRETACEOUS

UPPER JURASSIC AND LOWER CRETACEOUS

JKnb NORTH BRANCH FORMATION: sandstone, conglomeratic, light grey, glauconitic; shale and siltstone; marine

TRIASSIC

UPPER TRIASSIC

Ts Limestone, skeletal; marine

CARBONIFEROUS

LOWER CARBONIFEROUS

Cf Shale, silty, concretionary, dark grey; marine and nonmarine ?

Ct TUTTLE FORMATION: conglomerate and sandstone, commonly loosely consolidated, locally carbonaceous; fluvialite

The new formation name Tuttle is after D.C. Pugh (in press)

DEVONIAN

UPPER DEVONIAN

Dus Shale, dark grey, rusty weathering, nodular; siltstone; marine

Di2 IMPERIAL FORMATION (Di1, Di2) Upper part: sandstone, fine grained, lithic, dark grey; siltstone, dark grey

Di1 Lower part: shale, dark grey, rusty weathering; siltstone, dark grey

Di IMPERIAL FORMATION: undivided

Dca CANOL FORMATION: shale, black, siliceous; marine

MIDDLE DEVONIAN

Dhu HUME FORMATION: limestone and shale; marine (Subsurface only)

LOWER AND MIDDLE DEVONIAN

Do OGLIVIE FORMATION: limestone, black, argillaceous; shale, calcareous; marine

Dg GOSSAGE FORMATION: limestone and dolomite, fine-crystalline to aphanitic, brown; marine (Structure section 4 only)

CAMBRIAN TO DEVONIAN

UPPER CAMBRIAN TO LOWER DEVONIAN

CDR4 ROAD RIVER FORMATION (CDR0-CDR4): Shale and limestone, black, graptolitic; marine

CDR3 Siltstone, medium grey, platy; limestone, dark grey

CDR2 Sharpstone breccia, heterogeneous, commonly with limestone and chert clasts; turbiditic

CDR1 Shale and limestone, black, graptolitic; marine

CDR0 Shale, black, calcareous; limestone, black; marine

CDR ROAD RIVER FORMATION: undivided (in structure section 4 only)

CDb Limestone, dolomite and shale, undivided; marine

CDn and CDb are facies equivalents

GAMBRIAN

MIDDLE CAMBRIAN

Csc SLATS CREEK FORMATION: sandstone, fine grained, medium grey; siltstone, brown weathering

LOWER CAMBRIAN

Cl ILLTYD FORMATION: limestone, fine-crystalline, dark grey; marine

The new formation names Illtyd and Slat Creek are after W.H. Fritz (in press)

HELIKIAN

Pu Siltstone, quartzite and dolomite, undivided; marine ? (Structure section 4 only)

7APHEBIAN

HQ QUARTET GROUP: phyllite, feldspathized, black; breccia, heterolithic

Outcrop or felsenmeer examined (bedding not measurable)
 Geological boundary (defined, approximate)
 Bedding, tops known (horizontal, inclined)
 Bedding, estimated from aircraft (horizontal, inclined)
 Fault, extension (solid circle indicates downthrow side; defined, approximate)
 Fault, undesignated (defined, approximate)
 Fault (arrow indicates relative movement)
 Fault, contraction (teeth indicate upthrust side)
 Anticline (arrow indicates plunge)
 Syncline (arrow indicates plunge)
 Drumlins, drumlinoid ridges (direction of ice movement inferred, not inferred)
 Fossil locality (GSC catalogue number; Calgary, Ottawa)
 Stratigraphic section
 Stratigraphic type section
 Mineral occurrence
 Borehole (dry and abandoned)
 Breccia pipe
 Paleontological age on fossil locality (determined); for explanation of geological time symbols, see Geotectonic Correlation Chart, T532A
 Apparent radiometric age (millions of years)
 Tentative formational assignment
 Line of section
 C-24289, 55142

MINERALS

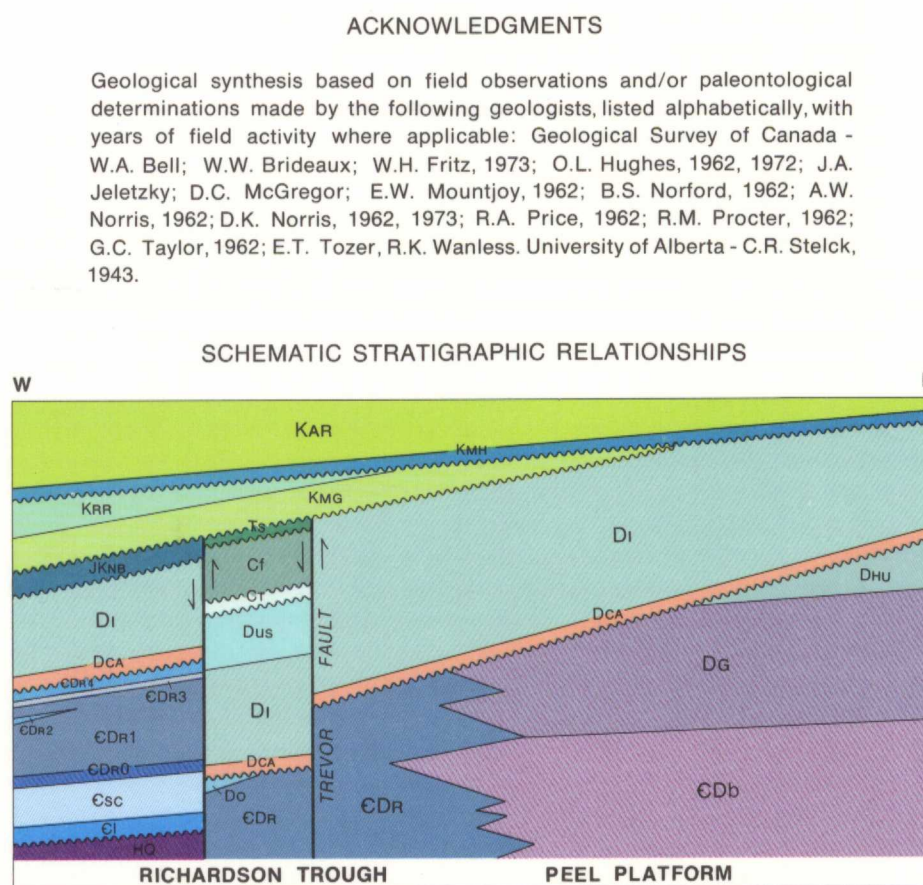
Iron Fe
 Uranium U

Geology by D.K. Norris, 1974

SCHEDULE OF WELLS

1. Shell Peel River YT J-21; T.D. 1219 m
2. Shell Peel River YT K-76; T.D. 1387 m
3. Shell Peel River YT L-1; T.D. 1835 m
4. Shell Peel River YT I-21; T.D. 2073 m
5. Shell Peel River YT L-19; T.D. 1981 m
6. Shell Peel River YT B-6; T.D. 430 m
7. Shell Peel River YT B-6A; T.D. 1067 m
8. IOE Satah River YT G-72; T.D. 2286 m
9. Shell Peel River YT K-9; T.D. 1555 m
10. Shell Peel River YT H-59; T.D. 1632 m
11. Pacific et al. Peel F-37; T.D. 3368 m
12. Shell Trail River YT H-37; T.D. 3722 m
13. Gulf-Mobil Caribou YT N-25; T.D. 3600 m
14. Mobil Gulf Peel YT H-71; T.D. 3392 m

Note: Well listing is chronological in order of spudding date



Geological cartography by G.S. Whitman, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

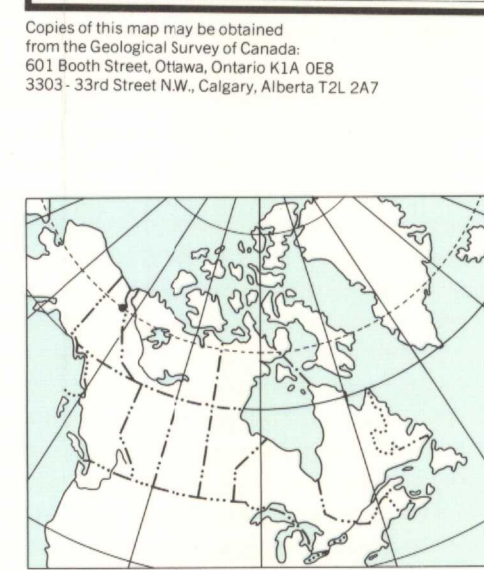
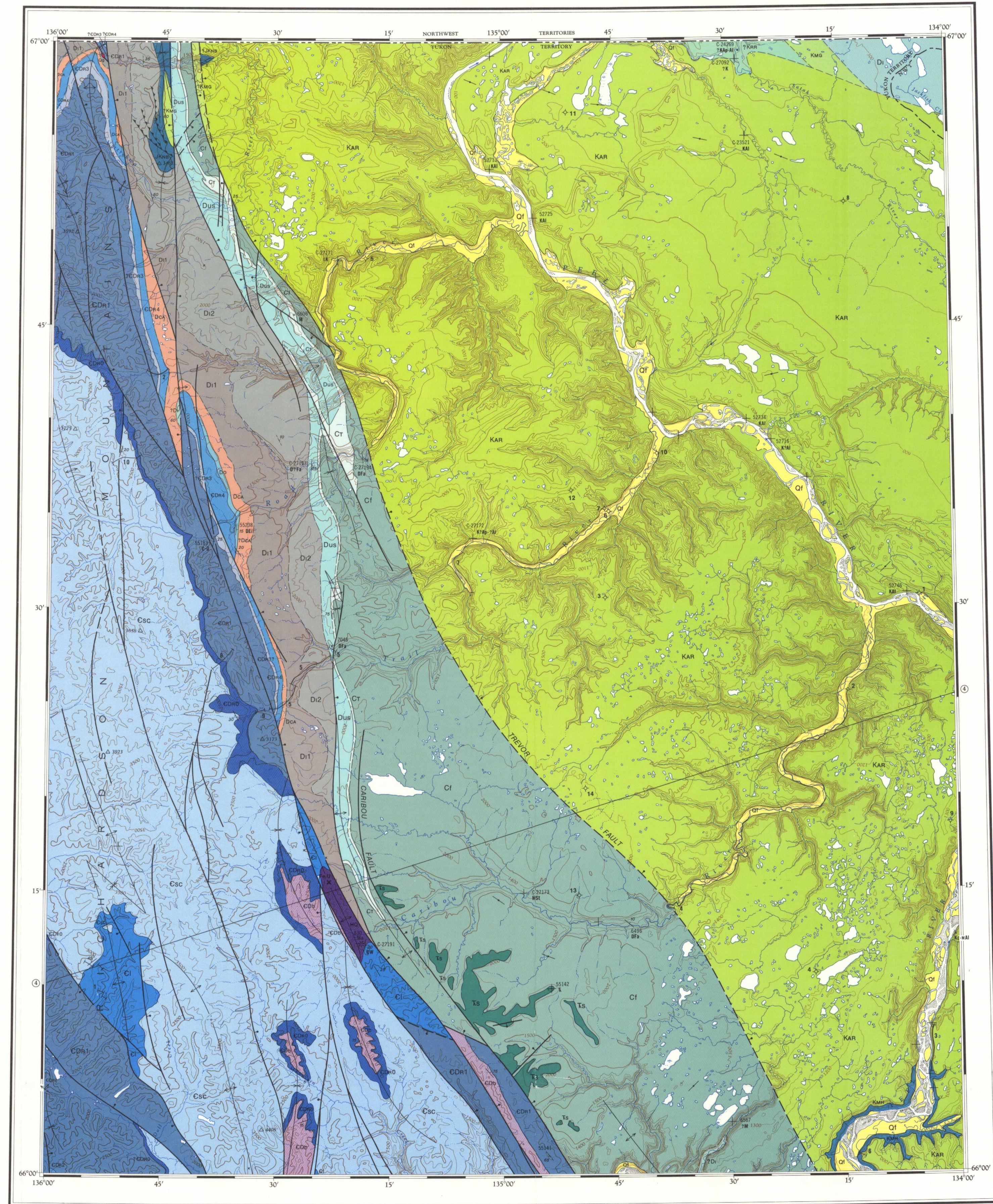
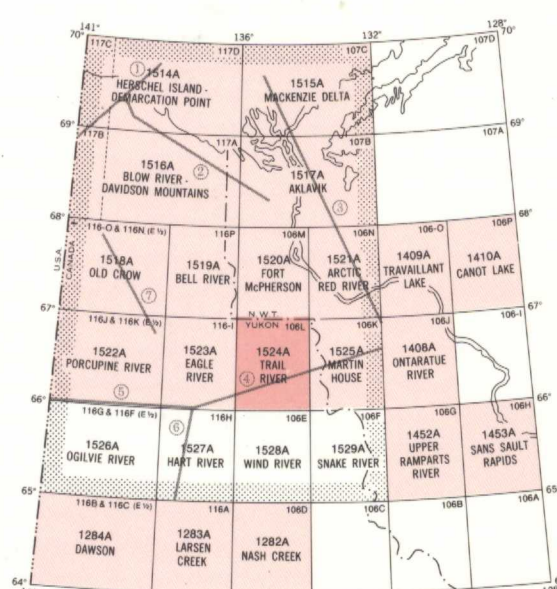
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map at the same scale published by the Surveys and Mapping Branch in 1959

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa

Magnetic declination 1981 varies from 35°48.8' easterly at the centre of west edge to 35°42.5' easterly at centre of east edge. Mean annual change 6.8' westerly

Elevations in feet above mean sea level



MAP 1524A
 GEOLOGY
TRAIL RIVER
 YUKON-NORTHWEST TERRITORIES
 Scale 1:250,000

Kilometres 0 6 12 18
 Miles 0 4 8

Transverse Mercator Projection
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THE STRUCTURE SECTION DIAGRAM AND GEOTECTONIC CORRELATION CHART FOR THE AREA COVERED BY MAPS 1514A TO 1529A ARE AVAILABLE SEPARATELY AS SHEETS 1530A AND 1532A

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MAP 1524A
TRAIL RIVER
 YUKON-NORTHWEST TERRITORIES

1524A