

COMPOSITE LEGEND  
 OPERATION PORCUPINE PROJECT AREA

- Qu Quaternary deposits undivided
- QF Fluvial deposits of modern floodplains and low terraces
- QFE Fluvial deposits of fans and fan aprons
- QGL Glaciofluvial deposits
- QL Lacustrine deposits and minor glaciofluvial deposits
- Qm Hummocky or ridged moraine in area of mountain glaciation
- Qml Hummocky or ridged moraine in area of Laurentide glaciation
- Qd Rock slide debris
- Qe Marine and estuarine deposits
- B Pediment surfaces, mostly with thin cover of colluvium and/or organic deposits
- Cg Gypsum intrusions

	1	2	3	4	5
Quaternary					
Tertiary	<p>Hummock and Barn Uplifts                      Old Crow - Bahage Depression                      Rapid Depression                      Kugapak Homocline                      Beaufort Shelf</p> <p>unamed clastics and peat m                      Reindeer Formation m &amp; nm; shale                      Alak Member nm; clastics and coal                      Moose Channel Formation m &amp; nm, sandstone and mudstone (7 = Ku Monster Formation nm, clastics)                      Tent Island Formation m;                      Cuesta Creek Member m; clastics</p>	<p>Taiga-Nahoni Fold Belt                      Kandik Basin                      Eagle Fold Belt</p> <p>unamed sandstone and shale m                      unamed sandstone and shale m                      unamed shale m                      unamed sandstone m                      Monster Formation nm                      clastics undivided</p>	<p>Richardson Anticlinorium                      Bonnet Plume Basin</p> <p>Bonnet Plume Formation nm; sandstone, shale and coal</p>	<p>Aklavik Arch</p> <p>unamed gravels in eastern Old Crow Plain                      Reindeer Formation m; shale                      Tent Island Formation m</p>	<p>Peel Platform                      Mackenzie Fold Belt</p>
Upper Cretaceous	<p>unconformity</p> <p>Boundary Creek Formation m; shale</p>	<p>Boundary Creek Formation m; shale</p>	<p>disconformity</p>	<p>unamed sandstones on Porcupine River m                      unamed shale m                      Arctic Red formation m shale and siltstone</p>	<p>Boundary Creek Formation m; shale                      Trevor Formation m; sandstone                      Arctic Red Formation m                      Horton River Formation m                      Martin House Formation m; shale and siltstone                      "upper sandstone division" m                      "upper shale-siltstone division" m                      "white and coaly quartzite divisions" m &amp; nm                      "bluish grey shale division" m</p>
Cretaceous	<p>unamed shale, sandstone and phosphatic iron m; (may include Kst); includes Kuss in Rapid Depression.</p> <p>"upper sandstone division" m                      unamed conglomerates division m                      "upper shale-siltstone division" m</p> <p>"white and coaly quartzite divisions" m &amp; nm                      siltstone; sandstone                      "bluish grey shale division" m                      "lower sandstone division" m &amp; nm</p>	<p>unamed shale m; (includes clastics as old as Late Jurassic on Peel River)                      Sharp Mountain Formation m; conglomerate angular unconformity                      "upper sandstone division" m                      "upper shale-siltstone division" m                      "white and coaly quartzite divisions" m &amp; nm                      "lower sandstone division" m &amp; nm (includes Kq and Kbs in central Richardson Mountains)                      Husky Formation m;                      North Branch Formation m; sandstone</p>	<p>disconformity</p> <p>Bonnet Plume Formation nm; conglomerate, sandstone and coal                      angular unconformity?</p> <p>unamed clastics m &amp; nm (Bonnet Plume Basin)</p>	<p>unamed sandstones on Porcupine River m                      unamed shale m                      Arctic Red formation m shale and siltstone                      "upper sandstone division" m                      "upper shale-siltstone division" m                      "white and coaly quartzite divisions" m &amp; nm                      "bluish grey shale division" m                      "lower sandstone division" m &amp; nm (includes Kq and Kbs in Aklavik Range area)                      Husky Formation m; shale                      Porcupine River Formation m; sandstone                      Kingak Formation m; shale</p>	<p>Boundary Creek Formation m; shale                      Trevor Formation m; sandstone                      Arctic Red Formation m                      Horton River Formation m                      Martin House Formation m; shale and siltstone                      "upper sandstone division" m                      "upper shale-siltstone division" m                      "white and coaly quartzite divisions" m &amp; nm                      "bluish grey shale division" m                      "lower sandstone division" m &amp; nm (includes Kq and Kbs in Aklavik Range area)                      Husky Formation m; shale                      Porcupine River Formation m; sandstone                      Kingak Formation m; shale</p>
Lower Cretaceous	<p>"white and coaly quartzite divisions" m &amp; nm                      siltstone; sandstone                      "bluish grey shale division" m                      "lower sandstone division" m &amp; nm</p>	<p>"white and coaly quartzite divisions" m &amp; nm                      siltstone; sandstone                      "bluish grey shale division" m                      "lower sandstone division" m &amp; nm (includes Kq and Kbs in central Richardson Mountains)                      Husky Formation m;                      North Branch Formation m; sandstone</p>	<p>unamed clastics m &amp; nm (Bonnet Plume Basin)</p>	<p>"white and coaly quartzite divisions" m &amp; nm                      "bluish grey shale division" m                      "lower sandstone division" m &amp; nm (includes Kq and Kbs in Aklavik Range area)                      Husky Formation m; shale                      Porcupine River Formation m; sandstone                      Kingak Formation m; shale</p>	<p>"white and coaly quartzite divisions" m &amp; nm                      "bluish grey shale division" m                      "lower sandstone division" m &amp; nm (includes Kq and Kbs in Aklavik Range area)                      Husky Formation m; shale                      Porcupine River Formation m; sandstone                      Kingak Formation m; shale</p>
Jurassic	<p>Kingak Formation m; shale</p>	<p>Kingak Formation m; shale</p>	<p>unamed clastics m &amp; nm (Bonnet Plume Basin)</p>	<p>Kingak Formation m; shale</p>	<p>Kingak Formation m; shale</p>
Triassic	<p>Shublik Formation m; limestone and siltstone</p>	<p>unamed Triassic clastics and carbonates m (includes Ladinian beds in Taiga-Nahoni Fold Belt)</p>	<p>unamed Triassic clastics and carbonates m</p>	<p>unamed Permian clastics m (includes Jurassic clastics)                      unamed Permian limestone m                      unamed Permian clastics m                      unamed Permian and/or Carboniferous carbonates and clastics m</p>	<p>unamed Permian clastics m (includes Jurassic clastics)                      unamed Permian limestone m                      unamed Permian clastics m                      unamed Permian and/or Carboniferous carbonates and clastics m</p>
Permian	<p>Sadlerochit Formation m; undivided clastics</p>	<p>unamed Permian clastics and carbonates m (includes Ladinian beds in Taiga-Nahoni Fold Belt)</p>	<p>unamed Permian clastics and carbonates m</p>	<p>unamed Permian clastics m (includes Jurassic clastics)                      unamed Permian limestone m                      unamed Permian clastics m                      unamed Permian and/or Carboniferous carbonates and clastics m</p>	<p>unamed Permian clastics m (includes Jurassic clastics)                      unamed Permian limestone m                      unamed Permian clastics m                      unamed Permian and/or Carboniferous carbonates and clastics m</p>
Carboniferous	<p>Wahoo Formation m; limestone                      Alapah Formation m; limestone                      Kayak Formation m &amp; m; clastics, limestone and coal                      Kekituk Formation m &amp; m; conglomerate and sandstone</p>	<p>Ettratin Formation m; shale and limestone                      Ettratin Formation undivided                      "unit 2" m; carbonates and clastics                      Hart River Formation m; siltstone                      Hart River Formation m; shale and limestone                      Ford Lake Shale m; siliceous shale and chert ("unit 1")</p>	<p>Ettratin Formation m; shale and limestone                      Ettratin Formation undivided                      "unit 2" m; carbonates and clastics                      Hart River Formation m; siltstone                      Hart River Formation m; shale and limestone                      Ford Lake Shale m; siliceous shale and chert ("unit 1")</p>	<p>Ettratin Formation m; shale and limestone                      Ettratin Formation m; limestone and shale                      Lisburne Group undivided carbonates and clastics                      Hart River Formation?</p>	<p>Ettratin Formation m; shale and limestone                      Ettratin Formation m; limestone and shale                      Lisburne Group undivided carbonates and clastics                      Hart River Formation?</p>
Upper Devonian	<p>unamed shale m                      "turtle" sandstone                      undivided Upper Devonian clastics                      Canol Formation m; black siliceous shale                      unamed Devonian phyllite and quartzite</p>	<p>unamed shale m                      "turtle" sandstone                      undivided Upper Devonian clastics                      Canol Formation m; black siliceous shale                      unamed Devonian phyllite and quartzite</p>	<p>unamed shale m                      "turtle" sandstone                      undivided Upper Devonian clastics                      Canol Formation m; black siliceous shale                      unamed shale m</p>	<p>undivided Upper Devonian clastics                      Canol Formation m; black siliceous shale                      unamed shale m</p>	<p>undivided Upper Devonian clastics                      Canol Formation m; black siliceous shale                      unamed shale m</p>
Devonian	<p>unamed Devonian phyllite and quartzite</p>	<p>unamed Devonian phyllite and quartzite</p>	<p>unamed shale m</p>	<p>unamed shale m</p>	<p>unamed shale m</p>
Middle Devonian	<p>unamed Devonian phyllite and quartzite</p>	<p>unamed Devonian phyllite and quartzite</p>	<p>unamed shale m</p>	<p>unamed shale m</p>	<p>unamed shale m</p>
Lower Devonian	<p>unamed Devonian phyllite and quartzite</p>	<p>unamed Devonian phyllite and quartzite</p>	<p>unamed shale m</p>	<p>unamed shale m</p>	<p>unamed shale m</p>
TSilurian and TDevonian	<p>Road River Formation m = unamed shale and quartzite (m) in Barn Uplift</p>	<p>Road River Formation m = unamed shale and quartzite (m) in Barn Uplift</p>	<p>unamed shale m                      unamed conglomerate m                      unamed clastics and coal m                      disconformity?</p>	<p>unamed shale m                      unamed conglomerate m                      unamed clastics and coal m                      disconformity?</p>	<p>unamed shale m                      unamed conglomerate m                      unamed clastics and coal m                      disconformity?</p>
Ordovician and Silurian	<p>Road River Formation m = unamed shale and quartzite (m) in Barn Uplift</p>	<p>Road River Formation m = unamed shale and quartzite (m) in Barn Uplift</p>	<p>unamed shale m                      unamed conglomerate m                      unamed clastics and coal m                      disconformity?</p>	<p>unamed shale m                      unamed conglomerate m                      unamed clastics and coal m                      disconformity?</p>	<p>unamed shale m                      unamed conglomerate m                      unamed clastics and coal m                      disconformity?</p>
Upper Cambrian and Ordovician	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>
Upper Cambrian	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>	<p>unamed Upper Cambrian clastics m</p>
Middle Cambrian	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>
Middle Cambrian	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>	<p>unamed Middle Cambrian clastics undivided</p>
Lower Cambrian	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>
Hadrynian	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>	<p>unamed Lower Cambrian limestone m                      unamed carbonates and clastics in Knox Range                      unamed clastics and carbonates in Knox Range                      unamed mdstone and dolomite                      Rapitan Group; diamictite undivided</p>
Holikian	<p>unamed orange dolomite                      unamed orange and grey dolomite                      basic dykes and volcanics</p>	<p>unamed orange dolomite                      unamed orange and grey dolomite                      basic dykes and volcanics</p>	<p>unamed orange dolomite                      unamed orange and grey dolomite                      basic dykes and volcanics</p>	<p>unamed orange dolomite                      unamed orange and grey dolomite                      basic dykes and volcanics</p>	<p>unamed orange dolomite                      unamed orange and grey dolomite                      basic dykes and volcanics</p>
Holikian and TAphebian	<p>unamed phyllitic argillites, breccias and quartzites (base not seen)</p>	<p>unamed phyllitic argillites, breccias and quartzites (base not seen)</p>	<p>unamed phyllitic argillites, breccias and quartzites (base not seen)</p>	<p>unamed phyllitic argillites, breccias and quartzites (base not seen)</p>	<p>unamed phyllitic argillites, breccias and quartzites (base not seen)</p>