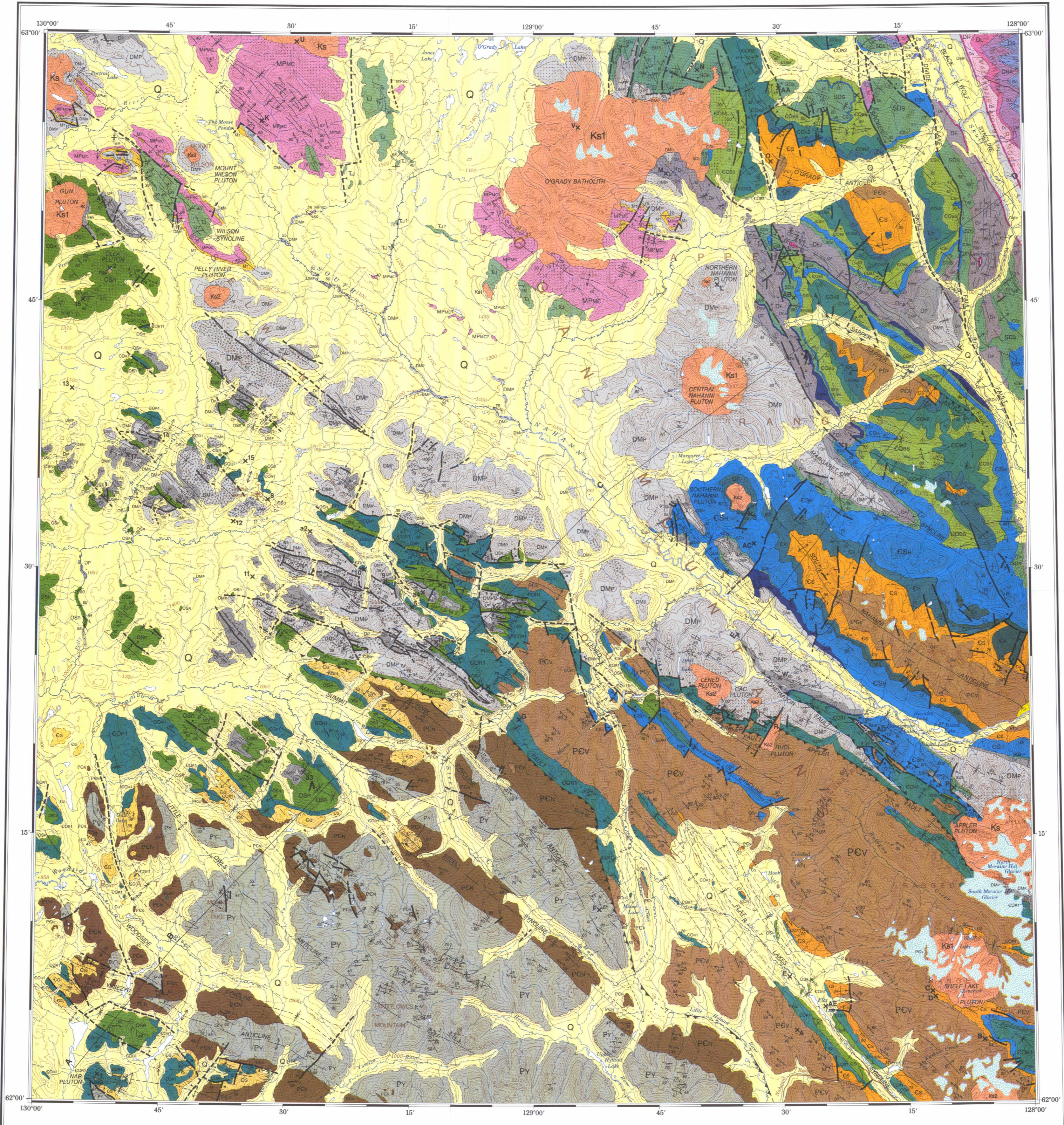
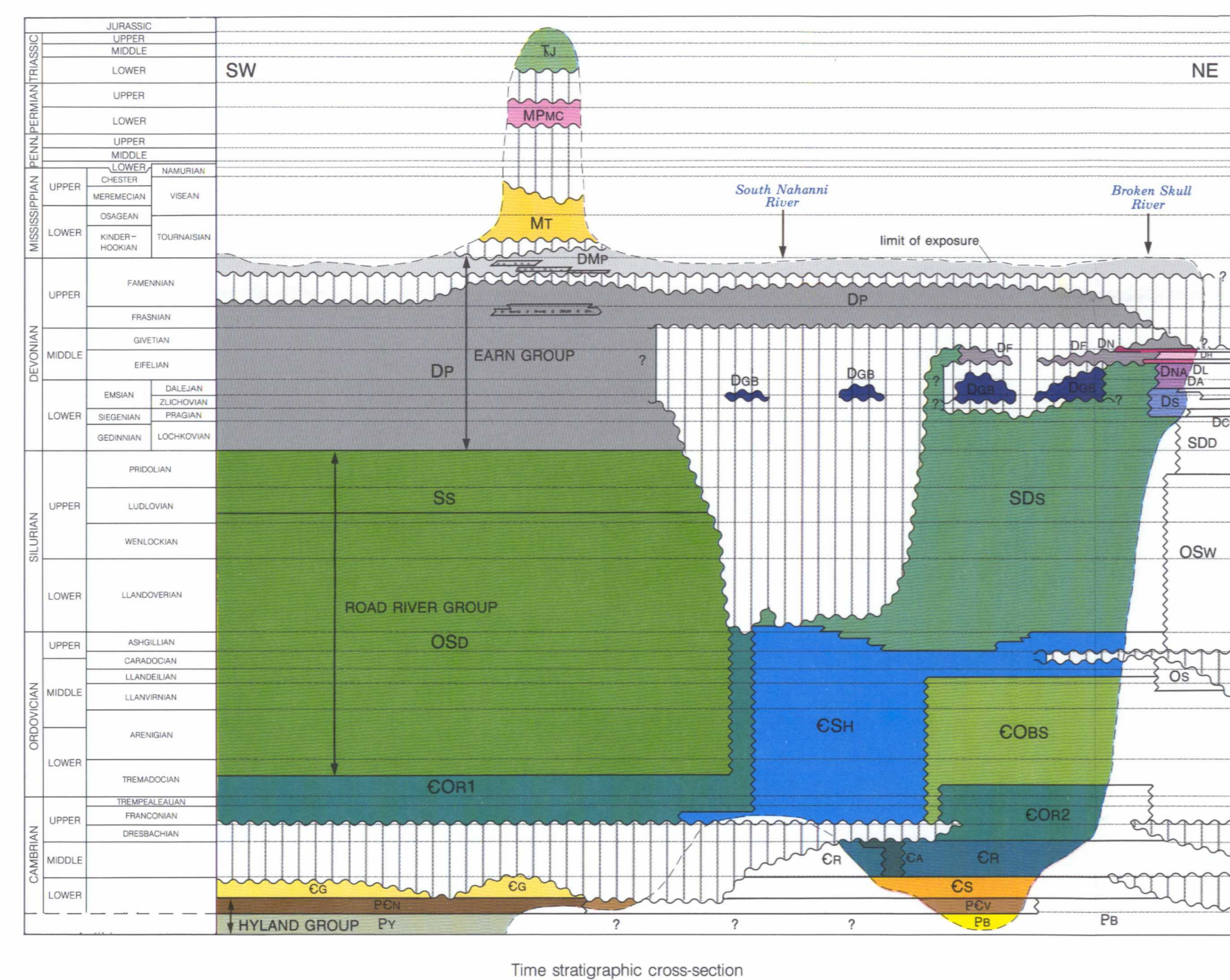
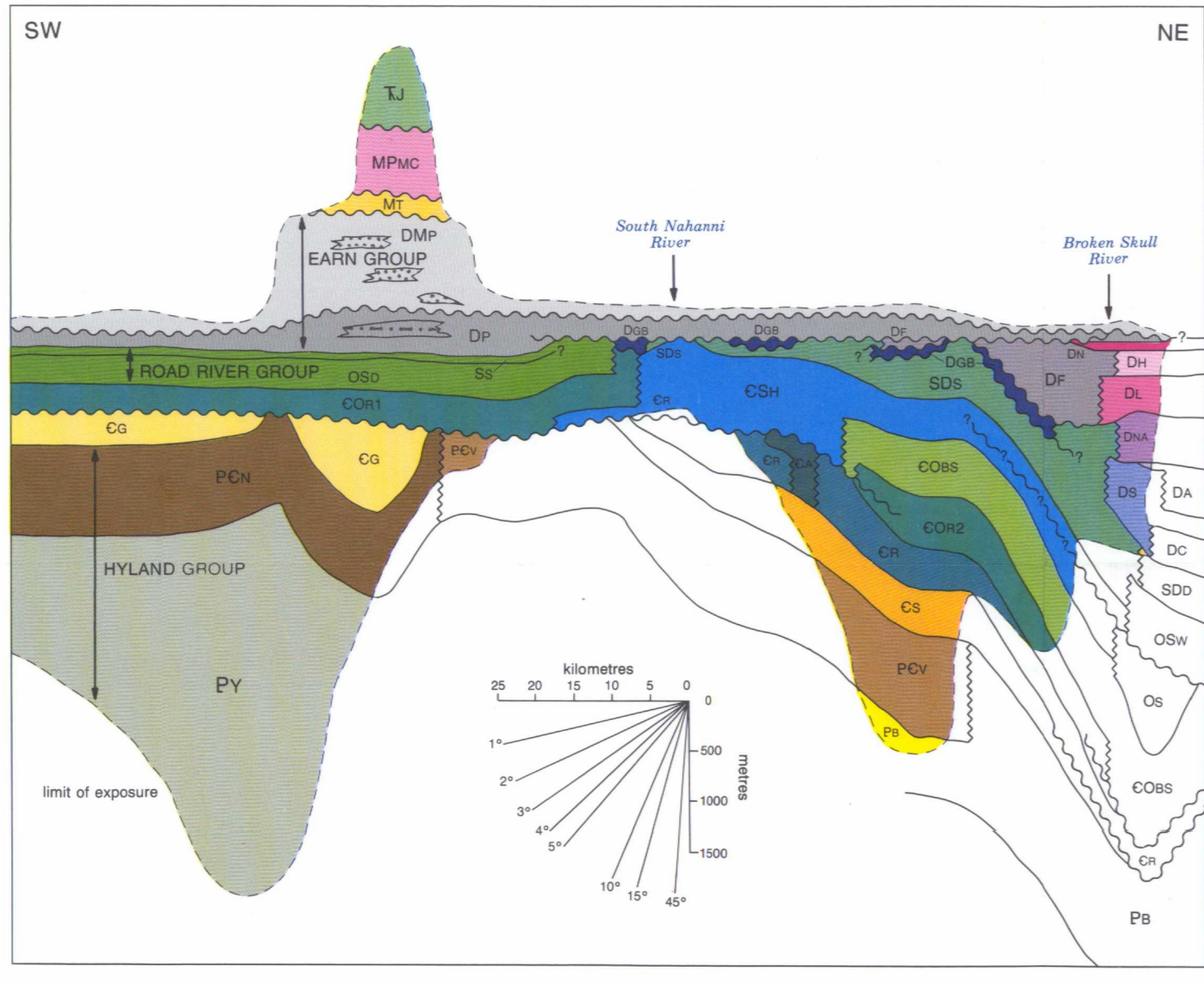
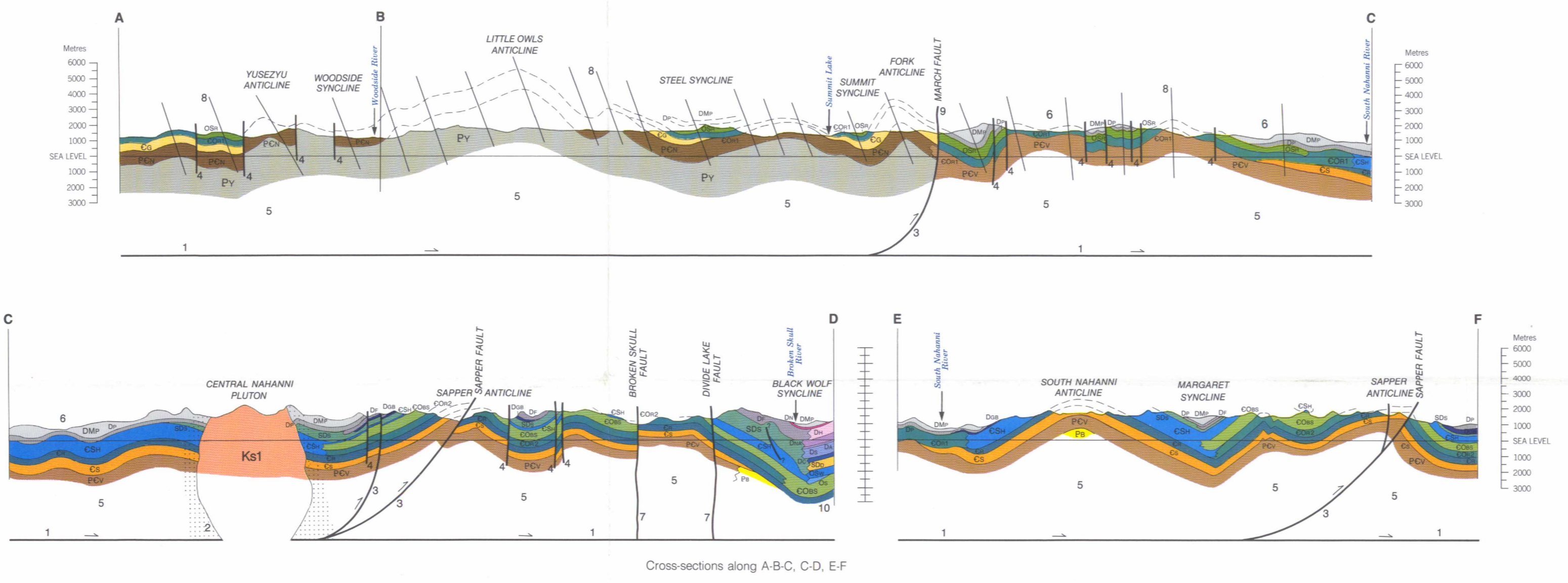


CROSS-SECTION NOTES

- Inferred basal detachment for folds and thrust faults in overlying strata. The depth to the detachment is uncertain. The thickness of sediment beneath detachment and above crystalline basement is unknown.
- Pluton is post-tectonic and therefore is shown schematically to cut the basal detachment.
- Thrust fault shown diagrammatically to root in detachment.
- Steep fault whose kinematic relationship to folds, thrust faults and basal detachment is uncertain.
- Geometry of structures at depth is unknown. Anticlinal holes are likely filled by flow of weak rock into anticlinal cores, flow that was accommodated by complicated faulting and folding. Strata that may exist beneath detachment are presumably undeformed.
- Bedding dips portrayed on parts of cross-section are shallower than that indicated on geological map. Average regional bedding attitudes are contained in cross-section by known stratigraphic thicknesses. Steep attitudes, dominantly in areas where slaty cleavage is indicated, may result from minor folds that cannot be portrayed at scale of cross-section.
- Deistral strike slip fault possibly rooting in detachment.
- Orientation of slaty cleavage.
- Gull Lake Formation is absent in footwall of March Fault. The March Fault may, in part, follow a pre-Fraser Formation block fault that accommodated pre-Lake Cambrian erosion of Gull Lake strata on its northeast side.
- Backbone Ranges (Pb), Roadside (Dh), Broken Skull (Cob), Whittaker (Dsw), Delorme (Dsd), and Sunblood (Og) formations projected into cross-section from Glacier Lake map area to the east (see Gabrielse et al., 1973, GSC Memoir 366).



- OROVICIAN AND SILURIAN (OSd - OSr)**
- OSd Undivided Steel Formation and Duo Lake Formation (time and rock-stratigraphic figures only)
  - OSr STEEL FORMATION: orange weathering and dolomitic bioturbated silty mudstone
- LOWER OROVICIAN TO MIDDLE SILURIAN** (time and rock-stratigraphic figures only)
- OSd DUO LAKE FORMATION: black, gun-blat, or silty white weathering shale; black, thin- to medium-bedded black chert
- CAMBRIAN AND OROVICIAN (Cs - COh1)**
- UPPER CAMBRIAN AND LOWER OROVICIAN**
- COh1 RABBITKITTLE FORMATION: COh1 (southwest of South Nahanni River) white to buff weathering limestone, locally nodular; local volcanic buff
- LOWER AND MIDDLE CAMBRIAN**
- Cg GULL LAKE FORMATION: orange-brown weathering, recessive shale and siltstone with minor sandstone; tan weathering, resistant bedded siltstone and mudstone; local basal member of limestone conglomerate and limestone
- PROTEROZOIC AND CAMBRIAN**
- UPPER PROTEROZOIC AND LOWER CAMBRIAN**
- PCv MARCHILLA FORMATION: maroon, dark blue-grey, and green weathering shale; minor sandstone
- UPPER PROTEROZOIC**
- Py YUSEZUYU FORMATION: grey to brown weathering, coarse quartz sandstone and quartz-pebble conglomerate; brown to pale green shale; local limestone member at top of formation

- SILURIAN TO LOWER DEVONIAN**
- SDs SAPPER FORMATION: blue-grey weathering, black limestone (lower Sapper); tan, buff, or dark grey weathering silty limestone (upper Sapper)
- UPPER CAMBRIAN TO LOWER SILURIAN**
- CSH HAYWIRE FORMATION: white to dark-grey dolomite locally cherty; rare amygdaloidal basalt and buff, basal member of grey-white dolomite, quartz arenite, and maroon mudstone
- UPPER CAMBRIAN AND LOWER OROVICIAN (COh2 - COh8)**
- COh2 RABBITKITTLE FORMATION: COh2, northeast of South Nahanni River) tan to orange-brown weathering, nodular blue-grey limestone
  - COh3 BROKEN SKULL FORMATION: grey to black dolomite (lower Broken Skull); dark grey to black limestone (upper Broken Skull); local basal member of maroon dolomite and sandstone
  - COh4 RABBITKITTLE FORMATION: COh4, northeast of South Nahanni River) tan to orange-brown weathering, nodular blue-grey limestone
  - COh5 BROKEN SKULL FORMATION: grey to black dolomite (lower Broken Skull); dark grey to black limestone (upper Broken Skull); local basal member of maroon dolomite and sandstone
  - COh6 RABBITKITTLE FORMATION: COh6, northeast of South Nahanni River) tan to orange-brown weathering, nodular blue-grey limestone
  - COh7 BROKEN SKULL FORMATION: grey to black dolomite (lower Broken Skull); dark grey to black limestone (upper Broken Skull); local basal member of maroon dolomite and sandstone
  - COh8 RABBITKITTLE FORMATION: COh8, northeast of South Nahanni River) tan to orange-brown weathering, nodular blue-grey limestone
- CAMBRIAN (Cs - Cv)**
- MIDDLE CAMBRIAN**
- Ch RACCOLE FORMATION: tan to brown weathering, recessive grey limestone
- LOWER CAMBRIAN**
- Cs SEKWU FORMATION: limestone, locally very bedded and nodular; massive grey dolomite, medium- to thick-bedded quartz sandstone, purple siltstone and dolomitic siltstone; bright orange weathering, fine crystalline dolomite
- PROTEROZOIC AND CAMBRIAN (Pb - Pcv)**
- UPPER PROTEROZOIC AND LOWER CAMBRIAN**
- PCv UMPIRE FORMATION: greenish-grey siltstone, very fine grained quartz sandstone and shale
- UPPER PROTEROZOIC**
- Pb BACKBONE RANGES FORMATION: buff weathering dolomite

- Geological boundary (defined, approximate, assumed or extrapolated beneath overburden) .....
- Faces boundary (schematic and approximate) .....
- Bedding, top known (horizontal, inclined, vertical, overturned) .....
- Bedding, top unknown (inclined) .....
- Slaty cleavage (inclined, vertical) .....
- Lineation, intersection of slaty cleavage and bedding (inclined) .....
- Lineation, axis of minor fold (inclined) .....
- Fault, steeply dipping (defined, approximate, assumed or extrapolated beneath overburden, solid circle indicates downthrow side) .....
- Thrust fault (defined, approximate, assumed or extrapolated beneath overburden, both indicate upthrust side) .....
- Fault, strike slip (defined, approximate, assumed or extrapolated beneath overburden, arrows indicate relative movement) .....
- Anticline (defined, approximate, extrapolated beneath overburden) .....
- Syncline (defined, approximate, extrapolated beneath overburden) .....
- Anticline, syncline (overturned) .....
- Monocline (defined, approximate, extrapolated beneath overburden) .....
- Focal locality (defined, approximate, extrapolated beneath overburden) .....
- Location of measured section .....
- Mineral occurrence .....
- Hornfels .....

- PLEISTOCENE AND RECENT**
- Q UNCONSOLIDATED GLACIAL AND ALLUVIAL DEPOSITS
- CRETACEOUS**
- Ks SEKWU PLUTONIC SUITE: undivided: Ks1, hornblende-biotite granite and granodiorite; Ks2, biotite granite and granodiorite; plateau of country rock adjacent to pluton shows extent of hornfels
- TRIASSIC**
- TJ JONES LAKE FORMATION: shale, ripple cross-laminated siltstone and sandstone
- MISSISSIPPIAN TO PERMIAN**
- MPAC MOUNT CHRISTIE FORMATION: pale green shale, siltstone, and chert; minor quartz sandstone
- MISSISSIPPIAN**
- MT TSOCHU FORMATION: resistant, thick-bedded quartz arenite; minor brown to black shale
- DEVONIAN AND MISSISSIPPIAN (Dp - Dmp)**
- SAPPER GROUP**
- DMP PREVOST FORMATION: chert-quartz sandstone, chert-pebble conglomerate, and minor shale (patterned); brown weathering shale and minor chert-quartz sandstone (unpatterned)
- LOWER TO UPPER DEVONIAN**
- DP PORTRAIT LAKE FORMATION: chert-quartz wacke, and massive pebbly mudstone (patterned); black siliceous shale and chert (unpatterned)

- DEVONIAN (Dc - Dh)**
- MIDDLE DEVONIAN**
- Dh NAHANNI FORMATION: light grey weathering, resistant limestone
  - DH HEADLESS FORMATION: orange-brown weathering limestone
  - Dl LANDRY FORMATION: light grey to brown-grey weathering, resistant limestone
- LOWER DEVONIAN**
- DNA HATLA FORMATION: dark grey weathering, recessive limestone, in part crystalline
  - DA ARNICA FORMATION: dark grey weathering, cherty dolomite
  - DS SOMBRE FORMATION: light grey dolomite (lower Sombre); dark grey dolomite, in part crystalline (middle Sombre); alternating light and dark grey dolomite (upper Sombre)
  - Dc CAMELL FORMATION: grey, black, and white weathering dolomite
- UPPER SILURIAN AND LOWER DEVONIAN (cross-section only)**
- SdD DELORME FORMATION: orange-buff weathering dolomite
- UPPER OROVICIAN AND SILURIAN (cross-section only)**
- OSw WHITTAKER FORMATION: dark grey weathering dolomite and minor limestone
- MIDDLE OROVICIAN (cross-section only)**
- OS SUNBLOOD FORMATION: dark and light grey dolomite, pink, mottled limestone, orange-brown sandstone

Property	Mineralization	Host
<b>Northwest Territories</b>		
A HAT	vein Cu, Pb, Zn	Rabbitkittle Fm.
B unnamed	vein Pb, Zn, Au, Ag	Vampire Fm.
C HAY	skarn W, Zn, Pb, Cu	Vampire Fm.
D unnamed	skarn W, Zn, Pb, Cu	Sekwi Fm.
E HUGO	geochrom (Zn) anomaly	Duo Lake Fm.
F unnamed	pegmatite Li	Yusezuy Fm.
G FERN	skarn Pb, Zn	Rabbitkittle Fm.
H CAC	stratiform Zn, Pb, Cu	Duo Lake or Portrait Lake Fm.
I MANCY	skarn W	Rabbitkittle Fm.
J CAN	vein Pb, Zn	Haywire Fm.
K CAM	vein Pb, Zn	Mount Christie Fm.
L PIT	replacement Cu	Prevost Fm.
M CAN	skarn Pb, Zn	Prevost Fm.
N RA	vein Sb, Cu, Pb	Sapper Fm.
O SAND GUN	replacement Zn	Broken Skull Fm.
P VULCAN	stratiform Pb, Zn	Sapper Fm.
Q LENEZ	skarn W	Rabbitkittle Fm.
R RUDJ	skarn W	Rabbitkittle Fm.
S SILVE	skarn W	Rabbitkittle Fm.
T BIG RED	vein Pb, Zn	Haywire Fm.
U unnamed	vein Pb, Zn	Haywire Fm.
V unnamed	vein Pb, Zn	Haywire Fm.
W GHMS	stratiform Ba	Portrait Lake Fm.
X GRAND	stratiform Pb, Zn	Duo Lake Fm.?
Y CMC	stratiform Ba, Pb, Zn	Portrait Lake Fm.
Z JOLI GREEN	vein Zn	Haywire?, Sapper?, or Broken Skull Fm.
<b>Yukon Territory</b>		
1 NAR	skarn W, Cu, Pb, Zn, Ag	Rabbitkittle Fm.
2 CLEA	skarn W, Cu, Zn	Duo Lake Fm.
3 BPR	skarn Cu, Fe	Mount Christie Fm.
4 NOM	vein Au	Portrait Lake Fm.
5 HOWARDS PASS	stratiform Pb, Zn	Duo Lake Fm.
6 SHIELD	stratiform Pb, Zn	Duo Lake Fm.
7 ORO	stratiform Ba	Portrait Lake Fm.
8 ANNV	stratiform Pb, Zn	Duo Lake Fm.
9 WINKIE	vein Cu	Portrait Lake Fm.
10 NNESS	vein Cu	Prevost Fm.
11 DIANNE	stratiform Ba, Zn	Portrait Lake Fm.
12 RTZ	geochrom (Pb-Zn) anomaly	Prevost Fm.
13 ABSEY	stratiform Pb, Zn	Duo Lake Fm.
14 NANG	stratiform Ba	Portrait Lake Fm.
15 CHNO	geophysical anomaly	Duo Lake Fm.
16 ROCK	geochrom (Zn-Ba) anomaly	Duo Lake Fm.
17 FAST	unclassified work target	Earm Group
18 C2	stratiform Pb, Zn	Duo Lake Fm.
19 TROIS	stratiform Ba, Zn-rich breccia	Portrait Lake Fm.
20 unnamed	stratiform Ba	Portrait Lake Fm.
21 unnamed	stratiform Ba	Portrait Lake Fm.
22 unnamed	stratiform Ba	Portrait Lake Fm.

MINERALS	
Antimony	Sb
Barium	Ba
Copper	Cu
Gold	Au
Iron	Fe
Lead	Pb
Lithium	Li
Phosphorus	P
Silver	Ag
Tungsten	W
Uranium	U
Vanadium	V
Zinc	Zn