



**GEOLOGICAL SURVEY OF CANADA  
COMMISSION GEOLOGIQUE DU CANADA**

**Open File 2682**

**PALEONTOLOGICAL IDENTIFICATIONS  
AND CORRELATIONS NIDDERY LAKE MAP-AREA  
N.T.S. 105 O AND IMMEDIATELY ADJACENT  
MAP-AREAS**

B.S. Norford<sup>1</sup>, M.J. Orchard<sup>2</sup>, A.W. Norris<sup>1</sup>,  
T.T. Uyeno<sup>1</sup>, M.P. Cecile<sup>1</sup>, J.G. Abbott<sup>3</sup>,  
D.E. Jackson<sup>4</sup>, W.H. Fritz<sup>5</sup>, H.J. Hofmann<sup>7</sup>,  
G.S. Nowlan<sup>1</sup>, and R.S. Tipnis<sup>6</sup>  
(see page 3 for addresses)

**(IT IS RECOMMENDED THAT THE READER ALSO ACQUIRE GSC OPEN FILE 2465)**

**AUGUST 1993**

## PREFACE

Twelve scientists from the Geological Survey of Canada and three from universities and a petroleum company have aided the mapping and stratigraphic analysis of the Niddery Lake Map-area by contributing their expertise on various groups of fossils collected from the area. Much of the structurally complex terrane is composed of rocks of uniform and monotonous lithologies so that the ages and correlations provided by these scientists have been vital to structural analysis, to mapping, and to the establishment of the lithostratigraphic succession.

## DATA ORGANIZATION

Data are subdivided into quadrants (southeast, southwest, northwest and northeast) then into 1: 50 000 scale N.T.S. map-areas and then divided into sections, measured traverses or for isolated sites, stratigraphic units. Measured traverses have various units in order of occurrence along the traverse. Stratigraphic position within units along the traverse can be calculated but because all units are very thin it has not been done for this report.

## DATA COLLECTORS

The bulk of the samples were collected during separate mapping projects of M.P. Cecile<sup>1</sup> and J.G. Abbott<sup>3</sup>. Smaller local collections of S.P. Gordey<sup>2</sup>, K.M. Dawson<sup>2</sup>, I.R. Jonasson<sup>6</sup>, J. Lydon<sup>6</sup> and K.R. McClay<sup>9</sup> are included.

## UNPRODUCTIVE CONODONT SAMPLES

In the northeast, northwest and southwest sectors of the map-area unproductive conodont samples are reported in the body of the descriptive section. However sampling for conodonts was extensive in the economically important southeast, and adjacent map-areas. Here the total number of unproductive samples is about 370. These samples are simply listed by curation and field number at the end of the text. More information may be obtained from the collectors.

#### KEYS TO ABBREVIATIONS

**GSC Loc. C-128329** - Geological Survey of Canada location number.

**(BSN)** - Initials of paleontologist who identified fossils and assigned an age.

63° 01' N, 130° 08' W - Latitute and Longitude

NTS 105 O - 01 - National Topographic System 1: 50 000 scale map-number.

BSN - B.S. Norford<sup>1</sup>

RST - R.S. Tipnis<sup>5</sup>

DEJ - D.E. Jackson<sup>4</sup>

TTU - T.T. Uyeno<sup>1</sup>

MJO - M.J. Orchard<sup>2</sup>

AWN - A.W. Norris<sup>1</sup>

WHF - W.H. Fritz<sup>6</sup>

HJH - H.J. Hofmann<sup>7</sup>

GSN - G.S. Nowlan<sup>1</sup>

A limited number of collections were identified by C.M. Henderson<sup>8</sup>, W.W. Nassichuk<sup>1</sup>, and E.W. Bamber<sup>1</sup>. Here the authors have been identified in full.

**Data beneath 'Age:'** Refer to fossil report numbers, field numbers, and/or notes, and the collector's identity.

#### STRATIGRAPHIC UNITS

Stratigraphic units described here are from **Cecile, M.P. and Abbott, J.C. (1992) G.S.C. Open File Report #2465**. This report should be used in conjunction with Open File 2465.

Stratigraphic nomenclature has been established for the upper Paleozoic and will be adopted across the map-area in future formal reports (see **Abbott and Turner, 1990, Fig. 5**). In this report: **Dsh1 Unit = Lower Portrait Lake Fm., Earn Group; DMsh2 = Upper Portrait Lake Fm., Earn Group; Mqs = Tsichu Fm.**, (which in Abbott and Turner was Upper Earn Group, but is no longer considered by J.G. Abbott to be part of the Earn Group). In addition J.G. Abbott now refers to the **SDL Unit** of S.E. Niddery as the **Sapper Fm. after Gordey (in press)**, other units of Gordey's will be applied in later publications.

**ADDRESSES**

<sup>1</sup> Geological Survey of Canada, 3303-33rd St. N.W., Calgary, Alberta, T2L 2A7

<sup>2</sup> Geological Survey of Canada, 100 West Pender St., Vancouver B.C., V6B 1R8

<sup>3</sup> M.D.A. - Geoscience Office, Box 2703, Whitehorse Yukon Y1A 2C6.

<sup>4</sup> 'Glenogle', 15 Thornlea, Hepscott, Morpeth, Northumberland, NE61 6NY, England; recently with Amococ (U.K.) Exploration Company.

<sup>5</sup> 1800 Austin Parkway, #1210, Sugarland, Texas 77479 U.S.A.

<sup>6</sup> Geological Survey of Canada, 601 Booth St., Ottawa Ontario K1A 0E8

<sup>7</sup> Dept. of Geology, Univ. of Montréal, C.P. 6128, Montréal, P.Q. H3C 3J7

<sup>8</sup> Dept. of Geology and Geophysics, Univ. of Calgary, Calgary, Alberta T2N 1N4

<sup>9</sup> Dept. of Geology, Royal Holloway & Bedford New College, Univ. of London, Egham, Surrey, UK

NOTES ON LOWER ORDOVICIAN TO LOWER DEVONIAN GRAPTOLITE FAUNAS

(by B. S. Norford<sup>1</sup>)

Reconnaissance sampling of the basinal rocks of the Niddery Lake Map-area indicates the presence of many of the Ordovician to Lower Devonian graptolite zones that are recognized in northwestern Canada (Figure 1). The depositional environments are interpreted to be deepest in the southwestern part of the Niddery Lake Map-area and far outboard of the edge of the carbonate platform, and were deposited on a site above transitional to, or true, ocean crust.

In the west of the area a Cambrian argillite Unit is overlain by two very thin Ordovician chert units [1mOc (Tremadoc to early Arenig) and muOc (Llanvirn to Ashgill)], which are laterally equivalent to parts of the Duo Lake Formation found in the east of the map-area. These two thin cherts are overlain by an equally thin argillite unit the Sa Unit.

In the southeast of the Niddery Lake Map-area, however, the Sa Unit directly overlies the Duo Lake Formation. This Sa unit extends upward into the Lower Devonian. Over most of the southeast graptolitic limestones (SD1 Unit - Abbott's Sapper Fm.) are found above the Sa Unit and in the southwest a thin limestone associated with Devonian shales yielded Devonian graptolites (LD1 Unit).

The northeastern part of the map-area is less distant from the edge of the platform and Lower Ordovician deep water carbonates of the upper part of the Rabbitkettle Formation are followed by basinal shales and carbonates of the Duo Lake Formation (Lower Ordovician to Upper Silurian) that are truncated by an unconformity below the Lower Devonian Natla Formation. In the northeast the Natla Formation changes facies from northeast to southwest from platform to slope to basin facies.

Coeval graptolite faunas are very similar throughout the map-area regardless of the facies changes.

In the Tremadoc, *Staurograptus tenuis* documents its zone within the 1mOc Unit of Measured Traverse 18 with the *Anisograptus richardsoni* Zone

and the *Clonograptus aureus* Zone present at higher horizons. The *Adelograptus antiquus* Zone is reported from other localities within the lmOc Unit and the Duo Lake Formation.

In the Arenig, an extensive faunule from Measured Traverse 18 documents the *Tetragraptus fruticosus* Zone within the lmOc Unit, which is about 80-130 m in total stratigraphic thickness). In the northeastern part of the area, the Duo Lake Formation is 128 m thick at Section 11. An horizon 17 m above the base is within the upper part of the *T. fruticosus* Zone and includes both 3 and 4 stiped forms of *T. fruticosus* together with *T. approximatus*, *T. cf. T. quadribrachiatus*, *Phyllograptus anna* and the arthropod *Caryocaris* which often is abundant in rocks of Tremadoc and Arenig age. However, only 66 m higher, a collection represents the *Climacograptus bicornis* Zone (lower Caradoc), indicating a very condensed stratigraphic section compared to other parts of western North America. Such condensation is further documented by the presence of middle Llandovery graptolites just 29-31 m higher (with upper Llandovery conodonts from an adjacent horizon) and by lower upper Llandovery graptolites (including *Monograptus cf. M. exiguum*) only another 15 m higher. This last collection is just 1 m below the overlying basinal facies of the Lower Devonian Natla Formation, demonstrating a significant unconformity between the two formations at this location. At two other localities the *Didymograptus bifidus* Zone is documented within the Duo Lake Formation and includes extensiform species of *Didymograptus*, *D. cf. D. bifidus*, *D. cf. D. gracilis*, *Goniograptus* sp., *Phyllograptus cf. P. anna*, *Sigmagraptus* sp., species of *Tetragraptus* including *T. cf. T. serra*, and *Caryocaris* sp.

Llanvirn and Llandeilo faunules are rare but the *Paraglossograptus tentaculatus* Zone is indicated in the muOc Unit by the association of the genera *Cryptograptus?*, *Glyptograptus*, *Isograptus*, and *Pterograptus*.

Caradoc faunules are present in the Duo Lake Formation in the east and in the muOc Unit in the west, including *Climacograptus ex gr. C.*

*bicornis*, *Dicellograptus* aff. *D. contortus*, *Dicranograptus* cf. *D. nicholsoni*, *D.* cf. *D. morrisi*, *Leptograptus* cf. *L. flaccidus*, *Orthograptus calcaratus*, *O.* cf. *O. calcaratus acutus*, *O. quadrimucronatus*, *O.* cf. *O truncatus strigosus*, *Pleurograptus?* sp., and *Reteograptus* cf. *R. pulcherrimus*.

The Ashgill zone of *Dicellograptus ornatus* includes *ornatus* itself, other undetermined species of *Dicellograptus*, *Arachniograptus?* sp., *Climacograptus hastatus americanus*, *C.* cf. *C. hvalross*, *C. innotatus pacificus*, *Orthograptus calcaratus*, *O. calcaratus grandis*, *O. truncatus abbreviatus*, *Leptograptus* sp., *Orthoretiolites?* sp., and *Reteograptus pulcherrimus* (muOC Unit). Higher Ordovician graptolite zones are not documented.

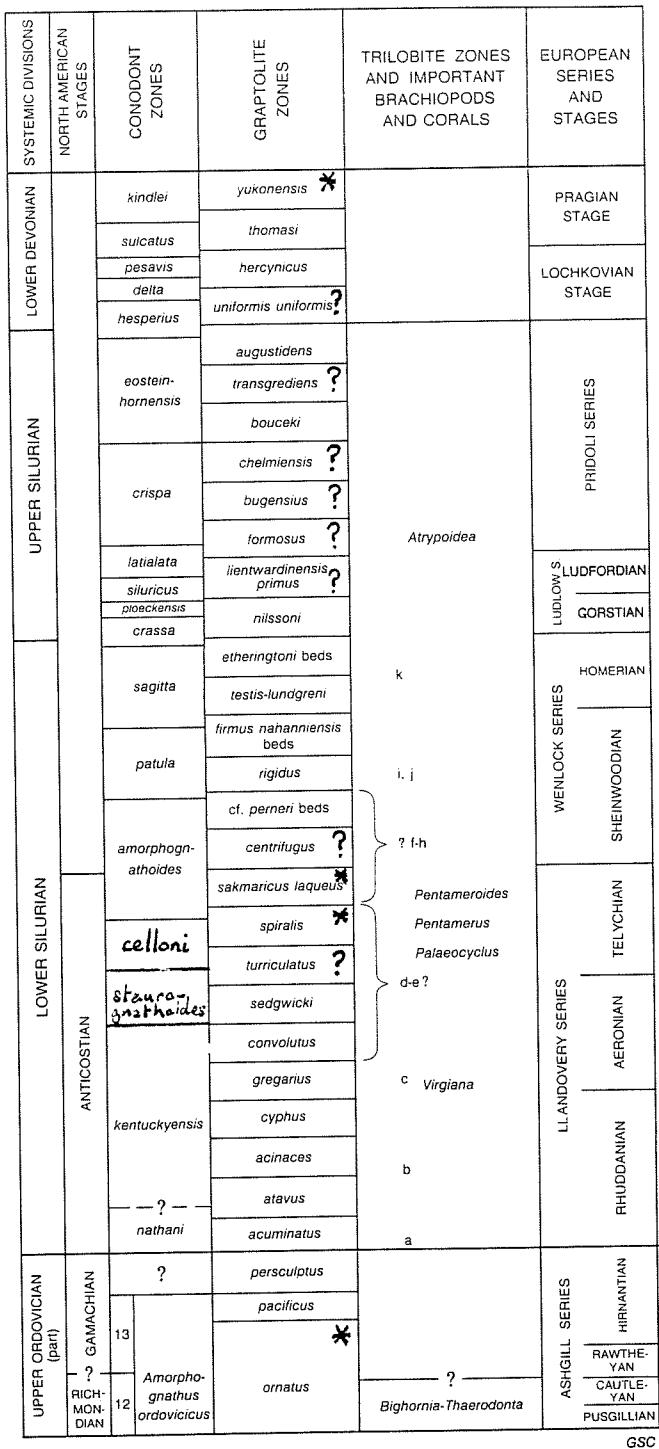
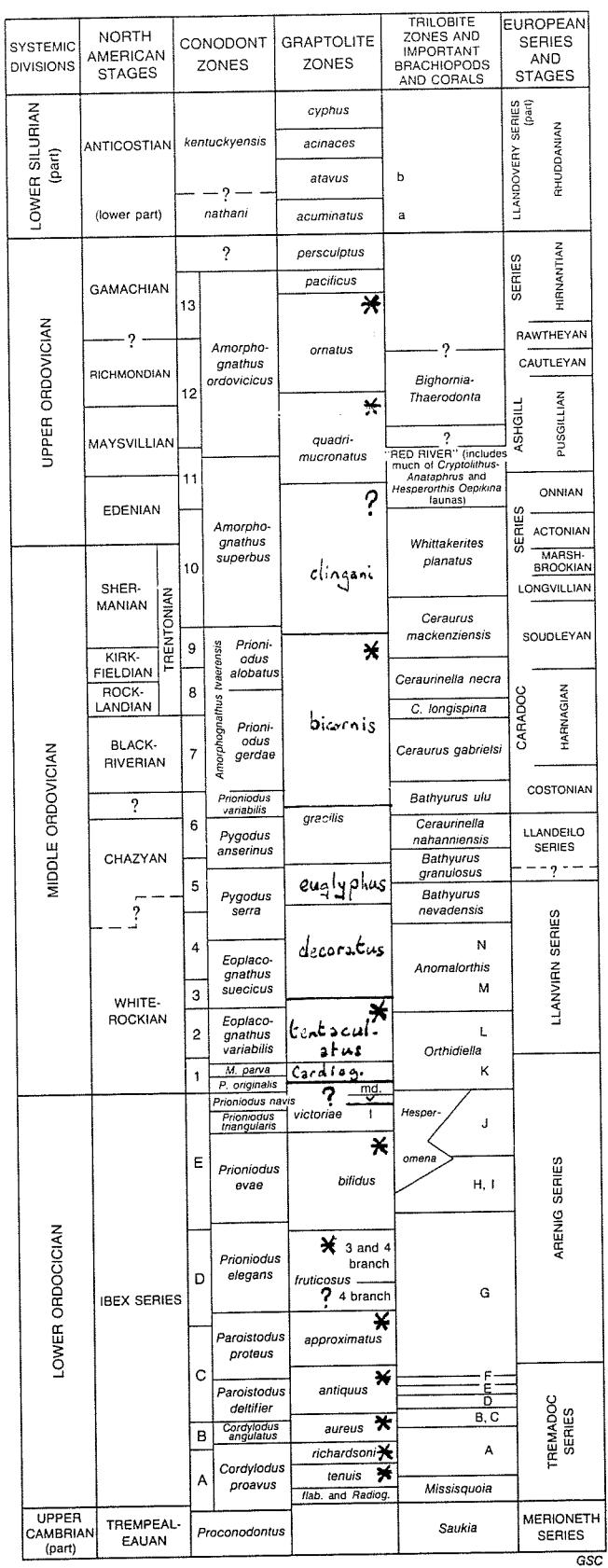
Middle Llandovery (Aeronian) faunules within the Duo Lake Formation in the east include *Climacograptus?* sp., *Glyptograptus?* sp., *Monograptus* cf. *M. denticulatus*, *Rastrites* cf. *R. approximatus geinitzi*. Most of the Upper Llandovery (Telychian) faunules within the Sa Unit in the southern and western parts of the area document the *Monograptus spiralis* Zone (Sa Unit) with *M. spiralis*, other undetermined species of *Monograptus*, *Cyrtograptus canadensis* and *Retiolites geinitzianus angustidens*. Other faunules indicate that the *Monograptus turriculatus* Zone and the *Cyrtograptus sakmaricus - C. laqueus* zones also are present. However there is only a single collection that indicates a Wenlock zone.

Within the Sa Unit: Ludlow faunules include *Linograptus* sp. and *Bohemograptus boemicus* and *B. boemicus tenuis*; Pridoli faunas include *Cucullograptus? crinitus*, *Linograptus posthumus tenuis*, *Monograptus* aff. *M. angustidens*, *M.* cf. *M. chelmiensis*, *M. aff. M. formosus*, *M.* cf. *M. transgrediens praecipus*, and *Pristiograptus* cf. *P. bugensis*.

Lower Devonian (Lochkovian) faunules of *Abiesgraptus*, *Monograptus* cf. *M. uniformis*, and *M. transgrediens praecipuus* are present in the uppermost Sa Unit. The Pragian *Monograptus yukonensis* Zone is prominent, both in the Sa Unit and in the Natla Formation, with *M. yukonensis*

commonly associated with the tentatulitids *Nowakia acuaria* and *Styliolina* sp.

CAMBRIAN TO MIDDLE DEVONIAN ASSEMBLAGES



**Figure 1.** Ordovician and Silurian biostratigraphic zones. The Ordovician zonal terminology is that of Barnes, Norford and Skevington (1981) with modifications from Lenz and McCracken (1982). That for the Lower Silurian follows Lenz (1980, 1982) but uses the name *cypus* Zone for his *gregari.us* Zone, the name *gregari.us* Zone for his interval *triangulus* Zone to *argenteus* Zone. That for the Upper Silurian and Lower Devonian follows Jackson, Lenz and Pedder (1987) modified by the placement of the *formosus* Zone in the basal Pridoli. For the macrofossil zones a-k are the informal divisions of Chatterton and Perry (1984). A-N is the Nevada terminology after Ross (1949, 1951) and Hintze (1953). A-E, 1-13 are the customary North American assemblages for the conodont zones.

## Graptolite Zones documented in the Niddery Lake Map-area

#### REFERENCES CITED

- Abbott, J.G. and Turner, R.J.** 1990: Character and paleotectonic setting of Devonian stratiform sediment-hosted Zn, Pb, Ba deposits, Macmillan Fold Belt, Yukon in Mineral deposits of the northern Canadian Cordillera, Yukon - northeastern British Columbia, J.G. Abbott and R.J.W. Turner (eds), Geological Survey of Canada Open File 2169, p. 99-136.
- Cecile, 1982:** The Lower Paleozoic Misty Creek Embayment, Selwyn Basin, Yukon and Northwest Territories; Geological Survey of Canada Bulletin 335
- Cecile, M.P. and Abbott, J.C.** 1992: Geology of the Niddery Lake map-area (N.T.S. 105-O) at 1: 250 000. Geol. Surv. of Canada Open File Report #2465.
- Dawson, K.M.** 1977: Regional metallogeny of the northern Cordillera; in Report of Activities, Part A, Geological Survey of Canada Paper 77-1A, p. 1-4.
- Dawson, K.M. and Orchard, M.J.** 1982: Regional metallogeny of the northern Cordillera: Biostratigraphy, correlation and metallogenic significance of bedded barite occurrences in eastern Yukon and western District of Mackenzie; in Current Research, Part C, Geological Survey of Canada, Paper 82-1C, p. 31-38.
- Gordey, S.P. in press:** Evolution of the northern Cordilleran miogeocline, Nahanni map area (105 I), Yukon Territory and District of Mackenzie; Geological Survey of Canada, Memoir #, p.
- Gordey, S.P., Abbott, J.G. and Orchard, M.J.** 1982: Devono-Mississippian (Earn Group) and younger strata in east-central Yukon; in Current Research, Part B, Geological Survey of Canada Paper 82-1B, p. 93-100.
- Hofmann, H.J. and Cecile, M.P.** 1981: Occurrence of Oldhamia and other trace fossils in Lower Cambrian (?) argillites, Niddery Lake (105O) map-area, Selwyn Mountains, Yukon Territory; in Current Research

- Part A, Geological Survey of Canada Paper 81-1A, p. 281 - 290.
- Irwin, S.E.B. and Orchard, M.J., 1991:** Upper Devonian-Lower Carboniferous conodont biostratigraphy of the Earn Group and overlying units, northern Canadian Cordillera; in Ordovician to Triassic Conodont Paleontology of the Canadian Cordillera, M.J. Orchard and A.D. McCracken (eds.), GSC Bulletin 417, p. 185-213.
- Irwin, S.E.B., 1990:** Late Devonian conodont biostratigraphy of the Earn Group with age constraints for stratiform mineral deposits, Selwyn and Kechika basins, northern British Columbia and Yukon; Unpublished M.Sc. Thesis, University of British Columbia.
- Klapper, G. and Johnson, J.G. 1980:** Endemism and dispersal of Devonian conodonts; Journal of Paleontology, v. 54, p. 400-455.
- Lane, H.R. and Ormiston, A.R. 1979:** Siluro-Devonian biostrigraphy of the Salmontrout River Area, east-central Alaska. Geologica et Paleontologica, v 13 p. 36-96.
- Pohler, S.M.L. & Orchard, M.J. 1991:** Ordovician Conodont biostratigraphy, western Canadian Cordillera; GSC, Paper 90-15, 37 p.
- Tipnis, R.S. and Chatterton, B.D.E. 1979:** An occurrence of the apparatus of "Prooneotodus" (Conodontophorida) from the Road River Formation, Northwest Territories; in Current Research, Part B, Geological Survey of Canada, Paper 79-1B, p. 259-262.
- Uyeno, T.T. and Klapper, G. 1980:** Summary of conodont biostratigraphy of the Blue Fiord and Bird Fiord formations (Lower-Middle Devonian) at the type and adjacent areas, southwestern Ellesmere Island, Canadian Arctic Archipelago; in Current Research, Part C, Geological Survey of Canada, Paper 80-1C, p. 81-93.

DESCRIPTIONS OF COLLECTIONS

COLLECTIONS FROM THE SOUTHEAST PART OF NIDDERY LAKE 105 - O & ADJACENT 105 - P.

N.T.S. Map-area 105 O - 1

GSC Loc. C-108104 (BSN) - Duo Lake Formation.  
63° 08' N, 130° 18' W - N.T.S. 105 O - 01

*Orthograptus cf. O. calcaratus* (Lapworth)  
*Reteograptus* sp.

Age: late Middle Ordovician, Caradoc.

Collected by: J.G. Abbott<sup>3</sup>.

TOA 83 9-2

GSC Loc. C-108197 (BSN) - Duo Lake Formation.  
63° 11' N, 130° 14.67' W - N.T.S. 105 O - 01

*Climacograptus cf. C. bicornis* (Hall)  
*?Dicellograptus* sp.  
*Dicranograptus* sp.  
*?Orthograptus* sp.

Age: Middle Ordovician, Caradoc, probably *C. bicornis* or *D. clingani* Zone.

Collected by: J.G. Abbott<sup>3</sup>.

5BSN93 TOA 90 4-5

GSC Loc. C-92584 (BSN) - Duo Lake Formation.  
63° 09' N, 130° 16' W - N.T.S. 105 O - 01

archiretiolitid graptolite  
*Orthograptus?* sp.

Age: Middle to Late Ordovician

Collected by: Pan Ocean geologists on the Jason Claims.  
0-13 BSN80 TR-80-42, 210m

GSC Loc. C-92583 (BSN) - Duo Lake Formation.  
63° 09' N, 130° 16' W - N.T.S. 105 O - 01

biserial graptolite

Age: probably Middle Ordovician to Early Silurian  
Collected by: Pan Ocean geologists on the Jason Claims.  
0-13 BSN80 DDH 52, 72-52

GSC Loc. C-92582 (BSN) - Duo Lake Formation.  
63° 09' N, 130° 16' W - N.T.S. 105 O - 01

*Glossograptus* sp.  
*Orthograptus?* sp.

Age: Middle Ordovician

Collected by: Pan Ocean geologists on the Jason Claims.  
0-13 BSN80 OJV D/D 79-52

GSC Loc. C-89993 (BSN) - Duo Lake Formation.  
63° 11' N, 130° 15' W - N.T.S. 105 O - 01  
*Orthograptus* sp.

**Age:** probably late Middle or Late Ordovician, probably Caradoc to Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 62-2

**GSC Loc. C-89993 (BSN) - Duo Lake Formation.**  
63° 11' N, 130° 15' W - N.T.S. 105 O - 01

*Dicellograptus* sp.  
*Orthograptus?* sp.  
*Pleurograptus?* sp.

**Age:** late Middle Ordovician, Caradoc.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 62-2

**GSC Loc. C-89994 (BSN) - Duo Lake Formation.**  
63° 12' N, 130° 17' W - N.T.S. 105 O - 01

*Orthograptus* sp.

**Age:** probably late Middle or Late Ordovician, probably Caradoc to Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 62-3

**GSC Loc. C-89912 (BSN) - Duo Lake Formation.**  
63° 12' N, 130° 08' W - N.T.S. 105 O - 01

biserial graptolites  
*Dicellograptus* sp.  
*Leptograptus?* sp.  
*Orthograptus* sp.  
*Reteograptus* sp.

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 27-8

**GSC Loc. C-89904 (BSN) - Duo Lake Formation.**  
63° 12' N, 130° 16' W - N.T.S. 105 O - 01

biserial graptolite  
*Dicellograptus* sp.  
*Orthograptus* sp.

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 80 26-3

**GSC Loc. C-89908 (BSN) - Duo Lake Formation.**  
63° 14' N, 130° 39' W - N.T.S. 105 O - 01

*Climacograptus?* sp.  
*Glyptograptus?* sp.  
*Monograptus?* sp.  
*Rastrites* cf. *R. approximatus geinitzi* (Törnquist)

**Age:** Early Silurian, Middle Llandovery.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 19-6

**GSC Loc. C-89911 (BSN) - Duo Lake Formation.**

63° 14' N, 130° 15' W - N.T.S. 105 O - 01

*Climograptus?* ex gr. *C. bicornis* (Hall)  
*Orthograptus* sp.

Age: late Middle or Late Ordovician, Caradoc or Ashgill.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 24-2

GSC Loc. C-89919 (BSN) - Duo Lake Formation.  
63° 12' N, 130° 19' W - N.T.S. 105 O - 01

biserial graptolite  
*Monograptus* spp.  
*M. cf. M. denticulatus* Törnquist  
*Rastrites* sp.

Age: Early Silurian, Middle Llandovery.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 58-7

GSC Loc. C-89918 (BSN) - Duo Lake Formation.  
63° 11' N, 130° 20' W - N.T.S. 105 O - 01

*Climacograptus?* sp.  
*Glyptograptus?* sp.  
*Monograptus* sp.  
*Rastrites cf. R. approximatus geinitzi* (Törnquist)

Age: Early Silurian, Middle Llandovery.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 58-6

GSC Loc. C-89903 (BSN) - Duo Lake Formation.  
63° 12' N, 130° 17' W - N.T.S. 105 O - 01

*Climacograptus* sp.  
*Monograptus* 2 spp.  
*Rastrites* sp.

Age: Early Silurian, Middle Llandovery.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 80 26-2

GSC Loc. C-89998 (BSN) - (Sapper Fm.) SD1 Unit.  
63° 09' N, 130° 21' W - N.T.S. 105 O - 01

*Linograptus* sp.  
*Monograptus* sp.

Age: Late Silurian to Early Devonian, Ludlow to Lochkovian.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 82 75-4

GSC Loc. C-108101 (BSN) - SD1 Unit.  
63° 09' N, 130° 20' W - N.T.S. 105 O - 01

*Linograptus?* sp.  
*Monograptus cf. M. bohemicus* (Barrande)

Age: Late Silurian, Ludlow.  
Collected by: J.G. Abbott<sup>3</sup>.

TOA 83 1-1

**GSC Loc. C-89995 (BSN) - (Sapper Fm.) SD1 Unit.**  
63° 12' N, 130° 10' W - N.T.S. 105 O - 01

*Linograptus* sp.  
*Monograptus* aff. *M. angustidens* Přibyl

**Age:** Late Silurian, Pridoli.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 63-1

**GSC Loc. C-87554 (MJO) - (Sapper Fm.) SD1 Unit.**  
63° 10' N, 130° 21' W - N.T.S. 105 O - 01

**Conodont taxa:** CAI: 5

*Belodella* sp. (2)

*Ozarkodina?* sp. (2)

*Panderodus* sp. (1)

*Pandorinellina* sp. (4)

*Pelekysgnathodus* sp. (3)

*Polygnathus* sp. cf. *P. parawebbi* Chatterton 1978 (1)

*Polygnathus* sp. indet. (3)

*Polygnathus angusticostatus* Wittekindt 1966 (1)

*Pseudooneotodus?* sp. (1)

ramiform elements (13)

**Age:** Middle Devonian, Eifelian.

**Remarks:** Pelekysgnathids resembles both *P. n.* sp. of Uyeno & Klapper 1980, and *P. serratus*. Gordey et al. 1982, no. 17.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 81 58-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102347 (MJO) - (Sapper Fm.) SD1 Unit, at the top of the unit.**  
63° 10' N, 130° 20' W - N.T.S. 105 O - 01

**Conodont taxa:** CAI: 5 - 7

ramiform elements (11)

*Icriodus* sp. (5)

*Panderodus?* sp. (1)

*Polygnathus ex gr. costatus* Klapper 1971 (8)

**Age:** Middle Devonian, Eifelian.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 81 58-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-108155 (MJO) - (Sapper Fm.) SD1 Unit.**  
63° 08' N, 130° 17' W - N.T.S. 105 O - 01

**Conodont taxa:** CAI: 5

ramiform elements (4)

*Panderodus* sp. (1)

*Pandorinellina steinhornensis* (Ziegler 1956) (2)

**Age:** Early - early Middle Devonian.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 83 9-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102585 (MJO) - (Sapper Fm.) SD1 Unit.**

North Lat. & West Long. 63.1375°, 130.0167° - N.T.S. 105O - 01

**Conodont taxa:** CAI: 5

ramiform elements (15)

*Panderodus* sp. (3)

*Pandorinellina* sp. cf. *P. n.* sp. O Philip (20)

*Pelekysgnathus?* sp. (coniforms) (2)

*Polygnathus* sp. aff. *P. pirenea* Boersma 1974 (5)

*Polygnathus* sp. cf. *P. dehiscens* Philip & Jackson 1967 (1)

**Age:** Early Devonian, early Emsian, *dehicens-gronbergi* zones

**Collected by:** S.P. Gordey<sup>2</sup>.

82-GGA-32-165 Section 45 16.5 above base of section and within 1/2 meter  
of the Dsh1 Unit. M.J. Orchard Report OF-1992-25.

**GSC Loc. C-102351 (MJO) - (Sapper Fm.) SD1 Unit, near the top of the  
unit.**

North Lat. & West Long. 63.2333°, 130.0333° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 5

ramiform elements (3)

*Belodella* sp. (2)

*Protopanderodus* sp. (1)

**Age:** Ordovician-Devonian

**Remarks:** This small faunule appears to be a mixture of Ordovician and  
possible Devonian conodonts--contamination or reworking?

**Collected by:** J.G. Abbott<sup>3</sup>.

81-GA-59-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-089964 (MJO) - (Sapper Fm.) SD1 Unit. At contact with the  
Dsh1 Unit.**

North Lat. & West Long. 63.2222°, 130.4667° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 5 - 7

ramiform elements (3)

*Polygnathus* sp. indet. (2)

**Age:** Middle Devonian-Early Carboniferous (Mississippian),  
Eifelian-Tournaisian.

**Collected by:** J.G. Abbott<sup>3</sup>.

82-TOA-43-52. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-101941 (MJO) - (Earn Gp.) DMsh2b? Unit.**

North Lat. & West Long. 63.0667°, 130.2000° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 6

blade fragment (1)

**Age:** Ordovician-Triassic

**Remarks:** Sample was split.

**Collected by:** K.M. Dawson<sup>2</sup>.

81-DY-1876 Moose claim. M.J. Orchard Report OF-1992-5

**GSC Loc. C-89976 (MJO) - (Earn Gp.) Dsh1b Unit, crinoidal limestone at the  
contact with the overlying Dsh1 Unit.**

63° 13' N, 130° 05' W - N.T.S. 105 O - 01

**Fossils:** conodonts, spicules

**Conodont taxa:** CAI: 5

ramiform elements (30)

*Belodella* sp. (8)

*Polygnathus* ex gr. *costatus* Klapper 1971 (3)

*Polygnathus parawebbi* Chatterton, alfa morphotype

Chatterton 1978 (4)

*Tortodus?* sp. (1)

**Age:** Middle Devonian, Eifelian.

**Remarks:** Sample includes an Ordovician coniform conodont: reworked or contaminant? Three specimens photographed.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 54-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-087698 (MJO) - (Earn Gp.) DMsh2b? Unit.**  
North Lat. & West Long. 63.0333°, 130.1000° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 5 - 6

ramiform elements (5)

*Ancyrodella* sp. (1)

*Icriodus symmetricus* Branson & Mehl 1934 (3)

*Palmatolepis* sp. (1)

*Palmatolepis subrecta* Miller & Youngquist 1947 (1)

*Polygnathus* sp. (4)

*Palmatolepis punctata* (Hinde 1879) (1)

**Age:** Late Devonian, Frasnian

**Remarks:** Several specimens on stubs. Dawson & Orchard 1982.

Irwin & Orchard 1991

**Collected by:** K.M. Dawson<sup>2</sup>.

81-DY-1830 Pete claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087699 (MJO) - (Earn Gp.) DMsh2b? Unit.**  
North Lat. & West Long. 63.0333°, 130.1000° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 6

ramiform elements (6)

*Ancyrodella gigas* Youngquist 1947 (1)

*Icriodus symmetricus* Branson & Mehl 1934 (1)

*Palmatolepis* sp. (1)

*Polygnathus* sp. (2)

**Age:** Late Devonian, Frasnian

**Remarks:** Dawson & Orchard 1982; Irwin & Orchard 1991

**Collected by:** K.M. Dawson<sup>2</sup>.

81-DY-1831 Pete claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087700 (MJO) - (Earn Gp.) DMsh2b? Unit.**  
North Lat. & West Long. 63.0333°, 130.1000° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 5 - 6

ramiform elements (20)

*Icriodus* sp. (2)

*Palmatolepis* sp. (1)

*Palmatolepis punctata* (Hinde 1879) (1)

*Palmatolepis rhenana nasuta* Müller 1956 (1)

*Palmatolepis subrecta* Miller & Youngquist 1947 (2)

**Age:** Late Devonian, Frasnian. *rhenana* Zone

**Remarks:** Dawson & Orchard 1982; Irwin & Orchard 1991

**Collected by:** K.M. Dawson<sup>2</sup>.

81-DY-1832 Pete claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-118030 (MJO) - (Earn Gp.) DMsh2b Unit**  
UTM Zn 9 442000E, 7003000N. N.T.S. 1050 - 01

**Conodont taxa:** CAI: 5

ramiform elements (32)

*Palmatolepis* sp. indet. (7)

*Palmatolepis proversa* Ziegler 1958 (20)

*Palmatolepis rhenana* Bischoff 1956 (3)  
*Palmatolepis winchelli* (Stauffer) (12)  
*Polygnathus* sp. (50)

**Age:** Late Devonian, Frasnian, lowest *rhenana* zone  
**Remarks:** Over 100 palmatolepid specimens in collections. Irwin, M.Sc. thesis, 1990.  
**Collected by:** K.R. McClay<sup>9</sup>.  
84-MJO-MM-1 Near Tom property. M.J. Orchard Report OF-1992-24.

**GSC Loc. C-118032 (MJO) - (Earn Gp.) DMsh2b Unit**  
North Lat. & West Long. 63.1167°, 130.1500° - N.T.S. 1050 - 01

**Fossils:** conodonts, radiolarians  
**Conodont taxa:** CAI: 5 - 5.5  
ramiform elements (70)  
*Icriodus* sp. (1)  
*Palmatolepis* sp. (19)  
*Palmatolepis foliacea* Youngquist 1945 (5)  
*Palmatolepis proversa* Ziegler 1958 (9)  
*Palmatolepis rotunda* Ziegler & Sandberg 1990 (9)  
*Pandorinellina?* sp. (2)  
*Polygnathus* sp. (6)

**Age:** Late Devonian, Frasnian, Lower *rhenana* Zone  
**Remarks:** Irwin & Orchard 1991, amended.  
**Collected by:** K.R. McClay<sup>9</sup>. M.J. Orchard Report OF-1992-24.  
84-MJO-MM-3 Above Tom.

**GSC Loc. C-118033 (MJO) - (Earn Gp.) DMsh2b Unit.**  
North Lat. & West Long. 63.1167°, 130.1500° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 5 - 5.5  
ramiform elements (31)  
*Palmatolepis* sp. (25)  
*Palmatolepis ederi* Ziegler & Sandberg 1990 (2)  
*Palmatolepis proversa* Ziegler 1958 (9)  
*Palmatolepis subrecta* Miller & Youngquist 1947 (7)  
*Polygnathus* sp. (21)

**Age:** Late Devonian, Frasnian, Lower *rhenana* zone  
**Remarks:** *Palmatolepis* sp. possibly transitional between *Palmatolepis proversa* and *Palmatolepis* n. sp. of C-118034. Additional palmatolepids. Irwin & Orchard 1991.  
**Collected by:** K.R. McClay<sup>9</sup>. M.J. Orchard Report OF-1992-24.  
84-MJO-MM-4 Tom claims.

**GSC Loc. C-118034 (MJO) - (Earn Gp.) DMsh2b Unit.**  
North Lat. & West Long. 63.1167°, 130.1500° - N.T.S. 1050 - 01

**Fossils:** conodonts, sponge spicules  
**Conodont taxa:** CAI: 5 - 5.5  
ramiform elements (3)  
*Palmatolepis* sp. (2)  
*Palmatolepis redana* Irwin & Orchard 1991 (3)  
*Palmatolepis subrecta* Miller & Youngquist 1947 (1)  
*Polygnathus* sp. (1)

**Age:** Late Devonian, Frasnian, *rhenana-linguiformis* zones  
**Remarks:** Irwin & Orchard 1991  
**Collected by:** K.R. McClay<sup>9</sup>.

84-MJO-MM-5 Tom claims. M.J. Orchard Report OF-1992-24.

**GSC Loc. C-118035 (MJO) - (Earn Gp.) DMsh2b Unit.**  
North Lat. & West Long. 63.1167°, 130.1500° - N.T.S. 1050 - 01

**Fossils:** conodonts, sponge spicules

**Conodont taxa:** CAI: 5

ramiform elements (50)

*Palmatolepis* sp. (6)

*Palmatolepis rhenana nasuta* Müller 1956 (1)

*Palmatolepis subrecta* Miller & Youngquist 1947 (2)

*Polygnathus* sp. (3)

**Age:** Late Devonian, Frasnian, *rhenana* through  
*linguiformis* zones

**Remarks:** Irwin & Orchard 1991

**Collected by:** K.R. McClay<sup>9</sup>. M.J. Orchard Report OF-1992-24.

84-MJO-MM-6 Tom claims.

**GSC Loc. C-086425 (MJO) - (Earn Gp.) DMsh2b Unit**

North Lat. & West Long. 63.1000°, 130.1833° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 7 - 8

ramiform elements (4)

*Palmatolepis* sp. (2)

*Palmatolepis proversa* Ziegler 1958 (1)

*Palmatolepis rhenana nasuta* Müller 1956 (1)

**Age:** Late Devonian, middle to late Frasnian.

**Remarks:** Formerly determined as early Famennian. Irwin & Orchard, 1991; Dawson & Orchard 1982.

**Collected by:** I.R. Jonasson<sup>6</sup> and J.W. Lydon<sup>6</sup>

GN01-006-900 - Gargantua North. M.J. Orchard Report OF-1992-21.

**GSC Loc. C-102586 (MJO) - (Earn Gp.) DMsh2b Unit**

North Lat. & West Long. 63.1375°, 130.0000° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 5

ramiform elements (25)

*Ancyrognathus* sp. (1)

*Palmatolepis* sp. (30)

*Palmatolepis* sp. cf. *P. subrecta* Miller & Youngquist 1947 (6)

*Polygnathus* sp. (2)

**Age:** Late Devonian, middle to late Frasnian

**Collected by:** S.P. Gordey<sup>2</sup>.

82-GGA-32-893. Section 45 876 m above the base of the 'Earn' Group. M.J. Orchard Report OF-1992-25.

**GSC Loc. C-086295 (MJO) - (Earn Gp.) DMsh2b? Unit.**

North Lat. & West Long. 63.0333°, 130.1000° - N.T.S. 1050 - 01

**Conodont taxa:** CAI: 6

ramiform elements (O2,A1,A2) (0)

*Icriodus* sp. cf. *I. alternatus* Branson & Mehl sensu Druce 1976 (6)

*Palmatolepis* sp. cf. *P. minuta* wolska Szulczevski 1971 (1)

**Age:** Late Devonian.

**Remarks:** See Dawson 1977, GSC Rep. 77-1A

**Collected by:** K.M. Dawson<sup>2</sup>.

78-DY-311 Pete claim. M.J. Orchard Report OF-1992-5.

GSC Loc. C-49975 (W.W. Nassichuk) - (Earn Gp.) DMsh2 Unit.  
63° 09' N, 130° 03' W - N.T.S. 105 O - 01

*Ponticeras cf. P. tscheryschewi* Holzapfel

Age: Late Devonian, Frasnian.  
Collected by: J.A. Morin<sup>c/o3</sup>.

GSC Loc. C-102340 (MJO) - (Earn Gp.) DMsh2b Unit. At the top.  
63° 04' N, 130° 17' W - N.T.S. 105 O - 01

ichthyoliths  
**Conodont taxa:** CAI: 5  
ramiform elements (75)  
*Ancyrorella nodosa* Ulrich & Bassler 1926 (1)  
*Palmatolepis* sp. (110)  
*Palmatolepis rhenana nasuta* Müller 1956 (2)  
*Palmatolepis rotunda* Ziegler & Sandberg 1990 (2)  
*Palmatolepis subrecta* Miller & Youngquist 1947 (8)  
*Polygnathus* sp. (12)  
*Polygnathus linguiiformis* subsp. Hinde 1879 (1)

Age: Late Devonian, Frasnian.  
Collected by: J.G. Abbott<sup>3</sup>.  
Remarks: Some conodonts are fused. One polygnathid photographed. Irwin & Orchard 1991, pl.3, fig. 3,11.  
GA 81 48-1. M.J. Orchard Report OF-1992-20.

GSC Loc. C-102342 (MJO) - (Earn Gp.) DMsh2b Unit, at the top of the unit.  
63° 04' N, 130° 14' W - N.T.S. 105 O - 01

**Conodont taxa:** CAI: 5  
ramiform elements (25)  
*Palmatolepis* sp. (9)  
*Palmatolepis rhenana rhenana* Bischoff 1956 (3)  
*Palmatolepis subrecta* Miller & Youngquist 1947 (6)  
*Polygnathus* sp. (4)  
*Elsonella* sp. (1)  
*Pelekysgnathus* sp. (1)

Age: Late Devonian, Frasnian, *gigas* Zone  
Remarks: Pelekysgnathid photographed. Irwin & Orchard 1991, pl.3, fig. 2.  
Collected by: J.G. Abbott<sup>3</sup>.  
OF 92 20 GA 81 50-2. M.J. Orchard Report OF-1992-20.

GSC Loc. C-87560 (MJO) - (Earn Gp.) DMsh2b Unit. Three meters from top,  
10 cm limestone.  
63° 08' N, 130° 01' W - N.T.S. 105 O - 01

**Conodont taxa:** CAI: 5  
ramiform elements (24)  
*Palmatolepis* sp. (15)  
*Palmatolepis foliacea* Youngquist 1945 (4)  
*Palmatolepis rhenana nasuta* Müller 1956 (1)  
*Palmatolepis rhenana rhenana* Bischoff 1956 (4)  
*Palmatolepis subrecta* Miller & Youngquist 1947 (5)  
*Polygnathus* sp. (4)

Age: - Late Devonian, late Frasnian, Lower *gigas* Zone.  
Collected by: J.G. Abbott<sup>3</sup>.  
Remarks: Fauna originally determined as early Fammenian. Gordey et al.

1982. Section 45, 893 m in Nahanni file.  
TOA 81 41-811m. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-108152 (MJO) - Mqs? Unit.**  
 $63^{\circ} 11' N$ ,  $130^{\circ} 17' W$  - N.T.S. 105 O - 01

**Fossils:** conodonts, spicules, radiolarians  
**Conodont taxa:** CAI: 5  
'Hindeodella' *segaformis* Bischoff 1957 (300)  
ramiform elements (150)  
*Bispatherodus* ex gr. *stabilis* (Branson & Mehl 1934) (6)  
*Doliognathus latus* Branson & Mehl morph 2 Lane et al. 1941 (2)  
*Geniculatus?* n. sp. A (100)

**Age:** Early Mississippian, Late Tournaisian.  
**Remarks:** Irwin & Orchard, 1991, pl.5, figs. 1,11,17. Several photographed.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 83 4-5-343m. M.J. Orchard Report OF-1992-20.

**N.T.S. Map-area 105 O - 2**

**GSC Loc. C-89915 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 05' N$ ,  $130^{\circ} 51' W$  - N.T.S. 105 O - 02

inarticulate brachiopod  
*Climacograptus?* sp.  
*Dicellograptus* sp.  
*Glyptograptus* sp.  
*Orthograptus?* sp.

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 42-7

**GSC Loc. C-89914 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 07' N$ ,  $128^{\circ} 59' W$  - N.T.S. 105 P - 02

*Climacograptus?* cf. *C. bicornis* (Hall)  
*Dicellograptus* sp.  
*Orthograptus* sp.

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 37-5

**GSC Loc. C-108102 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 09' N$ ,  $130^{\circ} 20' W$  - N.T.S. 105 O - 02

*Glossograptus* sp.

**Age:** Latest Early Ordovician to Middle Ordovician, latest Arenig to Caradoc.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 83 1-2

**GSC Loc. C-108103 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 10' N$ ,  $130^{\circ} 24' W$  - N.T.S. 105 O - 02

graptolite fragments  
*Didymograptus* sp. (pendent form)

**Age:** Early to early Middle Ordovician, Arenig to Llanvirn.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 83 1-3

**GSC Loc. C-89983 (BSN) - Duo Lake Formation.**  
63° 12' N, 130° 33' W - N.T.S. 105 O - 02

fragmentary graptolites

**Age:** probably late Middle or Late Ordovician.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 44-2

**GSC Loc. C-89991 (BSN) - Duo Lake Formation.**  
63° 12' N, 130° 19' W - N.T.S. 105 O - 02

*Clonograptus?* sp.  
*Didymograptus* sp. (extensiform)  
*Tetragraptus* spp.

**Age:** Early Ordovician, Arenig.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 51-1

**GSC Loc. C-89982 (BSN) - Duo Lake Formation.**  
63° 13' N, 130° 21' W - N.T.S. 105 O - 02

*Didymograptus* sp. (extensiform)  
*Tetragraptus* sp.

**Age:** Early Ordovician, Arenig.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 43-1

**GSC Loc. C-108194 (BSN) - Duo Lake Formation**  
63° 14.3' N, 130° 40.5' W - N.T.S. 105 O - 02

*Climacograptus* sp.  
*Corynoides* sp.

**Age:** Late Middle to Late Ordovician, Caradoc to early Ashgill *C. bicornis* to *O. quadrimucronatus* Zone.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
5BSN93 TOA 82 47-1

**GSC Loc. C-89944 (BSN) - Duo Lake? 2m below the Sa Unit.**  
63° 06' N, 130° 49' W - N.T.S. 105 O - 02

*Climacograptus* sp.  
*Dicellograptus* sp.  
*?Lonhograptus* sp.  
*Orthograptus* sp.  
*O. ex gr. O. calcaratus* Elles and Wood

**Age:** Middle Ordovician, Caradoc  
**Collected by:** J.G. Abbott<sup>3</sup>.  
5BSN93 TOA 82 36-1

**GSC Loc. C-87686 (MJO) - top of the SD1 Unit.**  
63° 14' N, 130° 31' W - N.T.S. 105 O - 02

**Conodont taxa:** CAI: 5  
ramiform elements (8)

*Polygnathus linguiformis* Hinde 1879 subsp. indet. (1)

**Age:** Middle-Late Devonian, Emsian-Frasnian.

**Remarks:** Irwin & Orchard, 1991. Gordey et al. 1982, no. 21.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 81 20-8. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-089967 (MJO) - (Sapper Fm.) SD1 Unit, 2 m below the Dsh1 Unit.**

North Lat. & West Long. 63.2375°, 130.6778° - N.T.S. 105O - 02

**Fossils:** chitinozoan?

**Age:** Ordovician-Devonian.

**Remarks:** Specimen not in slide.

**Collected by:** J.G. Abbott<sup>3</sup>.

82-TOA-47-880.5. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-087599 (MJO) - ?Base of the SD1? Unit.**

North Lat. & West Long. 63.2358°, 130.6501° - N.T.S. 105O - 02

**Conodont taxa:** CAI: 4.5

ramiform element (1)

Ozarkodina? sp. (1)

**Age:** Probably Silurian - Devonian

**Collected by:** S.P. Gordey<sup>2</sup>.

80-GGA-44A-75m. M.J. Orchard Report OF-1992-25.

**GSC Loc. C-102325 (MJO) - (Tsichu Fm.) Mqs Unit**

North Lat. & West Long. 63.0767°, 130.8667° - N.T.S. 105O - 02

**Conodont taxa:** CAI: 5

hindeodelliform element (1)

**Age:** Silurian-Carboniferous?

**Collected by:** J.G. Abbott<sup>3</sup>.

81-GA-42-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89933 (MJO) - (Earn Gp.) Dsh1b Unit. Approximately ten meters below the top.**

63° 02' N, 130° 58' W - N.T.S. 105 O - 02

**Fossils:** conodonts

**Conodont taxa:** CAI: 3.5 - 4.5

ramiform elements (9)

*Palmatolepis glabra distorta* Branson & Mehl 1934 (10)

*Palmatolepis glabra leptata* Ziegler & Huddle morph. 2 (13)

*Palmatolepis marginifera* Helms 1959 (8)

*Polygnathus* sp. (2)

**Age:** Late Devonian, middle Famennian *marginifera* Zone.

**Remarks:** Irwin & Orchard 1991.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 18-4. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-73794 (BSN) - Collector indicated upper Paleozoic rocks, mapped as tDsh1a Unit, but tectonic units include structural repetitions of older and younger strata.**

63° 00' N, 130° 53' W - N.T.S. 105 O - 02

*Angustidontus* sp.

**Age:** Late Devonian to earliest Carboniferous (to Dr. Copeland for further study).  
**Collected by:** 'Dickie.'  
O-C3 BSN79 KBT 29-1

**GSC Loc.** C-086426 (MJO) - (Tsichu Fm.) Mqs? Unit  
North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 1050 - 02

**Conodont taxa:** CAI: 5  
ramiform elements (88)  
*Bispathodus* sp. (6)  
*Polygnathus communis communis* Branson & Mehl 1934 (7)  
*Protognathodus praedelicatus* Lane, Sandberg &  
Ziegler (13)  
*Pseudopolygnathus multistriatus* Mehl & Thomas 1934 (17)  
*Siphonodella* sp. (1)

**Age:** Early Carboniferous, Tournaisian  
**Remarks:** Including specimens transitional to *Gnathodus cuneiformis* Mehl & Thomas, 1947. Dawson & Orchard 1982.  
**Collected by:** I.R. Jonasson<sup>6</sup> and J.W. Lydon<sup>6</sup>  
TE-03005-101 Tea Barite. M.J. Orchard Report OF-1992-21.

**GSC Loc.** C-101817 (MJO) - (Tsichu Fm.) Mqs?? Unit. Limestone near trench.  
North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 1050 - 02

**Conodont taxa:** CAI: 5.5 - 6  
'*Hindodella*' *segaformis* Bischoff 1957 (22)  
ramiform elements (25)

**Age:** Early Carboniferous, Late Tournaisian  
**Collected by:** I.R. Jonasson<sup>6</sup> and J.W. Lydon<sup>6</sup>  
81-MJO-0381 Tea barite. M.J. Orchard Report OF-1992-21.

**GSC Loc.** C-101818 (MJO) - (Tsichu Fm.) Mqs?? Unit  
North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 1050 - 02

**Conodont taxa:** CAI: 5.5  
ramiform elements (3)

**Age:** Ordovician - Triassic  
**Collected by:** I.R. Jonasson<sup>6</sup> and J.W. Lydon<sup>6</sup>  
81-MJO-0481 Tea barite. M.J. Orchard Report OF-1992-21.

**GSC Loc.** C-101819 (MJO) - (Tsichu Fm.) Mqs? Unit  
North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 1050 - 02

**Conodont taxa:** CAI: 5  
ramiform elements (90)  
*Bispathodus* spp. (35)  
*Gnathodus* sp. cf. *G. delicatus* Branson & Mehl 1938 (1)  
*Polygnathus communis* Branson & Mehl 1934 (5)  
*Protognathodus* sp. (15)  
*Pseudopolygnathus* sp. (20)  
*Siphonodella* sp. (2)

**Age:** Early Carboniferous, Tournaisian  
**Remarks:** Similar fauna to C-086426; both are probably younger than C-101817  
**Collected by:** I.R. Jonasson<sup>6</sup> and J.W. Lydon<sup>6</sup>  
81-MJO-0681 Tea barite. M.J. Orchard Report OF-1992-21.

**GSC Loc. C-118941 (MJO) - (Tsichu Fm.) Mqs? Unit**  
North Lat. & West Long. 63.0167°, 130.6000° - N.T.S. 105O - 02

**Conodont taxa:** CAI: 5  
ramiform elements (60)  
*Bispathodus* sp. (3)  
*Polygnathus communis* Branson & Mehl 1934 (2)  
*Protognathodus* sp. (2)  
*Pseudopolygnathus* sp. (2)

**Age:** Early Carboniferous, Tournaisian.  
**Collected by:** I.R. Jonasson<sup>6</sup>.  
85-IRJ-T3 Tea barite. M.J. Orchard Report OF-1992-21.

**GSC Loc. C-118942 (MJO) - (Tsichu Fm.) Mqs? Unit**  
North Lat. & West Long. 63.0167°, 130.6000° - N.T.S. 105O - 02

**Conodont taxa:** CAI: 5  
ramiform elements (170)  
*Bispathodus* sp. (8)  
*Gnathodus* sp. (2)  
*Polygnathus communis* Branson & Mehl 1934 (10)  
*Siphonodella* sp. (1)

**Age:** Early Carboniferous, Tournaisian  
**Collected by:** I.R. Jonasson<sup>6</sup>.  
85-IRJ-T4 Tea barite. M.J. Orchard Report OF-1992-21.

**GSC Loc. C-89931 (MJO) - (Tsichu Fm.) Mqs?, CPa? Unit.**  
63° 00' N, 130° 47' W - N.T.S. 105 O - 02

**Conodont taxa:** CAI: 4.5 - 5  
ramiform elements (50)  
*Gnathodus girtyi* Hass 1953 (22)  
*Idiopriioniodus?* sp. (10)  
*Lochriea commutata* (Branson & Mehl 1941) (1)  
*Rhachistognathus prolixus* Lane & Baesemann (1)  
*Gnathodus* sp. cf. *bilineatus* (Roundy 1926) (1)  
*Gnathodus* sp. cf. *texanus* Roundy 1926 (5)

**Age:** Early Carboniferous (Mississippian), late Visean-early, Namurian.  
**Remarks:** These rocks were originally thought to belong to either the upper Earn Group or to a younger unit comprised mainly of orange weathering green shale and chert. Two Ordovician elements occur in this collection: presumed contaminants.

**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 15-3. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-108154 (MJO) & GSC Loc. C-89973 (MJO) - Limestone lens in the Mqs Unit Tea Barite.**  
63° 01' N, 130° 37' W - N.T.S. 105 O - 02

**C-89973**  
**Fossils:** conodonts, sphaeromorphs  
**Conodont taxa:** CAI: 5  
'Hindeodella' *segaformis* Bischoff 1957 (70)  
ramiform elements (4)  
*Bispathodus ex gr. stabilis* (Branson & Mehl 1934) (4)  
*Geniculatus?* n. sp. A (10)  
*Polygnathus* sp. (1)  
*Pseudopolygnathus* sp. (1)

**Age:** Early Carboniferous (Mississippian), late Tournaisian.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 83 7-3 & TOA 82 53-1 Tea claim. M.J. Orchard Report OF-1992-20.

**C-108154**  
**Fossils:** conodonts, ?radiolarians  
**Conodont taxa:** CAI: 5  
'Hindeodella' segaformis Bischoff 1957 (35)  
ramiform elements (30)  
*Bispatherodus ex gr. stabilis* (Branson & Mehl 1934) (2)  
*Geniculatus?* n. sp. A (7)  
*Polygnathus* sp. (1)

**Age:** Early Carboniferous (Mississippian), late Tournaisian.  
**Remarks:** Recollection of C-089973. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89975 (MJO) - Carbonate lens in Mqs?, Dsh1b? Unit.**  
63° 01' N, 130° 37' W - N.T.S. 105 O - 02

**Conodont taxa:** CAI: 5  
'Hindeodella' segaformis Bischoff 1957 (5)  
?Geniculatus n. sp. A (1)  
ramiform elements (10)  
*Scaliognathus anchoralis* Branson & Mehl 1934 (1)

**Age:** Early Carboniferous (Mississippian), late Tournaisian.  
**Remarks:** Irwin & Orchard 1991, pl.5, fig. 13. Scaliognathid photographed.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 53-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89932 (MJO) - (Tsichu Fm.) Mqs Unit.**  
63° 02' N, 130° 58' W - N.T.S. 105 O - 02

**Conodont taxa:** CAI: 3.5 - 4.5  
ramiform elements (15)  
*Bispatherodus ex gr. stabilis* (Branson & Mehl 1934) (1)  
*Polygnathus communis communis* Branson & Mehl 1934 (3)  
*Siphonodella* spp. (11)

**Age:** Early Carboniferous (Mississippian), early-middle, Tournaisian.  
**Remarks:** Four siphonodellidids photographed.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 18-3. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-201574 (MJO) - (Tsichu Fm.) Mqs? Unit.**  
North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 105O - 02

**Conodont taxa:** CAI: ~5  
ramiform elements (1)  
*Geniculatus?* sp. (1)

**Age:** Early Carboniferous?  
**Remarks:** Processed by B. Cameron.  
**Collected by:** K.M. Dawson<sup>2</sup>.  
78-DY-371 Tea barite. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-201575 (MJO) - (Tsichu Fm.) Mqs? Unit.**  
North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 105O - 02

**Conodont taxa:** CAI: 5  
'Hindeodella' segaformis Bischoff 1957 (6)

ramiform elements (5)

**Age:** Early Carboniferous, late Tournaisian

**Remarks:** Processed by B. Cameron.

**Collected by:** K.M. Dawson<sup>2</sup>.

78-DY-363 Tea barite. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087701 (MJO) - Unknown Upper Paleozoic Unit - limestone clasts form conglomerate.**

North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 1050 - 02

**Conodont taxa:** CAI: 5

ramiform elements (200)

*Bispatherodus* sp. (6)

*Polygnathus communis* Branson & Mehl 1934 (4)

*Protognathodus* sp. (9)

*Pseudopolygnathus* sp. (1)

**Age:** Early Carboniferous, Tournaisian.

**Remarks:** Dawson & Orchard 1982; Irwin & Orchard 1991.

**Collected by:** K.M. Dawson<sup>2</sup>.

81-DY-1950 Tea barite. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087702 (MJO) - (Tsichu Fm.) Mgs? Unit.**

North Lat. & West Long. 63.0250°, 130.6083° - N.T.S. 1050 - 02

**Conodont taxa:** CAI: 5

*Diplognathodus?* sp. (1)

**Age:** Carboniferous.

**Collected by:** K.M. Dawson<sup>2</sup>.

81-DY-1955 Tea barite. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087721 (MJO) - (Tsichu Fm.) Mgs? Unit.**

North Lat. & West Long. 63.0181°, 130.6001° - N.T.S. 1050 - 02

**Conodont taxa:** CAI: 5

'Hindeodella' 'segaformis' Bischoff 1957 (1)

ramiform elements (8)

**Age:** Early Carboniferous, late Tournaisian

**Remarks:** Processed by B. Cameron. Dawson & Orchard, 1982

**Collected by:** K.M. Dawson<sup>2</sup>.

78-DY-382 Tea barite. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-89946 (MJO) - Trs Unit.**

63° 02' N, 130° 56' W - N.T.S. 105 O - 02

**Conodont taxa:** CAI: 4 - 4.5

ramiform elements (13)

*Epigondolella triangularis* (Budurov 1972) (2)

*Metapolygnathus nodosus* (Hayashi 1968) (3)

*Neogondolella navicula* (Huckriede 1958) (50)

**Age:** Late Triassic, Early Norian.

**Remarks:** The metapolygnathids may be reworked; whole fauna appears weathered, and has adhering matrix.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 33-2

N.T.S. Map-area 105 O - 7

**GSC Loc. C-108105 (WHF) - eou Unit.**  
63° 18' N, 130° 37' W - N.T.S. 105 O - 07

archaeocyathid

**Age:** Early Cambrian  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 83 21-1

**Field notes MPC - sample lost in transit - teou Unit.**  
63° 27.5' N, 130° 36.4' W - N.T.S. 105 O - 07

Multibranched graptolite fragments

**Age:** Cambrian to Devonian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
85 CJA 312.8 F1

**GSC Loc. C-237725 (BSN) - teou Unit**  
63° 27.5' N, 130° 38.5' W - N.T.S. 105 O - 07

dichograptid fragment  
*Glyptograptus* sp.  
*Pterograptus* sp.

**Age:** Lower Middle Ordovician, Llanvirn, *Paraglossograptus tentaculatus*  
Zone to *Diplograptus decoratus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 2BSN 1993 85 CJA-312-F2

**GSC Loc. C-102267 (MJO) - eou Unit.**  
63° 17' N, 130° 42' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 5.5  
oistodiform element (1)

**Age:** Ordovician.  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 6-5. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102269 (MJO) - eou Unit.**  
63° 17' N, 130° 43' W - N.T.S. 105 O - 07

**Fossils:** conodonts, ostracodes, echinoderms  
**Conodont taxa:** CAI: 5 - 6  
*Paroistodus?* sp. (1)  
*Periodon* sp. (3)  
*Polonodus?* sp. (2)  
*Protopanderodus?* *giganteus* (Sweet & Bergström 1962) (1)  
*Protopanderodus* *varicostatus* (Sweet & Bergström 1962) (4)

**Age:** Late Early-Middle Ordovician.  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 6-7. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102278 (MJO) - eou Unit.**  
63° 17' N, 130° 40' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 5  
coniform element indet. (3)  
oistodiform element (1)  
*Ansellia jemtlandica* (Lofgren 1978) (3)  
*Periodon aculeatus* (Hadding 1913) (3)  
*Protopanderodus* sp. (2)  
*Protopanderodus rectus* (1)

**Age:** Middle Ordovician, late Arenig to Caradoc  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 10-6. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102276 (MJO) - eou Unit.**  
63° 19' N, 130° 48' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: ~5  
*Ansellia jemtlandica* (Lofgren 1978) (1)  
*Drepanodus arcuatus* Pander 1856 (1)  
*Periodon aculeatus* (Hadding 1913) (1)

**Age:** Middle Ordovician, late Arenig-Caradoc  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 9-5. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102311 (MJO) - eou Unit.**  
North Lat. & West Long. 63.2844°, 130.5667° - N.T.S. 105O - 07

**Conodont taxa:** CAI: 5  
acodiform element (1)  
ramiform elements (1)  
*Paroistodus?* sp. (1)  
*Protopanderodus robustus* (Hadding 1913) (3)

**Age:** Early Ordovician.  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
81-GA-33-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102290 (MJO) - Rabbitkettle Formation**  
63° 15' N, 130° 46' W - N.T.S. 105 O - 07

**Fossils:** conodonts, inarticulate brachiopods  
**Conodont taxa:** CAI: 4.5 - 5  
*Cordylodus intermedius* Furnish (24)  
*Eoconodontus notchpeakensis* (Miller 1969) (2)

**Age:** Early Ordovician  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>. M.J. Orchard Report OF-1992-20.  
TOA 81 16-3. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-108292 (MJO) - Rabbitkettle Formation.**  
North Lat. & West Long. 63.2583°, 130.7611° N.T.S. 105O - 7

**Fossils:** inarticulate brachiopods

**Age:** Phanerozoic  
**Collected by:** J.G. Abbott<sup>3</sup>.  
90-TOA-5-4. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-108293 (MJO) - Rabbitkettle Formation**  
North Lat. & West Long.  $63.2542^{\circ}$ ,  $130.7611^{\circ}$  N.T.S. 105O - 7

**Fossils:** sphareomorphs, echinoderms, tubes

**Age:** Phanerozoic  
**Collected by:** J.G. Abbott<sup>3</sup>.  
90-TOA-5-6. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89971 (MJO) - Duo Lake Formation**  
 $63^{\circ} 17' N$ ,  $130^{\circ} 32' W$  - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 5  
*Aspelundia* sp. (200)  
*Dapsilodus* sp. (160)  
*Distomodus?* sp. (2)  
*Panderodus* sp. (10)

**Age:** Early Silurian, Llandovery  
**Remarks:** Platform element photographed.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 45A-87M. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89986 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 17' N$ ,  $130^{\circ} 32' W$  - N.T.S. 105 O - 07

*Climacograptus?* sp.  
*Orthograptus?* sp.  
*Monograptus* sp.  
*Petalograptus?* sp.

**Age:** Early Silurian, late Early to Middle Llandovery.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA8245B(45-46)

**GSC Loc. C-89985 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 17' N$ ,  $130^{\circ} 32' W$  - N.T.S. 105 O - 07

inarticulate brachiopod  
*Dicellograptus* sp.  
*Orthograptus* sp.

**Age:** late Middle to Late Ordovician, Caradoc to Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA8245A36-37m

**GSC Loc. C-89907 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 17' N$ ,  $130^{\circ} 42' W$  - N.T.S. 105 O - 07

*Climacograptus* sp.  
*Dicellograptus* sp.  
*Glyptograptus* sp.  
*Leptograptus?* sp.

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 17-1

**GSC Loc. C-89984 (BSN) - Duo Lake Formation.**  
 $63^{\circ} 17' N$ ,  $130^{\circ} 32' W$  - N.T.S. 105 O - 07

*Dichograptus?* sp.

*Tetragraptus?* cf. *T. fruticosus* (Hall)  
*T. aff. T. quadribrachiatus* (Hall)  
Age: Early Ordovician, Arenig.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA8245A(0-1m)

GSC Loc. C-89902 (BSN) - Duo Lake Formation.  
63° 18' N, 130° 32' W - N.T.S. 105 O - 07

*Climacograptus* sp.  
*Dicellograptus* sp.

Age: late Middle or Late Ordovician, Caradoc or Ashgill.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 80 24-4

GSC Loc. C-89902 (BSN) - SD1 Unit.  
63° 17' N, 130° 51' W - N.T.S. 105 O - 07

Dacryococonarid  
*Monograptus yukonensis* Jackson and Lenz

Age: Early Devonian, Pragian, *M. yukonensis* Zone.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 8-2

GSC Loc. C-102287 (MJO) - (Sapper Fm.) SD1 Unit.  
63° 16' N, 130° 37' W - N.T.S. 105 O - 07

Conodont taxa: CAI: 4.5 - 5  
ramiform elements (6)  
*Panderodus?* sp. (1)  
*Pandorinellina* sp. cf. *P. steinhornensis* (Ziegler 1956) (1)  
*Polygnathus* sp. aff. *P. perbonus* (Philip 1966) (1)

Age: Early Devonian, Emsian.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81-15-2. M.J. Orchard Report OF-1992-20.

GSC Loc. C-89974 (MJO) - (Sapper Fm.) SD1 Unit, 1.5 m below the top of the unit.  
63° 17' N, 130° 32' W - N.T.S. 105 O - 07

Conodont taxa: CAI: 5 - 5.5  
*Panderodus?* sp. (1)  
*Polygnathus* ex gr. *gronbergi* Klapper & Johnson 1975 (5)  
*Icriodus?* sp. (1)

Age: Early Devonian, Emsian.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 82 45B159m. M.J. Orchard Report OF-1992-20.

GSC Loc. C-102277 (MJO) - (Sapper Fm.) SD1 Unit.  
63° 17' N, 130° 40' W - N.T.S. 105 O - 07

Fossils: conodonts, criocorarids  
Conodont taxa: CAI: 5 - 5.5  
*Pandorinellina steinhornensis* (Ziegler 1956) (2)  
*Pelekysgnathus* sp. (1)

**Age:** Probably Early Devonian.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 10-3  
**GSC Loc. C-102336 (MJO) - (Sapper Fm.) SD1 Unit.**  
63° 17' N, 130° 33' W - N.T.S. 105 O - 07

**Fossils:** conodonts. Two holed crinoid ossicles noted in field.  
**Conodont taxa:** CAI: 5  
ramiform elements (5)  
*Panderodus?* sp. (3)

**Age:** Probably Silurian-Middle Devonian.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 47-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89901 (BSN) - (Sapper Fm.) SD1 Unit.**  
63° 16' N, 130° 34' W - N.T.S. 105 O - 07

*Monograptus yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *M. yukonensis* Zone.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 80 23-4

**GSC Loc. C-087538 (MJO) - (Sapper Fm.) SD1 Unit.**  
North Lat. & West Long. 63.3000°, 130.5333° - N.T.S. 105O - 07

**Conodont taxa:** CAI: 5  
coniform element (23)  
ramiform elements (120)  
*Belodella* sp. (7)  
*Panderodus* sp. (19)  
*Pandorinellina* n. sp. O Philip 1966 (50)  
*Polygnathus ex gr. perbonus* (Philip 1966) (130)  
*Polygnathus* spp.

**Age:** Early Devonian, Emsian, *gronbergi* Zone.  
**Remarks:** diverse polygnathid fauna.  
**Collected by:** J.G. Abbott<sup>3</sup>. M.J. Orchard Report OF-1992-20.  
GA-80-24-3

**GSC Loc. C-087688 (MJO) - Ten meters below the top of the SD1 Unit.**  
North Lat. & West Long. 63.2833°, 130.5668° - N.T.S. 105O - 07

**Conodont taxa:** CAI: 5  
*Icriodus* sp. cf. *I. steinachensis* Al-Rawi 1977 (5)  
*Polygnathus pirenaeae* Boersma 1974 (2)

**Age:** Early Devonian, late Pragian-early Emsian, *kindlei-dehiscens* Zone.  
**Remarks:** Gordey et al. (1982)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
81-GA-13-7. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102339 (MJO) - (Earn Gp.) Dsh1b Unit.**  
North Lat. & West Long. 63.2933°, 130.5500° - N.T.S. 105O - 07

**Conodont taxa:** CAI: 5  
ramiform elements (1)  
*Belodella* sp. (1)

**Age:** Probably Silurian-Middle Devonian.  
**Collected by:** J.G. Abbott<sup>3</sup>.

81-GA-47-4. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-087546 (MJO) - (Sapper Fm.) SD1? Unit.**  
North Lat. & West Long. 63.2681°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5

ramiform elements (40)  
*Eognathodus sulcatus kindlei* Lane & Ormiston (26)  
*Icriodus* sp. indet. (2)  
*Panderodus* sp. (1)  
*Pandorinella?* sp. (4)  
*Pedavis* sp. indet. (2)

**Age:** Early Devonian, Pragian, *kindlei-pireneae* Zones

**Remarks:** Dawson & Orchard 1982

**Collected by:** K.M. Dawson<sup>2</sup>.

80-DY-1793 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087547 (MJO) - (Sapper Fm.) SD1? Unit**

North Lat. & West Long. 63.2681°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5

ramiform elements (0)  
*Belodella* sp. (1)  
*Eognathodus sulcatus kindlei* Lane & Ormiston 1979 (16)  
*Icriodus steinachensis* Al-Rawi 1977 (2)  
*Panderodus* sp. (5)  
*Pandorinellina steinhornensis* (Ziegler 1956) (16)  
*Pelekysgnathus* sp. (all elements) (5)

**Age:** Early Devonian, Pragian, *kindlei-pireneae* Zone.

**Remarks:** The best preserved icriodids correspond to the B morphotype of Klapper and Johnson (1980; J. Pal.), which may range into the lower part of the *pireneae* Zone (Lane and Ormiston, 1979: 54). Dawson and Orchard (1982).

**Collected by:** K.M. Dawson<sup>2</sup>.

80-DY-1794 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087689 (MJO) - (Sapper Fm.) SD1 Unit at the base of the Dsh1b Unit. <1 m of limestone in black siliceous shale.**

North Lat. & West Long. 63.2844°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5

*Panderodus* sp. (2)  
*Pandorinellina* sp. (33)  
*Polygnathus* sp. cf. *P. laticostatus* Klapper & Johnson 1975 (1)  
*Polygnathus* sp. cf. *P. pireneae* Boersma 1974 (2)  
*Polygnathus inversus* Klapper & Johnson 1975 (12)  
*Polygnathus* aff. ex gr. *robusticostatus* Bischoff & Ziegler 1957 (4)

**Age:** Early Devonian, Emsian, ?*inversus* Zone.

**Remarks:** Gordey et al. (1982)

**Collected by:** J.G. Abbott<sup>3</sup>.

81-TOA-13-4. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-087690 (MJO) - 1m of siliceous limestone in black siliceous shale of the Dsh1b Unit 3 m below the lowest barite unit.**

North Lat. & West Long. 63.2672°, 130.5833° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5.5 - 6

*Pelekysgnathus* sp. (2)

*Polygnathus* sp. cf. *P. costatus* Klapper (1)

**Age:** Middle Devonian, Eifelian.  
**Remarks:** C-102288 also given to this collection. Gordey, Abbott & Orchard 1982  
**Collected by:** J.G. Abbott<sup>3</sup>.  
81-GA-15-3. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-086296 (MJO) - (Earn Gp.) Dsh1b Unit**  
North Lat. & West Long. 63.2917°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5  
ramiform elements (30)  
*Pandorinellina exigua exigua* (Philip 1966) (4)  
*Pandorinellina steinhornensis* (Ziegler 1956) (1)  
*Polygnathus inversus* Klapper & Johnson 1975 (3)

**Age:** Early Devonian, Emsian, *inversus-gronbergi* Zone  
**Remarks:** This association was originally determined as *gronbergi* Zone. Dawson & Orchard 1982  
**Collected by:** K.M. Dawson<sup>2</sup>.  
78-DY-403 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087544 (MJO) - (Earn Gp.) Dsh1b? Unit in baritic limestone.**  
North Lat. & West Long. 63.2681°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5 - 6  
ramiform elements (4)  
*Polygnathus linguiformis linguiformis* Hinde 1879  
(1)

**Age:** Middle-Late Devonian, Eifelian-early Frasnian  
**Collected by:** K.M. Dawson<sup>2</sup>.  
80-DY-1790 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087545 (MJO) - (Earn Gp.) Dsh1b? Unit.**  
North Lat. & West Long. 63.2681°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5  
ramiform elements (12)  
*Polygnathus linguiformis linguiformis* Hinde 1879  
(5)

**Age:** Middle-Late Devonian, Eifelian-early Frasnian, *costatus-costatus* Zone to *L. asymmetricus* Zone.  
**Collected by:** K.M. Dawson<sup>2</sup>.  
80-DY-1792 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-089972 (MJO) - (Earn Gp.) Dsh1b Unit, 15 above the base of the unit.**  
North Lat. & West Long. 63.2889°, 130.5333° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5  
*Polygnathus* sp. (1)

**Age:** Middle Devonian-Early Carboniferous (Mississippian), Emsian-Tournaisian.  
**Remarks:** Small specimen with large basal cavity.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
82-TOA-45A-192. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-101958 (MJO) - (Earn Gp.) DMsh2b? Unit.**  
North Lat. & West Long. 63.2750°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI:  
conodont fragment (1)

**Age:** Ordovician-Triassic  
**Collected by:** K.M. Dawson<sup>2</sup>.  
81-DY-1932 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087694 (MJO) - (Earn Gp.) Dsh1b Unit.**  
North Lat. & West Long. 64.9417°, 130.5667° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5.5  
ramiform elements (3)  
*Polygnathus* sp. (2)

**Age:** Probably Middle Devonian  
**Collected by:** K.M. Dawson<sup>2</sup>.  
81-DY-1937 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-102266 (MJO) - (Earn Gp.) Dsh1b Unit.**  
63° 16' N, 130° 42' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 4.5  
*Polygnathus* sp. (1)

**Age:** Middle Devonian-Early Carboniferous.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 6-3. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-087691 (MJO) - (Earn Gp.) Dsh1b Unit.**  
North Lat. & West Long. 63.2681°, 130.5500° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5  
ramiform elements (6)  
*Polygnathus* ex gr. *costatus* Klapper 1971 (2)  
*Polygnathus* ex gr. *linguiformis* Hinde 1879 (2)

**Age:** Middle-Late Devonian, Eifelian-early Frasnian.  
**Remarks:** Dawson & Orchard 1982 ; Irwin & Orchard 1991  
**Collected by:** K.M. Dawson<sup>2</sup>.  
81-DY-1943 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087692 (MJO) - (Earn Gp.) Dsh1b Unit.**  
North Lat. & West Long. 63.2681°, 130.5500° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5  
*Belodella* sp. (2)  
*Polygnathus* ex gr. *varcus* Stauffer 1940 (6)  
*Polygnathus?* *geniculatus* Uyeno 1978 (5)  
*Polygnathus* *linguiformis* *linguiformis* Hinde 1879 (30)  
*Polygnathus* *timorensis* Klapper, Phillip & Jackson 1970 (0)  
ramiform elements (37)  
*Dvorkia* sp. (4)

**Age:** Middle Devonian, Givetian, *varcus* Zone  
**Remarks:** Some specimens on SEM stubs. Dawson & Orchard 1982  
**Collected by:** K.M. Dawson<sup>2</sup>.  
81-DY-1941 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-087693 (MJO) - (Earn Gp.) Dsh1b Unit.**  
North Lat. & West Long. 63.2681°, 130.5500° - N.T.S. 1050 - 07

**Conodont taxa:** CAI: 5

*Icriodus* sp. indet. (1)  
*Polygnathus linguiformis linguiformis* Hinde 1879 (10)  
*Polygnathus linguiformis ?epsilon morphotype*  
Ziegler, Klapper & Johnson (2)  
*Polygnathus timorensis* Klapper, Philip & Jackson 1970 (4)  
ramiform elements (42)

**Age:** Middle Devonian, Givetian  
**Remarks:** Sample taken along strike from DY1937. Dawson & Orchard 1982  
**Collected by:** K.M. Dawson<sup>2</sup>.  
81-DY-1939 Cathy claim. M.J. Orchard Report OF-1992-5.

**GSC Loc. C-102281 (MJO) - (Earn Gp.) DMsh2b Unit**  
63° 17' N, 130° 47' W - N.T.S. 105 O - 07

**Fossils:** conodonts, spicules  
**Conodont taxa:** CAI: 4 - 5  
ramiform elements (24)  
*Ancyrorella* sp. (1)  
*Palmatolepis* sp. (14)  
*Palmatolepis foliacea* Youngquist 1945 (3)  
*Palmatolepis proversa* Ziegler 1958 (3)  
*Palmatolepis rhenana nasuta* Müller 1956 (2)  
*Palmatolepis subrecta* Miller & Youngquist 1947 (1)  
*Polygnathus* sp. (24)

**Age:** Late Devonian, early Frasnian  
**Remarks:** Irwin & Orchard, 1991, pl.2, fig. 13. Two polygnathids & palmatolepid photographed.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 12-6. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-87567 (MJO) - Cl Unit.**  
63° 18' N, 130° 55' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 4 - 5.5  
ramiform elements (15)  
*Cavusgnathus* sp. (2)  
*Gnathodus bilineatus* (Roundy 1926) (1)  
*Gnathodus girtyi collinsoni* Rhodes, Austin & Druce 1969 (2)  
*Gnathodus texanus* Roundy 1926 (2)  
*Idiopriioniodus?* sp. (10)  
*Palmatolepis?* sp. indet. (1)

**Age:** Early Carboniferous (Mississippian), Late Visean  
**Remarks:** *Palmatolepis?* is apparently reworked, implying erosion of Late Devonian strata at this time.  
Nahanni file #416. Gordey, Abbott & Orchard 1982, No. 3.  
**Collected by:** S.P. Gordey<sup>2</sup>, G.S.C., Vancouver.  
81-gga-26a-368m. M.J. Orchard Report OF-1992-25.

**GSC Loc. C-87568 (MJO) & GSC Loc. C-102273 (MJO) - Cl Unit.**  
63° 18' N, 130° 55' W - N.T.S. 105 O - 07

**C-87568**  
**Conodont taxa:** CAI: 5.5 - 6  
ramiform elements (50)  
*Gnathodus bilineatus* (Roundy 1926) (11)  
*Gnathodus girtyi* subsp. cf. *G. g. collinsoni*  
Rhodes, Austin & Druce 1969 (12)  
*Gnathodus girtyi simplex* Dunn 1965 (12)

*Gnathodus texanus* Roundy 1926 (2)  
*Idiopriioniodus* sp. (17)  
*Lochriea* sp. cf. *L. commutata* (Branson & Mehl 1941) (10)  
*Rhachistognathus muricatus* (Dunn 1965) (4)  
*Rhachistognathus prolixus* Baesemann & Lane (3)  
*Siphonodella* sp. (2)

**Age:** Early Carboniferous (latest Mississippian), early  
Namurian, *muricatus* zone

**Remarks:** Siphonodellids (and possibly some others) are presumably  
reworked. Nahanni file #415. Gordey, Abbott & Orchard 1982, No. 2.

**Collected by:** S.P. Gordey<sup>2</sup>  
81GGA-26A-229m. M.J. Orchard Report OF-1992-25.

C-102273

**Fossils:** conodonts, echinoderms  
**Conodont taxa:** CAI: 5 - 5.5  
?*Gnathodus texanus* Roundy 1926 (1)  
ramiform elements (7)  
*Gnathodus bilineatus* (Roundy 1926) (1)  
*Gnathodus girtyi* Hass 1953 (2)  
*Lochriea commutata* (Branson & Mehl 1941) (1)  
*Rhachistognathus prolixus* Baesemann & Lane (2)  
*Idiopriioniodus* sp. (8)

**Age:** Early Carboniferous (Mississippian), late Visean-early, Namurian.

**Remarks:** Recollection of C-087568,<sup>9</sup>

**Collected by:** S.P. Gordey<sup>2</sup> and J.G. Abbott<sup>3</sup>.  
TOA 81 7-4. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-87569 (MJO) - Cl Unit.**  
63° 18' N, 130° 55' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 5 - 5.5  
ramiform elements (15)  
*Gnathodus bilineatus* (Roundy 1926) (3)  
*Gnathodus girtyi* Hass 1953 (10)  
*Idiopriioniodus* sp. (30)  
*Rhachistognathus muricatus* (Dunn) (5)  
*Rhachistognathus prolixus* Baesemann & Lane (1)

**Age:** Early Carboniferous (latest Mississippian), Early Namurian,  
*muricatus* zone

**Remarks:** Nahanni file #414. Gordey, Abbott & Orchard 1982, No.

1.  
**Collected by:** S.P. Gordey<sup>2</sup>  
81-G-GA-26A-119m. M.J. Orchard Report OF-1992-25.

**GSC Loc. C-102272 (MJO) - Cl Unit.**  
63° 18' N, 130° 55' W - N.T.S. 105 O - 07

**Fossils:** conodonts, bryozoans  
**Conodont taxa:** CAI: 5 - 5.5  
?*Rhachistognathus muricatus* (Dunn 1965) (6)  
ramiform elements (5)  
*Gnathodus girtyi* Hass 1953 (22)  
*Gnathodus texanus* Roundy 1926 (1)  
*Idiopriioniodus* sp. (25)  
*Lochriea commutata* (Branson & Mehl 1941) (1)  
*Polygnathus* sp. (1)  
*Pseudopolygnathus* sp. (1)  
*Rhachistognathus prolixus* Baesemann & Lane (1)

*Siphonodella* sp. (1)

Age: Early Carboniferous (Mississippian), late Visean-early, Namurian  
Remarks: Recollection of C-087568, 9. *Siphonodellid*, *pseudopolygnathid* and *Polygnathid* are presumably reworked and imply erosion of early-middle Tournaisian strata.

Collected by: J.G. Abbott<sup>3</sup>.

TOA 81 7-3. M.J. Orchard Report OF-1992-20.

GSC Loc. C-102274 (MJO) - Cl Unit. From the base of the unit which is 50 m thick.  
63° 17.5' N, 130° 55' W - N.T.S. 105 O - 07

Conodont taxa: CAI: 5 - 5.5  
'Hindeodella' *segaformis* Bischoff 1957 (1)  
?Cavusgnathus sp. (1)  
ramiform elements (35)  
*Gnathodus bilineatus* (Roundy 1926) (9)  
*Gnathodus girtyi* Hass 1953 (10)  
*Kladognathus* sp. (4)  
*Polygnathus* sp. (2)  
*Hindeodus* sp. (1)

Age: Early Carboniferous (Mississippian), late Visean-early, Namurian.  
Remarks: Recollection of C-087568, 9. *H. segaformis* and *Polygnathus* are presumably reworked from Tournaisian strata. Gnathodid photographed.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 7-5. M.J. Orchard Report OF-1992-20.

GSC Loc. C-108161 (MJO) & GSC Loc. C-89930 - (Tsichu Fm.) Mqs Unit.  
63° 15' N, 130° 55' W - N.T.S. 105 O - 07

C-89930  
Conodont taxa: CAI: 4 - 5  
*Bispatherodus ex gr. stabilis* (Branson & Mehl 1934) (10)  
*Polygnathus* spp. (9)  
*Siphonodella cooperi* Hass 1959 (1)  
*Siphonodella crenulata* (Cooper 1939) (1)  
*Siphonodella obsoleta* Hass 1959 (1)  
*Siphonodella quadruplicata* (Branson & Mehl 1934) (1)  
ramiform elements (60)  
*Pseudopolygnathus* spp. (4)  
*Siphonodella* spp. (52)

Age: Early Carboniferous (Mississippian), early-middle Tournaisian.  
Remarks: Irwin & Orchard, 1991, pl. 5, fig. 5. Nine siphonodellids photographed.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 83 17-2 & TOA 82 11-483m. M.J. Orchard Report OF-1992-20.

C-108161  
Fossils: conodonts, radiolarians  
Conodont taxa: CAI: 4 - 5  
ramiform elements (100)  
*Bispatherodus ex gr. stabilis* (Branson & Mehl 1934) (26)  
*Polygnathus* spp. (18)  
*Siphonodella crenulata* (Cooper 1939) (6)  
*Elsonella?* sp. (4)  
*Siphonodella* spp. (80)  
*Siphonodella lobata* (Branson & Mehl 1934) (2)  
*Siphonodella quadruplicata* (Branson & Mehl 1934) (35)

Age: Early Carboniferous (Mississippian), early-middle Tournaisian.  
Remarks: Recollection of C-089930. Irwin & Orchard, 1991, pl.5, figs. 3, 9, 10, 14. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-108160 (MJO) & GSC Loc. C-89929 (MJO) - (Tsichu Fm.) Mgs Unit.**  
63° 15' N, 130° 55' W - N.T.S. 105 O - 07

**C-89929**

**Conodont taxa:** CAI: 4 - 5  
ramiform elements (50)  
*Palmatolepis* sp. cf. *P. regularis* Cooper 1931 (2)  
*Palmatolepis glabra acuta* Helms 1963 (2)  
*Palmatolepis glabra lepta* Ziegler & Huddle 1969 (3)  
*Palmatolepis glabra pectinata* Ziegler 1962 morph. 1  
Sandberg & Ziegeler 1973 (9)  
*Palmatolepis glabra prima* Ziegler & Huddle 1969 (3)  
*Palmatolepis glabra* Ulrich & Bassler 1926 subsp. (4)  
*Palmatolepis klapperi* Sandberg & Ziegler 1973 (2)  
*Palmatolepis minuta* subsp. Branson & Mehl 1934 (5)  
*Palmatolepis poolei* Sandberg & Ziegler 1973 (1)  
*Palmatolepis quadratinodosalobata* Sannemann 1955 (1)  
*Palmatolepis superlobata* Branson & Mehl 1934 (5)  
*Polygnathus* sp. (2)

Age: Late Devonian, early middle Famennian, Upper *crepida-rhomboidea* Zone  
Remarks: Total of 100+ conodonts. Irwin & Orchard, 1991.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 83 17-1 & TOA 82 -11-375m. M.J. Orchard Report OF-1992-20.

**C-108160**

**Fossils:** conodonts, ichthyoliths, sphaeromorphs  
**Conodont taxa:** CAI: 4.5  
ramiform elements (25)  
*Palmatolepis crepida* Sannemann 1955 (1)  
*Palmatolepis glabra acuta* Helms 1963 (5)  
*Palmatolepis glabra glabra* Ulrich & Bassler 1926 (10)  
*Palmatolepis glabra lepta* Ziegler & Huddle 1969 (6)  
*Palmatolepis glabra pectinata* Ziegler 1962 (3)  
*Palmatolepis glabra* subsp. Ulrich & Bassler 1926 (2)  
*Palmatolepis klapperi* Sandberg & Ziegler 1973 (10)  
*Palmatolepis minuta* subsp. Branson & Mehl 1934 (1)  
*Palmatolepis poolei* Sandberg & Ziegler 1973 (14)  
*Palmatolepis stoppeli* Sandberg & Ziegler 1973 (1)  
*Palmatolepis subperlobata* Branson & Mehl 1934 (5)  
*Polygnathus* sp. (11)  
'*Icriodus*'? sp. (1)  
coniform element (2)  
*Elsonella* sp. (3)

Age: Late Devonian, early middle Famennian, Upper *crepida* Zone  
Remarks: Faunule is recollection of C-089929. Irwin & Orchard, 1991, pl.3, figs. 8, 9, 13. Barite flowers. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102271 (MJO) - Cl Unit.**  
63° 18' N, 130° 55' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 5 - 5.5  
ramiform elements (5)  
*Gnathodus bilineatus* (Roundy 1926) (7)  
*Gnathodus girtyi* Hass 1953 (17)  
*Gnathodus texanus* Roundy 1926 (2)

*Idioprioniodus* sp. (25)  
*Siphonodella?* sp. indet. (1)  
*Lochrieia commutata* (Branson & Mehl 1941) (1)

**Age:** Early Carboniferous (Mississippian), late Visean-early, Namurian.  
**Remarks:** Recollection of C-087568,9. Siphonodellid is presumably reworked. Gnathodid photographed.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 81 7-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-87566 (MJO) - (Tsichu Fm.) Mqs Unit.**  
63° 18' N, 130° 55' W - N.T.S. 105 O - 07

**Conodont taxa:** CAI: 4.5 - 5

ramiform elements (30)

*Gnathodus girtyi* sp. cf. *G. girtyi* Hass (1)

*Gnathodus girtyi collinsoni* Rhodes, Austin & Druce (4)

*Lochrieia commutata* (Branson & Mehl) (2)

*Rhachistognathus prolixus* Baesmann & Lane (1)

*Vogelgnathus* sp. (1)

**Age:** Early Carboniferous (Mississippian), late Visean

**Remarks:** Nahanni file #419. Gordey, Abbott & Orchard 1982, No. 4.

**Collected by:** S.P. Gordey<sup>2</sup>

81GGA-26A-561m. M.J. Orchard Report OF-1992-25.

N.T.S. Map-area 105 O - 8

**GSC Loc. C-108106 (WHF) - eou Unit.**  
63° 16' N, 130° 25' W - N.T.S. 105 O - 08

archaeocyathid

**Age:** Lower Cambrian.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 83 25-2

**GSC Loc. C-89954 (WHF) - eou Unit.**  
63° 16' N, 130° 05' W - N.T.S. 105 O - 08

archaeocyathid?

**Age:** Lower Cambrian?

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 38-2

**GSC Loc. C-89954 (WHF) - eou Unit.**  
63° 16' N, 130° 06' W - N.T.S. 105 O - 08

*Protospongia* sp.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 38-3

**GSC Loc. C-237726 (BSN) - Rabbitkettle Formation.**  
63° 26' N, 130° 08.5' W - N.T.S. 105 O - 08

dichograptid fragment

?*Clonograptus* sp.

?*Kiaerograptus* sp.

?*Pendeograptus* sp.

**Age:** Early Ordovician, middle Tremadoc to early Arenig.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 2BSN 1993 85-CJA-316-F1

**GSC Loc. C-128338 (GSN) - Rabbitkettle Formation**  
63° 21.5' N, 130° 06.2' W - N.T.S. 105 O - 08

*Drepanodus arcuatus* Pander  
*Variabilocanus bassleri* Furnish  
*Rossodus manitouensis* Repetiski & Ethington  
oistodontiform elements indeterminate

**Age:** Early Ordovician, early to mid Canadian; late Tremadoc R.  
*manitouensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
018GSN1986 84 CJA 351-MF1

**GSC Loc. C-128339 (GSN) - Rabbitkettle? Formation.**  
63° 29' N, 130° 10' W - N.T.S. 105 O - 08

*Microzarkodina* sp.

**Age:** Early to early Middle Ordovician (middle Arenig to Llanvirn).  
**Collected by:** M.P. Cecile<sup>1</sup>.  
018GSN1986 84 CJA 352-MF1

**GSC Loc. C-128327 (BSN) - Rabbitkettle Formation.**  
63° 27.5' N, 130° 06' W - N.T.S. 105 O - 08

*Dictyonema?* sp.

**Age:** Late Cambrian to Carboniferous  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 351 F2

**GSC Loc. C-102303 (MJO) - eou Unit (Rabbitkettle Formation).**  
63° 17' N, 130° 14' W - N.T.S. 105 O - 08

**Fossils:** conodonts, inarticulate brachiopods  
**Conodont taxa:** CAI: 4.5 - 5  
*Cordylodus intermedius* Furnish (24)  
*Eoconodontus notchpeakensis* (Miller 1969) (2)

**Age:** Early Ordovician  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 29-4. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89977 (MJO) - Rabbitkettle Formation at the contact with the**  
**Duo LAke Formation.**  
63° 23' N, 130° 03' W - N.T.S. 105 O - 08

**Conodont taxa:** CAI: 5  
"Scolopodus" quadratus Pander 1856 (1)  
acodiform element (1)  
*Drepanodus arcuatus* Pander 1856 (1)  
*Paroistodus?* sp. (1)

**Age:** Early Ordovician.  
**Remarks:** Pohler & Orchard 1990 (table 8)  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 59-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89916 (BSN) - Rabbitkettle Formation.**  
63° 16' N, 130° 27' W - N.T.S. 105 O - 08

*Clonograptus* 2 spp.  
*goniograptid?* sp.

**Age:** Early to early Middle Ordovician, Tremadoc to Llanvirn,  
possibly late Tremadoc or early Arenig.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 47-5

**GSC Loc. C-237721 (BSN) - ?Rabbitkettle Formation.**  
63° 26' N, 130° 05' W - N.T.S. 105 O - 08

indeterminate debris of spines and/or echinoderm columnals

**Age:** Phanerozoic  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 2 BSN 1993 85-CJA-302-F1

**GSC Loc. C-128329 (BSN) - Duo Lake Formation.**  
63° 29.5' N, 130° 10' W - N.T.S. 105 O - 08

*Climacograptus* sp.  
*Orthograptus* sp.

**Age:** Ordovician, Caradoc to Ashgill  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 352 F2

**GSC Loc. C-128326 (BSN) - Duo Lake Formation.**  
63° 29.4' N, 130° 03' W - N.T.S. 105 O - 08

*Clonograptus* sp.  
*Didymograptus?* sp.  
*Tetragraptus* sp.  
*T. aff. T. approximatus* Nicholson

**Age:** Early Ordovician, probably early Arenig  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 351 F1

**GSC Loc. C-128328 (BSN) - Duo Lake Formation.**  
63° 29.8' N, 130° 11.1' W - N.T.S. 105 O - 08

*Clonograptus* sp.

**Age:** Ordovician, Tremadoc to Llanvirn  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 352 F1

**GSC Loc. C-128330 (BSN) - Duo Lake Formation.**  
63° 26.4' N, 130° 09.6' W - N.T.S. 105 O - 08

*Clonograptus* sp.

**Age:** Ordovician, Tremadoc to Llanvirn  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 351 F3

**GSC Loc. C-237727 (BSN) - Duo Lake Formation.**

63° 25.9' N, 130° 08.5' W - N.T.S. 105 O - 08

inarticulate brachiopod  
*Arachniograptus* sp.  
*Climacograptus* sp.  
*Dicellograptus* ssp.  
? *Glyptograptus* sp.  
*Orthograptus* sp.  
*O. cf O. truncatus abbreviatus* Elles and Wood  
*O. cf O. socialis* (Lapworth)

**Age:** Late Ordovician, Ashgill, *Orthograptus quadrimucronatus* Zone to  
*Dicellograptus ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 2BSN 1993 85-CJA-316-F2

**GSC Loc. C-89909 (BSN) - Duo Lake Formation.**  
63° 16' N, 130° 23' W - N.T.S. 105 O - 08

biserial graptolite  
*Climacograptus?* sp.  
*Monograptus* sp.  
*Rastrites cf. R. approximatus geinitzi* (Törnquist)  
retiolitid

**Age:** Early Silurian, Middle Llandovery.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 21-5

**GSC Loc. C-89910 (BSN) - Duo Lake Formation.**  
63° 17' N, 130° 30' W - N.T.S. 105 O - 08

*Climacograptus? ex gr. C. bicornis* (Hall)

**Age:** late Middle or Late Ordovician.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 22-1

**GSC Loc. C-89957 (BSN) - Duo Lake Formation.**  
63° 17' N, 130° 12' W - N.T.S. 105 O - 08

fragmentary graptolites  
*Orthograptus?* sp.  
*Reteograptus* sp.

**Age:** Late Middle or Late Ordovician.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 41-7

**GSC Loc. C-89958 (BSN) Duo Lake Formation about 4 m below the Sa Unit.**  
63° 18' N, 130° 15' W - N.T.S. 105 O - 08

*Monograptus* sp.  
*M. ex gr. M. spiralis* (Geinitz)

**Age:** latest Early Silurian, Latest Llandovery, *M. spiralis* Zone or  
or *C. sakmaricus* - *lagueus* Zone.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
2-BSN-83 TOA 83 41-3

**GSC Loc. C-89960 (BSN) - Duo Lake Formation.**

63° 18' N, 130° 15' W - N.T.S. 105 O - 08

*Arachniograptus* sp.

*Dicellograptus* sp.

*Leptograptus?* sp.

*Orthograptus* sp.

**Age:** Late Middle to Late Ordovician.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 41-5

**GSC Loc. C-89913 (BSN) - Duo Lake Formation.**

63° 18' N, 130° 15' W - N.T.S. 105 O - 08

biserial graptolites

*Dicellograptus* sp.

*Leptograptus?* sp.

*Reteograptus* sp.

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 81 28-7

**GSC Loc. C-89959 (BSN) - Duo Lake Formation.**

63° 18' N, 130° 15' W - N.T.S. 105 O - 08

*Cyrtograptus* cf. *C. sakmaricus* Koren

*Monograptus* spp.

**Age:** probably latest Early Silurian, latest Llandovery, probably *C. sakmaricus* - *laqueus* Zone.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 41-4

**GSC Loc. C-108108 (BSN) - Duo Lake Formation.**

63° 17' N, 130° 26' W - N.T.S. 105 O - 08

*Monograptus* spp.

*M. ex gr. M. spiralis* (Geinitz)

**Age:** Early Silurian, late Llandovery, probably *M. spiralis* Zone.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 83 25-1

**GSC Loc. C-237723 (BSN) - SD1 Unit.**

63° 27' N, 130° 04.8' W - N.T.S. 105 O - 08

*Monograptus yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *Monograptus yukonensis* Zone.

**Collected by:** M.P. Cecile<sup>1</sup>.

O-D 2BSN 1993 85-CJA-302-F2

**GSC Loc. C-89951 (MJO) - 1m of limestone in Dsh1b Unit 5m above the Duo Lake Formation.**

63° 15' N, 130° 06' W - N.T.S. 105 O - 08

**Fossils:** conodonts, two-hole crinoids

**Conodont taxa:** CAI: 5

ramiform elements (65)

*Belodella* sp. (28)

*Dvorakia* sp. (2)

*Icriodus* sp. (3)  
*Pandorinellina steinhornensis* (Ziegler 1956) (2)  
*Polygnathus* ex gr. *linguiformis* Hinde group (2)  
*Polygnathus trigonicus* Bischoff & Ziegler 1957 (2)  
*Tortodus intermedius* (Bultynck 1966) (10)  
*Polygnathus* ex gr. *costatus* Klapper 1971 (59)

Age: Middle Devonian, Eifelian.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 82 38-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102313 (MJO) - (Sapper Fm.) SD1 Unit.**  
63° 16' N, 130° 20' W - N.T.S. 105 O - 08

**Conodont taxa:** CAI: 5  
?*Polygnathus robusticostatus* Bischoff & Ziegler  
1957 (1)  
ramiform elements (9)  
*Belodella* sp. (4)  
*Icriodus* sp. (1)  
*Polygnathus* ex gr. *costatus* Klapper 1971 (1)  
*Polygnathus* sp. indet. (2)  
*Tortodus intermedius* (Bultynck 1966) (1)

Age: Middle Devonian, probably Eifelian.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 35-2. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-87687 (MJO) - Dv in SD1 Unit.**  
63° 17' N, 130° 23' W - N.T.S. 105 O - 08

**Conodont taxa:** CAI: 5  
ramiform elements (50)  
*Belodella* sp. (3)  
*Icriodus* ex gr. *expansus* Branson & Mehl (1)  
*Pandorinellina?* sp. indet. (1)  
*Polygnathus* ex gr. *robusticostatus* Bischoff &  
Ziegler 1957 (3)  
*Polygnathus costatus* Klapper group (1)  
*Polygnathus linguiformis linguiformis* Hinde 1879 (6)  
*Polygnathus trigonicus* Bischoff & Ziegler 1957 (1)  
*Tortodus kockelianus* Bischoff & Ziegler 1957 (2)

Age: Middle Devonian, middle Eifelian-early Givetian, *australis-ensensis*  
Zone.  
Remarks: C-102308 is alternative number. Gordey et al. 1982, no. 22.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 31-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-89962 (MJO) - Carbonate/baritic carbonate in Dsh1b Unit.**  
63° 16' N, 130° 12' W - N.T.S. 105 O - 08

**Fossils:** conodonts, two-hole crinoids  
**Conodont taxa:** CAI: 5  
?*Polygnathus angustipennatus* Bischoff & Ziegler 1957 (1)  
?*Tortodus obliquus* (Bultynck 1966) (2)  
ramiform elements (35)  
*Icriodus* sp. (1)  
*Polygnathus* ex gr. *costatus* Klapper 1971 (27)  
*Polygnathus* sp. cf. *laticostatus* Klapper &  
Johnston 1975 (6)  
*Polygnathus parawebbi* Chatterton 1978 (3)

**Age:** Middle Devonian, Eifelian.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 42-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-102309 (MJO) - (Earn Gp.) Dshlb Unit.**  
North Lat. & West Long. 63° 28' 33" - N.T.S. 105° 0' 08"

**Conodont taxa:** CAI: 5  
ramiform elements (1)  
*Icriodus* sp. (2)  
*Polygnathus ex gr. costatus* Klapper 1971 (1)

**Age:** Middle Devonian.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
81-GA-31-1. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-87685 (MJO) - (Earn Gp.) DMsh2b Unit**  
63° 15' N, 130° 28' W - N.T.S. 105 O - 08

**Conodont taxa:** CAI: 5 - 5.5  
*Palmatolepis glabra distorta* Branson & Mehl 1934 (19)  
*Palmatolepis glabra lepta* morph. 1 Ziegler & Huddle 1969 (3)  
*Palmatolepis glabra lepta* morph. 2 Ziegler & Huddle 1969 (6)  
*Palmatolepis glabra pectinata* Ziegler 1962 (4)  
*Palmatolepis gracilis gracilis* Branson & Mehl 1934 (2)  
*Palmatolepis marginifera marginifera* Helms 1959 (7)  
*Palmatolepis perlobata schindewolfi* Müller 1956 (2)  
*Palmatolepis quadratinodosa inflexa* Ziegler 1962 (1)  
*Polygnathus* sp. (5)  
ramiform elements (5)

**Age:** Late Devonian, Middle Famennian, *marginifera* Zone  
**Remarks:** Gordey et al. 1982, no. 20. Irwin & Orchard 1991, pl.3, fig. 15.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 11-8. M.J. Orchard Report OF-1992-20.

**GSC Loc. C-108159 (MJO) - (Earn Gp.) DMsh2b Unit.**  
63° 15' N, 130° 28' W - N.T.S. 105 O - 08

**Fossils:** conodonts, spicules, radiolarians  
**Conodont taxa:** CAI: 5  
ramiform elements (30)  
*Palmatolepis glabra acuta* Helms 1963 (2)  
*Palmatolepis glabra distorta* Branson & Mehl 1934 (43)  
*Palmatolepis glabra lepta* Ziegler & Huddle 1969 (7)  
*Palmatolepis glabra lepta* Ziegler & Huddle, morph. 2 (14)  
*Palmatolepis glabra pectinata* Ziegler 1962 (35)  
*Palmatolepis glabra prima* Ziegler & Huddle 1969 (4)  
*Palmatolepis gracilis gracilis* Branson & Mehl 1934 (3)  
*Palmatolepis marginifera marginifera* Helms 1959 (35)  
*Palmatolepis perlobata schindewolfi* Müller 1956 (17)  
*Palmatolepis quadratinodosa inflexa* Müller 1956 (1)  
*Palmatolepis quadratinodosa inflexoidea* Ziegler 1962 (1)  
*Palmatolepis rugosa trachytera* Ziegler 1960 (6)  
*Polygnathus* sp. (8)  
coniform element (3)  
*Elsonella* sp. (6)

**Age:** Late Devonian, middle Famennian, *marginifera* Zone  
**Remarks:** Some photographed. Recollection of C-0 87685. Irwin & Orchard,

1991, pl. 4, figs. 3, 9, 12, 15, 16. Fused pairs.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 83 15-2. M.J. Orchard Report OF-1992-20.

N.T.S. Map-area 105 P - 4 Adjacent to 105 O - 1

GSC Loc. C-89917 (BSN) - Duo Lake Formation.  
63° 13' N, 129° 56' W - N.T.S. 105 P - 04

*Dicellograptus* sp.  
*Orthograptus* cf. *O. calcaratus* (Lapworth)

Age: late Middle Ordovician, Caradoc.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 49-8

GSC Loc. C-102321 (MJO) - (Earn Gp.) DMsh2 Unit  
63° 00' N, 129° 54' W - N.T.S. 105 P - 04

Conodont taxa: CAI: 5  
ramiform elements (37)  
*Ancyrorella ioides* Ziegler 1958 (1)  
*Palmatolepis* sp. (20)  
*Palmatolepis rhenana nasuta* Muller 1956 (4)  
*Polygnathus* sp. (9)  
Age: Late Devonian, middle Frasnian  
Remarks: OF-1992-20 (29/8/92) Irwin & Orchard 1991  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 40-11

GSC Loc. C-087557 (MJO) - (Earn Gp.) DMsh2 Unit  
63° 00' N, 129° 55' W - N.T.S. 105 P - 04

Conodont taxa: CAI: 5  
ramiform elements (4)  
*Ancyrorella nodosa* Ulrich & Bassler 1926 (1)  
*Klapperina ovalis* (Ziegler & Klapper 1964) (5)  
*Palmatolepis rhenana nasuta* Muller 1956 (1)  
*Polygnathus* sp. (7)  
*Elsonella* sp. (2)

Age: Late Devonian, middle Frasnian, *Ancyrognathus triangularis*  
Remarks: OF-1992-20 (29/8/92) Irwin & Orchard, 1991. Gordey, Abbott &  
Orchard 1982.  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 40-10

GSC Loc. C-102322 (MJO) - (Earn Gp.) DMsh2 Unit  
63° 00' N, 129° 53' W - N.T.S. 105 P - 04

Conodont taxa: CAI: 5 - 5.5  
ramiform elements (3)  
*Palmatolepis* sp. indet. (2)

Age: Late Devonian.  
Remarks: OF-1992-20 (29/8/92)  
Collected by: J.G. Abbott<sup>3</sup>.  
TOA 81 40-12

GSC Loc. C-102320 (MJO) - (Earn Gp.) DMsh2 Unit  
63° 03' N, 129° 55' W - N.T.S. 105 P - 04

**Conodont taxa:** CAI: 5  
ramiform elements (9)  
*Palmatolepis* sp. (2)  
*Polygnathus* sp. (4)

**Age:** Late Devonian, probably Frasnian  
**Remarks:** OF-1992-20 (29/8/92) One polygnathid photographed.  
Irwin & Orchard 1991  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 40-8

**GSC Loc. C-87563 (MJO) - (Tsichu Fm.) Mqs? Formation.**  
63° 02' N, 129° 50' W - N.T.S. 105 P - 04

**Conodont taxa:** CAI: 5  
*Gnathodus?* sp. (5)  
*Idiopriioniodus* sp. (10)  
*Polygnathus communis* Branson & Mehl 1934 (5)  
*Pseudopolygnathus oxypageous* morphotype 2 Lane, Sandberg & Ziegler (7)  
ramiform elements (70)  
**Age:** Early Carboniferous, Tournaisian  
**Remarks:** OF-1992-20 (29/8/92) Irwin & Orchard, 1991, pl.5, fig. 15.  
Gordey, Abbott & Orchard 1982.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 81 40-2

**N.T.S. Map-area 105 P - 5 Adjacent to 105 O - 8**

**GSC Loc. C-89990 (BSN) - Rabbitkettle Formation.**  
63° 24' N, 129° 59' W - N.T.S. 105 P - 05

*Adelograptus?* sp.

**Age:** probably Early Ordovician, probably Tremadoc to earliest  
Arenig.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
TOA 82 49-3

**GSC Loc. C-108195 (BSN) - Duo Lake Formation**  
63° 25.5' N, 129° 57.5' W - N.T.S. 105 P - 05

*Dichograptus* sp.  
*Tetragraptus* sp.

**Age:** Early Ordovician, Arenig, *T. fruticosus* Zone to *I. victoriae* Zone.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
5BSN93 TOA 82 48-4

**GSC Loc. C-108196 (BSN) - Duo Lake Formation about 5 m above the  
Rabbitkettle? Formation.**  
63° 25.7' N, 129° 59' W - N.T.S. 105 P - 05

*Dichograptus* sp.  
*Didymograptus* (*Expansograptus*) sp.  
*?Holmograptus* sp.

**Age:** Early Ordovician, Arenig, *T. fruticosus* Zone to *I. victoriae* Zone.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
5BSN93 TOA 82 48-5

**GSC Loc. C-89988 (BSN) - Duo Lake Formation..**  
63° 25' N, 129° 55' W - N.T.S. 105 P - 05

*Cyrtograptus* sp.

*Monograptus* spp.

*M. ex gr. M. spiralis* (Geinitz)

*Retiolites* sp.

**Age:** Latest Early Silurian, Latest Llandovery, *M. spiralis* Zone or  
*C. sakmaricus* - *C. laqueus* Zone.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 41-3

**GSC Loc. C-89989 (BSN) - SD1 Unit.**

63° 24' N, 129° 59' W - N.T.S. 105 P - 05

*Monograptus yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *M. yukonensis* Zone.

**Collected by:** J.G. Abbott<sup>3</sup>.

TOA 82 49-1

**COLLECTIONS FROM THE SOUTHWEST PART OF NIDDERY LAKE 105 - O**

**N.T.S. Map-area 105 O - 3**

**GSC Loc. C-237728 (BSN) - 1D1 Unit.**

63° 09.5' N, 131° 08' W - N.T.S. 105 O - 03

*Monograptus yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *Monograptus yukonensis* Zone.

**Collected by:** M.P. Cecile<sup>1</sup>.

O-D 2BSN 1993 85-CJA-308-F1

**GSC Loc. C-237722 (BSN) - 1D1 Unit.**

63° 10.2' N, 131° 12.5' W - N.T.S. 105 O - 03

Lithology 1

undetermined globular fossils

*Monograptus yukonensis* Jackson and Lenz

Lithology 2

echinoderm columnals with twin axial canals

**Age:** Early Devonian, Pragian, *Monograptus yukonensis* Zone.

**Collected by:** M.P. Cecile<sup>1</sup>.

O-D 2BSN 1993 85-CJA-308-F1

**GSC Loc. C-237724 (AWN) - 1D1 Unit.**

63° 10.2' N, 131° 12.5' W - N.T.S. 105 O - 03

colonial corals - to A.E.H. Pedder for study

*Gasterocoma? bicula* Johnson and Lane, 1969

echinoderm ossicle with cross-like axial canal

echinoderm ossicle with single axial canal

*Biconostrophia knorensis* Perry, 1979

*Variatrypa?* (*Radiatrypa*) sp. of Perry, 1979

Early Devonian, late Zlichovian, *Carinatina lowtherensis* Fauna of Pedder and Klapper (1977).

**Collected by:** M.P. Cecile<sup>1</sup>.

1AWN93 - 85-CJA-308-F2

**N.T.S. Map-area 105 O - 4**

**GSC Loc. C-128308 (BSN) - Sa Unit.**  
63° 08.6' N, 131° 49.5' W - N.T.S. 105 O - 04

*Linograptus* sp.  
*Bohemograptus* cf. *B. boemicus* tenuis  
Boucek

**Age:** Late Silurian, Ludlow, probably *M. leintwardinensis primus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 316.7 F1

**GSC Loc. C-128309 (BSN) - Sa Unit**  
63° 05' N, 131° 48' W - N.T.S. 105 O - 04

*Monograptus* sp.

**Age:** Probably Late Silurian to Early Devonian, probably Ludlow to Pragian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 318.5 F1

**GSC Loc. C-128358 (TTU) - tDMsh+CPa Unit.**  
63° 09.1' N, 131° 38.8' W - N.T.S. 105 O - 04

a single small indeterminate fragment of a ramiform element

**Age:** indeterminate.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
6 TTU 1986 84 CJA 320.3MF1

**GSC Loc. C-128359 (TTU) - Trs Unit.**  
63° 07' N, 131° 34' W - N.T.S. 105 O - 04

Barren of microfossils.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
TTU 1986 84 CJA 321.4MF1

**GSC Loc. C-128357 (TTU) - From five meters of limestone in shale from within a zone mapped as tDMsh2+CPa Unit. Just to north are outcrops of the Trs Unit. Suggestion is that there is a basal Trs Unit of shale with limestone.**  
63° 08.2' N, 131° 39.8' W - N.T.S. 105 O - 04

*Neogondolella navicula navicula* (Huckriede)  
*N. polygnathiformis* (Budurov and Stefanov)

**Age:** late Middle to early Late Triassic, Ladinian to Karnian, Sutherlandi to Nansenii Zones, according to Mosher(1970,73).  
**Collected by:** M.P. Cecile<sup>1</sup>.  
6 TTU 1986 84 CJA319.15MF1

#### N.T.S. Map-area 105 O - 5

**GSC Loc. C-128354 (GSN) - limestone from 1ea? Unit.**  
63° 21.5' N, 131° 31.8' W - N.T.S. 105 O - 05

Barren of microfossils.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
018GSN1986 84 CJA 308.1MF1

**GSC Loc. C-128352 (GSN) - limestone from E01 Unit.**

63° 25.9' N, 131° 59.2' W - N.T.S. 105 O - 05

Barren of microfossils.  
Collected by: M.P. Cecile<sup>1</sup>.  
018GSN1986 84 CJA 302.2MF2

GSC Loc. C-128351 (GSN) - limestone from e01 Unit.  
63° 25.9' N, 131° 59.2' W - N.T.S. 105 O - 05

Barren of microfossils.  
Collected by: M.P. Cecile<sup>1</sup>.  
018GSN1986 84 CJA 302.2MF1

GSC Loc. C-128353 (GSN) - lm0c Unit (limestone in argillite)  
63° 25.5' N, 131° 47.2' W - N.T.S. 105 O - 05

?Parapriioniodus sp.  
Periodon sp.  
platform element fragment  
scandodontiform element indeterminate

Age: late Early to Middle Ordovician (Arenig-Llandeilo).  
Collected by: M.P. Cecile<sup>1</sup>.  
018GSN1986 84 CJA 306.3MF1

GSC Loc. C-128303 (BSN) - mu0c Unit.  
63° 24.8'N, 131° 59.9'W - N.T.S. 105 O - 05

Climacograptus? sp.  
Dicellograptus? sp.  
Orthograptus cf. O. truncatus strigosus Ross and Berry  
Reteograptus sp.

Age: Ordovician, Caradoc  
Collected by: M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84CJA 302.5 F3

GSC Loc. C-128304 (BSN) - mu0c Unit.  
63° 26.1' N, 131° 55' W - N.T.S. 105 O - 05

Dicellograptus sp.  
Orthograptus cf. O. calcaratus grandis (Ruedemann)

Age: Ordovician, latest Caradoc to Ashgill  
Collected by: M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 303.4 F1

GSC Loc. C-128301 (BSN) - mu0c Unit.  
63° 25.5'N, 131° 59.8'W, - N.T.S. 105 O - 05

Climacograptus? sp.  
Orthograptus? sp.  
Reteograptus? sp.

Age: Ordovician, Caradoc to Ashgill  
Collected by: M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84CJA 302.4 F1

GSC Loc. C-128305 (BSN) - mu0c Unit.  
63° 23' N, 131° 49.2' W - N.T.S. 105 O - 05

Climacograptus? sp

*Dicellograptus* 2 spp.  
*Orthograptus* 2 spp.

Age: Ordovician, Caradoc to Ashgill  
Collected by: M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 308.5 F1

GSC Loc. C-128302 (BSN) - Sa Unit.  
63° 24.8' N, 131° 59.9' W, - N.T.S. 105 O - 05

*Monograptus* 3 spp.  
*M. ex gr. M. spiralis* (Geinitz) or cf. *M. turriculatus* (Barrande)  
*Pseudoplegmatograptus* sp.

Age: Early Silurian, Late Llandovery  
Collected by: M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84CJA 302.5 F2

GSC Loc. C-128306 (BSN) - Dsc unit???  
63° 20' N, 132° 04' W - Adjacent to N.T.S. 105 O - 05 (in 105 N-8)  
*Monograptus ex gr. M. yukonensis* Jackson and Lenz

Age: Early Devonian  
Collected by: M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 311 F1

GSC Loc. C-128355 (GSN) - This identification notes a map assignment problem. This small isolated chert outcrop was originally mapped as 1mOc. This chert will be redesignated as Cpa Unit and the 1Ca mapped underneath must also be redesignated.  
63° 26.6' N, 131° 40.9' W - N.T.S. 105 O - 05

*Neogondolella* sp.  
?Neostreptognathodus sp.  
*Ozarkodina* sp. s.f.

Age: probably Permo-Triassic.  
Collected by: M.P. Cecile<sup>1</sup>.  
018GSN1986 84 CJA 307.9MF1

#### N.T.S. Map-area 105 O - 6

GSC Loc. C-237729 (BSN and AWN) - Sa Unit.  
63° 17' N, 131° 06.9' W - N.T.S. 105 O - 06

*Monograptus yukonensis* Jackson and Lenz, 1963 (BSN)  
*Nowakia acuaria* (Richter, 1854)  
*Styolina* sp.

Age: middle-Early Devonian, Pragian, *Nowakia acuaria* Zone of Lutke (1979)  
Collected by: M.P. Cecile<sup>1</sup>.  
1AWN93 - 85-CJA-325-F1

GSC Loc. C-128336 (TTU) - tDsh1 Unit.  
63° 22.1' N, 131° 12.5' W - N.T.S. 105 O - 06

*Belodella* sp.  
*Pandorinellina* cf. *P. steinhornensis* (Ziegler) (single fragmentary Pa)  
*Polygnathus linguiformis* cf. *bulytyncki* Weddige  
*P. serotinus* Telford  
*Pseudooneotodus* sp.

**Age:** late Early to early Middle Devonian *serotinus* to *costatus* Zones, late Emsian to early Eifelian; if *P. steinhorncensis* is truly present, then *serotinus* Zone of late Emsian age.

**Collected by:** M.P. Cecile<sup>1</sup>.  
6 TTU 1986 84 CJA 344 MF2

**GSC Loc. C-128335 (C.M. Henderson)** - Mc Unit - only occurrence need to redesignate as the CPC (Carboniferous - Permian chert). Need to compare this to chert at C - 128355 on trend in adjacent map area.  
63° 21.3' N, 131° 13.6' W - N.T.S. 105 O - 06

*Neogondolella* spp.  
*Adetognathus* cf. *A. laetus*  
*Protognathodus?* sp.  
*Idiognathoides* sp.  
indeterminate ramiform elements

**Age:** Early Permian; probably late Early Permian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
03 CMH1986 84 CJA 344 MF1

**GSC Loc. C-102315 (MJO)** - (Sapper Fm.) SD1 Unit.  
63° 17' N, 131° 07' W - N.T.S. 105 O - 06

**Conodont taxa:** CAI: 5  
ramiform elements (19)  
*Belodella* sp. (2)  
*Panderodus* sp. (2)  
*Polygnathus laticostatus* Klapper & Johnston 1975 (2)  
*Polygnathus serotinus* Telford 1975 (11)

**Age:** Middle Devonian, Late Emsian.  
**Collected by:** J.G. Abbott<sup>3</sup>.  
GA 81 36-3. M.J. Orchard Report OF-1992-20.

#### COLLECTIONS FROM THE NORTHWEST PART OF NIDDERY LAKE 105 - O

##### N.T.S. Map-area 105 O - 11

**GSC Loc. C-128317 (BSN)** - Sa Unit (1 m from C-128318).  
63° 38.8' N, 131° 03.2' W - N.T.S. 105 O - 11

*Monograptus* sp.  
*Cyrtograptus* cf. *C. sakmaricus* Koren

**Age:** Early Silurian, probably latest Llandovery probably *C. sakmaricus* - *C. laqueus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 328.7 F2

**GSC Loc. C-128318 (BSN)** - Sa Unit (1 m from C-128317).  
63° 38.8' N, 131° 03.2' W - N.T.S. 105 O - 11

*Monograptus* sp.  
*Cyrtograptus* sp.

**Age:** Early Silurian, latest Llandovery or Wenlock  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 328.7 F3

**GSC Loc. C-128322 (BSN)** - Sa Unit.  
63° 37' N, 131° 12' W - N.T.S. 105 O - 11

*Monograptus* sp.

*M. ex gr. M. spiralis* (Geinitz)

Age Early Silurian, Late Llandovery, *M. spiralis* Zone

Collected by: M.P. Cecile<sup>1</sup>.

CD 11BSN84 84 CJA 332.3 F1

GSC Loc. C-128324 (BSN) - Sa Unit.

63° 33.5' N, 131° 27.1' W - N.T.S. 105 O - 11

*Monograptus* 3 spp.

*M. ex. gr. M. spiralis* (Geinitz) or *Cyrtograptus* sp.

*Retiolites* cf. *R. geinitzianus angustidens* Elles and Wood

Age: Silurian, probably Late Llandovery

Collected by: M.P. Cecile<sup>1</sup>.

CD 11BSN84 84 CJA 335.1 F1

GSC Loc. C-128325(BSN) - Sa Unit.

63° 35.8' N, 131° 15.6' W - N.T.S. 105 O - 11

*Cyrtograptus?* sp.

*Monograptus?* sp.

*Retiolites* sp.

Age: Early Silurian, Wenlock or Late Llandovery

Collected by: M.P. Cecile<sup>1</sup>.

CD 11BSN84 84 CJA 339 F1

GSC Loc. C-119544 (BSN) - Sa Unit.

63° 35.8' N, 131° 15.6' W - N.T.S. 105 O - 11

*Monograptus* sp.

*M. ex gr. M. spiralis* (Geinitz)

Age: Early Silurian, Late Llandovery.

Collected by: M.P. Cecile<sup>1</sup>.

CS 6 BSN84 CJA HS 105 F1

GSC Loc. C-128314 (BSN) - Sa Unit (a few meters from C-128315,6).

63° 40' N, 131° 04.4' W - N.T.S. 105 O - 11

*Monograptus* 2spp.

*M. ex gr. M. spiralis* (Geinitz) or

*Cyrtograptus* sp.

*C. laqueus* Jackson and Etherington

Age: Early Silurian, latest Llandovery, *C. sakmaricus* - *C. laqueus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

CD 11BSN84 84 CJA 326.8 F1

GSC Loc. C-128315 (BSN) - Sa Unit (2 m from C-128316).

63° 40' N, 131° 04.4' W - N.T.S. 105 O - 11

*Abiesgraptus* sp.

*Monograptus* cf. *M. transgrediens praecipuus* Přibyl

Age: early Early Devonian, early Lockhovian; or possibly latest

Pridolian (Late Silurian)

Collected by: M.P. Cecile<sup>1</sup>.

CD 11BSN84 84 CJA 326.8 F2

**GSC Loc. C-128316 (BSN) - Sa Unit** (2 m from C-128315).  
63° 40' N, 131° 04.4' W - N.T.S. 105 O - 11

*Monograptus* sp.  
*M. ex gr. M. spiralis* (Geinitz)  
*Retiolites* sp.

**Age:** Early Silurian, Late Llandovery, *M. spiralis* Zone  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 326.8 F3

**GSC Loc. C-128323 (BSN) - Sa Unit.**  
63° 36.6' N, 131° 22' W - N.T.S. 105 O - 11

*Monograptus* 2 spp.

**Age:** Early Silurian to Early Devonian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 333.4 F1

**GSC Loc. C-128320 (BSN) - Dcs Unit.**  
63° 41.1' N, 131° 05' W - N.T.S. 105 O - 11

*Monograptus cf. M. uniformis* Přibyl

**Age:** probably Early Devonian, early Lochkovian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CD 11BSN84 84 CJA 329.10F1

**N.T.S. Map-area 105 O - 12**

**GSC Loc. C-119593 (HJH) - lEma Unit.**  
63° 32.7' N, 131° 56.2' W - N.T.S. 105 O - 12

*Planolites* spp.  
*Oldhamia curvata* Lindholm & Casey  
*Olhamia radiata* Forbes  
**Age:** Probably Early Cambrian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
83 CJA 31.1 TF1

**GSC Loc. C-119542 (AWN) - tDMc Unit.**  
63° 36.1' N, 131° 57.6' W - N.T.S. 105 O - 12

*Nuculoidea* sp. cf. *N. corbuliformis* (Hall and Whitfield)  
*Lyriopecten* sp. cf. *L. anomiaeformis* Hall  
also dark veriform structures (HJH - C-119592)  
**Age:** early Late Devonian (about middle to late Frasnian).  
**Collected by:** M.P. Cecile<sup>1</sup>.  
4 AWN 1983 83 CJA 30-F1

**N.T.S. Map-area 105 O - 13**

One collection. Much of the map-area Proterozoic.

**GSC Loc. C-119591 (HJH) - lEA Unit.**  
63° 55.6' N, 131° 42.8' W - N.T.S. 105 O - 13  
U.T.M. Zone 9V 367 250E, 7 091 550N.

*Planolites* sp.  
inorganic crescents

83CJA 17.6- F1

N.T.S. Map-area 105 O - 14

**GSC Loc. C-119583,4 (HJH) - lema Unit.**  
63° 58' N, 131° 10.1' W - N.T.S. 105 O - 14

*Planolites* sp.

**Age:** Probably Early Cambrian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
83 CJA 01.1 F1

**GSC Loc. C-119594 (HJH) - lema Unit.**  
63° 56.5' N, 131° 13.6' W - N.T.S. 105 O - 14  
U.T.M. Zone 9V 390 600E, 7 092 250N.

*Planolites* sp.  
nondescript dark markings

83CJA-HS 202.2- F1 Collected by Hans Smit

**GSC Loc. C-119595 (HJH) - lema? Unit.**  
63° 58.9' N, 131° 13.3' W - N.T.S. 105 O - 14  
U.T.M. Zone 9V 391 300E, 7 096 700N.

*Planolites* sp.

83CJA 01- F2 Collected by Hans Smit

**GSC Loc. C-119590 (HJH) - lema Unit.**  
63° 55.4' N, 131° 29.5' W - N.T.S. 105 O - 14

*Helminthorhaphe* sp. cf. *H. saltensis* (Aceñolaza & Durand)  
*Planolites* spp.  
inorganic crescents

**Collected by:** M.P. Cecile<sup>1</sup>.  
83 CJA 15.4 F1

**GSC Loc. C-119588 - (HJH) - lema Unit.**  
63° 48.8' N, 131° 20' W - N.T.S. 105 O - 14

*Oldhamia flabellata* Aceñolaza & Durand  
*Planolites* spp.

**Age:** Lower Cambrian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
CJA 11.10 F2

**GSC Loc. C-119585 (HJH) - lea Unit.**  
63° 55.4' N, 131° 12.3' W - N.T.S. 105 O - 14  
U.T.M. Zone 9V 391 800E, 7 090 450N.

*Planolites* sp.

83CJA 04.4- F1

**GSC Loc. C-119587 (HJH) - lea Unit.**  
63° 48.7' N, 131° 19.8' W - N.T.S. 105 O - 14  
U.T.M. Zone 9V 385 250E, 7 077 800N.

*Planolites* sp.

83CJA 011.4 F1

**GSC Loc. C-119586 (HJH) - 1ea Unit.**  
63° 51.7' N, 131° 07.7' W - N.T.S. 105 O - 14

*Planolites* sp.

hemispheroidal protuberances (bottoms of *Skolithos*??)

**GSC Loc. C-119578 (GSN) - 1ea Unit.**  
63° 51' N, 131° 07.9' W - N.T.S. 105 O - 14

Barren of microfossils.

Collected by: M.P. Cecile<sup>1</sup>.  
003GSN1984 83 CJA 08.5 MF1

**GSC Loc. C-119543 (BSN) - 6v Unit.**  
63° 55.9' N, 131° 14.5' W - N.T.S. 105 O - 14

archaeocyathid fragment

Age: Early Cambrian.  
J.G. Abbott<sup>3</sup> and M.P. Cecile<sup>1</sup>

CS 6 BSN84 83 CJA 50 F1

**GSC Loc. C-119539-B (BSN) - 1mOc Unit.**

63° 50.5' N, 131° 04.8' W - N.T.S. 105 O - 14

*Clonograptus* sp.

*Tetragraptus?* sp.

*Ceratiocaris?* sp.

Age: Early Ordovician, late Tremadoc to Arenig; probably  
*A. antiquus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.  
CS 6 BSN84 83 CJA 07.5 F1

**GSC Loc. C-119545 (BSN) - 1mOc Unit.**

63° 51.8' N, 131° 05.7' W - N.T.S. 105 O - 14

*Clonograptus* sp.

*Dichograptus* cf. *D. octobrachiatus* Hall

*Didymograptus* cf. *D. extensus* (Hall)

*Phyllograptus* sp.

*Tetragraptus fruticosus* (Hall) - 4 branched form

*Caryocaris* sp.

Age: Early Ordovician, early Arenig, *T. fruticosus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.  
CS 6 BSN84 83 CJA 203.2 F1

**GSC Loc. C-119540 (BSN) - muOc Unit.**

63° 51.3' N, 131° 05' W - N.T.S. 105 O - 14

*Climacograptus* 2spp.

*Dicellograptus* 2spp.

*Leptograptus* cf. *L. flaccidus* Elles and Wood

*Orthograptus* sp.

*Reteograptus* cf. *R. pulcherrimus* Keble and Harris

Age: late Middle Ordovician, Caradoc, probably *O. quadrimucronatus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
CS 6 BSN84 83 CJA 07.8 F3

GSC Loc. C-119541 (BSN) - muOc Unit.  
63° 53.8' N, 131° 08.8' W - N.T.S. 105 O - 14

*Climacograptus?* sp.  
*Dicranograptus?* sp.  
*Leptograptus* sp.  
*Orthograptus* sp.  
*Reteograptus?* sp.

Age: Middle Ordovician, Caradoc.  
Collected by: M.P. Cecile<sup>1</sup>.  
CS 6 BSN84 83 CJA 09.3 F1

GSC Loc. C-119539-A (BSN) - muOc Unit.  
63° 50.7' N, 131° 04.6' W - N.T.S. 105 O - 14

*Climacograptus* sp.  
*Dicellograptus* sp.  
*Orthograptus* sp.

Age: Middle or Late Ordovician, Caradoc or Ashgill.  
Collected by: M.P. Cecile<sup>1</sup>.  
CS 6 BSN84 83 CJA 07.6 F2

#### COLLECTIONS FROM THE NORTHEAST PART OF NIDDERY LAKE 105 - O

##### N.T.S. Map-area 105 O - 9 and adjacent 105 P - 12

###### Section 9

GSC Loc. C-89107 (TTU) - D3b,c Unit 80 m below DMsh and 250 m above the  
Natla (Dnf) Formation.  
63° 38.2' N, 130° 02.5' W - N.T.S. 105 O - 09

*Gnathodus* sp., probably *G. texanus* Roundy

Age: probably Early Mississippian, probably Visean.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 9-4 was to be re-examined by A.C. Higgins but no report.

###### Section 10

GSC Loc. C-89110 (RST) - Rabbitkettle Formation, chips over 50-70 m  
interval above the Hess River Formation.  
63° 37.5' N, 130° 04.6' W - N.T.S. 105 O - 09

Barren of conodonts, some sponge spicules  
Collected by: M.P. Cecile<sup>1</sup>.  
1 RST 1981 80 CJA 10-8

GSC Loc. C-89109 (RST) - Rabbitkettle Formation, chips over 30-50 m  
interval above the Hess River Formation.  
63° 37.5' N, 130° 04.6' W - N.T.S. 105 O - 09

Barren of conodonts, some sponge spicules  
Collected by: M.P. Cecile<sup>1</sup>.

1 RST 1981 80 CJA 10-7

GSC Loc. C-89108 (RST) - Rabbitkettle Formation, chips over 10-30 m interval above the Hess River Formation.  
63° 37.5' N, 130° 04.6' W - N.T.S. 105 O - 09

Barren of microfossils.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 RST 1981 80 CJA 10-6

### Section 11

GSC Loc. C-89053 (BSN) - Duo Lake Formation, 17 m above the Rabbitkettle Formation.  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

*Caryocaris* sp.  
*Dichograptus?* sp.  
*Didymograptus* 2 spp. extensiform)  
*Phyllograptus anna* Hall  
*Tetragraptus approximatus* Nicholson  
*T. fruticosus* (Hall) 3 and 4 stiped forms  
*T. cf. T. quadibrachiatus* (Hall)

Age: Early Ordovician, Arenig, high in *T. fruticosus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 204-2 and 17 m Section 11

GSC Loc. C-89054 (BSN) - Duo Lake Formation 83m above the Rabittkettle Formation.  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

*Amplexograptus?* sp.  
*Climacograptus ex gr. C. bicornis* (Hall)  
*Dicellograptus* sp.  
*Dicranograptus* sp.  
*Glossograptus* sp.

Age: Middle Ordovician, Llandeilo or early Caradoc, *C. bicornis* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 204-3 and 83 m in section 11

GSC Loc. C-89111 (TTU) - Duo Lake Formation, at 111 m above the base.  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

"*Neoprioniodus*" *planus* Walliser  
*Walliserodus* sp.  
*Dapsilodus* sp.  
(?)*Ozarkodina confluens* (Branson & Mehl) (?)alpha morphotype of Klapper & Murphy (1975)

Age: late Llandovery, late Early Silurian; probably *inconstans* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 11-8

GSC Loc. C-89090 (BSN) - Duo Lake Formation, 110-111 m above the RABittkettle Formation.  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

indeterminate biserial and uniserial(?)  
graptolites

Age: Ordovician or Silurian.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 11-9

GSC Loc. C-89091 (BSN) - Duo Lake Formation, just off section ~112-114 m  
above the Rabbitkettle Formation.  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

*Climacograptus* sp.  
*Monograptus* spp.  
*Rastrites* sp. or *M. ex gr. M. triangulatus* (Harkness)

Age: Early Silurian, Middle Llandovery.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 11-10

GSC Loc. C-89055 (BSN) - Duo Lake Formation, one meter below the contact  
with the overlying Natla Formation (slope facies Dnf) along strike from  
section 11.  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

inarticulate brachiopod  
*Glyptograptus?* sp.  
*Monograptus* 3 spp.  
*M. cf. M. exiguum* Nicholson

Age: Early Silurian, probably early Late Llandovery.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 204-4

### Section 12

GSC Loc. C-89092 (BSN) - Duo Lake Formation (along strike from section  
11).  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

*Monograptus* sp.  
*M. cf. M. exiguum* Nicholson  
*M. cf. M. turriculatus* (Barrande) or cf. *M. ex gr. M. spiralis* (Geinitz)  
*Retiolites* sp.

Age: Early Silurian, Late Llandovery, probably early Late  
Llandovery.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 12-1

### End of sections

GSC Loc. C-84619 (BSN) - Duo Lake Formation.  
63° 52.5' N, 130° 20.5' W - N.T.S. 105 O - 09

*Dicellograptus* so.  
*Orthograptus* sp.

Age: late Middle or late Ordovician.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D10BSN79 79 CJA 113.I-3B

GSC Loc. C-84613 (AWN) - Natla Formation (Dnf).  
63° 44.6' N, 130° 16' W - N.T.S. 105 O - 09

*Gasterocoma? bicaula* Johnson & Lane, 1969

echinoderm ossicle with cross-like axial canal  
echinoderm ossicle with single axial canal

**Age:** late Early Devonian to early Middle Devonian, Zlichovian and Dalejan  
to earliest Couvinian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
2 AWN 1980 79 CJA 110.B-2

**GSC Loc. C-89051 (AWN) - Natla Formation (Dnf).**  
63° 38.5' N, 130° 04.3' W - N.T.S. 105 O - 09

*Ogilviella* sp. cf. *O. rotunda* Lenz

**Age:** early Early Devonian, late Lochkovian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
3 AWN 1982 80 CJA 201.C-4

**GSC Loc. C-89056 (AWN) - Top of Natla Formation (Dnf) above Section 11.**  
63° 37.5' N, 130° 02.5' W - N.T.S. 105 O - 09

*Styliolina* sp.  
*Nowakia* sp. cf. *N. acuaria* (Richter)

**Age:** Early Devonian, late Lochkovian to Pragian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
3 AWN 1982 80 CJA 204.E-5

**GSC Loc. C-89052 (BSN) - Natla Formation (Dnf).**  
63° 38.5' N, 130° 04.3' W - N.T.S. 105 O - 09

dacryocoanarid  
*Monograptus* cf. *M. yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *M. yukonensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 201.C-5

**GSC Loc. C-84618 (BSN) - Natla Formation (Dnf).**  
63° 50.9' N, 130° 20.2' W - N.T.S. 105 O - 09

sponge spicules  
*Monograptus* ex gr. *M. yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *M. yukonensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D10BSN79 79 CJA 113.G-3A

**GSC Loc. C-087561 (MJO) - DMub Unit.**  
North Lat. & West Long. 63.6344°, 130.0336° - N.T.S. 1050 - 09

<b>Conodont taxa:</b>	<b>CAI:</b> 4 - 4.5
ramiform elements (11)	
<i>Palmatolepis</i> sp. (5)	
<i>Palmatolepis</i> sp. cf. <i>P. crepida</i> Sannemann 1955 (1)	
<i>Palmatolepis</i> sp. cf. <i>P. triangularis</i> Sannemann 1955 (4)	
<i>Palmatolepis minuta</i> Sanneman 1955 (3)	
<i>Palmatolepis subperlobata</i> Branson & Mehl 1934 (3)	
<i>Palmatolepis tenuipunctata</i> Sannemann 1955 (2)	
<i>Pelekysgnathus</i> sp. (1)	
<i>Polygnathus</i> sp. (1)	

**Age:** Late Devonian, Early Famennian, *crepida* zone

Remarks: Nahanni file #405. Gordey, Abbott & Orchard 1982, No. 5; Irwin & Orchard 1991, amended.  
Collected by: S.P. Gordey<sup>2</sup>.  
81-GGA-31A-0m Base section J1 Gordey et al, (1982). M.J. Orchard Report OF-1992-25.

**GSC Loc. C-087562 (MJO) - D3c Unit**  
North Lat. & West Long. 63° 63.6344', 130° 03.336' - N.T.S. 1050 - 09

**Fossils:** conodonts, sponge spicules  
**Conodont taxa:** CAI: 3 - 4  
coniform elements (1)  
ramiform elements (45)  
*Palmatolepis* sp. cf. *P. regularis* Cooper 1931 (1)  
*Palmatolepis glabra pectinata* Ziegler morphotype 1  
Sandberg & Ziegler 1973 (10)  
*Palmatolepis glabra prima* Ziegler & Huddle 1969 (6)  
*Palmatolepis minuta* subsp. Branson & Mehl 1934 (10)  
*Palmatolepis quadratinodosa* subsp. Branson & Mehl 1934 (1)  
*Palmatolepis quadratinodosa* Sannemann 1955 morph. 1  
Sandberg & Ziegler 1975 (11)  
*Palmatolepis superlobata* Branson & Mehl 1934 (7)  
*Palmatolepis tenuipunctata* Sannemann 1955 (2)  
*Polygnathus ex gr. nodocostatus* Branson & Mehl 1934 (1)  
*Polygnathus* sp. (3)

**Age:** Late Devonian, early Famennian, Upper *crepida* Zone  
Remarks: Nahanni file #404. Gordey, Abbott & Orchard 1982, No. 6; Irwin & Orchard 1991.  
Collected by: S.P. Gordey<sup>2</sup>.  
81-GGA-31A-75m Lower part of section J1 Gordey et al, (1982). M.J. Orchard Report OF-1992-25.

**GSC Loc. C-087564 (MJO) - Basal Msh1 Unit**  
North Lat. & West Long. 63° 38.4', 130° 00' - N.T.S. 1050 - 09  
**Fossils:**  
conodonts, ichytholiths, microgastropods,  
sphaeromorphs, tubes, ?echinoderm  
**Conodont taxa:** CAI: 3.5 - 4.5  
ramiform elements (70)  
*Bispatherodus* sp. cf. *B. bispatherodus* Ziegler,  
Sandberg & Austin (4)  
*Siphonodella?* sp. (1)

**Age:** Early Carboniferous, early-middle Tournaisian  
Remarks: Nahanni #409 Collection was recovered subsequent to Gordey, Abbott & Orchard, 1982.  
Collected by: S.P. Gordey<sup>2</sup>.  
81-GGA-31A-431m Section 19 & 413 m of Section J1 of Gordey et al (1982). M.J. Orchard Report OF-1992-25.

**GSC Loc. C-087565 (MJO) - Msh2 Unit ~50m above the Mq Unit..**  
63° 40' N, 130° 01' W - N.T.S. 105 O - 09

**Fossils:** conodonts, bryozoans, sponge spicules,  
?echinoderms  
**Conodont taxa:** CAI: 3.5 - 4.5  
ramiform elements (13)  
*Gnathodus bilineatus* (Roundy 1926) (4)  
*Gnathodus girtyi collinsoni* Rhodes, Austin & Druce (3)  
*Idiopriioniodus* sp. (4)  
*Paragnathodus* sp. cf. *P. commutatus* (Branson & Mehl) (1)

**Age:** Late Carboniferous, late Visean-early Namurian  
**Remarks:** Nahanni file #418. Gordey, Abbott & Orchard 1982  
**Collected by:** S.P. Gordey<sup>2</sup>  
81-GGA-31A-828M. Section J2 828 m of section J1-J2. M.J. Orchard Report OF-1992-25.

**GSC Loc. C-087571 (MJO) - Basal Pnls or upper Msh2 Unit**  
North Lat. & West Long. 63.6667°, 130.0117° - N.T.S. 105O - 09  
**Fossils:** conodonts, ichthyoliths  
**Conodont taxa:** CAI: 3 - 4.5  
blade fragment (1)  
ramiform elements (1)

**Age:** ?Carboniferous  
**Remarks:** Ichthyolith is similar to that from Dunira Formation, Late Carboniferous of Prince Rupert map area.  
**Collected by:** S.P. Gordey<sup>2</sup>.  
81-GGA-32A2. M.J. Orchard Report OF-1992-25.

**GSC Loc. C-087570 (MJO) - Near the base of the Pnls Unit**  
North Lat. & West Long. 63.6506°, 130.00° - N.T.S. 105O - 09

**Fossils:** conodonts, ichthyoliths, bryozoans  
**Conodont taxa:** CAI: 3 - 4  
*?Rhachistognathodus primus* Dunn 1966 (1)  
ramiform elements (33)  
*Declinognathodus noduliferus* (Ellison & Graves 1941) (2)  
*Gnathodus* sp. cf. *G. bilineatus* (Roundy 1926) (2)  
*Idiognathoides* spp. (70)  
*Idiopriioniodus* sp. (6)  
*Lochriea commutata* (Branson & Mehl) (1)  
*Rhachistognathodus muricatus* (Dunn) (5)

**Age:** Late Carboniferous (Early Pennsylvanian), Late Namurian (Morrowan)  
**Remarks:** Nahanni file #417. Gordey, Abbott & Orchard 1982, No. 8.  
**Collected by:** S.P. Gordey<sup>2</sup>.  
81-GGA-32A-345m - 345 m in section J2 and 1134m of J1-J2 Section Gordey et al (1982). M.J. Orchard Report OF-1992-25.

**GSC Loc. C-89104 (TTU) - Pnls Unit.**  
63° 40.1' N, 130° 01' W - N.T.S. 105 O - 09

Barren. No microfossils.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 208.A-2

**GSC Loc. C-89101 (TTU) - Pnls Unit 40 m above the Msh2 Unit.**  
63° 39.5' N, 129° 59.5' W - N.T.S. 105 P - 12

*Gnathodus* sp., probably *G. delicatus* Branson & Mehl

**Age:** probably Early Mississippian, probably Tournaisian-Visean boundary.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 205-4

**GSC Loc. C-107904 (E.W. Bamber) - Pnls Unit.**  
63° 40' N, 130° 01' W - N.T.S. 105 O - 09

gastropods, unidentified  
productiod, spiriferid, and other brachiopods - poorly preserved; possibly include fragments of *Yakovlevia?* sp. and *Spiriferella?* sp., but no definite determination possible

echinoderm columnals, indeterminate

**Age:** Late Carboniferous or Permian, probably Permian.  
Collected by S.P. Gordey<sup>2</sup>  
C3 EWB1985 81 GGA-32A1. See C- 89104, 89101, 87565.

N.T.S. Map-area 105 O - 10

**GSC Loc. C-89086 (BSN) - lmOc Unit.**  
63° 42.6' N, 130° 45.7' W - N.T.S. 105 O - 10

Lot A:

*Didymograptus* 2 spp. (one extensiform)  
*Tetragraptus approximatus* Nicholson  
*T. cf. T. quadribrachatus* Hall  
*T. cf. T. fruticosus* (Hall), 4 striped form

Lot B: (a single slab)

*Dichograptus* sp.  
*Didymograptus* cf. *D. bifidus* Hall  
*Isograptus* sp.

**Age A:** Early Ordovician, Arenig, *T. fruticosus* Zone.

**Age B:** Early or early Middle Ordovician, probably *D. bifidus* Zone

Zone.

**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 244.C-1

**GSC Loc. C-84564 (RST) lmOc Unit.**  
63° 44.6' N, 130° 46' W - N.T.S. 105 O - 10

*Protopanderodus* spp. (includes specimens similar to *Paltodus bassleri* (Furnish s.f.))

**Age:** Early Ordovician, the nature of the cones (including their ornamentation) suggests a late Tremadocian to early Arenigian age.

**Collected by:** M.P. Cecile<sup>1</sup>.  
1 RST 1981 79 CJA 122.G-5

**GSC Loc. C-84751 (BSN) - lmOc Unit.**  
63° 44.5' N, 130° 47.2' W - N.T.S. 105 O - 10

*Didymograptus* sp. (extensiform)  
*Isograptus?* sp. or *Tetragraptus?* sp.  
*Tetragraptus* cf. *T. fruticosus* (Hall)

**Age:** Early Ordovician, Arenig, *T. fruticosus* Zone to *D. bifidus* Zone.

**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D10BSN79 79 CJA 122.E-3

**GSC Loc. C-84568 (TTU) - muOc Unit.**  
63° 44.5' N, 130° 54.6' W - N.T.S. 105 O - 10

Barren.

**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 79 CJA 127.C-4

**GSC Loc. C-85210 (GSN) - muOc Unit.**  
63° 44.5' N, 130° 54.66' W - N.T.S. 105 O - 10

*Ansellia nevadensis* Ethington & Schumacher

*Coleodus?* sp.  
*Cordylodus horridus* Barnes & Poplawski  
*Drepanoistodus basiovalis* (Sergeeva)  
*Eoplacognathus suecicus* Bergström  
*Histiodella* n. sp. 2 Harris et al., 1979  
*Paroistodus* sp.  
*Periodon aculeatus* Hadding  
*Phragmodus* n. sp. cf. *P. inflexus* (Stauffer)  
*Protopanderodus varicostatus* (Sweet & Bergström)  
*Spinodus spinatus* (Hadding)

**Age:** Middle Ordovician, Late Whiterockian (Llanvirnian). North Atlantic Province affinity.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O 4 GSN1982 79 CJA 127.C-5

**GSC Loc. C-89078 (BSN) muOc**  
63° 40.2' N, 130° 47.9' W - N.T.S. 105 O - 10

inarticulate brachiopod  
*Climacograptus* sp.  
*Leptograptus* sp.  
*Orthograptus* 2 spp.  
retiolitid graptolite

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 231.C-2

**GSC Loc. C-89080 (BSN) - muOc Unit.**  
63° 40.7' N, 130° 45.7' W - N.T.S. 105 O - 10

*Arachniograptus?* sp.  
*Climacograptus* cf. *C. hvalross* Ross and Berry  
*Dicellograptus* 2 spp.  
*Leptograptus?* sp.  
*Orthograptus* cf. *O. calcaratus* Elles and Wood  
*O. calcaratus grandis* (Ruedemann)  
*O. calcaratus* Elles and Wood n. v.  
*O. cf. O. truncatus abbreviatus* Elles and Wood  
*Reteograptus?* sp.

**Age:** Late Ordovician, Ashgill, *D. ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 231.H-7

**GSC Loc. C-89083 (BSN) - Duo Lake Formation at transition to the lmOc Unit and to the muOc Unit.**  
63° 40.2' N, 130° 43' W - N.T.S. 105 O - 10

bryozoan, echinoderm and  
brachiopod debris

**Age:** Ordovician or younger.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 243.A-2

**GSC Loc. C-89085 (BSN) - Duo Lake Formation.**  
63° 40.5' N, 130° 42.6' W - N.T.S. 105 O - 10

*Clonograptus?* sp.  
*Didymograptus* 2 spp. *extensiform*

*D. cf. D. bifidus* Hall  
*Goniograptus* sp.  
*Phyllograptus* cf. *P. anna* Hall  
*Tetragraptus* cf. *T. serra* (Brogniart)

**Age:** Early Ordovician, late Arenig, *D. bifidus* Zone.

**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 243.C-4

**GSC Loc. C-89079 (BSN) - Sa Unit.**  
63° 40.5' N, 130° 46.1' W - N.T.S. 105 O - 10

*Monograptus* cf. *M. chelmiensis* Teller  
*M. cf. M. transgrediens praecipus* Pribyl

**Age:** Late Silurian, Pridoli.

**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 231.G-6

**GSC Loc. C-89077 (BSN) - Sa Unit.**  
63° 40.2' N, 130° 47.9' W - N.T.S. 105 O - 10

*Linograptus* sp.  
*Monograptus* spp.

**Age:** Late Silurian, late Ludlow or early Pridoli.  
**Collected by:** M.P. Cecile<sup>1</sup>.

O D 1BSN82 80 CJA 231.C-1

**GSC Loc. C-84638 (BSN) Sa Unit.**  
63° 43.8' N, 130° 51.2' W - N.T.S. 105 O - 10

*Monograptus* sp. (lobate thecae)  
*Retiolites* sp.  
graptolite fragments

**Age:** Early Silurian, Llandovery to Wenlock, probably Late Llandovery to Wenlock.

**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 125.H-3

**GSC Loc. C-84566 (TTU) - Dc Unit - Note associated with occurrences of witherite (Ba-Ca limestone) and norsthetite (Ba-Ca-Mg dolomite).**  
63° 44.5' N, 130° 54.5' W - N.T.S. 105 O - 10

*Polygnathus angusticostatus* Wittekindt  
*P. costatus costatus* Klapper  
*P. linguiformis bulynccki* Weddige  
*Icriodus "expansus"* Branson & Mehl of Chatterton (1979)

**Age:** Middle Devonian, early Eifelian, costatus Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.

1 TTU 1982 79 CJA 127.B-3

**GSC Loc. C-84565 (TTU) - Dc Unit.**  
63° 44.9' N, 130° 56.2' W - N.T.S. 105 O - 10

Barren. No conodonts.

**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 79 CJA 124.F-9

N.T.S. Map-area 105 O - 15

Measured Traverse 18 Base at  $63^{\circ} 48.2' N$ ,  $130^{\circ} 54.6' W$ ; top at  $63^{\circ} 47.8' N$ ,  $130^{\circ} 56.2' W$  - N.T.S. 105 O - 15. Note that this traverse is mainly through structural repetitions of the lmOc Unit and some muOc Unit. Measured traverse intervals here are purely horizontal distance along the ground.

GSC Loc. C-89252 (BSN) - lmOc Unit 213 m above the lea Unit.

*Dictyonema* sp.

*Staurograptus tenuis* Jackson

Age: Early Ordovician, Early Tremadoc, *S. tenuis* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

O D 1BSN81 80 CJA 18-9

GSC Loc. C-89098 (BSN) - lmOc Unit 303 m above the lea Unit.  
 $63^{\circ} 10' N$ ,  $130^{\circ} 60' W$  - N.T.S. 105 O - 02

*Adelograptus?* sp.

*Anisograptus richardsoni* Bulman

Age: Early Ordovician, Tremadoc, *A. richardsoni* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

BSN81 80 CJA 18-4

GSC Loc. C-89099 (BSN) - lmOc Unit 365-369 m above the lea Unit.

*Caryocaris?* sp.

*Bryograptus* cf. *B. ramosus* Brogger

*Clonograptus* 2 spp.

Age: Early Ordovician, Tremadoc, *C. aureus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

BSN81 80 CJA 18-6

GSC Loc. C-89097 (BSN) - lmOc Unit 371-374 m above the lea Unit.

*Caryocaris* sp.

*Clonograptus?* sp.

*Didymograptus* sp. (extensiform)

*D. cf. D. vicinus* Harris and Thomas

*Phyllograptus anna* Hall

*Tetragraptus* sp. or *Didymograptus* sp.

*T. fruticosus* (Hall) (4-branched)

Age: Early Ordovician, Arenig, *T. fruticosus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

O D 1BSN81 80 CJA 18-3

GSC Loc. C-89096 (BSN) - lmOc Unit 413 m above the lea Unit.

*Cryptograptus* sp.

*Glyptograptus* sp.

Age: Ordovician, Llanvirn to Caradoc.

Collected by: M.P. Cecile<sup>1</sup>.

O D 1BSN81 80 CJA 18-2

GSC Loc. C-89100 (BSN) - lmOc Unit 483 m above the lea Unit.

*Caryocaris?* sp.

*Adelograptus?* spp.  
*Clonograptus* sp.

Age: probably Early Ordovician, probably late Tremadoc.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 18-7

GSC Loc. C-89095 (BSN) - muOc Unit 555 m above the 1ea Unit.

*Dicellograptus* sp.

*Leptograptus* sp.

*Orthograptus* cf. *O. calcaratus acutus* Elles and Wood  
*Reteograptus* cf. *R. pulcherrimus* Keble and Harris

Age: Late Middle Ordovician, Caradoc.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 18-1

GSC Loc. C-89251 (BSN) - lmOc Unit 608 m above the 1ea Unit.

*Caryocaris?* sp.

*Adelograptus?* sp.

*Bryograptus* sp.

*Clonograptus* sp.

Age: Early Ordovician, late Tremadoc.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 18-8

Measured Traverse 19 - Base at 63° 47' N, and 130° 57.5' W; Top at 63° 46.6' and 130° 59.5'. This traverse is mainly through tight fold repetitions of the muOc and Sa units with some occurrences of lmOc and Dc units. Measured traverse intervals here are corrected for an approximately 70° monoclinal dip.

GSC Loc. C-89253 (DEJ) - muOc Unit at 46 m.

*Climacograptus* sp.

*Dicellograptus* sp.

*Orthograptus quadrimucronatus* (J. Hall)

Age: Caradoc, *O. quadrimucronatus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 DEJ 1980 80 CJA 19-1

GSC Loc. C-89254 (DEJ) - muOc Unit at 120 m.

*Amplexograptus* sp.

*Dicellograptus* sp.

*Orthograptus* sp.

Age: Caradoc or Ashgill.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 DEJ 1980 80 CJA 19-2

GSC Loc. C-89256 (BSN) - Sa Unit at 152 m.

*Linograptus?* sp.

*Bohemograptus boemicus* Barrande

Age: Late Silurian, Ludlow.  
Collected by: M.P. Cecile<sup>1</sup>.

S 11 BSN80 80 CJA 19-4

GSC Loc. C-89255 (DEJ) - muOc Unit at 170 m.

*Climacograptus hastatus* T.S. Hall

*Dicellograptus* sp.

*Orthograptus* cf. *O. quadrimucronatus* (J. Hall)

*Reteograptus pulcherrimus* Keble and Harris

Age: Late Caradoc or Ashgill *O. quadrimucronatus* Zone

*D. ornatus* Zone

Collected by: M.P. Cecile<sup>1</sup>.

1 DEJ 1980 80 CJA 19-3

GSC Loc. C-89257 (BSN) - Sa Unit at 173 m.

*Linograptus* sp.

*Monograptus* sp.

*Pristiograptus* cf. *P. chelmiensis* Teller

Age: Late Silurian, early Pridoli, probably *P. chelmiensis* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

S 11 BSN80 80 CJA 19-5

GSC Loc. C-89068 (BSN) - Sa Unit at 243m.

*Linograptus* sp.

*Monograptus* spp.

*Bohemograptus bohemicus* Barrande

Age: late Silurian, Ludlow

Collected by: M.P. Cecile<sup>1</sup>.

O D 1BSN82 80 CJA 227-3 in sec 19-

GSC Loc. C-89069 (BSN) umOc Unit at 308 m.

*Archniograptus?* sp.

*Climacograptus* sp.

*Dicellograptus* 2 spp.

*D. complanatus ornatus* Elles and Wood

*Leptograptus* sp.

*Orthograptus* sp.

*O. calcaratus grandis* (Ruedemann)

*O. ex gr. O. calcaratus* (Lapworth)

Age: Late Ordovician, Ashgill, *D. ornatus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

O D 1BSN82 80 CJA 227-4 - in sec 19-

GSC Loc. C-89258 (DEJ)- muOc Unit at 316 m.

*Dicellograptus* cf. *D. morrisi* Hopkinson

*Glyptograptus* sp.

*Orthograptus calcaratus* Lapworth

Age: Caradoc, probably *D. clingeni* Zone sensu Jackson et al., 1965.

Collected by: M.P. Cecile<sup>1</sup>.

1 DEJ 1980 80 CJA 19-6

GSC Loc. C-89261 (BSN) - Sa Unit at 330-331 m.

*Cucullograptus?* *crinitus* Wood

*Monograptus* sp.

*M. aff. M. angustidens* Pribyl  
*M. aff. M. formosus* Boucek

**Age:** Late Silurian, early Pridoli, *M. formosus*  
or *P. bugensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-8

**GSC Loc. C-89259 (BSN) - Sa Unit at 335-336 m.**

*Monograptus* spp.  
*M. ex gr. M. spiralis* (Geinitz)  
*Retiolites geinitzianus angustidens* Elles and Wood.

**Age:** Early Silurian, late Llandovery, *M. spiralis* Zone.  
S 11 BSN80 80 CJA 19-7a

**GSC Loc. C-89260 (BSN) - Sa Unit at 336-336.5 m.**

*Cyrtograptus?* sp.  
*C. canadensis* Jackson and Etherington  
*Monograptus* spp.  
*M. ex gr. M. spiralis* (Geinitz)  
*Retiolites geinitzianus angustidens* Elles and Wood

**Age:** Early Silurian, latest Llandovery, late *M. spiralis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-7b

**GSC Loc. C-89262 (DEJ) - muOc Unit at 401 m.**

*Climacograptus cf. C. hastatus* T. S. Hall  
*Dicellograptus* sp.

**Age:** Late Ordovician, Late Caradoc or Ashgill *O. quadrimucronatus* Zone to  
*D. ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 DEJ 1980 80 CJA 19-9

**GSC Loc. C-89265 (BSN) - Sa Unit at 416 m.**

*Bohemograptus boemicus* Barrande  
*Linograptus?* sp.  
*Monograptus* sp.

**Age:** Late Silurian, Ludlow,  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-11

**GSC Loc. C-89263 (BSN) - Sa Unit at 422 m.**

*Monograptus* sp.

**Age:** probably Late Silurian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-10

**GSC Loc. C-89266 (BSN) - Basal Sa Unit at 466 m.**

*Monograptus* sp.  
*M. ex gr. M. spiralis* (Geinitz)

**Age:** Early Silurian, Late Llandovery, *M. spiralis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-12

**GSC Loc. C-89267 (DEJ) muOc Unit at 480 m.**

*Dicellograptus complanatus ornatus* Elles and Wood  
*Orthograptus truncatus abbreviatus* Elles and Wood

**Age:** Late Ordovician, Ashgill, *D. ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 DEJ 1980 80 CJA 19-13

**GSC Loc. C-89268 (DEJ) - muOc Unit at 484 m.**

*Leptograptus* sp.  
*Orthograptus* sp.

**Age:** Late Ordovician, possibly Ashgill. *Leptograptus* ranges to the top of the Ashgill in Australia.  
C-89267 and C-89271. 1 DEJ 1980 80 CJA 19-14

**GSC Loc. C-89269 (BSN) - Basal Sa Unit at 491 m.**

*Monograptus* sp.  
*M. ex gr. M. spiralis* Geintz  
*Retiolites geinitzianus angustidens* Elles and Wood

**Age:** Early Silurian, Late Llandovery, *M. spiralis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-15

**GSC Loc. C-89270 (BSN) - Sa Unit at 519 m.**

*Monograptus* 2 spp.

**Age:** Silurian  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-16

**GSC Loc. C-89271 (DEJ) - muOc Unit at 599 m.**

*Dicellograptus complanatus ornatus* Elles and Wood  
*Orthograptus* sp.  
*Orthoretiolites?* sp.  
*Reteograptus pulcherrimus* Keble and Harris?

**Age:** Late Ordovician, Ashgill, *D. ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 DEJ 1980 80 CJA 19-17

**GSC Loc. C-89272 (BSN) - Sa Unit at 624 m.**

*Monograptus* spp.  
*M. ex gr. M. spiralis* (Geinitz)  
*Retiolites?* sp.

**Age:** Early Silurian, Late Llandovery *M. spiralis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-18

**GSC Loc. C-89273 (DEJ) - muOc Unit at 635m.**

*Amplexograptus?* sp.  
*Dicellograptus* sp.  
*Orthograptus truncatus abbreviatus* Elles and Wood

**Age:** Caradoc or Ashgill.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 DEJ 1980 80 CJA 19-19  
GSC Loc. C-89274 (BSN) - Sa Unit at 668 m.  
*Linograptus posthumus tenuis* Jaeger  
*Pristiograptus* cf. *P. bugensis* Teller

**Age:** Late Silurian, probably early Pridoli, probably *P. bugensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
S 11 BSN80 80 CJA 19-20a

**GSC Loc. C-89275 (DEJ) - muOc Unit at 675m.**

*Arachniograptus?* sp.  
*Climacograptus hastatus americanus* Ruedemann  
*C. innotatus pacificus* Ruedemann  
*Dicellograptus* sp.  
\**Orthograptus calcaratus grandis* (Ruedemann)  
\**Reteograptus pulcherrimus* Keble and Harris

**Age:** Ashgillian, *D. ornatus* Zone. Asterisked elements are recorded from this level in the United States by Ross and Berry, 1963.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 DEJ 1980 80 CJA 19-20b

**GSC Loc. C-89070 (BSN) - Sa Unit, at 816 m.**

*Monograptus* cf. *M. yukonensis* Jackson and Lenz

**Age:** probably Early Devonian, Pragian, probably *M. yukonensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 227-5 sec 19-

**GSC Loc. C-89071 (BSN) - muOc Unit at 1024 m.**

*Dicellograptus* sp.  
*D. aff. D. sextans exilis* Elles and Wood  
*Climacograptus hastatus* Hall  
*Glyptograptus* sp.  
*Orthograptus calcaratus grandis* (Ruedemann)

**Age:** late Middle or Late Ordovician, late Caradoc or Ashgill,  
*O. quadrimucronatus* Zone or *D. ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 227-7 sec 19-

**GSC Loc. C-89276 (BSN) - Sa Unit at 739 m.**

*Monograptus* spp.  
*M. cf M. turriculatus* (Barrande) or cf. *M. ex gr. M. spiralis* Geintz

**Age:** Early Silurian, Late Llandovery  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 19-21

**GSC Loc. C-89277 (BSN) - Sa Unit at 866 m.**

inarticulate brachiopod  
*Monograptus* spp.  
*Monograptus ex gr. M. spiralis* Geintz or *Cyrtograptus* sp.  
*Retiolites* sp.

**Age:** Late Early Silurian or Early Middle Silurian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 19-22

**GSC Loc. C-89278 (BSN) - Sa Unit at 1036 m.**

*Glyptograptus* sp.  
*Monograptus* sp.

**Age:** Early Silurian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN81 80 CJA 19-23

**End of measured traverses**

**GSC Loc. C-89067 (HJH) - Iema Unit**  
63° 51.7' N, 130° 58.2' W - N.T.S. 105 O - 15

*Oldhamia radiata* Forbes  
?Oldhamia sp.  
?Gordia sp.

**Age:** Probably Early Cambrian.  
Location N1 of Hofmann, H.J. and Cecile, M.P. (1981).  
**Collected by:** M.P. Cecile<sup>1</sup>.  
80 CJA 225.E - 1

**GSC Loc. C-89076 (HJH) - Iema Unit**  
63° 48.8' N, 130° 50.5' W - N.T.S. 105 O - 15

*Oldhamia radiata* Forbes  
?Oldhamia sp.  
Planolites sp.

**Age:** Probably Early Cambrian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
Location N2 of Hofmann and Cecile (1981)  
80 CJA 230.I - 3

**GSC Loc. C-84632 (HJH) - Iema Unit**  
63° 47.8' N, 130° 46.2' W - N.T.S. 105 O - 15

*Oldhamia radiata* Forbes  
Planolites sp.

**Age:** Probably Early Cambrian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
Location N3 of Hofmann and Cecile (1981)  
79 CJA 123.C - 4

**GSC Loc. C-89066 (WHF) - Uppermost Sekwi Formation.**  
63° 59.6' N, 130° 30.6' W - N.T.S. 105 O - 15

*Goldfieldia* sp.  
cf. *Oryctocara* sp.

**Age:** Upper part of the Lower Cambrian *Bonnia-Olenellus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.  
E2 WHF1981 80 CJA 217.G-24

GSC Loc. C-84562 (RST) - lmOc Unit (dolomite bed).  
63° 46.2' N, 130° 54.5' W - N.T.S. 105 O - 15

"Oneotodus" nakamuri Nogami  
Oneotodus spp.

Age: latest Cambrian to Early Ordovician, Tremadocian.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 RST 1981 79 CJA 121.E-6

GSC Loc. C-89074 (BSN) - lmOc Unit.  
63° 49.4' N, 130° 56.9' W - N.T.S. 105 O - 15

Bryograptus cf. B. ramosus Brogger  
Clonograptus cf. C. sp. D of Jackson (1974)  
Dictyonema 2 spp.

Age: Early Ordovician, late Tremadocian A. antiquus  
Zone.

Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 228.E-1

GSC Loc. C-84631 (BSN) - lmOc Unit.  
63° 46.2' N, 130° 52' W - N.T.S. 105 O - 15

Bryograptus? sp.

Age: Early Ordovician, Tremadoc or Arenig, possibly C. aureus Zone or A. antiquus Zone.

Collected by: M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 121.J-11

GSC Loc. C-84629 (BSN) - lmOc Unit.  
63° 46.3' N, 130° 53' W - N.T.S. 105 O - 15

Caryocaris sp.  
Clonograptus sp.

Age: Early or Middle Ordovician, Tremadoc to Llanvirn.

Collected by: M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 121.I-9

GSC Loc. C-84628 (BSN) - muOc Unit.  
63° 46.2' N, 130° 54.7' W - N.T.S. 105 O - 15

Climacograptus? sp.  
Cryptograptus? sp.  
Glossograptus? sp.  
Isograptus sp.  
Pterograptus sp.

Age: Middle Ordovician, Llanvirn, P. tentaculatus Zone.

Collected by: M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 121.D-5

GSC Loc. C-89075 (BSN) - muOc Unit.  
63° 49.2' N, 130° 58.3' W - N.T.S. 105 O - 15

Glyptograptus? sp.

*Orthograptus?* sp.  
*Reteograptus* sp.

**Age:** late Middle or late Ordovician, Caradoc or Ashgill.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 228.G-2

**GSC Loc. C-84635 (BSN) - muOC Unit.**  
63° 45' N, 130° 56.1' W - N.T.S. 105 O - 15

*Climacograptus* sp.  
*Dicellograptus* sp.  
*Orthograptus?* sp.

**Age:** Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 124.B-4

**GSC Loc. C-89072 (BSN) - muOC Unit.**  
63° 47' N, 130° 59' W - N.T.S. 105 O - 15

*Archniograptus?* sp.  
*Glyptograptus?* sp.  
*Climacograptus ex gr. C. bicornis* (Hall)  
*Orthograptus* sp.

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 227.H-9

**GSC Loc. C-84627 (BSN) - muOC Unit.**  
63° 45.2' N, 130° 54' W - N.T.S. 105 O - 15

*Dicellograptus* sp.  
*Orthograptus calcaratus* Lapworth

**Age:** Middle to Late Ordovician, Caradoc to Ashgill, *C. bicornis* Zone to *D. ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 121.A-2

**GSC Loc. C-89073 (BSN) - muOC Unit.**  
63° 47.6' N, 130° 57.5' W - N.T.S. 105 O - 15

*Dicellograptus* sp.  
*D. complanatus ornatus* Elles and Wood  
*Glyptograptus?* sp.  
*Leptograptus* sp.  
*Orthograptus* sp.

**Age:** Late Ordovician, Ashgill, *D. ornatus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 227.I-10

**GSC Loc. C-89064 (BSN) - Duo Lake Formation.**  
63° 57.3' N, 130° 35' W - N.T.S. 105 O - 15

*Dicellograptus* sp.  
*Leptograptus?* sp.  
*Orthograptus* sp.  
*O. cf. O. calcaratus* (Lapworth)

**Age:** late Middle or Late Ordovician, Caradoc or Ashgill.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 216.D-1

**GSC Loc. C-84636 (BSN) - Sa Unit.**  
 $63^{\circ} 45.1' N, 130^{\circ} 54.9' W$  - N.T.S. 105 O - 15

*Cyrtograptus laqueus* Jackson and Etherington  
*Monograptus ex gr. M. priodon* (Bronn)

**Age:** probably Early Wenlock, *C. centrifugus* Zone,  
possibly Late Llandovery, *C. sakmaricus* - *C. laqueus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 124.A-3

**GSC Loc. C-84634 (BSN) - Both A and B Sa Unit.**  
 $63^{\circ} 45.1' N, 130^{\circ} 54.9' W$  - N.T.S. 105 O - 15

A - 2 slabs:  
*Bohemograptus cf. B. boemicus* (Barrande)  
*Linograptus* sp.

B - 14 slabs:  
*Monograptus?* sp.  
*M. ex gr. M. spiralis* Geinitz

**Age:** A: Late Silurian, Ludlow. B: Early Silurian,  
Late Llandovery, *Monograptus spiralis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 124.A-2

**GSC Loc. C-84633 (BSN) - Sa Unit.**  
 $63^{\circ} 45.1' N, 130^{\circ} 54.9' W$  - N.T.S. 105 O - 15

*Monograptus yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *M. yukonensis* Zone  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 124.A-1

**N.T.S. Map-area 105 O - 16 and adjacent 106 B - 1**

**Section 4** Base at  $63^{\circ} 45.2' N, 130^{\circ} 16' W$  and top at  $63^{\circ} 45.1' N, 130^{\circ} 16.5' W$  - N.T.S. 105 O - 16 (Section 25 of Cecile, 1982).

**GSC Loc. C-84570 (WHF) - Sekwi Formation** 48 m below the Hess River Formation.

*Ogygopsis batis?* (Walcott)

**Age:** Early Cambrian, *Bonnia-Olenellus* Zone (see comment below).  
**Collected by:** M.P. Cecile<sup>1</sup>.  
C1 WHF1981 79 CJA 04-3

**GSC Loc. C-84569 (WHF) - Sekwi Formation** 46.5 m below the Hess River Formation.

*Ogygopsis batis?* (Walcott)

**Age:** Early Cambrian, *Bonnia-Olenellus* Zone. This and C-84570 resemble *Ogygopsis batis* in all respects except for the lack of small anterolateral pygidial spines.

Collected by: M.P. Cecile<sup>1</sup>.  
C1 WHF1981 79 CJA 04-2

GSC Loc. C-85202 (RST) - Rabbitkettle Formation from chips over an interval 17-42 m above the Hess River Formation.

Barren of microfossils.

Collected by: M.P. Cecile<sup>1</sup>.  
1 RST 1981 79 CJA 04-8

GSC Loc. C-85208 (RST) - Rabbitkettle Formation from chips over an interval 42-60 m above the Hess River Formation.

*Phakelodus tenuis* Mueller (individual specimens and clusters)  
+ other phosphatic microfossils

Age: Early to Late Cambrian. See - Tipnis, R.S. and Chatterton, B.D.E. (1979)  
Collected by: M.P. Cecile<sup>1</sup>.  
1 RST 1981 79 CJA 04-10

GSC Loc. C-84571 (BSN) - Duo Lake Formation, 41 m above the Rabbitkettle Formation.

*Caryocaris* sp.  
*Didymograptus* sp.  
*D. cf. D. gracilis* Tornquist  
*D. cf. D. bifidus* Hall  
*Phyllograptus* sp.  
*Sigmagraptus* sp.  
*Tetragraptus* spp.

Age: Early Ordovician, Arenig, *D. bifidus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 04-11

GSC Loc. C-84572 (BSN) - Duo Lake Formation outcrop, 168 m above Rabbitkettle Formation.

*Climacograptus ex gr. C. bicornis* (Hall)  
*Dicellograptus* sp.  
*Dicranograptus* sp.

Age: Middle Ordovician, Caradoc, *C. bicornis* Zone to *O. quadrimucronatus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 04-12

GSC Loc. C-84573 (BSN) - Duo Lake Formation outcrop 174 m above Rabbitkettle Formation.

*Climacograptus ex gr. C. bicornis* (Hall)  
*Dicellograptus* sp.  
*Dicranograptus* sp.  
*Orthograptus* sp.

Age: Middle Ordovician, Caradoc, *C. bicornis* Zone to *O. quadrimucronatus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 04-13

GSC Loc. C-84574 (BSN) - Duo Lake Formation felsenmeer, 174 m above Rabbitkettle Formation.

*Climacograptus* ex gr. *C. bicornis* (Hall)  
*Dicellograptus* sp.  
graptolite fragments

Age: Middle Ordovician, Caradoc, *C. bicornis* Zone  
Zone to *O. quadrimucronatus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 04-14

GSC Loc. C-84575 (BSN) - Duo Lake Formation outcrop, at 183 m above Rabbitkettle Formation.

inarticulate brachiopod  
*Climacograptus* ex gr. *C. bicornis* (Hall)  
*Dicellograptus* 2 ssp.  
*Dicranograptus* aff. *D. contortus* Ruedemann  
*D. cf D. nicholsoni* Hopkinson  
?*Glyptograptus* sp.  
*Orthograptus* sp.

Age: Middle Ordovician, Caradoc, *C. bicornis* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D 4BSN93 79 CJA 04-15

GSC Loc. C-84576 (BSN) - Duo Lake Formation felsenmeer, at 183 m above Rabbitkettle Formation.

*Climacograptus* sp.  
*Orthograptus* sp.

Age: Middle or Late Ordovician.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D 4BSN93 79 CJA 04-16

Section 6 Base at 63° 47.8' N, 130° 27.8' W and top at 63° 47.7' N, 130° 27.9' W - N.T.S. 105 O - 16

GSC Loc. C-85203 (RST) - Hess River Formation, chips from interval 25 m below to base of the Rabbitkettle Formation.

Barren of microfossils.  
Collected by: M.P. Cecile<sup>1</sup>.  
RST 1981 79 CJA 06-1

GSC Loc. C-85204 (RST) - Rabbitkettle Formation, chips across interval 0 - 20 m above the Hess River Formation.

Barren of microfossils.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 RST 1981 79 CJA 06-4

GSC Loc. C-85205 (RST) - Rabbitkettle Formation, chips across interval 20 - 45 m above the Hess River Formation.

Barren of microfossils.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 RST 1981 79 CJA 06-5

GSC Loc. C-85206 (RST) - Rabbitkettle Formation. Chips across interval 45

- 70 m above the Hess River Formation.

"Prooneotodus" spp. ?

Age: Lower to Upper Cambrian. See - Tipnis, R.S. and Chatterton, B.D.E. (1979)

Collected by: M.P. Cecile<sup>1</sup>.

1 RST 1981 79 CJA 06-6

GSC Loc. C-85207 (RST) - Rabbitkettle Formation. Chips across interval 70 - 92 m (top of formation) above the Hess River Formation (see C-84623 for first age in overlying Duo Lake Formation).

*Oneotodus* spp. and/or *Phakelodus tenuis* (Müller) ? (few broken specimens)

Age: Late Cambrian - Early Ordovician if the cones are oneotodids. See - Tipnis, R.S. and Chatterton, B.D.E. (1979)

Collected by: M.P. Cecile<sup>1</sup>.

1 RST 1981 79 CJA 06-7

GSC Loc. C-84623 (BSN) - Duo Lake Formation, 80-88 m above Rabbitkettle Formation

*Caryocaris* sp.

*Clonograptus?* sp.

*Didymograptus* spp. (pendant and horizontal forms)

*Isograptus* sp.

Age: Early Ordovician, probably *I. victoriae* Zone possibly *P. tentaculatus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

O-D 7BSN79 79 CJA 116.I-8

Section 217 64° 00.5' N, 130° 29.5' W - N.T.S. 106 B - 1 (immediately adjacent to 105 O - 16)

GSC Loc. C-89117 (TTU) - Natla Formation (Dnb Unit) chip samples across the interval 20-80 m above Undivided Hess River - Duo Lake (mCH,D map unit).

64° 01' N, 130° 28' W - N.T.S. 106 B - 01

*Eognathodus sulcatus kindlei* Lane & Ormiston

Age: Middle Early Devonian, late Pragian to Pragian-Zlichovian boundary, *kindlei* to *dehiscens* Zones.

Collected by: M.P. Cecile<sup>1</sup>.

1 TTU 1982 80 CJA 217-36

GSC Loc. C-89093 (BSN) - Natla Formation (Dnb Unit) at ~ 79 m above Undivided Hess River - Duo Lake (mCH,D map unit).

*Monograptus yukonensis* Jackson and Lenz

Age: Early Devonian, Pragian, *M. yukonensis* Zone.

Collected by: M.P. Cecile<sup>1</sup>.

O D 1BSN81 80 CJA 217-21

GSC Loc. C-89116 (TTU) - Natla Formation (Dnb Unit) chip samples across the interval 80-110 m above Undivided Hess River - Duo Lake (mCH,D map unit).

indet. fragment only

**Age:** indeterminate.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 217-35

**GSC Loc. C-89115 (TTU) - Natla Formation (Dnb Unit)** chip samples across the interval 110-140 m above Undivided Hess River - Duo Lake (mCH,D map unit).

64° 01' N, 130° 28' W - N.T.S. 106 B - 01

No conodonts recovered.

**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 217-34

**GSC Loc. C-89114 (TTU) - Natla Formation (Dnb Unit)** chip samples across the interval 140-160 m above Undivided Hess River - Duo Lake (mCH,D map unit).

No conodonts recovered.

**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 217-33

**GSC Loc. C-89113 (TTU) - Natla Formation (Dnb Unit)** chip samples across the interval 160-180 m above Undivided Hess River - Duo Lake (mCH,D map unit).

No conodonts recovered.

**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 217-32

**GSC Loc. C-89112 (TTU) - Upper Natla Formation (Dnb Unit)** chip samples across the interval 180-200 m above Undivided Hess River - Duo Lake (mCH,D map unit).

64° 01' N, 130° 28' W - N.T.S. 106 B - 01

*Polygnathus?* sp.

**Age:** probably Devonian to Carboniferous.

**Collected by:** M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 217-31

#### ***End of sections***

**GSC Loc. C-84617 (WHF) - Sekwi Formation.**  
63° 45.4' N, 130° 16' W - N.T.S. 105 O - 16

*Bonnia* sp.

*Olenellus* sp.

undet. trilobite, cf. Nelson, 1966, Pl. 6, figs. 6-9. 12, 13.

**Age:** Late Early Cambrian *Bonnia-Olenellus* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
C2 WHF1980 79 CJA 110.F-7

**GSC Loc. C-84616 (WHF) - Sekwi Formation.**  
63° 45.1' N, 130° 15.6' W - N.T.S. 105 O - 16

*Ogygopsis* sp.

*Olenellus laxocules?* Fritz

**Age:** Late Lower Cambrian *Bonnia-Olenellus* Zone.

Collected by: M.P. Cecile<sup>1</sup>.  
C2 WHF1980 79 CJA 110.E-6

GSC Loc. C-84624 (WHF) - Upper Sekwi Formation.  
63° 50.7' N, 130° 23' W - N.T.S. 105 O - 16

*Bonnia* sp.  
*Kutorgenia* sp.  
*Olenellus* sp.

Age: Late Early Cambrian *Bonnia-Olenellus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
C2 WHF1980 79 CJA 113.D-2

GSC Loc. C-89061 (BSN) Lower Duo Lake Formation.  
63° 55.7' N, 130° 22.6' W - N.T.S. 105 O - 16

*Caryocaris* sp.  
*Adelograptus* so.  
*Adelograptus?* *antiquus* (Hall)  
*Clonograptus* 2 spp.  
*Kiaerograptus?* df. *K. pritchardi* Hall sensu Jackson non Cooper  
*Tetragraptus* cf. *T. quadribrachiatus* (Hall)

Age: Early Ordovician, early Arenig, *T. approximatus*  
Zone but perhaps a mixed collection with the underlying *A. antiquus* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 211.F-5

GSC Loc. C-89065 (BSN) - Duo Lake Formation  
63° 59.95' N, 130° 28.9' W - N.T.S. 105 O - 16

*Climacograptus* sp.  
*Dicellograptus* 2 spp.  
*Leptograptus?* sp.  
*Orthograptus?* sp.

Age: Middle or Late Ordovician Llandeilo to Ashgill.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 217.B-22

GSC Loc. C-89060 (BSN) - Duo Lake Formation.  
63° 55.4' N, 130° 28' W - N.T.S. 105 O - 16

diplograptid  
*Climacograptus* sp.  
*Dicellograptus* sp.  
*Gymnograptus* sp.

Age: Late Middle Ordovician, Caradoc.  
Collected by: M.P. Cecile<sup>1</sup>.  
O D 1BSN82 80 CJA 211.C-4

GSC Loc. C-84615 (BSN) - Duo Lake Formation.  
63° 45.7' N, 130° 15' W - N.T.S. 105 O - 16

*Climacograptus* ex gr. *C. bicornis* (Hall)

Age: Middle or Late Ordovician, Llandeilo to Ashgill.  
Collected by: M.P. Cecile<sup>1</sup>.  
O-D10BSN79 79 CJA 110.I-8

**GSC Loc. C-84622 (BSN) - Duo Lake Formation, 10 m below C-84621.**  
63° 45.6' N, 130° 28.1' W - N.T.S. 105 O - 16

*Monograptus cf. M. yukonensis* Jackson and Lenz

**Age:** Early Devonian, Pragian, *M. yukonensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 116.G-7

**GSC Loc. C-84621 (BSN) Duo Lake Formation, 10 m above C-84622.**  
63° 45.6' N, 130° 28.1' W - N.T.S. 105 O - 16

*Monograptus?* sp.

**Age:** probably Early Silurian to Early Devonian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 116.G-6

**GSC Loc. C-84625 (BSN) - Duo Lake Formation.**  
63° 52.3' N, 130° 13.8' W - N.T.S. 105 O - 16

*Monograptus ex gr. M. yukonensis* Jackson and Lenz

**Age:** Early Devonian, Lochkovian or Pragian, *M. uniformis* Zone to *M. yukonensis* Zone.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 7BSN79 79 CJA 117.A-2

**GSC Loc. C-89062 (BSN) - Duo Lake Formation.**  
63° 55.4' N, 130° 22.8' W - N.T.S. 105 O - 16

*Diversograptus cf. D. runcinatus* Lapworth

*Glyptograptus?* sp.

*Monograptus aff. M. denticulatus* Törnquist  
*M. spp.*

**Age:** Early Silurian, Middle Llandovery or earliest Late Llandovery.

**Collected by:** M.P. Cecile<sup>1</sup>.  
O-D 1BSN82 80 CJA 211.F-6

**GSC Loc. C-84626 (AWN) - Natla Formation (Dnf Unit).**  
63° 52.9' N, 130° 17' W - N.T.S. 105 O - 16

favositid coral fragments  
atrypid fragments, coarsely costate  
echinoderm ossicle with single axial canal

**Age:** Not determined, but probably Devonian.  
**Collected by:** M.P. Cecile<sup>1</sup>.  
3 AWN 1982 79 CJA 118.C-2

**GSC Loc. C-89106 (TTU and AWN) - Natla Formation (Dnf Unit - basal submarine limestone clast conglomerate - conodonts from clasts + matrix).**  
63° 55.4' N, 130° 22.8' W - N.T.S. 105 O - 16

**Conodonts identified by TTU**  
*Ozarkodina remsciedensis remsciedensis* (Ziegler)

**Age:** late Late Silurian to early Early Devonian, late Pridolian to early Lochkovian.  
**Collected by:** M.P. Cecile<sup>1</sup>.

1 TTU 1982 80 CJA 211.F-7

**Macrofauna identified by AWN**

encrusting stromatoporoid  
auloporid

*Coenites rectilineatus* (Simpson)

undet. small cup coral

cf. *Salopina submurifer* Johnson, Boucot and Murphy

cf. *Atrypa nieczlawiensis* Kozlowski

cf. *Ambocoelia* sp.

*Howellella* sp.

echinoderm ossicle with single axial canal

**Age:** early Lochkovian of early Early Devonian.

**Collected by:** M.P. Cecile<sup>1</sup>.

1 AWN 1980 80 CJA 211.F-7

**GSC Loc. C-89105 (TTU) - Natla Formation (Dnf Unit) 100 m above the Duo Lake Formation, a submarine breccia-conglomerate facies.**

63° 54.9' N, 130° 28.6' W - N.T.S. 105 O - 16

*Pelekygnathus arcticus* Uyeno

*Ozarkodina confluens* (Branson & Mehl) alpha, gama and delta morphotypes of Klapper & Murphy (1975)

*O. excavata excavata* (Branson & Mehl)

*O. remsciedensis* subsp.

*Icriodus?* sp. or *Pedavis?* (3 small I elements)

**Age:** Late Silurian, probably early Pridolian.

**Collected by:** M.P. Cecile<sup>1</sup>.

1 TTU 1982 80 CJA 211.A-1

**GSC Loc. C-84611 (AWN) - Natla Formation (Dnf).**

63° 45.1' N, 130° 13.2' W - N.T.S. 105 O - 16

favositid coral

cup coral fragment

*Conchidium* sp.

*Ancillotoechia* sp.

*Nowakia* sp.

**Age:** Early Devonian.

**Collected by:** M.P. Cecile<sup>1</sup>.

2 AWN 1980, 79 CJA 109.D-1

**GSC Loc. C-84612 (AWN) - Natla Formation (Dnf)**

63° 45' N, 130° 12.9' W - N.T.S. 105 O - 16

*Gasterocoma? bicaula* Johnson & Lane, 1969

echinoderm ossicle with single axial canal

**Age:** late Early Devonian to early Middle Devonian, Zlichovian and Dalejan to earliest Couvinian.

**Collected by:** M.P. Cecile<sup>1</sup>.

2 AWN 1980 79 CJA 109.C-2

**GSC Loc. C-89103 (TTU) - D3b Unit.**

63° 49.2' N, 130° 02.1' W - N.T.S. 105 O - 16

*Palmatolepis glabra* cf. *lepta* Ziegler & Huddle

*P. subgracilis* Bischoff

*P. glabra pectinata* Ziegler  
*P. rhomboidea* Sannemann

Age: Late Devonian, early Famennian, *rhomboidea* Zone.  
Collected by: M.P. Cecile<sup>1</sup>.  
1 TTU 1982 80 CJA 206.C-2

GSC Loc. C-129324 (AWN) - D3b Unit.  
63° 50' N, 130° 16'W - N.T.S. 105 O - 16

cf. *Platyclymenia* sp.

Age: late Late Devonian, Famennian, *Platyclymenia* 'Stufen'.  
Collected by: M.P. Cecile<sup>1</sup>.  
4 AWN 1985 84 CJA 350-MF1

GSC Loc. C-128331 (AWN) - D3b Unit.  
63° 50' N, 130° 16'W - N.T.S. 105 O - 16

undetermined ammonoid impressions and fragments  
cf. *Lamellaptychus* sp.

Age: not determined.  
Collected by: M.P. Cecile<sup>1</sup>.  
4 AWN 1985 84 CJA 350-F1

GSC Loc. C-84610 (AWN) - D2sh, D3 Unit.  
63° 46' N, 130° 06' W - N.T.S. 105 O - 16

plant tissue impressions

Age: not determinable.  
Collected by: M.P. Cecile<sup>1</sup>.  
2 AWN 1980 79 CJA 107.C-05

GSC Loc. C-84604 (AWN) - DMsh Unit.  
63° 45.9' N, 130° 08.2' W - N.T.S. 105 O - 16

plant tissue and impressions,  
some tissue carbonized

Age: not determinable.  
Collected by: M.P. Cecile<sup>1</sup>.  
2 AWN 1980 79 CJA 105.A-02

GSC Loc. C-84561 (TTU) - Msh Unit (limestone bed), ~200 m below the Mq  
Unit.  
63° 45.5' N, 130° 08.2' W - N.T.S. 105 O - 16

No conodonts recovered.

Collected by: M.P. Cecile<sup>1</sup>.  
1 TTU 1982 79 CJA 105.I-14

GSC Loc. C-84560 (TTU) - Msh Unit (limestone bed), ~100 m below the Mq  
Unit.  
63° 45.5' N, 130° 08.2' W - N.T.S. 105 O - 16

No conodonts recovered.

Collected by: M.P. Cecile<sup>1</sup>.  
1 TTU 1982 79 CJA 105.I-13



**LISTS OF UNPRODUCTIVE SAMPLES FROM S.E. 105-0 and adjacent areas**

**225 Unproductive Samples of K.M. Dawson**

1981	C-101985	2094
	C-101986	2095
	C-101987	2101
C-101903	1892	
C-101928	1835	
C-101929	1836	
C-101930	1844	1982
C-101931	1847	
C-101932	1848	C-081651 82DY 2159
C-101933	1849	C-081652 2160
C-101934	1868	C-081653 2163
C-101935	1869	C-081654 2164
C-101936	1870	C-081655 2167
C-101937	1871	C-081656 2169
C-101938	1872	C-081659 2193
C-101939	1874	C-081660 2194
C-101940	1875	C-081661 2197
C-101942	1878	C-081662 2198
C-101943	1880	C-081663 2199
C-101944	1881	C-081664 2200
C-101945	1890	C-081665 2201
C-101946	1891	C-081667 2204
C-101948	1916	C-081668 2206
C-101949	1917	C-081669 2207
C-101951	1920	C-081670 2218
C-101952	1923	C-081671 2219
C-101953	1924	C-081672 2220
C-101954	1925	C-081674 2223
C-101955	1928	C-081676 2317
C-101956	1930	C-081677 2306
C-101957	1931	C-081678 2312
C-101959	1933	C-081679 2276
C-101960	1934	C-081680 2328
C-101961	1936	C-081681 2335
C-101962	1944	C-081682 2337
C-101963	1945	C-081683 2361
C-101964	1946	C-081684 2362
C-101965	1947	C-081687 2377
C-101966	1948	C-081688 2379
C-101967	1952	C-081690 2364
C-101968	1953	C-081692 2380
C-101969	1954	C-081693 2402
C-101970	1956	C-081694 2409
C-101971	1956a	C-081695 2415
C-101972	1957	C-081696 2416
C-101973	1959	C-081697 2433
C-101974	1960	C-081698 2417
C-101975	1961	C-102601 2453
C-101976	1978	C-102602 2454
C-101977	1982	C-102603 2458
C-101980	1988	C-102604 2496
C-101981	1989	C-102605 2501
C-101982	1990	C-102606 2503
C-101983	2046	C-102607 2504
C-101984	2050	C-102608 2506
		C-102609 2507
		C-102610 2508
		C-102611 2509
		C-102613 2518

C-102614	2529	C-103516	2577
C-102615	2530	C-103517	2580
C-102616	2531	C-103519	2586
C-102617	2532	C-103520	2587
C-102618	2535	C-103521	2814
C-102620	2435	C-103522	2884
C-102621	2441	C-103889	2807
C-102626	2540	C-103890	2808
C-102628	2546	C-103892	2810 (CH)
C-102629	2545	C-103893	2815
C-102631	F16-P5	C-103894	2816
C-102632	F 8-P7		

1984

1983

C-102633	83DY	2620	C-103522	84DY-2884
C-102634		2621	C-103523	2933
C-102635		2622	C-103524	2934
C-102636		2727	C-103525	2936
C-102637		2728	C-103526	2937
C-102638		2730		
C-102639		2731		
C-102640		2732		
C-102641		2733	C-103527	85DY-3186A
C-102642		2734	C-103528	3186B
C-102644		2740	C-103529	3186C
C-102647		2796	C-103530	3186D
C-102649		2802	C-118501	3091
C-102650		2803	C-118502	3129
C-103010		2599	C-118503	3140
C-103011		2601	C-118504	3141
C-103013		2657	C-118505	3149
C-103014		2679	C-118506	3150
C-103015		2680	C-118508	3152
C-103016		2682	C-118509	3153
C-103017		2683	C-118511	3159
C-103018		2684	C-118512	3160
C-103019		2687	C-118513	3161
C-103020		2688	C-118514	3162
C-103022		2691	C-118515	3163
C-103023		2694	C-118516	3147
C-103024		2695	C-118517	3148
C-103026		2697	C-118518	3167
C-103027		2698	C-118519	3168
C-103029		2702	C-118520	3169
C-103030		2703	C-118521	3170
C-103031		2705	C-118522	3173
C-103035		2712	C-118523	3175
C-103036		2741	C-118524	3176
C-103039		2748	C-118525	3177
C-103041		2754	C-118527	3182
C-103042		2755	C-118528	3171
C-103050		2779		
C-103501		2806		
C-103502		2811		
C-103503		2813A		
C-103504		2813B	C-103531	86DY-3187
C-103511		2822	C-103532	3188
C-103510		2825	C-103533	3189
C-103512		2572	C-103534	3190
C-103514		2573	C-103535	3191

C-103536	3192
C-103537	3192A
C-103538	3193
C-103539	3194
C-103540	3195
C-103541	3196
C-103542	3197
C-103543	3198
C-103544	3199
C-103545	3200
C-103546	3201

135 unproductive samples of J.G. Abbott thru 1990

Field No.	GSC No.		
90TOA-4-4	C-108290	83TOA-14-1	C-108158
90TOA-5-3	C-108291	83TOA-32-6	C-108162
90TOA-11-2	C-108294	82TOA-37-0	C-089961
90TOA-12-2	C-108296	82TOA-38-2	C-089952
90TOA-18-4	C-108300	82TOA-41-2	C-089955
90TOA-19-1	C-108256	82TOA-41-6	C-089956
89TOA-6-3	C-108251	82TOA-43-1	C-089963
89TOA-6-4	C-108252	82TOA-45A-0	C-089970
89TOA-9-2	C-108253	82TOA-47-303	C-089965
89TOA-12-5	C-108254	82TOA-47-609	C-089966
89TOA-18-4	C-108255	82TOA-50-5	C-089969
89TOA-29-2A	C-108258	82TOA-68-1	C-089978
89TOA-29-4A	C-108259	82TOA-74-5	C-089979
89TOA-29-4C	C-108260	82TOA-75-2	C-089980
89TOA-32-2A	C-108261	82TOA-75-3	C-089981
89TOA-CH-36-4	C-108222	82GA-TOA-8-1	C-089928
89TOA-38-6	C-108262	82GA-TOA-28-1	C-089937
89TOA-42-1	C-108265		
89TOA-42-4	C-108266	Field No.	GSC No.
89TOA-42-5	C-108267	82GA-TOA-28-2	C-089938
89TOA-43-6	C-108270	82GA-TOA-29-2	C-089934
89TOA-44-8	C-108271	82GA-TOA-29-3	C-089935
89TOA-47-2	C-108274	82GA-TOA-31-3	C-089941
89TOA-48-4	C-108276	82GA-TOA-33-1	C-089945
89TOA-51-2	C-108283	81GA-4-1	C-102262
89TOA-CH-52-4	C-108224	81GA-4-7	C-102263
89TOA-CH-52-5	C-108223	81GA-4-8	C-102264
89TOA-53-1	C-108285	81GA-6-6	C-102268
89TOA-CH-MP54-4	C-108219	81GA-6-9	C-102270
89TOA-56-2	C-108286	81GA-8-2	C-102275
89TOA-CH-65-4	C-108228	81GA-11-5	C-102279
88TOA-4-8	C-108206	81GA-11-8	C-087685
88TOA-21-1	C-108111	81GA-13-4	C-102282
88TOA-24-1	C-108212	81GA-13-5	C-102283
88TOA-30-0	C-108112	81GA-13-6	C-102284
88TOA-52-4	C-108214	81GA-13-7	C-102285
88TOA-T33	C-108215	81GA-13-8	C-102286
87OF-TOA-1-1	C-108204	81GA-15-3	C-102288
87OF-TOA-58-1	C-108201	81GA-15-4	C-102289
87OF-TOA-11-2	C-108203	81GA-17-6	C-102291
84TOA-82-3-1	C-108163	81GA-19-3	C-102292
84TOA-82-3-7	C-089949	81GA-19-9	C-102293
83TOA-4-4	C-108151	81GA-20-8	C-102294
83TOA-9-3	C-108156	81GA-21-5	C-102295
83TOA-10-4	C-108157	81GA-21-6	C-102296
		81GA-23-4	C-102297
		81GA-25-6	C-102298
		81GA-26-1	C-102299

81GA-26-2	C-102300
81GA-27-10	C-102301
81GA-29-3	C-102302
81GA-29-10	C-102304
81GA-29-11	C-102305
81GA-29-12	C-102306
81GA-29-13	C-102307
81GA-30-1	C-102308
81GA-32-3	C-102310
81GA-35-1	C-102312
81GA-36-2	C-102314
81GA-36-5	C-102317
81GA-37-2	C-102318
81GA-40-6	C-102319
81GA-41-874-5m	C-102323
81GA-41-0m	C-102324
81GA-42-5	C-102326
81GA-43-6	C-102327
81GA-44-0m	C-102328
81GA-44-45m	C-102329
81GA-44-252m	C-102333
81GA-44-121-5m	C-102330
81GA-44-187-5m	C-102331
81GA-44-205-5m	C-102332
81GA-46-1	C-102334
81GA-46-2	C-102335
81GA-47-2	C-102337
81GA-47-3	C-102338
81GA-50-1	C-102341
81GA-50-6	C-102343
81GA-52-1	C-102344
81GA-53-213m	C-102346
81GA-58-4	C-102348
81GA-58-5	C-102349
81GA-59-1	C-102350
81GA-D-1a	C-102250
81GA-6F	C-102251
81GA-17a-3	C-101866
81GA-38F	C-102253
81GA-75-3	C-102254
81GA-75-26	C-102255
81GA-76-2	C-102256
81GA-78b	C-102257
81GA-81b-3	C-102258

**10 Unproductive samples of I.R. Jonasson and J.W. Lydon**

FIELD No.	GSC No.
81MJO-0181	C-101815
81MJO-0281	C-101816
81MJO-0781	C-101820
85IRJ-T1	C-118939
85IRJ-T2	C-118940
85IRJ-DDH-36-1 (CH)	C-117905
85IRJ-DDH-36-2 (CH)	C-117904
85IRJ-DDH-39 (CH)	C-117903
85IRJ-DDH-45	C-117902
85IRJ-DDH-46	C-117901