UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SELECTED GEOLOGIC FIELD DATA COLLECTED IN 1975, KETCHIKAN AND CRAIG QUADRANGLES, SOUTHEASTERN ALASKA

By

Henry C. Berg and A. Marianne Fujii

Menlo Park, Calif.

1976

76-490

SELECTED GEOLOGIC FIELD DATA COLLECTED IN 1975, KETCHIKAN AND CRAIG QUADRANGLES, SOUTHEASTERN ALASKA

By

Henry C. Berg and A. Marianne Fujii

INTRODUCTION

This report consists of a computer printout of selected geologic field data recorded by H.C. Berg from July 2 to August 31, 1975 in parts of the Ketchikan (KC) and Craig (CR) 1:250,000-scale quadrangles, Alaska (fig. 1). It contains edited and revised preliminary observations on structure, lithology, mineralogy, metamorphism, and mineral occurrences. Areas covered by the observations include southern Etolin and adjacent islands, parts of Cleveland Peninsula, and southwestern Revillagigedo and adjacent islands (figs. 2 and 3). A preliminary geologic map incorporating only the Craig portion of the data has been released (Berg and others, 1976). However, the printout includes the latitude-longitude coordinates of each field station, so that the user can locate the observations within a few metres on ordinary topographic maps.

The information in this report was transferred from geologic fieldsheets (fig. 4) to computer storage using the method described by Hudson and others (1975). A. Marianne Fujii transcribed the data from the fieldsheets; Betsy Yount and Frances Wahl helped to update the computer file and prepare it for publication; and Bruce Salem wrote the interactive computer program that greatly facilitated entry of the fieldnotes into the computer file.

RECORDING STRUCTURAL DATA

In this report, attitudes of structural features are recorded as two numbers separated by a slash. Such notation facilitates computer translation of structural data to a format suitable for computer-generated fabric diagrams.

--Strike and dip of planar structures: The first number is the azimuth of the strike; the second number is the amount of dip. The direction of dip need not be specified because the strike is always read as an azimuth with the dip to the right. For example, on figure 4, 346/44 means that the foliation strikes N. 14° W., and dips 44° NE.

--Bearing and plunge of linear features: The first number is the azimuth of the direction of plunge; the second number is the amount of plunge.

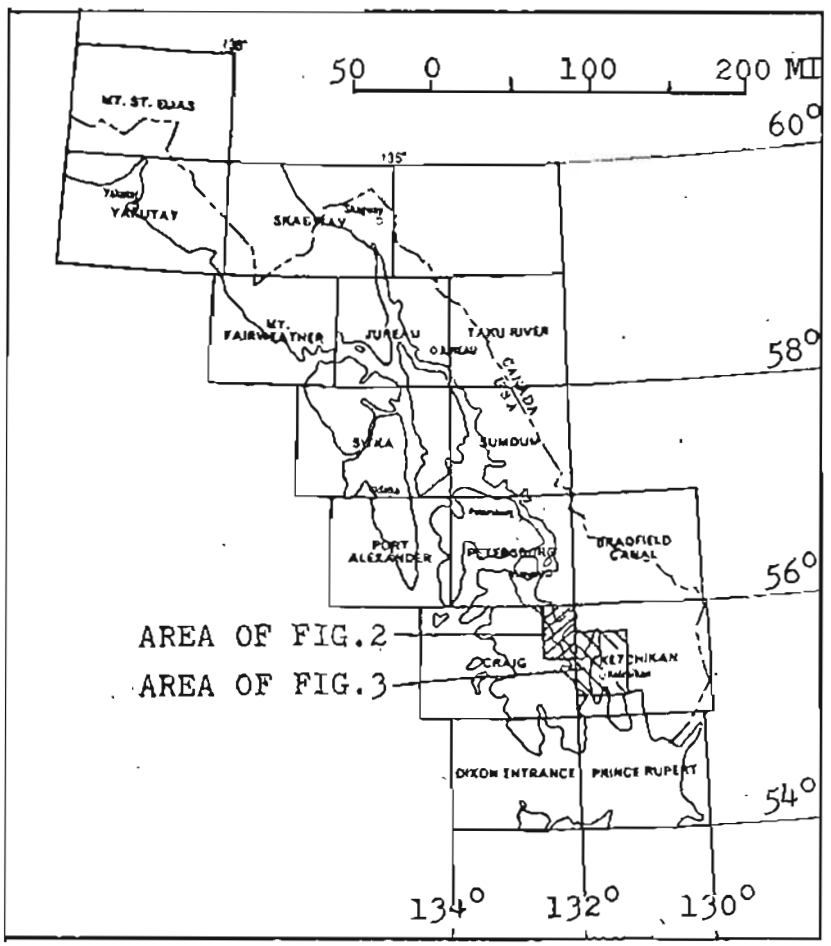

Figure 1.--Index map of southeastern Alaska showing Ketchikan and Craig quadrangles and area of this report.

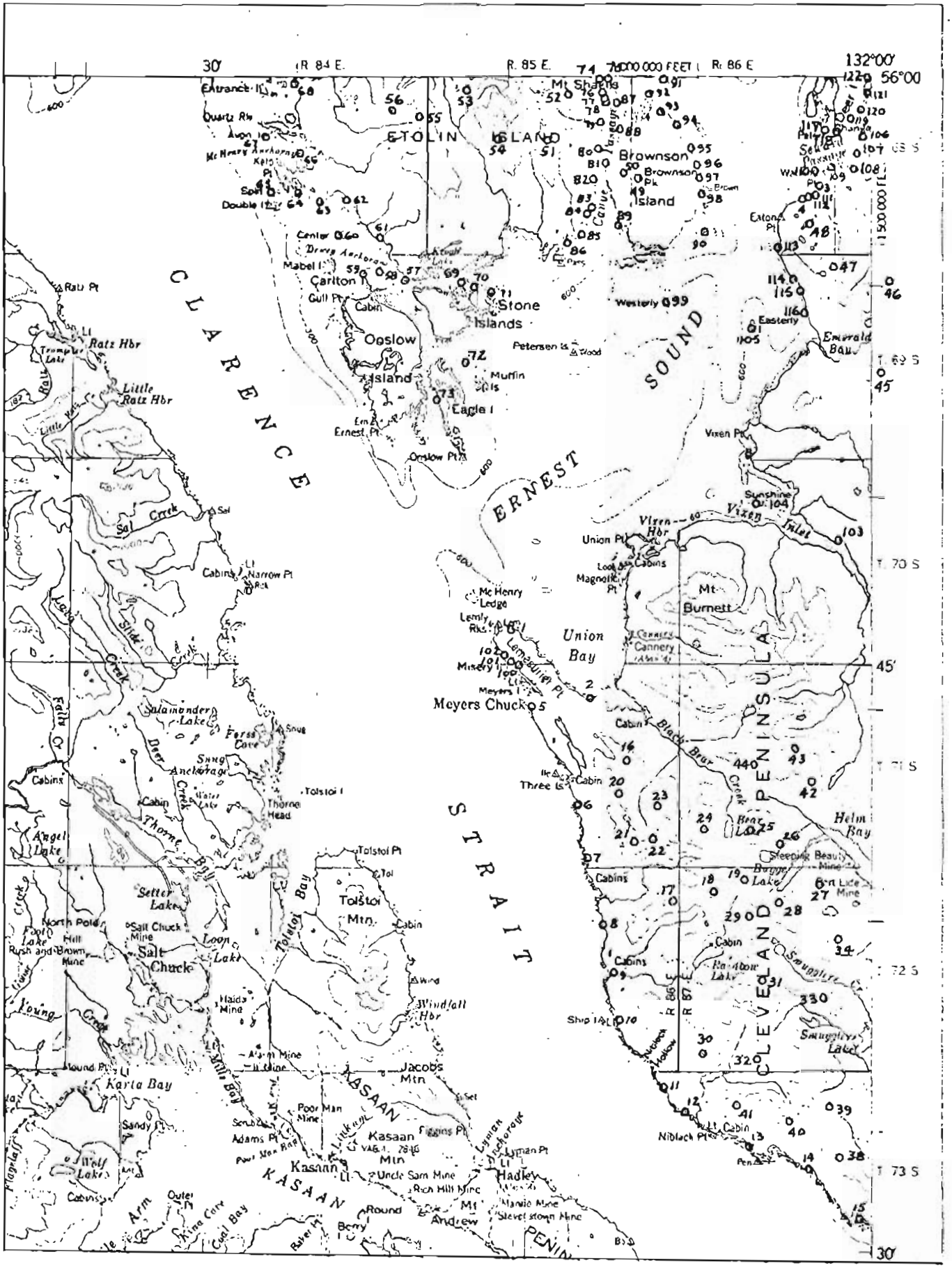

Figure 2.--Locations in the Craig quadrangle described in this report. Prefix 75ABg (+leading zeroes) to correlate with stations on pages 1-223. Base is U.S. Geological Survey Alaska Topographic Map Series, 1957, scale 1:250,000.

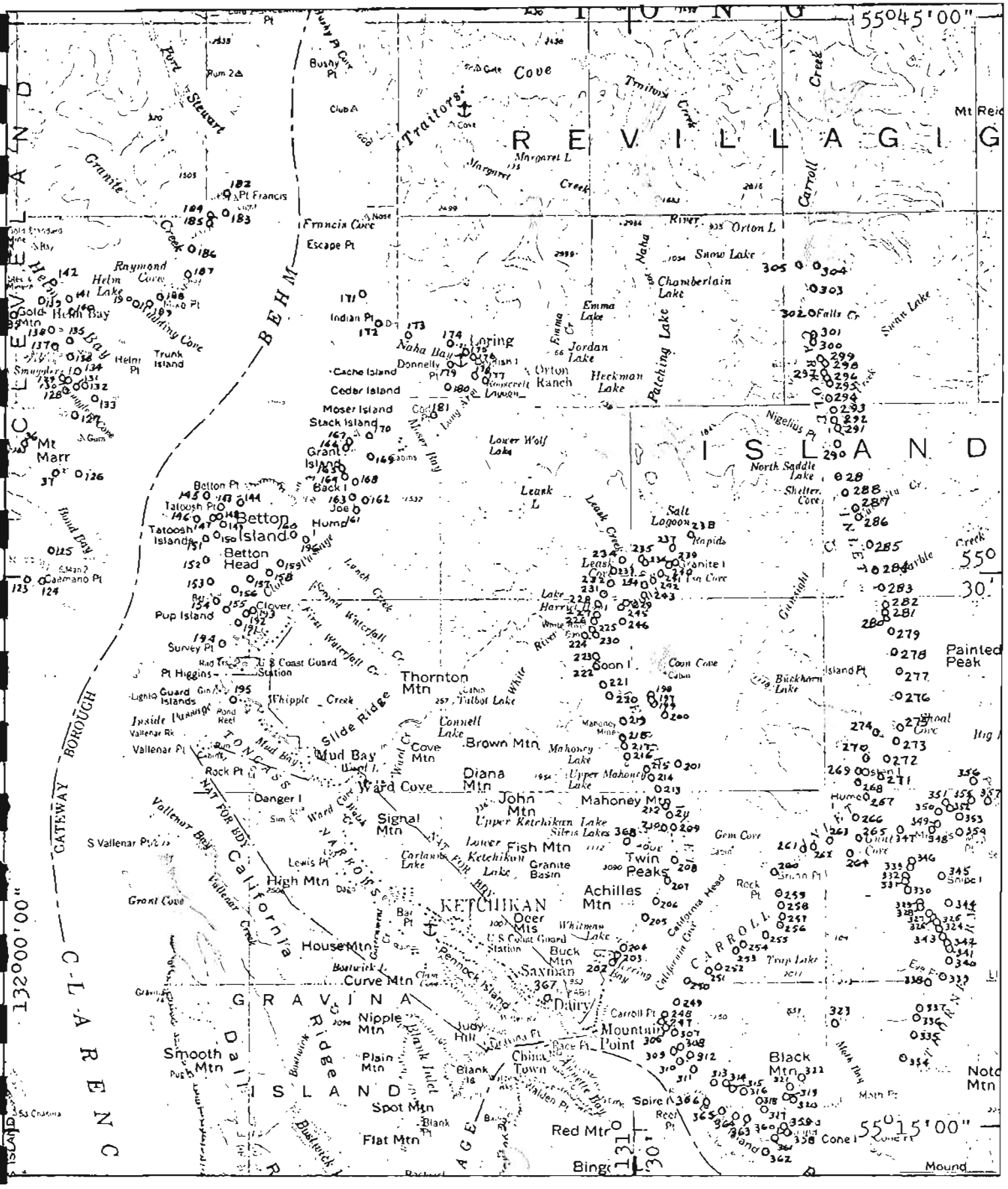

Figure 3.--Locations in the Ketchikan quadrangle described in this report. Prefix 75ABg (+leading zeroes) to correlate with stations on pages 1-223. Base is U.S. Geological Survey Alaska Topographic Map Series, 1955, scale 1:250,000.

FRONT

STATION 7 5 A B g 0 2 0 0 PG ___ OF ___ DATE 7/31 QUAD KC B-5

LAT 5 5 2 6 1 5 LONG 1 3 1 2 8 2 9 AIRPHOTO ___

PHOTOS ___ SKETCH ___

PURPOSE: (GEOL), GEOCHEM, ___ TEXT TOPICS: (LITH), STRUCT, (STRAT),

FOSS, GEOMORPH, ECON GEOL, (REG GEOL/TECT), CHEM ANALYSIS

++

STRUCTURE ___

BEDDING ___ AXIAL PLANE ___

FOL/SCH 346/44 FOLD AXIS ___

CLEAVAGE ___ OTHER LIN ___

JOINT ___

FAULT/SHEAR ___

++

TEXT:

RECRYSTALLIZED BASALTIC PILLOW FLOWS AND TUFF. UNIT IS DARK GREEN.

FOL/SCH = COMP LAYERING. SHAPE OF DEFORMED PILLOWS INDICATES THAT BEDS AT STATION ARE RIGHT-SIDE-UP.

THE PILLOWS ARE MODERATELY TO STRONGLY DEFORMED, BUT FEW ARE MAREDLY FISSILE. THE LARGEST IS ABOUT A METER IN MAX DIMENS. NOT MUCH CARBONATE BETW PILLOWS.

CREEK JUST E. OF STATION FLOWS ALONG CONTACT BETWEEN METAVOLC (FISSILE ADJACENT TO CREEK) AND CALCAREOUS? RX EAST OF CREEK.

COULD THIS UNIT GO TO AMPHIBOLITE IN CRB?

BACK

SAMPLE NO 7 5 A B g 0 2 0 0 A UNIT Pzv or Trv

SOURCE: (OTC), RUBBLE, FLOAT, ___ TYPE: (REPRES), GRAB, COMP, CHIP, ___

SSS, PAN CONC, SOIL, BOT, FOSS, ___

PURPOSE: HAND SPEC, (T. S), POL SECT, STAIN SLAB, MODE, (CHEM), SPEC,

MIN SEP, K-AR, X-RAY, C-14, FOSS DETER, ___

DESCRIPT: INTR, (EXTR), SED, (MET), MINLZD, UNCNSL, ___

LITH METABASALT FORM PILLOW FLOW

MINS: QTZ (PLAG) KSPR HBL BIO PX PY CARB AND KY SILL ___

ACT CHL EP/CLZ FSPR GARN GRAPH MAG MUSC SERP ___

TEXTURE APHANITIC

COND: (FRESH), ALTER ___

REMARKS:

CORE OF PILLOW.

SAMPLE NO 7 5 A B g 0 2 0 0 B UNIT Pzv OR Trv

SOURCE: (OTC), RUBBLE, FLOAT, ___ TYPE: (REPRES), GRAB, COMP, CHIP, ___

SSS, PAN CONC, SOIL, BOT, FOSS, ___

PURPOSE: HAND SPEC, (T. S), POL SECT, STAIN SLAB, MODE, (CHEM), SPEC,

MIN SEP, K-AR, X-RAY, C-14, FOSS DETER, ___

DESCRIPT: INTR, (EXTR), SED, (MET), MINLZD, UNCNSL, ___

LITH METABASALT FORM PILLOW FLOW

MINS: QTZ (PLAG) KSPR HBL BIO PX PY CARB AND KY SILL ___

ACT CHL EP/CLZ FSPR GARN GRAPH MAG MUSC SERP ___

TEXTURE APHANITIC – VESICULAR

COND: (FRESH), ALTER ___

REMARKS:

RIM OF PILLOW.

Figure 4. --Facsimile of fieldsheet showing data recorded at typical field station.

ABBREVIATIONS

There are many abbreviations in this report because they commonly are used during geologic mapping to save time and space. Most of the abbreviations are the same as, or simple variants of, ones used by many field geologists.

--The following abbreviations for structural features are used in this report:

Linear feature

B/C--bedding-cleavage intersection
FA--fold axis
K--kink band
M--alinement of minerals
S, STR, str--striation (mostly denotes axes of microfolds)
Wrink--wrinkle

Planar feature

AP--axial plane of fold
Comp layerg--compositional layering (less specific than "bedding" or "foliation" in metamorphosed stratified rocks)
Fol/sch=comp layerg--foliation or schistosity and compositional layering are parallel in strike and dip
Dill--semiconcordant (sill-like) dike

--Certain abbreviations apply specifically to geologic features in the Ketchikan area or to nearby parts of southeastern Alaska. Their meanings, together with references to the reports that explain them more fully, follow:

CRB--Coast Range Batholith (Berg and others, in press)
GFWSA--Granite Fiords wilderness study area (Berg and others, in press)
Grav Isl Fm, GIF--Gravina Island Formation (Berg, 1973)
G-N belt--Gravina-Nutzotin belt (Berg and others, 1972)
KJgv--Metavolcanic rocks of the Gravina Island Formation (called Jgv in Berg, 1973)

--Following is a partial list of abbreviations used for rocks, minerals, and other geologic terms in this report. Lower-case letters commonly are substituted for capital letters:

Actinolite--AC, ACT
Agglomerate--AGGLOM
Alter, altered, alteration--ALT, ALTD, ALTN
Amphibole, amphibolite--AM
Aplite--AP
Argillaceous, argillite--ARGIL, ARGILL
Bed, bedded, bedding--BD, BDD, BDDG
Biotite--BI, BIO
Calcite, calcareous--CALC
Carbonate--CARB
Chalcopyrite--CP
Chlorite--CHL, CL
Clinozoisite--CLZ, CZ
Correlate, correlation--COR, CORREL, CORRELN
Crystal, crystallization--XL, XLN
Dark--DK
Diorite--D, DI, DIO
Epidote--EP, EPID
Euhedral--EU
Extrusive--EXTR
Fault, faulted, faulting--FLT, FLTD, FLTG
Feldspar--FDSPR, FSPR
Felsic--FLSC
Ferromagnesian--FEMAG
Fine--F, FN
Foliated, foliation--FOL, FOLN, FOLTD
Formation--FM
Garnet--GA, GARN
Grain, grained--G, GN, GD
Granoblastic--GBLSTC
Granodiorite--GD, GDIO
Hornblende--HBL, HO
Hornfels--HFLS
Igneous--IG, IGN
Intrusive, intrusion--INT, INTR
Iron-stained--FE-ST
Kyanite--KY
Lamprophyre--LAMP, LAMPRO
Light--LT
Local, locally, locate, location--LOC, LOCN
Magnetite--MAG
Massive--MSV
Metamorphic, metamorphism, metamorphosed--M, MET, META, METD
Muscovite--MU, MUSC
Outcrop--OTC, OTCP
Phenocryst--PXT
Phyllite, phyllitic--PHY, PHYLL, PHYTC
Plagioclase--PC, PLAG
Pluton, plutonic--PLUT
Porphyritic, porphyry--PORP, PORPHTC
Porphyroblastic--PBLSTC
Potassium feldspar--KSPR
Ptygmatic--PTYG
Pyrite--PY
Pyroxene--PX
Pyroxenite--PXTE
Quartz--QTZ, QZ
Quartz diorite--QD, QDIO
Quartz monzonite--QM, QMONZ
Recrystallized--RXLD
Recrystallization--RXLN
Relative, relatively--REL
Representative--REPR
Rock, rocks--RK, RX
Sample--SPL
Schist, schistose--SC, SCH
Sediment, sedimentary--SED
Shear--SHR
Sillimanite--SI, SIL, SILL
Specimen--SPEC
Spectrographic analysis--SPEC
Staurolite--STAUR
Tectonic, tectonism--TECT
Texture--TEXT
Thick, thickness--TK, TKNS
Thin--TN
Thin section--TS
Turbidite--TURB
Ultramafic--UM
Vein, veinlet--VN, VNLT
Volcanic--VOLC
Volcaniclastic--VOLCCLSTC
Weathers, weathering--WX
Zinc--ZN
Zone, zoned--ZN, ZND

REFERENCES

Berg, H.C., Geology of Gravina Island, Alaska: U.S. Geol. Survey Bull. 1373, 41 p.

Berg, H.C., Elliott, R.L., Koch, R.D., Carten, R.B., and Wahl, F.A., Preliminary geologic map of the Craig D-1 and parts of the Craig C-1 and D-2 quadrangles, Alaska: U.S. Geol. Survey open-file rep. 76-430, 1 sheet, scale 1:63,360.

Berg, H.C., Elliott, R.L., Smith, J.G., Pittman, T.L., and Kimball, A.L., Mineral resources of the Granite Fiords wilderness study area, Alaska: U.S. Geol. Survey Bull. 1403 (in press).

Berg, H.C., Jones, D.L., and Richter, D.H., 1972, Gravina-Nutzotin belt--tectonic significance of an upper Mesozoic sedimentary and volcanic sequence in southern and southeastern Alaska, in U.S. Geol. Survey research 1972: U.S. Geol. Survey Prof. Paper 800-D, p. D1-D24.

Hudson, T.L., Askevold, G.A., and Plafker, George, 1975, A computer-assisted procedure for information processing of geologic field data: U.S. Geol. Survey Jour. Research v. 3, no. 3, p. 369-375.

```
75Bg0001              STATION = 75ABg0001;
75Bg0001              DATE = 7/2/75;
75Bg0001              QUAD = CR D-1;
75Bg0001              LAT = 55/45/55;
75Bg0001              LONG = 132/16/10;
75Bg0001              PURPOSE = Geol;
75Bg0001
75Bg0001   TEXT-TOPIC = Lith, Struct;
75Bg0001
75Bg0001   STRUCTURE;
75Bg0001        FOL-SCH = 270/65;
75Bg0001        FOLD-AXIS = 335/45;
75Bg0001
75Bg0001SA SAMPLE NUMBER = 75ABg001A;
75Bg0001SA      UNIT = GRAV ISL FM;
75Bg0001SA      SOURCE = OTC;
75Bg0001SA      TYPE = Repres;
75Bg0001SA      PURPOSE = Hand Spec;
75Bg0001SA      DESCRIPTION = Extr, Mat;
75Bg0001SA      LITH = Andes metatuff;
75Bg0001SA      FORM = Msv to thin layers;
75Bg0001SA      MINS = Plag, Act, Chl, Ep/Clz;
75Bg0001SA      TEXTURE = Foliated;
75Bg0001SA      CONDITION = Fresh;
75Bg0001SA
75Bg0001T  TEXT = Fol/Sch = Comp layerg.  Attitude meas on 0.5 m wide zone of thinly interlayered rexld volc siltst.
75Bg0001T         in rel massive fragmental andesitic metatuff and agglom.  Unit is typical
75Bg0001T        Gravina Isl FM
75Bg0001T        (GIF), w/ prominent relict femag pxts.  Qtz + calcite vnlts and lenses up to 1 m long and 3 cm
75Bg0001T        wide parallel foln.  Fold axis meas on isocl sal foli 0.3 m in size.  AP= comp layerg.;
75Bg0001  ----------------------------------------------------------------------------------------------
*
75Bg0002              STATION = 75ABg0002;
75Bg0002              DATE = 7/2/75;
75Bg0002              QUAD = CR C-1;
75Bg0002              LAT = 55/44/08;
75Bg0002              LONG = 132/12/30;
75Bg0002              PURPOSE = Geol;
75Bg0002
75Bg0002   TEXT-TOPIC = Lith, struct, strat;
75Bg0002
75Bg0002   STRUCTURE;
75Bg0002        FOL-SCH = 320/30;
75Bg0002        FAULT-SHEAR = 320/30;
75Bg0002        AXIAL-PLANE = approx. 135/v;
75Bg0002        FOLD-AXIS = 135/12;
75Bg0002
75Bg0002SA SAMPLE NUMBER = 75ABg0002A;
75Bg0002SA      UNIT = GRAV ISL FM;
75Bg0002SA      SOURCE = OTC;
75Bg0002SA      TYPE = Repres;
75Bg0002SA      PURPOSE = Hand Spec, T. S.;
75Bg0002SA      CONDITION = Fresh;
75Bg0002SA      REMARKS = Sheared femag XL metatuff: Grades into rel msv Gravina Isl Fm.;
75Bg0002SA
75Bg0002SA SAMPLE NUMBER = 75ABg0002B;
75Bg0002SA      UNIT = Grav Isl Fm;
75Bg0002SA      SOURCE = OTC;
75Bg0002SA      TYPE = Repres;
75Bg0002SA      PURPOSE = Hand spec, T. S.;
```

```
75Bg0002SA        CONDITION = Alter - weath orange;
75Bg0002SA        REMARKS = More intensely sheared metatuff than 0002A, but gradational with it.;
75Bg0002SA
75Bg0002SA SAMPLE NUMBER = 75ABg0002C;
75Bg0002SA        UNIT = Grav Isl Fm;
75Bg0002SA        SOURCE = OTC;
75Bg0002SA        TYPE = Repres;
75Bg0002SA        PURPOSE = Hand spec, T. S.;
75Bg0002SA        MINS = Qtz, Py;
75Bg0002SA        CONDITION = Alter  - weath red/orange;
75Bg0002SA        REMARKS = Siliceous, pyritic cataclastic- appearing rock that may be xtremely milled, rexld
75Bg0002SA        REMARKS = and altd andesitic metatuff;
75Bg0002SA
75Bg0002SA SAMPLE NUMBER = 75ABg0002D;
75Bg0002SA        UNIT = Grav Isl Fm;
75Bg0002SA        SOURCE = OTC;
75Bg0002SA        TYPE = Repres;
75Bg0002SA        PURPOSE = Hand spec, T. S.;
75Bg0002SA        MINS = Carb;
75Bg0002SA        CONDITION = weath orange;
75Bg0002SA        REMARKS = Mainly ferrug dolomite w/ paperthin laminae of green phyllitic metatuff.  Did rk
75Bg0002SA        REMARKS = orig by Calc alteration in shear zone or was it a calcareous bed in GI Fm?;
75Bg0002SA
75Bg0002T  TEXT = Alternatg zones of Dk Gn GIF-type andesitic metatuff and agglom alt w/
75Bg0002T         zones of    orange
75Bg0002T         to maroon weath phyllitic metatuff and minor dolomite.  The phyllitic metatuff contains flattened
75Bg0002T         femag xls? and lithic mater (pumice) and appears to grade into more or less typic femag-xl andesitic
75Bg0002T         metatuff.  Some of the orange unit = vy siliceous & pyrytic---poss = cataclasite.
75Bg0002T         Question: Is coloration, deformation, and composition tect, or due to orig diffs in comp & texture.
75Bg0002T         wrkg. hyp is that zones are tect in origin and that they may mark upper boundary of G-N terrane
75Bg0002T         thrust beneath overlyg Taku-Skolai terrane.  If so, zone is close to 320/30.
75Bg0002T         Zone of alt red & green rx.  Needs to be mapped carefully.;
75Bg0002  ----------------------------------------------------------------------------------------------
#
75Bg0003              STATION = 75ABg0003;
75Bg0003              DATE = 7/4/75;
75Bg0003              QUAD = CR D-1;
75Bg0003              LAT = 55/57/12;
75Bg0003              LONG = 132/02/20;
75Bg0003              PURPOSE = Geol;
75Bg0003
75Bg0003   TEXT-TOPIC = Lith, struct, strat;
75Bg0003
75Bg0003   STRUCTURE:
75Bg0003         BEDDING = 303/70;
75Bg0003         FOL-SCH = 303/70;
75Bg0003         AXIAL-PLANE = 275/80;
75Bg0003         FOLD-AXIS = 94/48(A1);
75Bg0003         OTHER-LIN = 94/5-35(A);
75Bg0003
75Bg0003SA SAMPLE NUMBER = 75ABg0003A;
75Bg0003SA        UNIT = GIF?;
75Bg0003SA        SOURCE = OTC;
75Bg0003SA        TYPE = Repres;
75Bg0003SA        PURPOSE = Hand spec, T. S.;
75Bg0003SA        DESCRIPTION = Sed, met;
75Bg0003SA        LITH = Rexld sed rx;
75Bg0003SA        FORM = Bedded;
75Bg0003SA        MINS = Sio, Ky, staur, garn;
75Bg0003SA        TEXTURE = Foliated;
75Bg0003SA        CONDITION = Fresh;
```

```
75Bg0003SA        REMARKS = Metd turbidite;
75Bg0003SA
75Bg0003SA SAMPLE NUMBER = 75ABg0003B;
75Bg0003SA        UNIT = GIF?;
75Bg0003SA        SOURCE = OTC;
75Bg0003SA        TYPE = Repres;
75Bg0003SA        PURPOSE = Hand spec, T. S.;
75Bg0003SA        DESCRIPTION = Sed, met;
75Bg0003SA        LITH = Rexld sed rx;
75Bg0003SA        FORM = Bedded;
75Bg0003SA        MINS = Bio, Ky, Staur, Garn;
75Bg0003SA        TEXTURE = Foliated;
75Bg0003SA        CONDITION = Fresh;
75Bg0003SA        REMARKS = Metd turbidite.;
75Bg0003SA
75Bg0003SA SAMPLE NUMBER = 75ABg0003C;
75Bg0003SA        UNIT = GIF?;
75Bg0003SA        TYPE = Repres;
75Bg0003SA        PURPOSE = Hand spec, T. S.;
75Bg0003SA        DESCRIPTION = Sed, met;
75Bg0003SA        LITH = Rexld sed rx;
75Bg0003SA        FORM = Bedded;
75Bg0003SA        CONDITION = Fresh;
75Bg0003SA        REMARKS = Poss calcsilicate-rich layers in rexld turbidite.;
75Bg0003SA
75Bg0003SA SAMPLE NUMBER = 75ABg0003D;
75Bg0003SA        UNIT = GIF?;
75Bg0003SA        SOURCE = OTC;
75Bg0003SA        TYPE = Repres, grab;
75Bg0003SA        PURPOSE = Spec;
75Bg0003SA        FORM = Vein;
75Bg0003SA        MINS = Qtz, chl;
75Bg0003SA        CONDITION = Alter;
75Bg0003SA        REMARKS = Iron-stained glassy & vggy Qtz vn cont streaks of green micaceous minl. See no
75Bg0003SA        REMARKS = sulfides or other metallic mins.;
75Bg0003SA
75Bg0003T  TEXT = Well-bedded rexld flysch cont staurolite, kyanite, garnet & biotite. Some layers appear to have
75Bg0003T         been sandy or silty lst and weath brn. There are also sparse layers of calcsilicate-rich rock
75Bg0003T         rich in Ep & GA. Most of unit, however, is thinly intercalated rexld sltstn & argill & closely
75Bg0003T         resembles the flysch facies of GIF. Layers avg less thn 0.5m. Isoclinal sml folds and
75Bg0003T         boudinaged beds are common. Rx do not seem to be polydef, mainly because bedding is so well
75Bg0003T         preserved. Qtz vns, lenses to 0.5 m or so tk and 3 m or more long both parallel & cut layerg.
75Bg0003T         Petroglyphs on float boulder. If this unit is Jura-Cret, it may be back-arc facies of GIF.
75Bg0003T         It cert is nonvolcanic.;
75Bg0003  ------------------------------------------------------------------------------------------------
#
75Bg0004              STATION = 75ABg0004;
75Bg0004              DATE = 7/4/75;
75Bg0004              QUAD = CR D-1;
75Bg0004              LAT = 55/56/48;
75Bg0004              LONG = 132/03/25;
75Bg0004
75Bg0004   TEXT-TOPIC = Lith, struct;
75Bg0004
75Bg0004SA SAMPLE NUMBER = 75ABg0004A;
75Bg0004SA        SOURCE = OTC;
75Bg0004SA        TYPE = Repres;
75Bg0004SA        PURPOSE = Hand spec, K-Ar;
75Bg0004SA        DESCRIPTION = Intr;
75Bg0004SA        LITH = Quartz diorite;
75Bg0004SA        FORM = Stock?;
```

```
75Bg0004SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0004SA      TEXTURE = Msv - Fol;
75Bg0004SA      CONDITION = Fresh;
75Bg0004SA      REMARKS = Inclusion-free, rather dark quartz diorite.;
75Bg0004SA
75Bg0004T  TEXT = Massive HD-BI quartz diorite.  Rk is wkly foliated in places, rel free of inclusions or xenoliths
75Bg0004T         at spl locality.  See no GA.  I believe this intrusive is part of CR Bath, & not correlative with
75Bg0004T         Garn - bearing foliated & porphyritic QD to SW.  GA-bearing QD seems to be spatially related to G-B
75Bg0004T         belt volcanics and may be late Mz.  Intrusive at the locality most likely is younger and may
75Bg0004T         correl w/ 45-50 m.y. old plutons in westernmost GPWSA.;
75Bg0004  ----------------------------------------------------------------------------------------------------
#
75Bg0005            STATION = 75ABg0005;
75Bg0005            DATE = 7/4/75;
75Bg0005            QUAD = CR C-1;
75Bg0005            LAT = 55/43/57;
75Bg0005            LONG = 132/15/05;
75Bg0005            PURPOSE = Geol, geochem;
75Bg0005
75Bg0005   TEXT-TOPIC = Lith, strat;
75Bg0005
75Bg0005   STRUCTURE;
75Bg0005        BEDDING = 310/55;
75Bg0005
75Bg0005SA SAMPLE NUMBER = 75ABg0005A;
75Bg0005SA      UNIT = GIF;
75Bg0005SA      SOURCE = OTC;
75Bg0005SA      TYPE = Repres;
75Bg0005SA      PURPOSE = Hand spec;
75Bg0005SA      DESCRIPTION = Extr, Met;
75Bg0005SA      LITH = Andesitic meta-agglomerate;
75Bg0005SA      FORM = Bedded;
75Bg0005SA      MINS = Plag, Hbl, Ep/Clz;
75Bg0005SA      TEXTURE = Weakly foliated;
75Bg0005SA      CONDITION = Fresh;
75Bg0005SA      REMARKS = Typical rexld andesitic agglomerate - conspic femag xls - clasts sl to mod
75Bg0005SA      REMARKS = flattened--up to a m or so in max dimens.;
75Bg0005SA
75Bg0005SA SAMPLE NUMBER = 75ABg0005B;
75Bg0005SA      UNIT = GIF;
75Bg0005SA      SOURCE = OTC;
75Bg0005SA      TYPE = Repres;
75Bg0005SA      PURPOSE = Hand spec;
75Bg0005SA      DESCRIPTION = Extr, Met;
75Bg0005SA      LITH = Andesitic metatuff;
75Bg0005SA      MINS = Plag, Hbl;
75Bg0005SA      TEXTURE = Weakly foliated;
75Bg0005SA      CONDITION = Fresh;
75Bg0005SA      REMARKS = Typical andesitic metatuff from rel well-bedded part of unit.;
75Bg0005SA
75Bg0005SA SAMPLE NUMBER = 75ABg0005C;
75Bg0005SA      UNIT = GIF;
75Bg0005SA      TYPE = Grab, SSS;
75Bg0005SA      PURPOSE = Spec;
75Bg0005SA      REMARKS = Not much fine material--prob rich in organics.;
75Bg0005SA
75Bg0005T  TEXT = Olive and green weathering femag xl-bearing andesitic metatuff and agglomerate.  Unit ranges from
75Bg0005T         relatively massive to moderately thin-bedded, with comp. layers averaging less than 0.5 m thick.
75Bg0005T         Typical Gray Island Fm (GIF).  Appreciable gray argill in float.;
75Bg0005  ----------------------------------------------------------------------------------------------------
#
```

```
245.    75Bg0006              STATION = 75ABg0006;
246.    75Bg0006              DATE = 7/4/75;
247.    75Bg0006              QUAD = CR C-1;
248.    75Bg0006              LAT = 55/41/30;
249.    75Bg0006              LONG = 132/13/00;
250.    75Bg0006              PURPOSE = Geol;
251.    75Bg0006
252.    75Bg0006   TEXT-TOPIC = Lith, strat;
253.    75Bg0006
254.    75Bg0006   STRUCTURE;
255.    75Bg0006        BEDDING = 104/58;
256.    75Bg0006        CLEAVAGE = 335/55;
257.    75Bg0006        JOINT = 038/85;
258.    75Bg0006        OTHER-LIN = 112/20 (B/C);
259.    75Bg0006        OTHER-LIN = 032/47 (K);
260.    75Bg0006
261.    75Bg0006SA SAMPLE NUMBER = 75ABg0006A;
262.    75Bg0006SA      UNIT = GIF;
263.    75Bg0006SA      SOURCE = Float;
264.    75Bg0006SA      TYPE = Repres;
265.    75Bg0006SA      PURPOSE = Hand spec;
266.    75Bg0006SA      DESCRIPTION = Sed, Met;
267.    75Bg0006SA      LITH = Rexld turbidite;
268.    75Bg0006SA      FORM = Bedded;
269.    75Bg0006SA      TEXTURE = Fissile, slaty;
270.    75Bg0006SA      CONDITION = Fresh;
271.    75Bg0006SA      REMARKS = Typical spl of turbidite facies of GIF.;
272.    75Bg0006SA
273.    75Bg0006SA SAMPLE NUMBER = 75ABg0006B;
274.    75Bg0006SA      UNIT = GIF;
275.    75Bg0006SA      TYPE = SSS;
276.    75Bg0006SA      PURPOSE = Spec;
277.    75Bg0006SA      REMARKS = Active channel--prob sig organics.;
278.    75Bg0006SA
279.    75Bg0006T  TEXT = Thinly interbedded dk gy argillite and olive siltstone. Typical meta-turbidite facies of GIF.
280.    75Bg0006T        Rk is very flaky-fissile.  Bedding=comp layerg.  Unit contains up to 0.6 m thick beds or sills
281.    75Bg0006T        of light grsh gy weath igneous rk that probably is meta-andesite correl w/ GI metatuff.  Scattered
282.    75Bg0006T        veins, lenses, pols of CA+QZ to 0.5 m tk cut comp layerg.  Loc much Qtz in beach debris.;
283.    75Bg0006  ------------------------------------------------------------------------------------------------
284.    #
285.    75Bg0007              STATION = 75ABg0007;
286.    75Bg0007              DATE = 7/4/75;
287.    75Bg0007              QUAD = CR C-1;
288.    75Bg0007              LAT = 55/40/06;
289.    75Bg0007              LONG = 132/12/41;
290.    75Bg0007              PURPOSE = Geol, geochem;
291.    75Bg0007
292.    75Bg0007   TEXT-TOPIC = Lith, strat;
293.    75Bg0007
294.    75Bg0007   STRUCTURE;
295.    75Bg0007        BEDDING = 120/90 (tops to S);
296.    75Bg0007        POL-SCH = 318/75;
297.    75Bg0007        CLEAVAGE = 230/50 (SS);
298.    75Bg0007        AXIAL-PLANE = 320/65 (=AP Clvg);
299.    75Bg0007        FOLD-AXIS = 140/15;
300.    75Bg0007        OTHER-LIN = 345/48 (K);
301.    75Bg0007        OTHER-LIN = 123/30 (S, BC);
302.    75Bg0007
303.    75Bg0007SA SAMPLE NUMBER = 75ABg0007A;
304.    75Bg0007SA      UNIT = GIF;
305.    75Bg0007SA      SOURCE = OTC;
```

```
75Bg0007SA      TYPE = Comp, Chip;
75Bg0007SA      PURPOSE = Spec;
75Bg0007SA      DESCRIPTION = Qtz + Phyllite;
75Bg0007SA      FORM = Vein;
75Bg0007SA      MINS = Qtz;
75Bg0007SA      CONDITION = Fresh;
75Bg0007SA      REMARKS = Composite chip sample of several Qtz vns + country rock inclusions.;
75Bg0007SA
75Bg0007T  TEXT = Slaty-fissile thinly intercalated argillite and siltstone cont locally conspicuous quartz-carbonate
75Bg0007T         veins and lenses, many of which are nearly parallel to foliation (=comp layerg). Shoreline
75Bg0007T         outcrops between here and last station appear to be more than half meta-turbidite facies of GIP.
75Bg0007T         Pelict grading in some beds indic tops to S--however, probably many reversals. Cliff at head of
75Bg0007T         beach shows hinge of very large (amp and wavelength = > 10 m) anticline overturned to SW.;
75Bg0007  ----------------------------------------------------------------------------------------------------
#
75Bg0008            STATION = 75ABg0008;
75Bg0008            DATE = 7/4/75;
75Bg0008            QUAD = CB C-1;
75Bg0008            LAT = 55/38/30;
75Bg0008            LONG = 132/12/03;
75Bg0008            PURPOSE = Geol;
75Bg0008
75Bg0008   TEXT-TOPIC = Lith;
75Bg0008
75Bg0008   STRUCTURE:
75Bg0008        FOL-SCH = 293/70;
75Bg0008        AXIAL-PLANE = 290/75 (to "L2");
75Bg0008        FOLD-AXIS = 116/10 = L2?;
75Bg0008        OTHER-LIN = 032/55 (B/C) flattens to 034/0 in hinge of abv fold. = L1?;
75Bg0008
75Bg0008SA SAMPLE NUMBER = 75ABg0008A;
75Bg0008SA      UNIT = GIP;
75Bg0008SA      SOURCE = OTC;
75Bg0008SA      TYPE = Repres;
75Bg0008SA      PURPOSE = Hand spec, T. S.;
75Bg0008SA      DESCRIPTION = Intr, Met;
75Bg0008SA      LITH = Metadiorite;
75Bg0008SA      FORM = Sill;
75Bg0008SA      MINS = Plag, Chl, Ep/Clz;
75Bg0008SA      TEXTURE = Granitoid;
75Bg0008SA      CONDITION = Fresh;
75Bg0008SA      REMARKS = Rk is not conspic foliated.  See no thermal aureole at contact w/ intruded flysch.;
75Bg0008SA
75Bg0008SA SAMPLE NUMBER = 75ABg0008B;
75Bg0008SA      UNIT = GIP;
75Bg0008SA      SOURCE = OTC;
75Bg0008SA      TYPE = Repres;
75Bg0008SA      PURPOSE = Spec;
75Bg0008SA      REMARKS = Fe-stained poi/zone 3 m diam in metadio.;
75Bg0008SA
75Bg0008T  TEXT = Fol = comp layerg.  Fissile, flaky green andesitic metatuff (femag xls) and subordi lk gy
75Bg0008T         metaturbidite.  Rx at head of beach seem to be 50% or more dk gy metaturbidite -- rx to S are
75Bg0008T         predom metaturb w/ rexld gy lst beds to 0.3 m tk.  To seaward unit is in contact with rel msv lk
75Bg0008T         gn metadiorite that prob is intrusive phase of GI volcanics.  Pluton is altd and locally milled/
75Bg0008T         sheared but not conspic foliated.  Does not resemble GA-bearg QD unit.  Sporadic, loc conspic white
75Bg0008T         Qtz & Calc vns to 0.3 m thick and several m long.  Pluton app is intruded approx parallel
75Bg0008T         to comp layerg of phyllite which crops out again to seaward.  Pluton thus is a sill about 5 m
75Bg0008T         thick.  Loc apprec um float on beach.;
75Bg0008  ----------------------------------------------------------------------------------------------------
#
75Bg0009            STATION = 75ABg0009;
```

```
75Bg0009              DATE = 7/4/75;
75Bg0009              QUAD = CR C-1;
75Bg0009              LAT = 55/37/08;
75Bg0009              LONG = 132/11/36;
75Bg0009              PURPOSE = Geol;
75Bg0009
75Bg0009   TEXT-TOPIC = Lith;
75Bg0009
75Bg0009   STRUCTURE;
75Bg0009        JOINT = 155/20;
75Bg0009
75Bg0009SA SAMPLE NUMBER = 75ABg0009A;
75Bg0009SA      UNIT = Quartz Diorite;
75Bg0009SA      SOURCE = OTC;
75Bg0009SA      TYPE = Repres;
75Bg0009SA      PURPOSE = Hand spec, T. S., K-Ar;
75Bg0009SA      DESCRIPTION = Intr;
75Bg0009SA      LITH = QD;
75Bg0009SA      FORM = Pluton;
75Bg0009SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0009SA      TEXTURE = MSV;
75Bg0009SA      CONDITION = Fresh;
75Bg0009SA      REMARKS = Plag phenos. to 1 cm.  See no GA.  Msv, nonfol.;
75Bg0009SA
75Bg0009T  TEXT = Msv to mod porphyritic (PC) quartz diorite.  Plag phenos to 1 cm.  See no GA.' At station, pluton is
75Bg0009T        crossed by EP/CZ seams, but contains no inclusions of country rx.  Pluton crops out on both sides
75Bg0009T        of creek.  Loc conspic sheeting could be mistaken for bedding from a distance.' Rk looks fresh,
75Bg0009T        may be Cenozoic.  Spl coll for K/Ar.  Pieces of red weath baked argill in creek float sugg that pluton
75Bg0009T        intrudes and thermally metamorphoses GIF flysch facies.;
75Bg0009  ----------------------------------------------------------------------------------------------------
#
75Bg0010              STATION = 75ABg0010;
75Bg0010              DATE = 7/4/75;
75Bg0010              QUAD = CR C-1;
75Bg0010              LAT = 55/35/54;
75Bg0010              LONG = 132/11/51;
75Bg0010              PURPOSE = Geol;
75Bg0010
75Bg0010   TEXT-TOPIC = Lith, struct;
75Bg0010
75Bg0010   STRUCTURE;
75Bg0010        FOL-SCH = 162/45;
75Bg0010
75Bg0010SA SAMPLE NUMBER = 75ABg0010A;
75Bg0010SA      UNIT = GIF;
75Bg0010SA      SOURCE = OTC;
75Bg0010SA      TYPE = Repres;
75Bg0010SA      PURPOSE = Hand spec;
75Bg0010SA      DESCRIPTION = Sed, met;
75Bg0010SA      LITH = Hornfels;
75Bg0010SA      FORM = Bedded;
75Bg0010SA      MINS = Qtz, Plag, Bio, Py, Garn;
75Bg0010SA      REMARKS = Hornfels derived from flysch facies of GIF.;
75Bg0010SA
75Bg0010T  TEXT = "Cooked" flysch--probably in thermal aureole of QD pluton.  Fol/sch = comp layerg, note dip to SW.'
75Bg0010T        Heating these rx gives them a rel msv aspect and fairly uniform light gray weathered tone that
75Bg0010T        from a distance could be mistaken for intrusive rock.;
75Bg0010  ----------------------------------------------------------------------------------------------------
#
75Bg0011              STATION = 75ABg0011;
75Bg0011              DATE = 7/4/75;
```

```
75Bg0011            QUAD = CR C-1;
75Bg0011            LAT = 55/34/58;
75Bg0011            LONG = 132/10/00;
75Bg0011            PURPOSE = Geol, Geochem;
75Bg0011
75Bg0011   TEXT-TOPIC = Lith, Struct, Strat;
75Bg0011
75Bg0011   STRUCTURE;
75Bg0011        JOINT = 185/v;
75Bg0011        FOLD-AXIS = 192/40;
75Bg0011
75Bg0011SA SAMPLE NUMBER = 75ABg0011A;
75Bg0011SA      UNIT = GIP;
75Bg0011SA      SOURCE = OTC;
75Bg0011SA      TYPE = Repres;
75Bg0011SA      PURPOSE = Hand spec;
75Bg0011SA      DESCRIPTION = Intr, met;
75Bg0011SA      LITH = Feldspar porphyry;
75Bg0011SA      FORM = Pluton;
75Bg0011SA      MINS = Qtz, Plag, Bio, Py;
75Bg0011SA      CONDITION = Fresh;
75Bg0011SA
75Bg0011SA SAMPLE NUMBER = 75ABg0011A;
75Bg0011SA      UNIT = GIP;
75Bg0011SA      SOURCE = OTC;
75Bg0011SA      TYPE = Repres;
75Bg0011SA      PURPOSE = Spec;
75Bg0011SA      DESCRIPTION = Intr, met;
75Bg0011SA      LITH = Fldspr porp;
75Bg0011SA      FORM = Pluton;
75Bg0011SA      MINS = Qtz, Plag, Bio, Py;
75Bg0011SA      CONDITION = Fresh;
75Bg0011SA      REMARKS = Conspicuous dissem PY;
75Bg0011SA
75Bg0011SA SAMPLE NUMBER = 75ABg0011B;
75Bg0011SA      UNIT = GIP;
75Bg0011SA      SOURCE = OTC;
75Bg0011SA      TYPE = Repres;
75Bg0011SA      PURPOSE = Hand spec;
75Bg0011SA      DESCRIPTION = Intr;
75Bg0011SA      LITH = Mafic or ultramafic;
75Bg0011SA      FORM = Dike;
75Bg0011SA      MINS = Bio, Px, Py;
75Bg0011SA      CONDITION = Fresh;
75Bg0011SA
75Bg0011T  TEXT = "Cooked flysch" intruded by fine grained feldspar porphyry.  The porphyry, in turn, is cut by
75Bg0011T       irregular dikes of dk gnsh black basalt, lamprophyre, or poss UM (pxte) dikes. I estimate that less
75Bg0011T       than half of this outcrop is metamorphosed sed rk.  The metased char are
75Bg0011T       reddish brown, sometimes streaked w/ bright green.;
75Bg0011  ------------------------------------------------------------------------------------------------------
#
75Bg0012            STATION = 75ABg0012;
75Bg0012            DATE = 7/4/75;
75Bg0012            QUAD = CR C-1;
75Bg0012            LAT = 55/33/36;
75Bg0012            LONG = 132/08/18;
75Bg0012            PURPOSE = Geol;
75Bg0012
75Bg0012   TEXT-TOPIC = Lith, struct, strat;
75Bg0012
75Bg0012   STRUCTURE;
```

```
489.    75Bg0012          BEDDING = 122/45;
490.    75Bg0012
491.    75Bg0012SA SAMPLE NUMBER = 75ABg0012A;
492.    75Bg0012SA        UNIT = GIF;
493.    75Bg0012SA        SOURCE = OTC;
494.    75Bg0012SA        TYPE = Repres;
495.    75Bg0012SA        PURPOSE = Hand spec;
496.    75Bg0012SA        DESCRIPTION = Extr, sed, met;
497.    75Bg0012SA        LITH = Hornfels;
498.    75Bg0012SA        FORM = Bedded;
499.    75Bg0012SA        MINS = Ep/Clz;
500.    75Bg0012SA        TEXTURE = Granoblastic;
501.    75Bg0012SA        CONDITION = Fresh;
502.    75Bg0012SA        REMARKS = Poss therm metd metatuff;
503.    75Bg0012SA
504.    75Bg0012T  TEXT = Thermally metamorphosed bedded rocks cut by numerous dioritic(?) dikes and by diverse veins and
505.    75Bg0012T         seams of epidote, calcite, and prob qz.  The hornfels has a greenish cast and might be derived
506.    75Bg0012T         from metavolc part of GIF.;
507.    75Bg0012T         Bedding = comp layerg;
508.    75Bg0012  ------------------------------------------------------------------------------------------------
509.    *
510.    75Bg0013              STATION = 75ABg0013;
511.    75Bg0013              DATE = 7/4/75;
512.    75Bg0013              QUAD = CR C-1;
513.    75Bg0013              LAT = 55/32/43;
514.    75Bg0013              LONG = 132/05/22;
515.    75Bg0013              PURPOSE = Geol;
516.    75Bg0013
517.    75Bg0013   TEXT-TOPIC = Lith;
518.    75Bg0013
519.    75Bg0013   STRUCTURE;
520.    75Bg0013          JOINT = 005/70;
521.    75Bg0013          JOINT = 220/65;
522.    75Bg0013          JOINT = 273/20;
523.    75Bg0013
524.    75Bg0013SA SAMPLE NUMBER = 75ABg0013A;
525.    75Bg0013SA        UNIT = Qtz Diorite;
526.    75Bg0013SA        SOURCE = OTC;
527.    75Bg0013SA        TYPE = Repres;
528.    75Bg0013SA        PURPOSE = Hand spec;
529.    75Bg0013SA        DESCRIPTION = Intr;
530.    75Bg0013SA        LITH = QD;
531.    75Bg0013SA        FORM = Pluton;
532.    75Bg0013SA        MINS = Qtz, Plag, Hbl, Bio, Px, Py, Mag;
533.    75Bg0013SA        TEXTURE = Msv - granitoid;
534.    75Bg0013SA        CONDITION = Fresh;
535.    75Bg0013SA        REMARKS = See no GA.;
536.    75Bg0013SA
537.    75Bg0013T  TEXT = Med grained dk grnsh gy msv quartz diorite containing conspicuous accessory magnetite. Rk does
538.    75Bg0013T         not seem to be strongly foliated--some outcrops show weak, discont gneissic or planar structure.
539.    75Bg0013T         Presence of Px & Mag sugg pluton may be genetically linked w/ zoned ultramafic.  Pluton is cut
540.    75Bg0013T         by dk gnsh black lampro(?) dikes to a foot or so thick. These dikes have chilled margins against
541.    75Bg0013T         the QD, but no marked thermal aureole.;
542.    75Bg0013  ------------------------------------------------------------------------------------------------
543.    *
544.    75Bg0014              STATION = 75ABg0014;
545.    75Bg0014              DATE = 7/4/75;
546.    75Bg0014              QUAD = CR C-1;
547.    75Bg0014              LAT = 55/32/09;
548.    75Bg0014              LONG = 132/02/39;
549.    75Bg0014              PURPOSE = Geol;
```

```
75Bg0014
75Bg0014   TEXT-TOPIC = Lith, struct;
75Bg0014
75Bg0014   STRUCTURE;
75Bg0014        FOL-SCH = 40/70;
75Bg0014
75Bg0014SA SAMPLE NUMBER = 75ABg0014A;
75Bg0014SA      UNIT = Metadiorite;
75Bg0014SA      SOURCE = OTC;
75Bg0014SA      TYPE = Repres;
75Bg0014SA      PURPOSE = Hand spec;
75Bg0014SA      DESCRIPTION = Intr, met;
75Bg0014SA      LITH = Diorite & quartz dio.;
75Bg0014SA      FORM = Pluton;
75Bg0014SA      MINS = Qtz, Plag, Bio, Chl;
75Bg0014SA      TEXTURE = Msv to foliated;
75Bg0014SA      CONDITION = Fresh;
75Bg0014SA      REMARKS = Specimen of fol metadio and fnr grained, rel msv Qtz dio.;
75Bg0014SA
75Bg0014T  TEXT = Heterogeneous assemblage of mafic metadiorite, "lamprophyre or um", and other intermediate to rel
75Bg0014T        flsc intrusive rocks ranging in texture from microgranular to aplitic.' I believe mafic metadio
75Bg0014T        is most abundant rk type--it is conspicuously foliated in places, whereas most of the other rk types
75Bg0014T        here do not seem to be.;
75Bg0014  ------------------------------------------------------------------------------------------------------
#
75Bg0015            STATION = 75ABg0015;
75Bg0015            DATE = 7/4/75;
75Bg0015            QUAD = CR C-1;
75Bg0015            LAT = 55/30/49;
75Bg0015            LONG = 132/00/23;
75Bg0015            PURPOSE = Geol;
75Bg0015
75Bg0015   TEXT-TOPIC = Lith;
75Bg0015
75Bg0015   STRUCTURE;
75Bg0015        FOL-SCH = 340/75;
75Bg0015
75Bg0015SA SAMPLE NUMBER = 75ABg0015A;
75Bg0015SA      UNIT = GIF;
75Bg0015SA      SOURCE = OTC;
75Bg0015SA      TYPE = Repres;
75Bg0015SA      PURPOSE = Hand spec;
75Bg0015SA      DESCRIPTION = Extr, sed, met;
75Bg0015SA      LITH = Hornfels;
75Bg0015SA      FORM = Bedded;
75Bg0015SA      MINS = Py, Carb, Act, Ep/Clz;
75Bg0015SA      REMARKS = HO hfls? facies andesitic metatuff.;
75Bg0015SA
75Bg0015T  TEXT = Hornfels, evid derived mainly from interbedded volcaniclastic and subordinate sedimentary rocks.
75Bg0015T        Volcclstc material evid was rel fine grained and could have been andesitic tuff or tuffac? sandstone
75Bg0015  ------------------------------------------------------------------------------------------------------
#
75Bg0016            STATION = 75ABg0016;
75Bg0016            DATE = 7/5/75;
75Bg0016            QUAD = CR C-1;
75Bg0016            LAT = 55/42/33;
75Bg0016            LONG = 132/10/44;
75Bg0016            PURPOSE = Geol;
75Bg0016
75Bg0016   TEXT-TOPIC = Lith;
75Bg0016
```

```
611.    75Bg0016   STRUCTURE;
612.    75Bg0016        FOL-SCH = 310/75;
613.    75Bg0016
614.    75Bg0016SA SAMPLE NUMBER = 75ABg0016A;
615.    75Bg0016SA      UNIT = GIF;
616.    75Bg0016SA      SOURCE = Float;
617.    75Bg0016SA      TYPE = Repres;
618.    75Bg0016SA      PURPOSE = Hand spec;
619.    75Bg0016SA      DESCRIPTION = Extr, met;
620.    75Bg0016SA      LITH = Metatuff;
621.    75Bg0016SA      FORM = Bedded;
622.    75Bg0016SA      MINS = Act, Ep/Clz;
623.    75Bg0016SA      TEXTURE = Foliated;
624.    75Bg0016SA      CONDITION = Fresh;
625.    75Bg0016SA      REMARKS = Femag xls.;
626.    75Bg0016SA
627.    75Bg0016T  TEXT = Andesitic metatuff and agglomerate typical of GIF.;
628.    75Bg0016  ----------------------------------------------------------------------------------------------------
629.    $
630.    75Bg0017            STATION = 75ABg0017;
631.    75Bg0017            DATE = 7/5/75;
632.    75Bg0017            QUAD = CR C-1;
633.    75Bg0017            LAT = 55/39/00;
634.    75Bg0017            LONG = 132/08/50;
635.    75Bg0017            PURPOSE = Geol;
636.    75Bg0017
637.    75Bg0017   TEXT-TOPIC = Lith;
638.    75Bg0017
639.    75Bg0017SA SAMPLE NUMBER = 75ABg0017A;
640.    75Bg0017SA      UNIT = GIF;
641.    75Bg0017SA      SOURCE = Float;
642.    75Bg0017SA      TYPE = Repres;
643.    75Bg0017SA      PURPOSE = Hand spec;
644.    75Bg0017SA      DESCRIPTION = Sed, met;
645.    75Bg0017SA      LITH = Meta-turbidite;
646.    75Bg0017SA      FORM = Bedded;
647.    75Bg0017SA      TEXTURE = Phyllitic - platy;
648.    75Bg0017SA      CONDITION = Fresh;
649.    75Bg0017SA
650.    75Bg0017T  TEXT = Dark gray phyllitic siltstone and argillite typical of turbidite (flysch) facies of GIF.
651.    75Bg0017T        No outcrop to measure structure, but all float is the same.;
652.    75Bg0017  ----------------------------------------------------------------------------------------------------
653.    $
654.    75Bg0018            STATION = 75ABg0018;
655.    75Bg0018            DATE = 7/5/75;
656.    75Bg0018            QUAD = CR C-1;
657.    75Bg0018            LAT = 55/39/10;
658.    75Bg0018            LONG = 132/07/00;
659.    75Bg0018            PURPOSE = Geol;
660.    75Bg0018
661.    75Bg0018   TEXT-TOPIC = Lith;
662.    75Bg0018
663.    75Bg0018   STRUCTURE;
664.    75Bg0018        FOL-SCH = 305/45;
665.    75Bg0018        JOINT = 155/60;
666.    75Bg0018        OTHER = Qtz vn 350/v;
667.    75Bg0018
668.    75Bg0018SA SAMPLE NUMBER = 75ABg0018A;
669.    75Bg0018SA      UNIT = GIF;
670.    75Bg0018SA      SOURCE = OTC;
671.    75Bg0018SA      TYPE = Repres;
```

```
672.    75Bg0018SA      PURPOSE = Hand spec;
673.    75Bg0018SA      DESCRIPTION = Extr, sed, met;
674.    75Bg0018SA      LITH = Metuff;
675.    75Bg0018SA      FORM = Bedded;
676.    75Bg0018SA      MINS = Plag, Act, Ep/Clz;
677.    75Bg0018SA      TEXTURE = Phyllitic;
678.    75Bg0018SA      CONDITION = Fresh;
679.    75Bg0018SA      REMARKS = Andesitic metatuff.  Numerous compressed, sheared lithic fragments.;
680.    75Bg0018SA
681.    75Bg0018SA SAMPLE NUMBER = 75ABg0018B;
682.    75Bg0018SA      UNIT = GIF;
683.    75Bg0018SA      SOURCE = OTC;
684.    75Bg0018SA      TYPE = Repres;
685.    75Bg0018SA      PURPOSE = Hand spec;
686.    75Bg0018SA      DESCRIPTION = Sed, met;
687.    75Bg0018SA      LITH = Phyllitic grit;
688.    75Bg0018SA      REMARKS = Numerous dk gy argillite clasts (sheared, flattened).;
689.    75Bg0018SA
690.    75Bg0018T  TEXT = Apple-green phyllitic fragmental rk cont feeag xls(?) and abundant lithic detritus.  Rk may be
691.    75Bg0018T       derived from tuffac graywacke or grit.  13 cm tk white quartz vein.;
692.    75Bg0018  ----------------------------------------------------------------------------------------------
693.    *
694.    75Bg0019            STATION = 75ABg0019;
695.    75Bg0019            DATE = 7/5/75;
696.    75Bg0019            QUAD = CR C-1;
697.    75Bg0019            LAT = 55/39/32;
698.    75Bg0019            LONG = 132/05/35;
699.    75Bg0019            PURPOSE = Geol;
700.    75Bg0019
701.    75Bg0019   TEXT-TOPIC = Lith;
702.    75Bg0019
703.    75Bg0019   STRUCTURE;
704.    75Bg0019        FOL-SCH = 320/60;
705.    75Bg0019        JOINT = 048/90;
706.    75Bg0019
707.    75Bg0019SA SAMPLE NUMBER = 75ABg0019A;
708.    75Bg0019SA      UNIT = GIF;
709.    75Bg0019SA      SOURCE = OTC;
710.    75Bg0019SA      TYPE = Repres;
711.    75Bg0019SA      PURPOSE = Hand spec;
712.    75Bg0019SA      DESCRIPTION = Sed, met;
713.    75Bg0019SA      LITH = Flysch-turbidite;
714.    75Bg0019SA      FORM = Bedded;
715.    75Bg0019SA      TEXTURE = Phyllitic;
716.    75Bg0019SA      CONDITION = Fresh;
717.    75Bg0019SA      REMARKS = Typical flysch facies of Gravina Island Fm.;
718.    75Bg0019SA
719.    75Bg0019T  TEXT = Dk gray phyllitic flysch-turbidite.;
720.    75Bg0019  ----------------------------------------------------------------------------------------------
721.    *
722.    75Bg0020            STATION = 75ABg0020;
723.    75Bg0020            DATE = 7/5/75;
724.    75Bg0020            QUAD = CR D-1;
725.    75Bg0020            LAT = 55/41/43;
726.    75Bg0020            LONG = 132/11/10;
727.    75Bg0020            PURPOSE = Geol;
728.    75Bg0020
729.    75Bg0020   TEXT-TOPIC = Lith;
730.    75Bg0020
731.    75Bg0020   STRUCTURE;
732.    75Bg0020        FOL-SCH = 290/70;
```

```
75Bg0020          JOINT = 035/80;
75Bg0020
75Bg0020SA SAMPLE NUMBER = 75ABg0020A;
75Bg0020SA       UNIT = GIF;
75Bg0020SA       SOURCE = OTC;
75Bg0020SA       TYPE = Repres;
75Bg0020SA       PURPOSE = Hand spec;
75Bg0020SA       DESCRIPTION = Extr, met;
75Bg0020SA       LITH = Andesitic metatuff;
75Bg0020SA       MINS = Act, Ep/Clz;
75Bg0020SA       TEXTURE = Fine granular;
75Bg0020SA       CONDITION = Fresh;
75Bg0020SA       REMARKS = Typical metatuff facies of Gravina Island Fm.;
75Bg0020SA
75Bg0020T  TEXT = Green, femag xl - bearing andesitic metatuff.;
75Bg0020  ----------------------------------------------------------------------------------------
#
75Bg0021              STATION = 75ABg0021;
75Bg0021              DATE = 7/5/75;
75Bg0021              QUAD = CR C-1;
75Bg0021              LAT = 55/40/27;
75Bg0021              LONG = 132/10/30;
75Bg0021              PURPOSE = Geol;
75Bg0021
75Bg0021   TEXT-TOPIC = Lith;
75Bg0021
75Bg0021   STRUCTURE;
75Bg0021         POL-SCH = 312/50;
75Bg0021         JOINT = 248/v;
75Bg0021
75Bg0021SA SAMPLE NUMBER = 75ABg0021A;
75Bg0021SA       UNIT = GIF;
75Bg0021SA       SOURCE = OTC;
75Bg0021SA       TYPE = Repres;
75Bg0021SA       PURPOSE = Hand spec;
75Bg0021SA       DESCRIPTION = Sed, met;
75Bg0021SA       LITH = Metaturb;
75Bg0021SA       FORM = Bedded;
75Bg0021SA       TEXTURE = Phyllitic;
75Bg0021SA       CONDITION = Fresh;
75Bg0021SA       REMARKS = Phyllitic siltstone and argillite.;
75Bg0021SA
75Bg0021T  TEXT = Thinly laminated phyllitic turbidite.  Scattered float of andesitic metatuff (femag xls) indicate
75Bg0021T         that it may be nearby.;
75Bg0021  ----------------------------------------------------------------------------------------
#
75Bg0022              STATION = 75ABg0022;
75Bg0022              DATE = 7/5/75;
75Bg0022              QUAD = CR C-1;
75Bg0022              LAT = 55/40/35;
75Bg0022              LONG = 132/09/40;
75Bg0022              PURPOSE = Geol;
75Bg0022
75Bg0022   TEXT-TOPIC = Lith;
75Bg0022
75Bg0022   STRUCTURE;
75Bg0022         POL-SCH = 309/60;
75Bg0022         JOINT = 355/65;
75Bg0022         OTHER-LIN = 120/70 (B/C) (K);
75Bg0022
75Bg0022SA SAMPLE NUMBER = 75ABg0022A;
```

```
794.    75Bg0022SA      UNIT = GIF;
795.    75Bg0022SA      SOURCE = OTC;
796.    75Bg0022SA      TYPE = Repres;
797.    75Bg0022SA      PURPOSE = Hand spec;
798.    75Bg0022SA      DESCRIPTION = Sed, met;
799.    75Bg0022SA      LITH = Metaturb;
800.    75Bg0022SA      TEXTURE = Phyllitic;
801.    75Bg0022SA      REMARKS = Dark gray and olive phyllitic argillite and siltstone.;
802.    75Bg0022SA
803.    75Bg0022T  TEXT = Thinly laminated phyllitic turbidite.  Small Qtz stringers, pods. Loc abundant andesitic metatuff
804.    75Bg0022T       in float indicates that it probably crops out nearby.;
805.    75Bg0022  ------------------------------------------------------------------------------------------------------
806.    *
807.    75Bg0023            STATION = 75ABg0023;
808.    75Bg0023            DATE = 7/5/75;
809.    75Bg0023            QUAD = CR C-1;
810.    75Bg0023            LAT = 55/41/29;
811.    75Bg0023            LONG = 132/09/25;
812.    75Bg0023            PURPOSE = Geol;
813.    75Bg0023
814.    75Bg0023   TEXT-TOPIC = Lith;
815.    75Bg0023
816.    75Bg0023   STRUCTURE;
817.    75Bg0023        JOINT = 20/50;
818.    75Bg0023
819.    75Bg0023SA SAMPLE NUMBER = 75ABg0023A;
820.    75Bg0023SA      UNIT = GIF;
821.    75Bg0023SA      SOURCE = OTC;
822.    75Bg0023SA      TYPE = Repres;
823.    75Bg0023SA      PURPOSE = Hand spec;
824.    75Bg0023SA      DESCRIPTION = Extr, met;
825.    75Bg0023SA      TEXTURE = Wkly foliated, msv.;
826.    75Bg0023SA      CONDITION = Fresh;
827.    75Bg0023SA      REMARKS = Typical meta-andesite of GIF.;
828.    75Bg0023SA
829.    75Bg0023T  TEXT = Amygdaloidal? femag xl bearg andesitic metatuff.  Rk is foliated, but not able to measure foln in
830.    75Bg0027T       outcrop.;
831.    75Bg0023  ------------------------------------------------------------------------------------------------------
832.    *
833.    75Bg0024            STATION = 75ABg0024;
834.    75Bg0024            DATE = 7/5/75;
835.    75Bg0024            QUAD = CR C-1;
836.    75Bg0024            LAT = 55/40/49;
837.    75Bg0024            LONG = 132/07/28;
838.    75Bg0024            PURPOSE = Geol;
839.    75Bg0024
840.    75Bg0024   TEXT-TOPIC = Lith;
841.    75Bg0024
842.    75Bg0024   STRUCTURE;
843.    75Bg0024        FOL-SCH = 300/70;
844.    75Bg0024
845.    75Bg0024SA SAMPLE NUMBER = 75ABg0024A;
846.    75Bg0024SA      UNIT = GIF;
847.    75Bg0024SA      REMARKS = Andesitic metatuff.;
848.    75Bg0024SA
849.    75Bg0024T  TEXT = Andesitic metatuff.;
850.    75Bg0024  ------------------------------------------------------------------------------------------------------
851.    *
852.    75Bg0025            STATION = 75ABg0025;
853.    75Bg0025            DATE = 7/5/75;
854.    75Bg0025            QUAD = CR C-1;
```

```
855.  75Bg0025              LAT = 55/40/46;
856.  75Bg0025              LONG = 132/05/21;
857.  75Bg0025              PURPOSE = Geol;
858.  75Bg0025
859.  75Bg0025   TEXT-TOPIC = Lith;
860.  75Bg0025
861.  75Bg0025   STRUCTURE;
862.  75Bg0025        JOINT = 325/80;
863.  75Bg0025
864.  75Bg0025SA SAMPLE NUMBER = 75ABg0025A;
865.  75Bg0025SA      UNIT = GIP;
866.  75Bg0025SA      SOURCE = OTC;
867.  75Bg0025SA      TYPE = Repres;
868.  75Bg0025SA      PURPOSE = Hand spec;
869.  75Bg0025SA      DESCRIPTION = Extr, met;
870.  75Bg0025SA      LITH = Andesitic metatuff;
871.  75Bg0025SA      MINS = Act, Ep/Clz;
872.  75Bg0025SA      TEXTURE = Massive;
873.  75Bg0025SA      CONDITION = Fresh;
874.  75Bg0025SA
875.  75Bg0025T  TEXT = Andesitic metatuff.;
876.  75Bg0025  ----------------------------------------------------------------------------------------------
877.  *
878.  75Bg0026              STATION = 75ABg0026;
879.  75Bg0026              DATE = 7/5/75;
880.  75Bg0026              QUAD = CR C-1;
881.  75Bg0026              LAT = 55/40/26;
882.  75Bg0026              LONG = 132/04/01;
883.  75Bg0026              PURPOSE = Geol;
884.  75Bg0026
885.  75Bg0026   TEXT-TOPIC = Lith;
886.  75Bg0026
887.  75Bg0026   STRUCTURE;
888.  75Bg0026        FOL-SCH = 312/70;
889.  75Bg0026        JOINT = 170/v;
890.  75Bg0026        JOINT = 260/v;
891.  75Bg0026
892.  75Bg0026SA SAMPLE NUMBER = 75ABg0026A;
893.  75Bg0026SA      UNIT = GIP;
894.  75Bg0026SA      SOURCE = OTC;
895.  75Bg0026SA      TYPE = Repres;
896.  75Bg0026SA      PURPOSE = Hand spec;
897.  75Bg0026SA      DESCRIPTION = Extr, met,
898.  75Bg0026SA      LITH = Andesitic metatuff;
899.  75Bg0026SA      FORM = Bedded;
900.  75Bg0026SA      MINS = Act, Ep/Clz;
901.  75Bg0026SA      TEXTURE = Phyllitic;
902.  75Bg0026SA      CONDITION = Fresh;
903.  75Bg0026SA
904.  75Bg0026T  TEXT = Andesitic metatuff and coarse agglomerate.  Agglom clasts not significantly deformed.;
905.  75Bg0026  ----------------------------------------------------------------------------------------------
906.  *
907.  75Bg0027              STATION = 75ABg0027;
908.  75Bg0027              DATE = 7/5/75;
909.  75Bg0027              QUAD = CR C-1;
910.  75Bg0027              LAT = 55/39/22;
911.  75Bg0027              LONG = 132/02/19;
912.  75Bg0027              PURPOSE = Geol;
913.  75Bg0027
914.  75Bg0027   TEXT-TOPIC = Lith;
915.  75Bg0027
```

```
916.    75Bg0027   STRUCTURE;
917.    75Bg0027        FOL-SCH = 350/65;
918.    75Bg0027        JOINT = 258/70;
919.    75Bg0027
920.    75Bg0027SA SAMPLE NUMBER = 75ABg0027A;
921.    75Bg0027SA      UNIT = GIP;
922.    75Bg0027SA      SOURCE = OTC;
923.    75Bg0027SA      TYPE = Repres;
924.    75Bg0027SA      PURPOSE = Hand spec;
925.    75Bg0027SA      DESCRIPTION = Extr, met;
926.    75Bg0027SA      LITH = Andesitic metatuff;
927.    75Bg0027SA      FORM = Massive - bedded;
928.    75Bg0027SA      TEXTURE = Foliated;
929.    75Bg0027SA      CONDITION = Fresh;
930.    75Bg0027SA
931.    75Bg0027T  TEXT = Andesitic metatuff.  Numerous isoclinal small folds in thinly laminated parts of unit, but cannot
932.    75Bg0027T       measure.;
933.    75Bg0027  ----------------------------------------------------------------------------------------------------
934.    #
935.    75Bg0028            STATION = 75ABg0028;
936.    75Bg0028            DATE = 7/5/75;
937.    75Bg0028            QUAD = CR C-1;
938.    75Bg0028            LAT = 55/38/56;
939.    75Bg0028            LONG = 132/04/10;
940.    75Bg0028            PURPOSE = Geol;
941.    75Bg0028
942.    75Bg0028   TEXT-TOPIC = Lith;
943.    75Bg0028
944.    75Bg0028   STRUCTURE;
945.    75Bg0028        FOL-SCH = 335/v;
946.    75Bg0028
947.    75Bg0028T  TEXT = Phyllitic flysch facies of Gravina Island Fm.;
948.    75Bg0028  ----------------------------------------------------------------------------------------------------
949.    #
950.    75Bg0029            STATION = 75ABg0029;
951.    75Bg0029            DATE = 7/5/75;
952.    75Bg0029            QUAD = CR C-1;
953.    75Bg0029            LAT = 55/38/48;
954.    75Bg0029            LONG = 132/05/26;
955.    75Bg0029            PURPOSE = Geol;
956.    75Bg0029
957.    75Bg0029   TEXT-TOPIC = Lith;
958.    75Bg0029
959.    75Bg0029   STRUCTURE;
960.    75Bg0029        FOL-SCH = 135/80;
961.    75Bg0029
962.    75Bg0029SA SAMPLE NUMBER = 75ABg0029A;
963.    75Bg0029SA      UNIT = GIP;
964.    75Bg0029SA      SOURCE = OTC;
965.    75Bg0029SA      TYPE = Repres;
966.    75Bg0029SA      PURPOSE = Hand spec;
967.    75Bg0029SA      DESCRIPTION = Sed, Met;
968.    75Bg0029SA      LITH = Phyllitic flysch;
969.    75Bg0029SA      FORM = Bedded;
970.    75Bg0029SA      TEXTURE = Phyllitic;
971.    75Bg0029SA      CONDITION = Fresh;
972.    75Bg0029SA
973.    75Bg0029T  TEXT = Phyllitic flysch facies of Gravina Island Fm.;
974.    75Bg0029  ----------------------------------------------------------------------------------------------------
975.    #
976.    75Bg0030            STATION = 75ABg0030;
```

```
977.    75Bg0030              DATE = 7/6/75;
978.    75Bg0030              QUAD = CR C-1;
979.    75Bg0030              LAT = 55/35/09;
980.    75Bg0030              LONG = 132/07/31;
981.    75Bg0030              PURPOSE = Geol;
982.    75Bg0030
983.    75Bg0030   TEXT-TOPIC = Lith;
984.    75Bg0030
985.    75Bg0030   STRUCTURE:
986.    75Bg0030        FOL-SCH = 90/80;
987.    75Bg0030
988.    75Bg0030SA SAMPLE NUMBER = 75ABg0030A;
989.    75Bg0030SA      UNIT = Undiv Hfls;
990.    75Bg0030SA      SOURCE = OTC;
991.    75Bg0030SA      TYPE = Repres;
992.    75Bg0030SA      PURPOSE = Hand spec, T. S.;
993.    75Bg0030SA      LITH = Mafic hornfels;
994.    75Bg0030SA      FORM = Msv;
995.    75Bg0030SA      MINS = Act, Ep/Clz;
996.    75Bg0030SA      TEXTURE = Gblstc;
997.    75Bg0030SA      CONDITION = Fresh;
998.    75Bg0030SA
999.    75Bg0030SA SAMPLE NUMBER = 75ABg0030B;
1000.   75Bg0030SA      UNIT = Undiv Hfls;
1001.   75Bg0030SA      SOURCE = OTC;
1002.   75Bg0030SA      TYPE = Repres;
1003.   75Bg0030SA      PURPOSE = Hand spec;
1004.   75Bg0030SA      LITH = Pelitic hfls;
1005.   75Bg0030SA      FORM = Msv;
1006.   75Bg0030SA      MINS = Bio;
1007.   75Bg0030SA      TEXTURE = Gblstc;
1008.   75Bg0030SA      CONDITION = Fresh;
1009.   75Bg0030SA
1010.   75Bg0030T  TEXT = Hornfels that appears to be derived partly from mafic predecessor and partly from pelite.
1011.   75Bg0030T       The mafic type is med gn granoblastic and rich in EP/CZ and (or) AN---
1012.   75Bg0030T       the pelitic type is very fine grained and rich in BI.  It may be necessary to map "undivided
1013.   75Bg0030T       hornfels" derived from GIF.  However, if necessary to map volc sep fr sed,
1014.   75Bg0030T       I blv volc > sed at this station.  Fol meas rather doubtful.  Numerous sal Qtz vns.;
1015.   75Bg0030  ----------------------------------------------------------------------------------------
1016.   #
1017.   75Bg0031              STATION = 75ABg0031;
1018.   75Bg0031              DATE = 7/6/75;
1019.   75Bg0031              QUAD = CR C-1;
1020.   75Bg0031              LAT = 55/37/00;
1021.   75Bg0031              LONG = 132/04/50;
1022.   75Bg0031              PURPOSE = Geol;
1023.   75Bg0031
1024.   75Bg0031   TEXT-TOPIC = Lith;
1025.   75Bg0031
1026.   75Bg0031   STRUCTURE:
1027.   75Bg0031        JOINT = 300/75;
1028.   75Bg0031        JOINT = D18/v;
1029.   75Bg0031
1030.   75Bg0031SA SAMPLE NUMBER = 75ABg0031A;
1031.   75Bg0031SA      UNIT = QD;
1032.   75Bg0031SA      SOURCE = Rubble;
1033.   75Bg0031SA      TYPE = Repres;
1034.   75Bg0031SA      PURPOSE = Hand spec;
1035.   75Bg0031SA      LITH = Qtz Dio;
1036.   75Bg0031SA      FORM = Pluton;
1037.   75Bg0031SA      TEXTURE = Msv gran;
```

```
1038.   75Bg0031SA      CONDITION = Alter;
1039.   75Bg0031SA      REMARKS = Weathered;
1040.   75Bg0031SA
1041.   75Bg0031T  TEXT = Massive HO - Bio quartz diorite.  Rk appears rel fresh, nonfoliated.  Outcrops are too rounded
1042.   75Bg0031T        and deeply weathered to coll good spl--take best I can get.;
1043.   75Bg0031  ----------------------------------------------------------------------------------------------------
1044.   #
1045.   75Bg0032             STATION = 75ABg0032;
1046.   75Bg0032             DATE = 7/5/75;
1047.   75Bg0032             QUAD = CR C-1;
1048.   75Bg0032             LAT = 55/34/56;
1049.   75Bg0032             LONG = 132/05/01;
1050.   75Bg0032             PURPOSE = Geol;
1051.   75Bg0032
1052.   75Bg0032   TEXT-TOPIC = Lith;
1053.   75Bg0032
1054.   75Bg0032   STRUCTURE;
1055.   75Bg0032        FOL-SCH = 310/65;
1056.   75Bg0032        JOINT = 240/80;
1057.   75Bg0032
1058.   75Bg0032SA SAMPLE NUMBER = 75ABg0032A;
1059.   75Bg0032SA      UNIT = GIF or HFLS;
1060.   75Bg0032SA      TYPE = Repres;
1061.   75Bg0032SA      PURPOSE = Hand spec;
1062.   75Bg0032SA      LITH = Hornfelsed metatuff;
1063.   75Bg0032SA      MINS = Ep/Clz;
1064.   75Bg0032SA      TEXTURE = Msv - platy - fine granoblastic;
1065.   75Bg0032SA      CONDITION = Fresh;
1066.   75Bg0032SA
1067.   75Bg0032T  TEXT = Hornfels derived from andesitic metatuff.;
1068.   75Bg0032  ----------------------------------------------------------------------------------------------------
1069.   #
1070.   75Bg0033             STATION = 75ABg0033;
1071.   75Bg0033             DATE = 7/6/75;
1072.   75Bg0033             QUAD = CR C-1;
1073.   75Bg0033             LAT = 55/36/29;
1074.   75Bg0033             LONG = 132/02/02;
1075.   75Bg0033             PURPOSE = Geol, Geochem;
1076.   75Bg0033
1077.   75Bg0033   TEXT-TOPIC = Lith;
1078.   75Bg0033
1079.   75Bg0033   STRUCTURE;
1080.   75Bg0033        FOL-SCH = 184/v;
1081.   75Bg0033        JOINT = 088/v;
1082.   75Bg0033
1083.   75Bg0033SA SAMPLE NUMBER = 75ABg0033A;
1084.   75Bg0033SA      UNIT = GIF;
1085.   75Bg0033SA      SOURCE = OTC;
1086.   75Bg0033SA      TYPE = Repres;
1087.   75Bg0033SA      PURPOSE = Hand spec;
1088.   75Bg0033SA      DESCRIPTION = Extr, mat;
1089.   75Bg0033SA      LITH = Andesitic metatuff;
1090.   75Bg0033SA      MINS = Py, Act, Chl, Ep/Clz;
1091.   75Bg0033SA
1092.   75Bg0033SA SAMPLE NUMBER = 75ABg0033A;
1093.   75Bg0033SA      UNIT = GIF;
1094.   75Bg0033SA      SOURCE = OTC;
1095.   75Bg0033SA      TYPE = Repres;
1096.   75Bg0033SA      PURPOSE = Hand spec, spec;
1097.   75Bg0033SA      MINS = Py, Act, Chl, Ep/Clz;
1098.   75Bg0033SA      REMARKS = Finely disseminated pyrite;
```

```
75Bg0033SA
75Bg0033T  TEXT = Femag xl-bearg andesitic metatuff.  Rk weath yellowish green and is rel platy, but not fissile.
75Bg0033T        Does not seem to be thermally metd, as in hornfels unit, but is phyllitic, as in typical GIF
75Bg0033T        meta-andesite.  Rk contains fairly abundant vfg dissem PY, fracture surfs are rusty.;
75Bg0033  ----------------------------------------------------------------------------------------------
#
75Bg0034            STATION = 75ABg0034;
75Bg0034            DATE = 7/6/75;
75Bg0034            QUAD = CR C-1;
75Bg0034            LAT = 55/38/01;
75Bg0034            LONG = 132/01/23;
75Bg0034            PURPOSE = Geol;
75Bg0034
75Bg0034   TEXT-TOPIC = Lith;
75Bg0034
75Bg0034   STRUCTURE;
75Bg0034        FOL-SCH = 030/70;
75Bg0034        JOINT = 160/35;
75Bg0034        JOINT = 155/70;
75Bg0034
75Bg0034SA SAMPLE NUMBER = 75ABg0034A;
75Bg0034SA      UNIT = GIF;
75Bg0034SA      SOURCE = OTC;
75Bg0034SA      TYPE = Repres;
75Bg0034SA      PURPOSE = Hand spec;
75Bg0034SA      DESCRIPTION = Extr, met;
75Bg0034SA      LITH = metatuff;
75Bg0034SA      TEXTURE = msv, phyllitic;
75Bg0034SA      CONDITION = Fresh;
75Bg0034SA
75Bg0034T  TEXT = Excellent exposures of andesitic metatuff and agglomerate of GIF. Gently West-dipping set of
75Bg0034T        joints give outcrop msv layered look that could be interp as bedding, but I do not believe it is
75Bg0034T        bedding.  Agglomerate clasts up to a metre in max dimens, some of the larger ones are not
75Bg0034T        sig deformed.;
75Bg0034  ----------------------------------------------------------------------------------------------
#
75Bg0035            STATION = 75ABg0035;
75Bg0035            DATE = 7/5/75;
75Bg0035            QUAD = KC C-6;
75Bg0035            LAT = 55/33/40;
75Bg0035            LONG = 131/59/34;
75Bg0035            PURPOSE = Geol;
75Bg0035
75Bg0035   TEXT-TOPIC = Lith;
75Bg0035
75Bg0035   STRUCTURE;
75Bg0035        FOL-SCH = 044/v;
75Bg0035
75Bg0035SA SAMPLE NUMBER = 75ABg0035A;
75Bg0035SA      UNIT = GIF;
75Bg0035SA      SOURCE = Bubble;
75Bg0035SA      TYPE = Repres;
75Bg0035SA      PURPOSE = Hand spec;
75Bg0035SA      DESCRIPTION = Extr, met;
75Bg0035SA      LITH = metatuff;
75Bg0035SA      TEXTURE = Phyllitic;
75Bg0035SA      CONDITION = Fresh;
75Bg0035SA
75Bg0035T  TEXT = Phyllitic femag xl-bearg andesitic metatuff.;
75Bg0035  ----------------------------------------------------------------------------------------------
#
```

```
75Bg0036              STATION = 75ABg0036;
75Bg0036              DATE = 7/6/75;
75Bg0036              QUAD = KC C-6;
75Bg0036              LAT = 55/33/40;
75Bg0036              LONG = 131/59/05;
75Bg0036              PURPOSE = Geol;
75Bg0036
75Bg0036   TEXT-TOPIC = Lith;
75Bg0036
75Bg0036   STRUCTURE;
75Bg0036        FOL-SCH = 340/45;
75Bg0036        JOINT = 144/50;
75Bg0036
75Bg0036SA SAMPLE NUMBER = 75ABg0036A;
75Bg0036SA      UNIT = GIF;
75Bg0036SA      SOURCE = OTC;
75Bg0036SA      TYPE = Repres;
75Bg0036SA      PURPOSE = Hand spec;
75Bg0036SA      LITH = Phyllitic flysch;
75Bg0036SA      FORM = Bedded;
75Bg0036SA      TEXTURE = Platy-fissile;
75Bg0036SA      CONDITION = Fresh;
75Bg0036SA      REMARKS = Phyllitic flysch facies of GIF.;
75Bg0036SA
75Bg0036T  TEXT = Phyllitic flysch showing excellent microkinks and striations (but can't measure them due to cover).
75Bg0036T        Scattered small quartz veins.;
75Bg0036  ----------------------------------------------------------------------------------------------------
#
75Bg0037              STATION = 75ABg0037;
75Bg0037              DATE = 7/6/75;
75Bg0037              QUAD = KC C-6;
75Bg0037              LAT = 55/32/52;
75Bg0037              LONG = 131/57/35;
75Bg0037              PURPOSE = Geol, geochem;
75Bg0037
75Bg0037   TEXT-TOPIC = Lith;
75Bg0037
75Bg0037   STRUCTURE;
75Bg0037        FOL-SCH = 340/65;
75Bg0037        JOINT = 096/v;
75Bg0037
75Bg0037SA SAMPLE NUMBER = 75ABg0037A;
75Bg0037SA      UNIT = GIF;
75Bg0037SA      SOURCE = OTC;
75Bg0037SA      TYPE = Repres;
75Bg0037SA      PURPOSE = Hand spec;
75Bg0037SA      DESCRIPTION = Extr, met;
75Bg0037SA      LITH = Andesitic metatuff;
75Bg0037SA      TEXTURE = Phyllitic;
75Bg0037SA      CONDITION = Fresh;
75Bg0037SA
75Bg0037SA SAMPLE NUMBER = 75ABg0037B;
75Bg0037SA      UNIT = GIF;
75Bg0037SA      SOURCE = OTC;
75Bg0037SA      TYPE = Repres;
75Bg0037SA      PURPOSE = Spec;
75Bg0037SA      LITH = Qz;
75Bg0037SA      FORM = Vein;
75Bg0037SA      MINS = Qtz;
75Bg0037SA      CONDITION = Fresh;
75Bg0037SA      REMARKS = Qtz veinlet 12 cm long and 2 cm wide.  Spl includes a little meta-andesite
```

```
75Bg0037SA      REMARKS = country rock.;
75Bg0037SA
75Bg0037T  TEXT = Foliated but not fissile, andesitic metatuff of Gravina Island Fm.  No evidence of significant
75Bg0037T        hornfelsing.  A few small quartz veins.;
75Bg0037  ------------------------------------------------------------------------------------------------------
#
75Bg0038             STATION = 75ABg0038;
75Bg0038             DATE = 7/6/75;
75Bg0038             QUAD = CR C-1;
75Bg0038             LAT = 55/32/24;
75Bg0038             LONG = 132/01/25;
75Bg0038             PURPOSE = Geol;
75Bg0038
75Bg0038   TEXT-TOPIC = Lith, strat;
75Bg0038
75Bg0038   STRUCTURE;
75Bg0038        FOL-SCH = 350/30-60;
75Bg0038        JOINT = 170/65;
75Bg0038
75Bg0038SA SAMPLE NUMBER = 75ABg0038A;
75Bg0038SA      UNIT = GIF;
75Bg0038SA      SOURCE = Rubble;
75Bg0038SA      TYPE = Repres;
75Bg0038SA      PURPOSE = Hand spec;
75Bg0038SA      DESCRIPTION = Extr, met;
75Bg0038SA      LITH = Phyllitic metatuff;
75Bg0038SA      CONDITION = Fresh;
75Bg0038SA      REMARKS = Sample consists of two pieces: one of prevailing phyllitic metatuff, and one
75Bg0038SA      REMARKS = clast from agglomerate.;
75Bg0038SA
75Bg0038T  TEXT = Greenish gy phyllitic fragmental rock that probably is andesitic metatuff and agglomerate.
75Bg0038T        See no evidence of thermal met (hfls).  Small quartz lenses, veins.
75Bg0038T        Rk is laminated and contains numerous small folds, but cannot measure them.  Rk like this is
75Bg0038T        transitional with flysch facies of GIF on Annette-Gravina Islands.;
75Bg0038  ------------------------------------------------------------------------------------------------------
#
75Bg0039             STATION = 75ABg0039;
75Bg0039             DATE = 7/6/75;
75Bg0039             QUAD = CR C-1;
75Bg0039             LAT = 55/33/44;
75Bg0039             LONG = 132/01/53;
75Bg0039             PURPOSE = Geol, geochem;
75Bg0039
75Bg0039   TEXT-TOPIC = Lith;
75Bg0039
75Bg0039   STRUCTURE;
75Bg0039        FOL-SCH = 300/55;
75Bg0039        CLEAVAGE = 112/v;
75Bg0039        AXIAL-PLANE = 112/v;
75Bg0039        FOLD-AXIS = 112/55;
75Bg0039        OTHER-LIN = 135/10 (SIR);
75Bg0039
75Bg0039SA SAMPLE NUMBER = 75ABg0039A;
75Bg0039SA      UNIT = GIF;
75Bg0039SA      SOURCE = OTC;
75Bg0039SA      TYPE = Repres;
75Bg0039SA      PURPOSE = Spec;
75Bg0039SA      LITH = Qz;
75Bg0039SA      FORM = Vein;
75Bg0039SA      MINS = Qtz;
75Bg0039SA      REMARKS = Sample contains a little of the phyllite country rock.;
```

```
75Bg0039SA
75Bg0039SA SAMPLE NUMBER = 75ABg0039B;
75Bg0039SA      UNIT = GIF;
75Bg0039SA      SOURCE = OTC;
75Bg0039SA      TYPE = Repres;
75Bg0039SA      PURPOSE = Hand spec;
75Bg0039SA      DESCRIPTION = Extr, sed, met;
75Bg0039SA      LITH = Phyllitic tuff;
75Bg0039SA      TEXTURE = Platy-fissile;
75Bg0039SA
75Bg0039T  TEXT = Lineated, silvery green and gray phyllite that probably is derived from interbedded tuff and
75Bg0039T        argillite.  This rock type grades into phyllitic flysch on Annette-Gravina islands.' Small pods,
75Bg0039T        lenses of white quartz.;
75Bg0039  ------------------------------------------------------------------------------------------------------
$
75Bg0040              STATION = 75ABg0040;
75Bg0040              DATE = 7/6/75;
75Bg0040              QUAD = CR C-1;
75Bg0040              LAT = 55/33/19;
75Bg0040              LONG = 132/03/42;
75Bg0040              PURPOSE = Geol;
75Bg0040
75Bg0040   TEXT-TOPIC = Lith;
75Bg0040
75Bg0040   STRUCTURE;
75Bg0040        FOL-SCH = 142/70;
75Bg0040        JOINT = 005/v;
75Bg0040
75Bg0040SA SAMPLE NUMBER = 75ABg0040A;
75Bg0040SA      UNIT = Metadiorite;
75Bg0040SA      SOURCE = OTC;
75Bg0040SA      TYPE = Repres;
75Bg0040SA      PURPOSE = Hand spec;
75Bg0040SA      DESCRIPTION = Intr, met;
75Bg0040SA      LITH = Metadiorite;
75Bg0040SA      FORM = Pluton;
75Bg0040SA      TEXTURE = Granitoid;
75Bg0040SA      CONDITION = Fresh;
75Bg0040SA
75Bg0040SA SAMPLE NUMBER = 75ABg0040B;
75Bg0040SA      UNIT = GIF;
75Bg0040SA      SOURCE = OTC;
75Bg0040SA      TYPE = Repres;
75Bg0040SA      PURPOSE = Hand spec;
75Bg0040SA      LITH = Hornfels;
75Bg0040SA      CONDITION = Fresh;
75Bg0040SA
75Bg0040T  TEXT = Coarse metadiorite with hornfels inclusions.' There appears to be some rel fine grained quartz
75Bg0040T        diorite that might be a phase of the metadio or a separate pluton.;
75Bg0040  ------------------------------------------------------------------------------------------------------
$
75Bg0041              STATION = 75ABg0041;
75Bg0041              DATE = 7/6/75;
75Bg0041              QUAD = CR C-1;
75Bg0041              LAT = 55/33/48;
75Bg0041              LONG = 132/05/59;
75Bg0041              PURPOSE = Geol;
75Bg0041
75Bg0041   TEXT-TOPIC = Lith;
75Bg0041
75Bg0041   STRUCTURE;
```

```
75Bg0041          FOL-SCH = 068/v;
75Bg0041          FOL-SCH = 035/v;
75Bg0041
75Bg0041SA SAMPLE NUMBER = 75ABg0041A;
75Bg0041SA        UNIT = GIF;
75Bg0041SA        SOURCE = OTC;
75Bg0041SA        TYPE = Repres;
75Bg0041SA        PURPOSE = Hand spec;
75Bg0041SA        LITH = Hornfels;
75Bg0041SA        TEXTURE = Granoblastic;
75Bg0041SA        CONDITION = Fresh;
75Bg0041SA
75Bg0041T  TEXT = Cooked flysch.  Fine grained dk gy to dk reddish brown hornfels derived from flysch facies of
75Bg0041T         Gravina Island Fm.  Small amount of porphyritic quartz diorite in float.;
75Bg0041  ------------------------------------------------------------------------------------------------------
#
75Bg0042               STATION = 75ABg0042;
75Bg0042               DATE = 7/6/75;
75Bg0042               QUAD = CR C-1;
75Bg0042               LAT = 55/41/56;
75Bg0042               LONG = 132/02/29;
75Bg0042               PURPOSE = Geol;
75Bg0042
75Bg0042   TEXT-TOPIC = Lith;
75Bg0042
75Bg0042   STRUCTURE;
75Bg0042          FOL-SCH = 330/v;
75Bg0042          JOINT = 215/70;
75Bg0042
75Bg0042SA SAMPLE NUMBER = 75ABg0042A;
75Bg0042SA        UNIT = GIF;
75Bg0042SA        SOURCE = OTC;
75Bg0042SA        TYPE = Repres;
75Bg0042SA        PURPOSE = Hand spec;
75Bg0042SA        DESCRIPTION = Sed, met;
75Bg0042SA        LITH = Hornfels;
75Bg0042SA        TEXTURE = Granoblastic, schistose;
75Bg0042SA        CONDITION = Fresh;
75Bg0042SA
75Bg0042T  TEXT = Fn gn biotite schist and hornfels derived from thin bedded sedimentary rx.' Probably correl w/
75Bg0042T         flysch facies of GIF.
75Bg0042T         Couple of small pieces of ultramafic float.  Does it crop out nearby??;
75Bg0042  ------------------------------------------------------------------------------------------------------
#
75Bg0043               STATION = 75ABg0043;
75Bg0043               DATE = 7/6/75;
75Bg0043               QUAD = CR C-1;
75Bg0043               LAT = 55/42/55;
75Bg0043               LONG = 132/03/22;
75Bg0043               PURPOSE = Geol;
75Bg0043
75Bg0043   TEXT-TOPIC = Lith, strat, reg geol/tect;
75Bg0043
75Bg0043   STRUCTURE;
75Bg0043          FOL-SCH = 185/80;
75Bg0043          FOLD-AXIS = 208/60;
75Bg0043
75Bg0043SA SAMPLE NUMBER = 75ABg0043A;
75Bg0043SA        UNIT = GIF?;
75Bg0043SA        SOURCE = OTC;
75Bg0043SA        TYPE = Repres;
```

```
75Bg0043SA      PURPOSE = Hand spec;
75Bg0043SA      DESCRIPTION = Sed, met;
75Bg0043SA      LITH = Schist, hornfels;
75Bg0043SA      FORM = Layered;
75Bg0043SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0043SA      TEXTURE = Schistose;
75Bg0043SA      CONDITION = Fresh;
75Bg0043SA      REMARKS = Comp layerg ranges from less than a cm to 2 or 3 cm.;
75Bg0043SA
75Bg0043T  TEXT = Dk brsh gy weathering BI-HO-QZ schist that closely resembles paragneiss unit of GPVSA.
75Bg0043T        Ptygmatic Qtz vein 2 cm tk and less than a m long--fold axis measured on isoclinal fold in vein.
75Bg0043T        This may also be attitude of folds in schistosity of enclosing rk.  Schist probably is derived
75Bg0043T        from thinly interbedded sedimentary rocks like those in flysch facies of Gravina Island Fm.;
75Bg0043  ------------------------------------------------------------------------------------------------
#
75Bg0044            STATION = 75ABg0044;
75Bg0044            DATE = 7/6/75;
75Bg0044            QUAD = CR C-1;
75Bg0044            LAT = 55/42/29;
75Bg0044            LONG = 132/05/11;
75Bg0044            PURPOSE = Geol;
75Bg0044
75Bg0044   TEXT-TOPIC = Lith;
75Bg0044
75Bg0044SA SAMPLE NUMBER = 75ABg0044A;
75Bg0044SA      UNIT = GIF?;
75Bg0044SA      SOURCE = Float;
75Bg0044SA      PURPOSE = Hand spec;
75Bg0044SA      DESCRIPTION = Sed, met;
75Bg0044SA      LITH = Schist;
75Bg0044SA      MINS = Qtz, Plag, Hbl, Bio, Musc;
75Bg0044SA      TEXTURE = Schistose, layered;
75Bg0044SA      CONDITION = Fresh;
75Bg0044SA
75Bg0044T  TEXT = Can find no outcrop.  Pick up piece of float of mica-hornblende schist similar to rk at 43.
75Bg0044T        From topography, I believe this locality should be mapped as same schist unit as at 43.;
75Bg0044  ------------------------------------------------------------------------------------------------
#
75Bg0045            STATION = 75ABg0045;
75Bg0045            DATE = 7/7/75;
75Bg0045            QUAD = KC D-6;
75Bg0045            LAT = 55/52/28;
75Bg0045            LONG = 131/59/40;
75Bg0045            PURPOSE = Geol;
75Bg0045
75Bg0045   TEXT-TOPIC = Lith, struct, strat;
75Bg0045
75Bg0045   STRUCTURE;
75Bg0045        FOL-SCH = 310/72;
75Bg0045        OTHER-LIN = 074/62 (str);
75Bg0045
75Bg0045SA SAMPLE NUMBER = 75ABg0045A;
75Bg0045SA      UNIT = GIF?;
75Bg0045SA      SOURCE = OTC;
75Bg0045SA      TYPE = Repres;
75Bg0045SA      PURPOSE = Hand spec;
75Bg0045SA      DESCRIPTION = Sed, met;
75Bg0045SA      LITH = Schist;
75Bg0045SA      FORM = Layered;
75Bg0045SA      MINS = Qtz, Bio, Ky, Staur?, Musc;
75Bg0045SA      TEXTURE = Foliated;
```

```
75Bg0045SA      CONDITION = Fresh;
75Bg0045SA
75Bg0045T  TEXT = Fissile, thinly laminated dk gy fn gn mica schist derived from interbedded siltstone and argillite.
75Bg0045T        Lithology is same as in turbidite facies of Gravina Island Fm.  With increasing metamorphism, this
75Bg0045T        unit would become pelitic gneiss similar to that in paragneiss unit in GPWSA.  Schist contains
75Bg0045T        BI, KY, STAUR(?).;
75Bg0045  ------------------------------------------------------------------------------------------------------
#
75Bg0046             STATION = 75ABg0046;
75Bg0046             DATE = 7/7/75;
75Bg0046             QUAD = KC D-6;
75Bg0046             LAT = 55/54/45;
75Bg0046             LONG = 131/59/14;
75Bg0046             PURPOSE = Geol;
75Bg0046
75Bg0046   TEXT-TOPIC = Lith;
75Bg0046
75Bg0046   STRUCTURE;
75Bg0046        JOINT = 253/65;
75Bg0046        JOINT = 240/15;
75Bg0046        OTHER = Qz/Peg Vein 260/75;
75Bg0046
75Bg0046SA SAMPLE NUMBER = 75ABg0046A;
75Bg0046SA      UNIT = Quartz diorite;
75Bg0046SA      SOURCE = OTC;
75Bg0046SA      TYPE = Repres;
75Bg0046SA      PURPOSE = Hand spec;
75Bg0046SA      DESCRIPTION = Intr;
75Bg0046SA      LITH = Q D;
75Bg0046SA      FORM = Pluton;
75Bg0046SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0046SA      TEXTURE = Granitoid;
75Bg0046SA      CONDITION = Fresh;
75Bg0046SA      REMARKS = Rk contains tiny crystals of red garnet.  Rare.;
75Bg0046SA
75Bg0046T  TEXT = Msv, rel homogeneous and inclusion-free quartz diorite containing tiny red garnet crystals.
75Bg0046T        In places, the rk is distinctly porphyritic, w/ Plag euhedra to about 1 cm, but about half
75Bg0046T        of it is granitoid (hypid gran).  A few Qtz (peg?) veins to a m thick.;
75Bg0046  ------------------------------------------------------------------------------------------------------
#
75Bg0047             STATION = 75ABg0047;
75Bg0047             DATE = 7/7/75;
75Bg0047             QUAD = CR D-1;
75Bg0047             LAT = 55/55/09;
75Bg0047             LONG = 132/01/38;
75Bg0047             PURPOSE = Geol;
75Bg0047
75Bg0047   TEXT-TOPIC = Lith;
75Bg0047
75Bg0047   STRUCTURE;
75Bg0047        JOINT = 350/55;
75Bg0047        JOINT = 270/90;
75Bg0047
75Bg0047SA SAMPLE NUMBER = 75ABg0047A;
75Bg0047SA      UNIT = Quartz diorite;
75Bg0047SA      SOURCE = OTC;
75Bg0047SA      TYPE = Repres;
75Bg0047SA      PURPOSE = Hand spec;
75Bg0047SA      DESCRIPTION = Intr;
75Bg0047SA      LITH = QD or GD;
75Bg0047SA      FORM = Pluton;
```

```
75Bg0047SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0047SA      CONDITION = Alter;
75Bg0047SA      REMARKS = Weathered specimen.  Rk is similar to that at 46, except possibly
75Bg0047SA      REMARKS = less porphyritic.  See no GA, but haven't looked very hard.;
75Bg0047SA
75Bg0047T  TEXT = Medium grained hypid gran BI-HO  QD or GD.  See no inclusions.  If rk is foliated, it must be
75Bg0047T        very weakly so.  I see nothing planar or linear to measure except joints.;
75Bg0047  ------------------------------------------------------------------------------------------------------
#
75Bg0048            STATION = 75ABg0048;
75Bg0048            DATE = 7/7/75;
75Bg0048            QUAD = CR D-1;
75Bg0048            LAT = 55/56/18;
75Bg0048            LONG = 132/02/38;
75Bg0048            PURPOSE = Geol;
75Bg0048
75Bg0048   TEXT-TOPIC = Lith;
75Bg0048
75Bg0048   STRUCTURE;
75Bg0048        POL-SCH = 285/80;
75Bg0048
75Bg0048T  TEXT = Foliated quartz diorite or granodiorite.  Possibly a percent or less of mafic inclusions alined
75Bg0048T        parallel to foln.  Outcrop too smooth to collect sample.  Rk is rel dk gy, med grained foliated
75Bg0048T        aggregate of QZ, PC, BI, HO.  See no GA.  Foliation due to planar alinement of mafics.
75Bg0048T        Elliott believes this is a zoned pluton:
75Bg0048T        Outer zone:  Foliated, Garn bearing, more mafic (QD).
75Bg0048T        Core:  Rel msv, little or no GA, less mafic (GD).;
75Bg0048  ------------------------------------------------------------------------------------------------------
#
75Bg0049            STATION = 75ABg0049;
75Bg0049            DATE = 7/7/75;
75Bg0049            QUAD = CR D-1;
75Bg0049            LAT = 55/57/27;
75Bg0049            LONG = 132/10/31;
75Bg0049            PURPOSE = Geol;
75Bg0049
75Bg0049   TEXT-TOPIC = Lith;
75Bg0049
75Bg0049   STRUCTURE;
75Bg0049        JOINT = 193/v;
75Bg0049        OTHER = Lampro Dike 193/v;
75Bg0049
75Bg0049SA SAMPLE NUMBER = 75ABg0049A;
75Bg0049SA      UNIT = Metadiorite;
75Bg0049SA      SOURCE = OTC;
75Bg0049SA      TYPE = Repres;
75Bg0049SA      PURPOSE = Hand spec, T. S.;
75Bg0049SA      DESCRIPTION = Intr;
75Bg0049SA      LITH = Qtz metadiorite;
75Bg0049SA      FORM = Pluton (stock?);
75Bg0049SA      MINS = Qtz, Plag, Hbl, Chl, Ep/Clz;
75Bg0049SA      TEXTURE = Hypid gran-porphtc?;
75Bg0049SA      CONDITION = Fresh;
75Bg0049SA
75Bg0049SA SAMPLE NUMBER = 75ABg0049B;
75Bg0049SA      UNIT = Metadiorite;
75Bg0049SA      SOURCE = OTC;
75Bg0049SA      TYPE = Repres;
75Bg0049SA      PURPOSE = Hand spec;
75Bg0049SA      DESCRIPTION = Intr;
75Bg0049SA      LITH = Lamprophyre?;
```

```
75Bg0049SA      FORM = 6 inch dike;
75Bg0049SA      TEXTURE = Granular;
75Bg0049SA      CONDITION = Fresh;
75Bg0049SA
75Bg0049T  TEXT = Med grained dk gnsh gy quartz metadiorite cut by thin dikes of dk gn vfg lampro. Attitude
75Bg0049T       meas on 12 cm thick dike.  Ray and I both believe that this pluton prob is related to Gravina
75Bg0049T       Island metavolcanic facies.  It is not a typical Coast Range-type pluton.;
75Bg0049  ------------------------------------------------------------------------------------------------
#
75Bg0050            STATION = 75ABg0050;
75Bg0050            DATE = 7/7/75;
75Bg0050            QUAD = CR D-1;
75Bg0050            LAT = 55/57/32;
75Bg0050            LONG = 132/11/12;
75Bg0050            PURPOSE = Geol;
75Bg0050
75Bg0050   TEXT-TOPIC = Lith;
75Bg0050
75Bg0050   STRUCTURE;
75Bg0050        JOINT = 330/40;
75Bg0050        JOINT = 005/v;
75Bg0050
75Bg0050SA SAMPLE NUMBER = 75ABg0050A;
75Bg0050SA      SOURCE = OTC;
75Bg0050SA      TYPE = Repres;
75Bg0050SA      PURPOSE = Hand spec, T. S.;
75Bg0050SA      DESCRIPTION = Intr;
75Bg0050SA      LITH = Feldspar porphyry;
75Bg0050SA      MINS = Plag;
75Bg0050SA      CONDITION = Fresh;
75Bg0050SA
75Bg0050T  TEXT = Brown weath dk gnsh gy very fine grained feldspar porphyry.  Some of the rock looks a little
75Bg0050T       like hornfels.;
75Bg0050  ------------------------------------------------------------------------------------------------
#
75Bg0051            STATION = 75ABg0051;
75Bg0051            DATE = 7/7/75;
75Bg0051            QUAD = CR D-1;
75Bg0051            LAT = 55/58/20;
75Bg0051            LONG = 132/14/40;
75Bg0051            PURPOSE = Geol;
75Bg0051
75Bg0051   TEXT-TOPIC = Lith;
75Bg0051
75Bg0051   STRUCTURE;
75Bg0051        FOL-SCH = 333/75;
75Bg0051
75Bg0051SA SAMPLE NUMBER = 75ABg0051A;
75Bg0051SA      UNIT = Meta-turbidite;
75Bg0051SA      SOURCE = OTC;
75Bg0051SA      TYPE = Repres;
75Bg0051SA      PURPOSE = Hand spec;
75Bg0051SA      DESCRIPTION = Sed, met;
75Bg0051SA      LITH = Schist;
75Bg0051SA      FORM = Bedded;
75Bg0051SA      MINS = Qtz, Plag, Bio, Staur?, Garn;
75Bg0051SA      TEXTURE = Fissile;
75Bg0051SA      CONDITION = Fresh;
75Bg0051SA
75Bg0051T  TEXT = Very platy-fissile fine grained schist derived from pelitic sedimentary rocks.  Lithically
75Bg0051T       indistinguishable from metaturbidite in Seward Passage area.  Correlate with flysch facies of
```

```
1648.   75Bg0051T        Gravina Island Fm?;
1649.   75Bg0051  ----------------------------------------------------------------------------------------------
1650.   #
1651.   75Bg0052              STATION = 75ABg0052;
1652.   75Bg0052              DATE = 7/7/75;
1653.   75Bg0052              QUAD = CR D-1;
1654.   75Bg0052              LAT = 55/59/36;
1655.   75Bg0052              LONG = 132/13/38;
1656.   75Bg0052              PURPOSE = Geol;
1657.   75Bg0052
1658.   75Bg0052   TEXT-TOPIC = Lith;
1659.   75Bg0052
1660.   75Bg0052   STRUCTURE;
1661.   75Bg0052        JOINT = 335/v;
1662.   75Bg0052        JOINT = 270/80;
1663.   75Bg0052
1664.   75Bg0052SA SAMPLE NUMBER = 75ABg0052A;
1665.   75Bg0052SA      UNIT = Qtz Dio or Granodio;
1666.   75Bg0052SA      SOURCE = OTC;
1667.   75Bg0052SA      TYPE = Repres;
1668.   75Bg0052SA      PURPOSE = Hand spec;
1669.   75Bg0052SA      DESCRIPTION = Intr;
1670.   75Bg0052SA      LITH = Qtz Dio;
1671.   75Bg0052SA      FORM = Pluton;
1672.   75Bg0052SA      MINS = Qtz, Plag, Hbl, Bio;
1673.   75Bg0052SA      TEXTURE = Hypidiomorphic granular;
1674.   75Bg0052SA      CONDITION = Fresh;
1675.   75Bg0052SA
1676.   75Bg0052T  TEXT = Msv fine grained hypid gran Qtz diorite or granodiorite.  Rk evidently is not foliated and is free
1677.   75Bg0052T        of inclusions.  Scattered glassy Plag euhedra to 2 cm suggest unit at least locally is porphyritic.
1678.   75Bg0052T        See no GA.;
1679.   75Bg0052  ----------------------------------------------------------------------------------------------
1680.   #
1681.   75Bg0053              STATION = 75ABg0053;
1682.   75Bg0053              DATE = 7/7/75;
1683.   75Bg0053              QUAD = CR D-1;
1684.   75Bg0053              LAT = 55/59/40;
1685.   75Bg0053              LONG = 132/18/20;
1686.   75Bg0053              PURPOSE = Geol;
1687.   75Bg0053
1688.   75Bg0053   TEXT-TOPIC = Lith;
1689.   75Bg0053
1690.   75Bg0053   STRUCTURE;
1691.   75Bg0053        JOINT = 106/75 (vy weak);
1692.   75Bg0053
1693.   75Bg0053SA SAMPLE NUMBER = 75ABg0053A;
1694.   75Bg0053SA      UNIT = Qtz Dio;
1695.   75Bg0053SA      SOURCE = OTC;
1696.   75Bg0053SA      TYPE = Repres;
1697.   75Bg0053SA      PURPOSE = Hand spec;
1698.   75Bg0053SA      DESCRIPTION = Intr;
1699.   75Bg0053SA      LITH = Quartz diorite;
1700.   75Bg0053SA      FORM = Pluton;
1701.   75Bg0053SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
1702.   75Bg0053SA      TEXTURE = Porphyritic;
1703.   75Bg0053SA      CONDITION = Fresh;
1704.   75Bg0053SA      REMARKS = Euhed Plag phenos avgg 1 cm--zoned.;
1705.   75Bg0053SA
1706.   75Bg0053T  TEXT = Porphyritic quartz diorite containing fairly abundant tiny pink garnet crystals.  Scattered
1707.   75Bg0053T        float of fn gn dk gnsh gy xline-granular rk could be microdio phase of pluton or meta inclusions.
1708.   75Bg0053T        See none w/in pluton, however.;
```

```
75Bg0053 ----------------------------------------------------------------------------------------------------
#
75Bg0054            STATION = 75ABg0054;
75Bg0054            DATE = 7/7/75;
75Bg0054            QUAD = CR D-1;
75Bg0054            LAT = 55/58/25;
75Bg0054            LONG = 132/17/52;
75Bg0054            PURPOSE = Geol;
75Bg0054
75Bg0054   TEXT-TOPIC = Lith;
75Bg0054
75Bg0054   STRUCTURE;
75Bg0054        FOL-SCH = 345/40 ?;
75Bg0054        JOINT = 176/75;
75Bg0054
75Bg0054SA SAMPLE NUMBER = 75ABg0054A;
75Bg0054SA      UNIT = GIF?;
75Bg0054SA      SOURCE = Float;
75Bg0054SA      TYPE = Repres;
75Bg0054SA      PURPOSE = Hand spec;
75Bg0054SA      DESCRIPTION = Sed, met;
75Bg0054SA      LITH = Pelitic schist;
75Bg0054SA      FORM = Layered;
75Bg0054SA      MINS = Bio, Garn;
75Bg0054SA      TEXTURE = Platy, schistose;
75Bg0054SA      CONDITION = Fresh;
75Bg0054SA
75Bg0054SA SAMPLE NUMBER = 75ABg0054B;
75Bg0054SA      UNIT = Qtz Dio;
75Bg0054SA      SOURCE = Float;
75Bg0054SA      PURPOSE = Hand spec;
75Bg0054SA      LITH = Quartz diorite;
75Bg0054SA      FORM = Pluton;
75Bg0054SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0054SA      TEXTURE = Hypid gran;
75Bg0054SA      CONDITION = Fresh;
75Bg0054SA      REMARKS = See no garnet.;
75Bg0054SA
75Bg0054T  TEXT = Judging from their abundance in float, bedrocks here seem to be slightly > 1/2 dk gy vfg pelitic
75Bg0054T         (BI) schist and sl < 1/2 plutonic rock that ranges from hypidio granular quartz diorite to
75Bg0054T         aplite or leuco-microdiorite.  Locally abundant pieces of white quartz.  See no Garn in plutonic
75Bg0054T         rocks.  The pelitic schist probably is derived from argillite and siltstone turbidite, which I
75Bg0054T         tentatively assign to flysch facies of Gravina Island Fm.  Attitudes meas on vy doubtful
75Bg0054T         "outcrop" of metased in sml creek.;
75Bg0054 ----------------------------------------------------------------------------------------------------
#
75Bg0055            STATION = 75ABg0055;
75Bg0055            DATE = 7/7/75;
75Bg0055            QUAD = CR D-2;
75Bg0055            LAT = 55/59/00;
75Bg0055            LONG = 132/20/22;
75Bg0055            PURPOSE = Geol;
75Bg0055
75Bg0055   TEXT-TOPIC = Lith;
75Bg0055
75Bg0055SA SAMPLE NUMBER = 75ABg0055A;
75Bg0055SA      UNIT = Qtz Dio?;
75Bg0055SA      SOURCE = Float;
75Bg0055SA      PURPOSE = Hand spec;
75Bg0055SA      LITH = Qtz Dio;
75Bg0055SA      FORM = Pluton;
```

```
75Bg0055SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0055SA      TEXTURE = Porphyritic;
75Bg0055SA      REMARKS = See no GA;
75Bg0055SA
75Bg0055T  TEXT = Float only.  Porphyritic quartz dio, dk gray metaflysch, and vein quartz.' I believe the amount
75Bg0055T        of quartz dio is sig greater than that of metased.;
75Bg0055  ------------------------------------------------------------------------------------------------------
$
75Bg0056             STATION = 75ABg0056;
75Bg0056             DATE = 7/7/75;
75Bg0056             QUAD = CR D-2;
75Bg0056             LAT = 55/58/12;
75Bg0056             LONG = 132/21/38;
75Bg0056             PURPOSE = Geol;
75Bg0056
75Bg0056   TEXT-TOPIC = Lith;
75Bg0056
75Bg0056   STRUCTURE;
75Bg0056        JOINT = 208/45;
75Bg0056
75Bg0056SA SAMPLE NUMBER = 75ABg0056A;
75Bg0056SA      UNIT = Quartz Dio;
75Bg0056SA      SOURCE = Rubble;
75Bg0056SA      TYPE = Repres;
75Bg0056SA      PURPOSE = Hand spec;
75Bg0056SA      DESCRIPTION = Intr;
75Bg0056SA      LITH = Garn bearing Qtz Dio;
75Bg0056SA      FORM = Pluton;
75Bg0056SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
75Bg0056SA      TEXTURE = Porphyritic;
75Bg0056SA      REMARKS = Weathered;
75Bg0056SA
75Bg0056T  TEXT = Garnet-bearing porphyritic quartz diorite.  See no foliation or inclusions.  Small amount of
75Bg0056T        leucocratic plutonic rock in float prob = quartz monzonite.;
75Bg0056  ------------------------------------------------------------------------------------------------------
$
75Bg0057             STATION = 75ABg0057;
75Bg0057             DATE = 7/7/75;
75Bg0057             QUAD = CR D-2;
75Bg0057             LAT = 55/54/48;
75Bg0057             LONG = 132/21/03;
75Bg0057             PURPOSE = Geol;
75Bg0057
75Bg0057   TEXT-TOPIC = Lith;
75Bg0057
75Bg0057   STRUCTURE;
75Bg0057        POL-SCH = 300/50 (=comp layerg);
75Bg0057        CLEAVAGE = 310/45;
75Bg0057        OTHER-LIN = 310/0 (STR,=L17);
75Bg0057        OTHER = B/C 255/25 (B/C,=L22);
75Bg0057        OTHER = K 075/30;
75Bg0057
75Bg0057SA SAMPLE NUMBER = 75ABg0057A;
75Bg0057SA      UNIT = GIF;
75Bg0057SA      SOURCE = Rubble;
75Bg0057SA      TYPE = Repres;
75Bg0057SA      PURPOSE = Hand spec;
75Bg0057SA      DESCRIPTION = Sed, met;
75Bg0057SA      LITH = Phyllitic flysch;
75Bg0057SA      FORM = Bedded;
75Bg0057SA      MINS = Musc;
```

```
75Bg0057SA        TEXTURE = Fissile;
75Bg0057SA        CONDITION = Fresh;
75Bg0057SA
75Bg0057SA SAMPLE NUMBER = 75ABg0057B;
75Bg0057SA        UNIT = GIF;
75Bg0057SA        SOURCE = OTC;
75Bg0057SA        TYPE = Repres;
75Bg0057SA        PURPOSE = Hand spec;
75Bg0057SA        DESCRIPTION = Intr, met;
75Bg0057SA        LITH = Aplite;
75Bg0057SA        FORM = Tabular;
75Bg0057SA        MINS = Ep/Clz;
75Bg0057SA        TEXTURE = Semischistose;
75Bg0057SA        CONDITION = Fresh;
75Bg0057SA        REMARKS = 12 cm thick sill.;
75Bg0057SA
75Bg0057T  TEXT = Thinly interlayered lk gray phyllitic siltstone and argillite, with minor limestone layers and
75Bg0057T         aplite? sills.  A few small quartz pods.  Comp layers avg less than 0.3 m thick.  Bx are
75Bg0057T         regionally metamorphosed, probably to greenschist facies, and multiply deformed.  Unit
75Bg0057T         probably grades structurally downward into andesitic metatuff to S.W.  Tent correl w/ flysch
75Bg0057T         facies of G.I.F.;
75Bg0057  ----------------------------------------------------------------------------------------------------
*
75Bg0058              STATION = 75ABg0058;
75Bg0058              DATE = 7/8/75;
75Bg0058              QUAD = CR D-2;
75Bg0058              LAT = 55/55/03;
75Bg0058              LONG = 132/22/05;
75Bg0058              PURPOSE = Geol;
75Bg0058
75Bg0058   TEXT-TOPIC = Lith;
75Bg0058
75Bg0058   STRUCTURE;
75Bg0058        BEDDING = 265/65 (tops to S);
75Bg0058        OTHER = B/C 055/46;
75Bg0058        OTHER = STR 130/10;
75Bg0058
75Bg0058SA SAMPLE NUMBER = 75ABg0058A;
75Bg0058SA        UNIT = GIF;
75Bg0058SA        SOURCE = OTC;
75Bg0058SA        TYPE = Repres;
75Bg0058SA        PURPOSE = Hand spec;
75Bg0058SA        DESCRIPTION = Extr, sed, met;
75Bg0058SA        LITH = Gwy and andesite;
75Bg0058SA        FORM = Bedded;
75Bg0058SA        MINS = Bio, Act, Ep/Clz, Garn;
75Bg0058SA        TEXTURE = Msv - Phyllitic;
75Bg0058SA        CONDITION = Fresh;
75Bg0058SA        REMARKS = Interbedded graywacke and andesitic metatuff.  Looks more like hornfels than
75Bg0058SA        REMARKS = phyllite.;
75Bg0058SA
75Bg0058T  TEXT = Interlayered turbidite and andesitic metatuff and agglomerate.  Beds are overturned according
75Bg0058T         to relict grading in turb.  Andesite contains abundant femag xls, and grades from aphanitic to
75Bg0058T         fairly coarse agglomerate cont relict andesite clasts 3 or 4 cm in max dimension.  Oddly, I can
75Bg0058T         see no fragments of the other rock type in either unit near their contact.  Units are interlayered
75Bg0058T         on scale of up to several meters.  Sequence is transitional phase of GIF between flysch facies
75Bg0058T         to E and meta-andesite facies to W.;
75Bg0058  ----------------------------------------------------------------------------------------------------
*
75Bg0059              STATION = 75ABg0059;
75Bg0059              DATE = 7/8/75;
```

```
75Bg0059            QUAD = CR D-2;
75Bg0059            LAT = 55/55/02;
75Bg0059            LONG = 132/22/59;
75Bg0059            PURPOSE = Geol;
75Bg0059
75Bg0059   TEXT-TOPIC = Lith;
75Bg0059
75Bg0059   STRUCTURE:
75Bg0059        BEDDING = 223/50;
75Bg0059        FOL-SCH = 295/55;
75Bg0059
75Bg0059SA SAMPLE NUMBER = 75ABg0059A;
75Bg0059SA      UNIT = GIF;
75Bg0059SA      SOURCE = OTC;
75Bg0059SA      TYPE = Repres;
75Bg0059SA      PURPOSE = Hand spec;
75Bg0059SA      DESCRIPTION = Extr, met;
75Bg0059SA      LITH = Andesitic metatuff;
75Bg0059SA      FORM = Thickly bedded;
75Bg0059SA      MINS = Act, Ep/Clz;
75Bg0059SA      TEXTURE = Semischistose;
75Bg0059SA      CONDITION = Fresh;
75Bg0059SA
75Bg0059T  TEXT = Andesitc metatuff in thick beds, w/o flysch. Locally thin zones of thinly interbedded metatuff
75Bg0059T        or tuffac siltstone.  Unit weathers distinctive olive green.  Femag xls present, but not prominent,
75Bg0059T        except in certain layers.  Agglomerate is present, but also rare.  From a distance, unit could
75Bg0059T        be mistaken for aplitic rock similar to that at 75ABW12.;
75Bg0059  ------------------------------------------------------------------------------------------------------
*
75Bg0060            STATION = 75ABg0060;
75Bg0060            DATE = 7/8/75;
75Bg0060            QUAD = CR D-2;
75Bg0060            LAT = 55/55/57;
75Bg0060            LONG = 132/24/07;
75Bg0060            PURPOSE = Geol;
75Bg0060
75Bg0060   TEXT-TOPIC = Lith;
75Bg0060
75Bg0060   STRUCTURE;
75Bg0060        JOINT = 190/v;
75Bg0060        JOINT = 130/65;
75Bg0060
75Bg0060SA SAMPLE NUMBER = 75ABg0060A;
75Bg0060SA      UNIT = Quartz monzonite;
75Bg0060SA      SOURCE = OTC;
75Bg0060SA      TYPE = Repres;
75Bg0060SA      PURPOSE = Hand spec;
75Bg0060SA      DESCRIPTION = Intr;
75Bg0060SA      LITH = Quartz monzonite;
75Bg0060SA      FORM = Pluton;
75Bg0060SA      MINS = Qtz, Plag, Ep/Clz;
75Bg0060SA      TEXTURE = Hypid gran;
75Bg0060SA      CONDITION = Fresh;
75Bg0060SA
75Bg0060T  TEXT = Center Island.  Massive, jointed, but apparently nonfoliated leucocratic quartz monzonite.
75Bg0060T        Some weathered surfaces show weakly porphyritic texture, defined by ca 1/2 cm white plagioclase
75Bg0060T        euhedra, but most of the rock is fine to medium grained hypiliomorphic granular. Rock probably
75Bg0060T        is part of the same pluton as on Mabel Island, but differs in texture and apparent absence of
75Bg0060T        garnets.;
75Bg0060  ------------------------------------------------------------------------------------------------------
*
```

```
1953.   75Bg0061            STATION = 75ABg0061;
1954.   75Bg0061            DATE = 7/8/75;
1955.   75Bg0061            QUAD = CR D-2;
1956.   75Bg0061            LAT = 55/55/51;
1957.   75Bg0061            LONG = 132/22/05;
1958.   75Bg0061            PURPOSE = Geol;
1959.   75Bg0061
1960.   75Bg0061   TEXT-TOPIC = Lith;
1961.   75Bg0061
1962.   75Bg0061   STRUCTURE;
1963.   75Bg0061        FOL-SCH = 005/35;
1964.   75Bg0061        FOLD-AXIS = 220/45 (wavelength=25cm);
1965.   75Bg0061        OTHER-LIN = 160/42 (STR);
1966.   75Bg0061        OTHER-LIN = 90/25 (STR);
1967.   75Bg0061
1968.   75Bg0061SA SAMPLE NUMBER = 75ABg0061A;
1969.   75Bg0061SA      UNIT = GIF;
1970.   75Bg0061SA      SOURCE = OTC;
1971.   75Bg0061SA      TYPE = Repres;
1972.   75Bg0061SA      PURPOSE = Hand spec;
1973.   75Bg0061SA      DESCRIPTION = Sed, met;
1974.   75Bg0061SA      LITH = Hornfels;
1975.   75Bg0061SA      TEXTURE = Granoblastic;
1976.   75Bg0061SA      CONDITION = Fresh;
1977.   75Bg0061SA
1978.   75Bg0061SA SAMPLE NUMBER = 75ABg0061B;
1979.   75Bg0061SA      UNIT = GIF;
1980.   75Bg0061SA      SOURCE = OTC;
1981.   75Bg0061SA      TYPE = Repres;
1982.   75Bg0061SA      PURPOSE = Hand spec;
1983.   75Bg0061SA      DESCRIPTION = Intr;
1984.   75Bg0061SA      LITH = Lamprophyre or GM;
1985.   75Bg0061SA      FORM = Dike;
1986.   75Bg0061SA      TEXTURE = Crystalline, semi-porphyritic;
1987.   75Bg0061SA      CONDITION = Fresh;
1988.   75Bg0061SA
1989.   75Bg0061T  TEXT = Baked flysch intruded by olive weathering lampro or ultramafic dike.;
1990.   75Bg0061  ------------------------------------------------------------------------------
1991.   #
1992.   75Bg0062            STATION = 75ABg0062;
1993.   75Bg0062            DATE = 7/8/75;
1994.   75Bg0062            QUAD = CR D-2;
1995.   75Bg0062            LAT = 55/56/50;
1996.   75Bg0062            LONG = 132/23/40;
1997.   75Bg0062            PURPOSE = Geol;
1998.   75Bg0062
1999.   75Bg0062   TEXT-TOPIC = Lith;
2000.   75Bg0062
2001.   75Bg0062   STRUCTURE;
2002.   75Bg0062        FOL-SCH = 265/70;
2003.   75Bg0062        JOINT = 320/75;
2004.   75Bg0062        JOINT = 220/65;
2005.   75Bg0062
2006.   75Bg0062SA SAMPLE NUMBER = 75ABg0062A;
2007.   75Bg0062SA      UNIT = GIF;
2008.   75Bg0062SA      SOURCE = OTC;
2009.   75Bg0062SA      TYPE = Repres;
2010.   75Bg0062SA      PURPOSE = Hand spec;
2011.   75Bg0062SA      DESCRIPTION = Intr;
2012.   75Bg0062SA      LITH = QD - D;
2013.   75Bg0062SA      FORM = Pluton;
```

```
2014.    75Bg0062SA        MINS = Plag, Act, Ep/Clz;
2015.    75Bg0062SA        TEXTURE = Porphyritic-semischist;
2016.    75Bg0062SA        CONDITION = Fresh;
2017.    75Bg0062SA
2018.    75Bg0062T   TEXT = Fn gn med grnsh gy msv to semischistose porphyry containing plagioclase and hornblende
2019.    75Bg0062T          (or actinolite) phenocrysts 1/2 cm in maximum dimension.  I believe this rock is a small
2020.    75Bg0062T          diorite pluton that may be genetically related to metavolcanics of GIF.;
2021.    75Bg0062   ------------------------------------------------------------------------------------------------
2022.    *
2023.    75Bg0063              STATION = 75ABg0063;
2024.    75Bg0063              DATE = 7/8/75;
2025.    75Bg0063              QUAD = CR D-2;
2026.    75Bg0063              LAT = 55/56/49;
2027.    75Bg0063              LONG = 132/24/52;
2028.    75Bg0063              PURPOSE = Geol;
2029.    75Bg0063
2030.    75Bg0063    TEXT-TOPIC = Lith;
2031.    75Bg0063
2032.    75Bg0063    STRUCTURE;
2033.    75Bg0063         FOL-SCH = 60/45;
2034.    75Bg0063         OTHER-LIN = 200/35 (K);
2035.    75Bg0063         OTHER = Lampro Sil 50/45;
2036.    75Bg0063
2037.    75Bg0063SA  SAMPLE NUMBER = 75ABg0063A;
2038.    75Bg0063SA       UNIT = GIF;
2039.    75Bg0063SA       SOURCE = OTC;
2040.    75Bg0063SA       TYPE = Repres;
2041.    75Bg0063SA       PURPOSE = Hand spec;
2042.    75Bg0063SA       DESCRIPTION = Sed, met;
2043.    75Bg0063SA       LITH = Siltstone semischist;
2044.    75Bg0063SA       FORM = Bedded;
2045.    75Bg0063SA       MINS = Bio, Garn;
2046.    75Bg0063SA       TEXTURE = Semischist;
2047.    75Bg0063SA       CONDITION = Fresh;
2048.    75Bg0063SA
2049.    75Bg0063T   TEXT = Metaturbidite.  Recrystallized interbedded argillite, calcareous siltstone, and brown weathering
2050.    75Bg0063T          silty limestone.  Intruded by 2 meter lampro sill.;
2051.    75Bg0063   ------------------------------------------------------------------------------------------------
2052.    *
2053.    75Bg0064              STATION = 75ABg0064;
2054.    75Bg0064              DATE = 7/9/75;
2055.    75Bg0064              QUAD = CR D-2;
2056.    75Bg0064              LAT = 55/57/03;
2057.    75Bg0064              LONG = 132/26/00;
2058.    75Bg0064              PURPOSE = Geol;
2059.    75Bg0064
2060.    75Bg0064    TEXT-TOPIC = Lith, Reg geol/tect;
2061.    75Bg0064
2062.    75Bg0064    STRUCTURE;
2063.    75Bg0064         FOL-SCH = 152/48;
2064.    75Bg0064
2065.    75Bg0064SA  SAMPLE NUMBER = 75ABg0064A;
2066.    75Bg0064SA       UNIT = GIF;
2067.    75Bg0064SA       SOURCE = OTC;
2068.    75Bg0064SA       TYPE = Repres;
2069.    75Bg0064SA       PURPOSE = Hand spec;
2070.    75Bg0064SA       DESCRIPTION = Sed, met;
2071.    75Bg0064SA       LITH = Hornfels;
2072.    75Bg0064SA       FORM = Thin bedded;
2073.    75Bg0064SA       MINS = Bio, Staur, Garn;
2074.    75Bg0064SA       TEXTURE = Semischistose;
```

```
2075.    75Bg0064SA        CONDITION = Fresh;
2076.    75Bg0064SA        REMARKS = Meta-turbidite.  Staurolite confirmed--GA not.  Local relict grading indicates
2077.    75Bg0064SA        REMARKS = tops to N.;
2078.    75Bg0064SA
2079.    75Bg0064SA SAMPLE NUMBER = 75ABg0064B;
2080.    75Bg0064SA        UNIT = GIF;
2081.    75Bg0064SA        SOURCE = OTC;
2082.    75Bg0064SA        TYPE = Repres;
2083.    75Bg0064SA        PURPOSE = Hand spec;
2084.    75Bg0064SA        LITH = Femag porphyry;
2085.    75Bg0064SA        FORM = ?;
2086.    75Bg0064SA        MINS = Act;
2087.    75Bg0064SA        TEXTURE = Porphyritic;
2088.    75Bg0064SA        CONDITION = Fresh;
2089.    75Bg0064SA        REMARKS = Possibly meta-andesite;
2090.    75Bg0064SA
2091.    75Bg0064SA SAMPLE NUMBER = 75ABg0064C;
2092.    75Bg0064SA        UNIT = GIF;
2093.    75Bg0064SA        SOURCE = OTC;
2094.    75Bg0064SA        TYPE = Repres;
2095.    75Bg0064SA        PURPOSE = Hand spec;
2096.    75Bg0064SA        DESCRIPTION = Intr;
2097.    75Bg0064SA        LITH = Feldspar porphyry;
2098.    75Bg0064SA        FORM = Dike;
2099.    75Bg0064SA        MINS = Qtz, Kspr, Py, Musc;
2100.    75Bg0064SA        TEXTURE = Porphyritic;
2101.    75Bg0064SA        CONDITION = Fresh;
2102.    75Bg0064SA        REMARKS = Feldspar phenos to 2 cm;
2103.    75Bg0064SA
2104.    75Bg0064T  TEXT = Recrystallized sedimentary rocks derived from thinly interbedded sandstone, siltstone, shale, and
2105.    75Bg0064T         minor conglomerate and grit.  Some of the beds are pebbly, some of the pebbles are well rounded
2106.    75Bg0064T         and consist of granitic rock ("pebbly meta-turbidite").  Do these rocks typify a back-arc
2107.    75Bg0064T         depositl setting?  There is also femag xl-bearing porphyry at this station, but I cannot
2108.    75Bg0064T         determine whether it intrudes or is interbedded w/ the metaseds.  Based on regional occurrence
2109.    75Bg0064T         of femag porphyry, I believe it is part of bedded unit.  Metaseds are cut by dikes of
2110.    75Bg0064T         porphyritic quartz monzonite or granodiorite.  Feldspar phenos are largest (to 5.0 cm) and most
2111.    75Bg0064T         numerous near contacts w/ metaseds.;
2112.    75Bg0064  ----------------------------------------------------------------------------------------------
2113.    #
2114.    75Bg0065              STATION = 75ABg0065;
2115.    75Bg0065              DATE = 7/9/75;
2116.    75Bg0065              QUAD = CR D-2;
2117.    75Bg0065              LAT = 55/57/02;
2118.    75Bg0065              LONG = 132/27/02;
2119.    75Bg0065              PURPOSE = Geol;
2120.    75Bg0065
2121.    75Bg0065   TEXT-TOPIC = Lith;
2122.    75Bg0065
2123.    75Bg0065   STRUCTURE;
2124.    75Bg0065        BEDDING = 210/5;
2125.    75Bg0065
2126.    75Bg0065SA SAMPLE NUMBER = 75ABg0065A;
2127.    75Bg0065SA        UNIT = Qtz Monz;
2128.    75Bg0065SA        SOURCE = OTC;
2129.    75Bg0065SA        TYPE = Repres;
2130.    75Bg0065SA        PURPOSE = Hand spec;
2131.    75Bg0065SA        DESCRIPTION = Intr;
2132.    75Bg0065SA        LITH = QM;
2133.    75Bg0065SA        FORM = Pluton;
2134.    75Bg0065SA        MINS = Qtz, Plag, Kspr, Musc;
2135.    75Bg0065SA        TEXTURE = Porphyritic;
```

```
75Bg0065SA        CONDITION = Fresh;
75Bg0065SA
75Bg0065SA SAMPLE NUMBER = 75ABg0065B;
75Bg0065SA        UNIT = GIF;
75Bg0065SA        SOURCE = OTC;
75Bg0065SA        TYPE = Repres;
75Bg0065SA        PURPOSE = Hand spec;
75Bg0065SA        DESCRIPTION = Sed, met;
75Bg0065SA        LITH = Metaturb;
75Bg0065SA        FORM = Bedded;
75Bg0065SA        TEXTURE = Semischistose;
75Bg0065SA        CONDITION = Fresh;
75Bg0065SA
75Bg0065T  TEXT = Metaturbidite intruded by feldspar-porphyritic quartz monzonite.  Pluton is crowded with pink
75Bg0065T          feldspar euhedra up to 5 cm in max dimension.  See no garnet.  Metaseds show relict bedding and,
75Bg0065T          locally, grading.;
75Bg0065  ------------------------------------------------------------------------------------------------------
#
75Bg0066              STATION = 75ABg0066;
75Bg0066              DATE = 7/9/75;
75Bg0066              QUAD = CR D-2;
75Bg0066              LAT = 55/58/02;
75Bg0066              LONG = 132/25/50;
75Bg0066              PURPOSE = Geol;
75Bg0066
75Bg0066   TEXT-TOPIC = Lith;
75Bg0066
75Bg0066   STRUCTURE;
75Bg0066        BEDDING = 320/60 (tops to W);
75Bg0066        OTHER-LIN = 345/30 (K);
75Bg0066
75Bg0066SA SAMPLE NUMBER = 75ABg0066A;
75Bg0066SA        UNIT = GIF;
75Bg0066SA        SOURCE = OTC;
75Bg0066SA        TYPE = Repres;
75Bg0066SA        PURPOSE = Hand spec;
75Bg0066SA        DESCRIPTION = Sed, met;
75Bg0066SA
75Bg0066T  TEXT = Metaturbidite intruded by sill-like bodies a few meters thick of lamprophyre and aplitic quartz
75Bg0066T          monzonite.;
75Bg0066  ------------------------------------------------------------------------------------------------------
#
75Bg0067              STATION = 75ABg0067;
75Bg0067              DATE = 7/9/75;
75Bg0067              QUAD = CR D-2;
75Bg0067              LAT = 55/58/29;
75Bg0067              LONG = 132/27/23;
75Bg0067              PURPOSE = Geol;
75Bg0067
75Bg0067   TEXT-TOPIC = Lith;
75Bg0067
75Bg0067   STRUCTURE;
75Bg0067        JOINT = 225/90;
75Bg0067
75Bg0067SA SAMPLE NUMBER = 75ABg0067A;
75Bg0067SA        UNIT = QM;
75Bg0067SA        SOURCE = OTC;
75Bg0067SA        TYPE = Repres;
75Bg0067SA        PURPOSE = Hand spec;
75Bg0067SA        DESCRIPTION = Intr;
75Bg0067SA        LITH = Quartz monzonite;
```

```
75Bg0067SA        FORM = Pluton;
75Bg0067SA        TEXTURE = Porphyritic;
75Bg0067SA
75Bg0067T  TEXT = Porphyritic quartz monzonite;
75Bg0067  ------------------------------------------------------------------------------------------------------
#
75Bg0068                STATION = 75ABg0068;
75Bg0068                DATE = 7/9/75;
75Bg0068                QUAD = CR D-2;
75Bg0068                LAT = 55/59/54;
75Bg0068                LONG = 132/26/08;
75Bg0068                PURPOSE = Geol;
75Bg0068
75Bg0068   TEXT-TOPIC = Lith;
75Bg0068
75Bg0068   STRUCTURE;
75Bg0068        FOL-SCH = 310/40;
75Bg0068        OTHER-LIN = 085/65 alined Plag phenos in sill;
75Bg0068        OTHER = B/C 060/50;
75Bg0068
75Bg0068SA SAMPLE NUMBER = 75ABg0068A;
75Bg0068SA        UNIT = GIP;
75Bg0068SA        SOURCE = OTC;
75Bg0068SA        TYPE = Repres;
75Bg0068SA        PURPOSE = Hand spec;
75Bg0068SA        DESCRIPTION = Sed, met;
75Bg0068SA        LITH = Metaturbidite;
75Bg0068SA        TEXTURE = Schistose;
75Bg0068SA        CONDITION = Fresh;
75Bg0068SA
75Bg0068SA SAMPLE NUMBER = 75ABg0068B;
75Bg0068SA        UNIT = GIP;
75Bg0068SA        SOURCE = OTC;
75Bg0068SA        TYPE = Repres;
75Bg0068SA        PURPOSE = Hand spec;
75Bg0068SA        DESCRIPTION = Intr;
75Bg0068SA        LITH = Andesite?;
75Bg0068SA        FORM = Sill;
75Bg0068SA        MINS = Plag, Act;
75Bg0068SA        TEXTURE = Porphyritic;
75Bg0068SA        REMARKS = Feldspar-ferromagnesian porphyry.;
75Bg0068SA
75Bg0068T  TEXT = Metaturbidite intruded(?) by 2-meter thick sill(?) of plagioclase + amphibole porphyry.;
75Bg0068  ------------------------------------------------------------------------------------------------------
#
75Bg0069                STATION = 75ABg0069;
75Bg0069                DATE = 7/13/75;
75Bg0069                QUAD = CR D-1;
75Bg0069                LAT = 55/54/46;
75Bg0069                LONG = 132/18/38;
75Bg0069                PURPOSE = Geol;
75Bg0069
75Bg0069   TEXT-TOPIC = Lith, strat, reg geol/tect;
75Bg0069
75Bg0069   STRUCTURE;
75Bg0069        FOL-SCH = 322/55;
75Bg0069        JOINT = 143/34;
75Bg0069        JOINT = 058/75;
75Bg0069        FOLD-AXIS = 072/60;
75Bg0069        OTHER-LIN = 072/60 (B/C);
75Bg0069        OTHER-LIN = 122/43 (STR);
```

```
75Bg0069          OTHER = QD Dike 333/55;
75Bg0069
75Bg0069SA SAMPLE NUMBER = 75ABg0069A;
75Bg0069SA        UNIT = Phyll seds;
75Bg0069SA        SOURCE = Rubble;
75Bg0069SA        TYPE = Repres;
75Bg0069SA        PURPOSE = Hand spec;
75Bg0069SA        DESCRIPTION = Sed, met;
75Bg0069SA        LITH = Phyllitic slstn & argill;
75Bg0069SA        FORM = Bedded;
75Bg0069SA        TEXTURE = Phyllitic;
75Bg0069SA        CONDITION = Fresh;
75Bg0069SA
75Bg0069SA SAMPLE NUMBER = 75ABg0069B;
75Bg0069SA        UNIT = Gravina Island Fm.;
75Bg0069SA        SOURCE = OTC;
75Bg0069SA        TYPE = Repres;
75Bg0069SA        PURPOSE = Hand spec;
75Bg0069SA        DESCRIPTION = Intr;
75Bg0069SA        LITH = Aplitic granodiorite;
75Bg0069SA        FORM = Sill;
75Bg0069SA        MINS = Qtz, Plag, Bio, Py, Garn;
75Bg0069SA        TEXTURE = Microporphyritic;
75Bg0069SA        CONDITION = Fresh;
75Bg0069SA        REMARKS = Weakly schistose;
75Bg0069SA
75Bg0069T  TEXT = Phyllitic, thinly interlayered siltstone, argillite, and minor silty limestone, and graywacke.
75Bg0069T         The graywacke might be tuffaceous.  Unit is intruded, but not significantly metamorphosed, by a
75Bg0069T         0.3 m-thick garnet bearing fine grained granodiorite sill  or like that intersects the layering
75Bg0069T         at an angle of about 10 degrees.  Bedded unit probably derived from turbidite similar to flysch
75Bg0069T         facies of Gravina Island Formation.;
75Bg0069  ----------------------------------------------------------------------------------------------------
#
75Bg0070              STATION = 75ABg0070;
75Bg0070              DATE = 7/13/75;
75Bg0070              QUAD = CR D-1;
75Bg0070              LAT = 55/54/38;
75Bg0070              LONG = 132/18/10;
75Bg0070              PURPOSE = Geol;
75Bg0070
75Bg0070   TEXT-TOPIC = Lith;
75Bg0070
75Bg0070   STRUCTURE:
75Bg0070        FOL-SCH = 338/52;
75Bg0070        FOLD-AXIS = 104/30;
75Bg0070        OTHER = Sills 342/52;
75Bg0070
75Bg0070T  TEXT = Parallel lamprophyre sills up to 3 or 4 meters thick intruding phyllitic siltstone-argillite
75Bg0070T         unit.  Numerous veins, pods of white quartz: many are parallel to fol/sch of enclosing phyllite.
75Bg0070T         Minor green phyllitic metatuff.  Since last station, rx consist of alternating sills of
75Bg0070T         lamprophyre and granodiorite with intervening zones of phyllite.  Seem to be about equal
75Bg0070T         amounts of bedded and intrusive rocks.  Surfaces of some sills follow many of the flexures in
75Bg0070T         phyllite--suggests either very fluid magma (or) that sills were folded along with the phyllite.
75Bg0070T         Based on lampro dikes in C.E.B., I believe former is true.;
75Bg0070  ----------------------------------------------------------------------------------------------------
#
75Bg0071              STATION = 75ABg0071;
75Bg0071              DATE = 7/14/75;
75Bg0071              QUAD = CR D-1;
75Bg0071              LAT = 55/54/30;
75Bg0071              LONG = 132/17/17;
```

```
75Bg0071              PURPOSE = Geol, Geochem;
75Bg0071
75Bg0071    TEXT-TOPIC = Lith;
75Bg0071
75Bg0071    STRUCTURE;
75Bg0071         FOL-SCH = 312/52;
75Bg0071         FOL-SCH = 352/51;
75Bg0071         CLEAVAGE = 145/40;
75Bg0071         CLEAVAGE = 226/38;
75Bg0071         OTHER-LIN = 090/48 (B/C);
75Bg0071         OTHER = Sil 324/58;
75Bg0071
75Bg0071SA SAMPLE NUMBER = 75ABg0071A;
75Bg0071SA       UNIT = Phyllitic seds;
75Bg0071SA       SOURCE = Rubble;
75Bg0071SA       TYPE = Repres, comp, chip;
75Bg0071SA       PURPOSE = Spec;
75Bg0071SA       LITH = Quartz;
75Bg0071SA       FORM = Vein;
75Bg0071SA       MINS = Qtz;
75Bg0071SA       TEXTURE = Msv;
75Bg0071SA       CONDITION = Fresh;
75Bg0071SA       REMARKS = Sample consists of quartz plus adjacent phyllite wallrock.;
75Bg0071SA
75Bg0071SA SAMPLE NUMBER = 75ABg0071B;
75Bg0071SA       UNIT = Phyllite;
75Bg0071SA       SOURCE = OTC;
75Bg0071SA       TYPE = Repres;
75Bg0071SA       DESCRIPTION = Sed, met;
75Bg0071SA       LITH = Pebbly phyllite;
75Bg0071SA       FORM = Bedded;
75Bg0071SA       CONDITION = Fresh;
75Bg0071SA       REMARKS = Sack of clasts from phyllitic pebbly siltstone.;
75Bg0071SA
75Bg0071SA SAMPLE NUMBER = 75ABg0071C;
75Bg0071SA       UNIT = Phyllitic seds;
75Bg0071SA       SOURCE = Float;
75Bg0071SA       TYPE = Repres;
75Bg0071SA       PURPOSE = Hand spec;
75Bg0071SA       DESCRIPTION = Sed, met;
75Bg0071SA       LITH = Phyllitic siltstone & argillite;
75Bg0071SA       FORM = Bedded;
75Bg0071SA       CONDITION = Fresh;
75Bg0071SA
75Bg0071T  TEXT = Dk brn & dk gray phyllitic sandstone, siltstone, and mudstone intruded by aplitic QM sills to
75Bg0071T         2 m thick and containing conspicuous white quartz veins and lenses up to 2 meters thick and 10
75Bg0071T         or more meters long.  Some of the phyllitic gwk is pebbly--at least some of the pebbles are well
75Bg0071T         rounded quartz diorite clasts.  Pebbly rk is scarce.  QD sill is semischistose--foliation is
75Bg0071T         approximately parallel to ctct w/ phyllite.  No contact aureole, but Qtz veins might be related
75Bg0071T         to intrusion of the sills.  Cleavages measured are AP to conjugate set of kinks.;
75Bg0071  ------------------------------------------------------------------------------------------------------
#
75Bg0072              STATION = 75ABg0072;
75Bg0072              DATE = 7/14/75;
75Bg0072              QUAD = CR D-1;
75Bg0072              LAT = 55/52/42;
75Bg0072              LONG = 132/18/12;
75Bg0072              PURPOSE = Geol;
75Bg0072
75Bg0072    TEXT-TOPIC = Lith, Strat;
75Bg0072
```

```
2380.    75Bg0072   STRUCTURE;
2381.    75Bg0072        BEDDING = 135/50;
2382.    75Bg0072        JOINT = 291/45;
2383.    75Bg0072        JOINT = 200/86;
2384.    75Bg0072
2385.    75Bg0072SA SAMPLE NUMBER = 75ABg0072A;
2386.    75Bg0072SA      UNIT = Tertiary(Ts);
2387.    75Bg0072SA      SOURCE = OTC;
2388.    75Bg0072SA      TYPE = Repres;
2389.    75Bg0072SA      PURPOSE = Hand spec;
2390.    75Bg0072SA      DESCRIPTION = Sed;
2391.    75Bg0072SA      LITH = Sandstone;
2392.    75Bg0072SA      FORM = Bedded;
2393.    75Bg0072SA      TEXTURE = Detrital;
2394.    75Bg0072SA      CONDITION = Fresh;
2395.    75Bg0072SA      REMARKS = Sample shows microfold.;
2396.    75Bg0072SA
2397.    75Bg0072SA SAMPLE NUMBER = 75ABg0072B;
2398.    75Bg0072SA      UNIT = Ts;
2399.    75Bg0072SA      SOURCE = OTC;
2400.    75Bg0072SA      TYPE = Repres;
2401.    75Bg0072SA      PURPOSE = Hand spec;
2402.    75Bg0072SA      DESCRIPTION = Sed;
2403.    75Bg0072SA      LITH = Conglomerate;
2404.    75Bg0072SA      FORM = Bed;
2405.    75Bg0072SA      TEXTURE = Coarse clastic;
2406.    75Bg0072SA      CONDITION = Fresh;
2407.    75Bg0072SA      REMARKS = Polymictic conglomerate from stream channel.;
2408.    75Bg0072SA
2409.    75Bg0072T  TEXT = Red, ochre, & brown weathering thinly interbedded nonmarine sedimentary and volcanic(?)--sedimentary
2410.    75Bg0072T        rocks identical to those mapped as Tertiary on northern Eagle Island.  These rocks dip under the
2411.    75Bg0072T        massive-columnar-jointed basalt flows on Eagle Island.  Texturally rx range from laminated
2412.    75Bg0072T        siltstone to rel msv sandstone in beds to a meter or more thick.  Some of the beds are gritty
2413.    75Bg0072T        or pebbly and clearly represent stream channel deposits.;
2414.    75Bg0072  ----------------------------------------------------------------------------------------------
2415.    *
2416.    75Bg0073            STATION = 75ABg0073;
2417.    75Bg0073            DATE = 7/14/75;
2418.    75Bg0073            QUAD = CR D-1;
2419.    75Bg0073            LAT = 55/51/52;
2420.    75Bg0073            LONG = 132/19/38;
2421.    75Bg0073            PURPOSE = Geol;
2422.    75Bg0073
2423.    75Bg0073   TEXT-TOPIC = Lith, strat;
2424.    75Bg0073
2425.    75Bg0073   STRUCTURE;
2426.    75Bg0073        BEDDING = 140/20;
2427.    75Bg0073        JOINT = 348/80;
2428.    75Bg0073        JOINT = 269/65;
2429.    75Bg0073
2430.    75Bg0073SA SAMPLE NUMBER = 75ABg0073A;
2431.    75Bg0073SA      UNIT = Tertiary(Tba);
2432.    75Bg0073SA      SOURCE = OTC;
2433.    75Bg0073SA      TYPE = Repres;
2434.    75Bg0073SA      PURPOSE = Hand spec;
2435.    75Bg0073SA      DESCRIPTION = Extr;
2436.    75Bg0073SA      LITH = Basalt;
2437.    75Bg0073SA      FORM = Bed;
2438.    75Bg0073SA      CONDITION = Fresh;
2439.    75Bg0073SA      REMARKS = Calcite and chalcedony amygdules.;
2440.    75Bg0073SA
```

```
75Bg0073SA SAMPLE NUMBER = 75ABg0073B;
75Bg0073SA      UNIT = Tertiary (Tba);
75Bg0073SA      SOURCE = OTC;
75Bg0073SA      TYPE = Repres;
75Bg0073SA      PURPOSE = Hand spec;
75Bg0073SA      DESCRIPTION = Extr;
75Bg0073SA      LITH = Andesite;
75Bg0073SA      FORM = Bed;
75Bg0073SA      TEXTURE = Porphyritic, fragmental;
75Bg0073SA      CONDITION = Fresh;
75Bg0073SA
75Bg0073T  TEXT = Pink to purple weathering feldspar-porphyritic fragmental andesite overlain by mdy dk bn weathering
75Bg0073T         amygdaloidal basalt.  Some of the andesite is spherulitic.  The andesite contains fragments of
75Bg0073T         volcanic and nonvolcanic rocks and probably is a lahar or debris flow.  Some fragments appear
75Bg0073T         to be spherulitic rhyolite or rhyodacite.  The amygdules in the basalt are chalcedony and calcite.
75Bg0073T         At contact w/ underling andesite, basalt is red-weathering and scoriaceous.  From topography
75Bg0073T         and structure, Tertiary volcanic section on Eagle Island probably is not more than 50 meters thick.;
75Bg0073  ----------------------------------------------------------------------------------------------------
#
75Bg0074              STATION = 75ABg0074;
75Bg0074              DATE = 7/15/75;
75Bg0074              QUAD = CR D-1;
75Bg0074              LAT = 56/00/00;
75Bg0074              LONG = 132/12/13;
75Bg0074              PURPOSE = Geol;
75Bg0074
75Bg0074   TEXT-TOPIC = Lith, Reg geol/tect;
75Bg0074
75Bg0074   STRUCTURE;
75Bg0074        POL-SCH = 270/20;
75Bg0074
75Bg0074SA SAMPLE NUMBER = 75ABg0074A;
75Bg0074SA      UNIT = Paragneiss (Sch Seds);
75Bg0074SA      SOURCE = OTC;
75Bg0074SA      TYPE = Repres;
75Bg0074SA      PURPOSE = Hand spec, T. S.;
75Bg0074SA      DESCRIPTION = Sed, met;
75Bg0074SA      LITH = Pelitic gneiss;
75Bg0074SA      FORM = Layered;
75Bg0074SA      MINS = Qtz, Plag, Bio;
75Bg0074SA      TEXTURE = Gneissic;
75Bg0074SA      CONDITION = Fresh;
75Bg0074SA
75Bg0074SA SAMPLE NUMBER = 75ABg0074B;
75Bg0074SA      UNIT = Quartz diorite;
75Bg0074SA      SOURCE = OTC;
75Bg0074SA      TYPE = Repres;
75Bg0074SA      PURPOSE = Hand spec, T. S.;
75Bg0074SA      DESCRIPTION = Intr;
75Bg0074SA      LITH = QD;
75Bg0074SA      FORM = Pluton;
75Bg0074SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0074SA      TEXTURE = Hypid granular;
75Bg0074SA      CONDITION = Fresh;
75Bg0074SA      REMARKS = Garn questionable--very scarce.;
75Bg0074SA
75Bg0074T  TEXT = Location: 1/4 mi S. of big slide, W. shore Canoe Passage, N. edge of Craig quad.  Paragneiss
75Bg0074T         inclusion in quartz diorite.  (QD is much more abundant than paragn at this station).  Contact
75Bg0074T         marked by migmatite (agmatite), xenoliths in QD, and apophyses of QD in the paragneiss.  Strongly
75Bg0074T         reminiscent of paragneiss-QD (lithol and relns) in GFWSA.  The paragneiss is thinly interlayered (avg.
75Bg0074T         3-4 cm), mainly pelitic gneiss, with minor calcsil(?) bands.  Numerous ptygmatic glassy Qtz veins, some
```

```
75Bg0074T        w/ PY. Unit weath shales of brownish and greenish gray.  Some quartzofeldspathic layers are close
75Bg0074T        to GD in texture and composition. QD is msv, not sig foliated--hypid granular text to contact w/
75Bg0074T        paragneiss. Seems sugg it is intrusive, but probably anatectic in origin.;
75Bg0074 ----------------------------------------------------------------------------------------------------
#
75Bg0075             STATION = 75ABg0075;
75Bg0075             DATE = 7/15/75;
75Bg0075             QUAD = CR D-1;
75Bg0075             LAT = 56/00/00;
75Bg0075             LONG = 132/10/50;
75Bg0075             PURPOSE = Geol;
75Bg0075
75Bg0075   TEXT-TOPIC = Lith, strat, reg geol/tect;
75Bg0075
75Bg0075   STRUCTURE;
75Bg0075        FOL-SCH = 305/38;
75Bg0075        OTHER = Dike 330/80;
75Bg0075
75Bg0075SA SAMPLE NUMBER = 75ABg0075A;
75Bg0075SA      UNIT = Schistose Metasedz;
75Bg0075SA      SOURCE = OTC;
75Bg0075SA      TYPE = Repres;
75Bg0075SA      PURPOSE = T. S.;
75Bg0075SA      DESCRIPTION = Sed, Met;
75Bg0075SA      LITH = Pelitic schist;
75Bg0075SA      FORM = Bedded;
75Bg0075SA      MINS = Bio, Staur;
75Bg0075SA      CONDITION = Fresh;
75Bg0075SA
75Bg0075T  TEXT = Location: E. shore Canoe Passage, N. edge of Craig quad.  Fol/sch = comp layerg.  Dk brown
75Bg0075T        weathering schistose sedimentary rocks derived from thinly interbedded sandstone, siltstone,
75Bg0075T        mudstone, and probably silty limestone (=calcsilicate layers).  Rx are identical in composition,
75Bg0075T        etc, to meta-turbidite in Ernest Sound and probably correlate with back-arc basinal turbidite facies
75Bg0075T        of Gravina Island Fm.  Rx are much less recrystallized than those at 74.  Cut by up to 3-meter dikes
75Bg0075T        of leuco-aplite cont tiny green femag specks.  There are also other dikes nearby, including
75Bg0075T        feldspar-porphyritic andesite, and lamprophyre.;
75Bg0075 ----------------------------------------------------------------------------------------------------
#
75Bg0076             STATION = 75ABg0076;
75Bg0076             DATE = 7/15/75;
75Bg0076             QUAD = CR D-1;
75Bg0076             LAT = 55/59/28;
75Bg0076             LONG = 132/12/00;
75Bg0076             PURPOSE = Geol;
75Bg0076
75Bg0076   TEXT-TOPIC = Lith;
75Bg0076
75Bg0076   STRUCTURE;
75Bg0076        FOL-SCH = 020/75;
75Bg0076
75Bg0076SA SAMPLE NUMBER = 75ABg0076A;
75Bg0076SA      UNIT = QD;
75Bg0076SA      SOURCE = OTC;
75Bg0076SA      TYPE = Repres;
75Bg0076SA      PURPOSE = Hand spec, T. S.;
75Bg0076SA      DESCRIPTION = Intr;
75Bg0076SA      LITH = Aplitic quartz diorite;
75Bg0076SA      FORM = Dike;
75Bg0076SA      MINS = Qtz, Plag, Bio, Py, Musc;
75Bg0076SA      TEXTURE = Microgranular;
75Bg0076SA      CONDITION = Fresh;
```

```
2563.   75Bg0076SA
2564.   75Bg0076T  TEXT = Shoreline outcrops between 75 & 76 are about equally divided between paragneiss and quartz diorite.
2565.   75Bg0076T        There are also dikelike intrusives of aplitic quartz diorite that might be apophysis of the
2566.   75Bg0076T        "main" QD pluton, or, less likely, of the miarolytic QM pluton to South.' Station 76 established
2567.   75Bg0076T        to sample aplitic QD, which forms prominent dike containing inclusions of paragneiss.
2568.   75Bg0076T        Fol/sch measured on paragneiss inclusions.  Aplitic QD also contains small (to 3 or 4 cm diam)
2569.   75Bg0076T        rounded inclusions of what appear to be partly digested coarser QD.  Are these fragments of
2570.   75Bg0076T        "main" QD pluton?;
2571.   75Bg0076  ----------------------------------------------------------------------------------------------------
2572.   #
2573.   75Bg0077             STATION = 75ABg0077;
2574.   75Bg0077             DATE = 7/15/75;
2575.   75Bg0077             QUAD = CR D-1;
2576.   75Bg0077             LAT = 55/59/23;
2577.   75Bg0077             LONG = 132/11/59;
2578.   75Bg0077             PURPOSE = Geol;
2579.   75Bg0077
2580.   75Bg0077   TEXT-TOPIC = Lith;
2581.   75Bg0077
2582.   75Bg0077   STRUCTURE;
2583.   75Bg0077        FOL-SCH = 340/65;
2584.   75Bg0077        OTHER-LIN = 090/42 (STR);
2585.   75Bg0077        OTHER = Approx. Contact 075/35;
2586.   75Bg0077
2587.   75Bg0077SA SAMPLE NUMBER = 75ABg0077A;
2588.   75Bg0077SA      UNIT = Sch metaseds;
2589.   75Bg0077SA      SOURCE = OTC;
2590.   75Bg0077SA      TYPE = Repres;
2591.   75Bg0077SA      PURPOSE = Hand spec, T. S.;
2592.   75Bg0077SA      DESCRIPTION = Sed, met;
2593.   75Bg0077SA      LITH = Pelitic schist;
2594.   75Bg0077SA      FORM = Bedded;
2595.   75Bg0077SA      MINS = Qtz, Bio, Musc;
2596.   75Bg0077SA      TEXTURE = Schistose;
2597.   75Bg0077SA      CONDITION = Fresh;
2598.   75Bg0077SA      REMARKS = Spl coll abt 20 m. north of station.;
2599.   75Bg0077SA
2600.   75Bg0077SA SAMPLE NUMBER = 75ABg0077B;
2601.   75Bg0077SA      UNIT = Miarolytic QM;
2602.   75Bg0077SA      SOURCE = OTC;
2603.   75Bg0077SA      TYPE = Repres;
2604.   75Bg0077SA      PURPOSE = Hand spec, T. S.;
2605.   75Bg0077SA      DESCRIPTION = Intr;
2606.   75Bg0077SA      LITH = Quartz monzonite;
2607.   75Bg0077SA      FORM = Pluton;
2608.   75Bg0077SA      MINS = Qtz, Plag, Kspr, Hbl, Bio, Chl;
2609.   75Bg0077SA      TEXTURE = Hypidio granular;
2610.   75Bg0077SA      CONDITION = Fresh;
2611.   75Bg0077SA
2612.   75Bg0077T  TEXT = Contact between leucocratic miarolytic quartz monzonite or granite and brown-weathering schistose
2613.   75Bg0077T        metasediments.  The pluton sends out apophyses and contains numerous inclusions of metaseds near
2614.   75Bg0077T        contact, but the bedded rx are not nearly so rexld as at 74.  Contact apparently dips moderately
2615.   75Bg0077T        northward under the metaseds.  For about 0.4 km to S. shoreline outcrops alternate between QM and
2616.   75Bg0077T        subordinate metased inclusions.  Fol/sch measured in metaseds about 20 meters N. of contact.;
2617.   75Bg0077  ----------------------------------------------------------------------------------------------------
2618.   #
2619.   75Bg0078             STATION = 75ABg0078;
2620.   75Bg0078             DATE = 7/15/75;
2621.   75Bg0078             QUAD = CR D-1;
2622.   75Bg0078             LAT = 55/59/20;
2623.   75Bg0078             LONG = 132/11/53;
```

```
75Bg0078              PURPOSE = Geol;
75Bg0078
75Bg0078   TEXT-TOPIC = Lith;
75Bg0078
75Bg0078SA SAMPLE NUMBER = 75ABg0078A;
75Bg0078SA      UNIT = QM;
75Bg0078SA      SOURCE = OTC;
75Bg0078SA      TYPE = Repres;
75Bg0078SA      PURPOSE = Hand spec, T. S.;
75Bg0078SA      DESCRIPTION = Intr;
75Bg0078SA      LITH = QM breccia;
75Bg0078SA      TEXTURE = Fragmental;
75Bg0078SA      CONDITION = Fresh;
75Bg0078SA
75Bg0078T  TEXT = QM outcrops on small point show distinct coarse fragmental texture. Breccia consists of angular
75Bg0078T        clasts to 5 or 6 cm in max dimension in a matrix of fine to med grain quartz monzonite. Feature
75Bg0078T        might be cataclastic or protoclastic. QM south of point is massive--jointed, nonfoliated, free
75Bg0078T        of inclusions of metased country rx.;
75Bg0078  ----------------------------------------------------------------------------------------------------
#
75Bg0079              STATION = 75ABg0079;
75Bg0079              DATE = 7/15/75;
75Bg0079              QUAD = CR D-1;
75Bg0079              LAT = 55/58/54;
75Bg0079              LONG = 132/12/10;
75Bg0079              PURPOSE = Geol;
75Bg0079
75Bg0079   TEXT-TOPIC = Lith;
75Bg0079
75Bg0079   STRUCTURE;
75Bg0079        FAULT-SHEAR = 360/80;
75Bg0079        FAULT-SHEAR = 105/v;
75Bg0079        OTHER = Dike 345/80;
75Bg0079
75Bg0079SA SAMPLE NUMBER = 75ABg0079A;
75Bg0079SA      UNIT = QM;
75Bg0079SA      SOURCE = OTC;
75Bg0079SA      TYPE = Repres;
75Bg0079SA      PURPOSE = Hand spec;
75Bg0079SA      DESCRIPTION = Intr;
75Bg0079SA      LITH = QM;
75Bg0079SA      FORM = Pluton;
75Bg0079SA      MINS = Qtz, Plag, Kspr, Bio;
75Bg0079SA      TEXTURE = Hypidio Gran;
75Bg0079SA      CONDITION = Fresh;
75Bg0079SA
75Bg0079T  TEXT = Massive-jointed hypidiomorphic granular leucocratic quartz monzonite. Pluton contains sparse
75Bg0079T        subangular to rounded inclusions to 2-3 cm of dark gray vfg QD. One 5 cm leucoaplite dike.;
75Bg0079  ----------------------------------------------------------------------------------------------------
#
75Bg0080              STATION = 75ABg0080;
75Bg0080              DATE = 7/15/75;
75Bg0080              QUAD = CR D-1;
75Bg0080              LAT = 55/58/06;
75Bg0080              LONG = 132/12/19;
75Bg0080              PURPOSE = Geol;
75Bg0080
75Bg0080   TEXT-TOPIC = Lith;
75Bg0080
75Bg0080   STRUCTURE;
75Bg0080        JOINT = 345/45;
```

```
75Bg0080
75Bg0080SA SAMPLE NUMBER = 75ABg0080A;
75Bg0080SA      UNIT = QM;
75Bg0080SA      SOURCE = OTC;
75Bg0080SA      TYPE = Repres;
75Bg0080SA      PURPOSE = Hand spec;
75Bg0080SA      DESCRIPTION = Intr;
75Bg0080SA      LITH = QM;
75Bg0080SA      FORM = Pluton;
75Bg0080SA      MINS = Qtz, Plag, Kspr, Bio;
75Bg0080SA      TEXTURE = Hypidio granular;
75Bg0080SA      CONDITION = Fresh;
75Bg0080SA
75Bg0080T  TEXT = Massive-jointed leucocratic quartz monzonite.  Shoreline outcrops between 79 and 80 are asv
75Bg0080T         leuco QM, with scattered intervals of QM breccia.  The breccia occurs virtually entirely on
75Bg0080T         ledges or reefs that fringe the asv QM along Canoe Passage.  At this station, the breccia seems
75Bg0080T         to be separated from the underlying asv QM by a 345/45 joint set.  The breccia also seems to be
75Bg0080T         finer grained than the main QM.  Does joint set = fault? (Also see 75ABg0083).;
75Bg0080  ------------------------------------------------------------------------------------------------------
#
75Bg0081              STATION = 75ABg0081;
75Bg0081              DATE = 7/15/75;
75Bg0081              QUAD = CR D-1;
75Bg0081              LAT = 55/57/52;
75Bg0081              LONG = 132/11/09;
75Bg0081              PURPOSE = Geol;
75Bg0081
75Bg0081   TEXT-TOPIC = Lith;
75Bg0081
75Bg0081   STRUCTURE:
75Bg0081        BEDDING = 315/60;
75Bg0081        FOL-SCH = 315/60;
75Bg0081        JOINT = 170/35;
75Bg0081        JOINT = 068/50-70;
75Bg0081        OTHER = Sil 320/60 (3-meter Lampro);
75Bg0081
75Bg0081SA SAMPLE NUMBER = 75ABg0081A;
75Bg0081SA      UNIT = Paragneiss;
75Bg0081SA      SOURCE = OTC;
75Bg0081SA      TYPE = Repres;
75Bg0081SA      PURPOSE = Hand spec, T. S.;
75Bg0081SA      DESCRIPTION = Sed, met;
75Bg0081SA      LITH = Pelitic gneiss;
75Bg0081SA      FORM = Bedded;
75Bg0081SA      MINS = Qtz, Plag, Bio, Sill;
75Bg0081SA      TEXTURE = Schistose;
75Bg0081SA      CONDITION = Fresh;
75Bg0081SA      REMARKS = Sillimanite not confirmed.;
75Bg0081SA
75Bg0081T  TEXT = Dark brown and greenish black recrystallized metasediments derived from thinly interbedded sandstone,
75Bg0081T         siltstone, and mudstone (turbidite).  Some of the beds are quite dark and could be mistaken for
75Bg0081T         hornblende schist or amphibolite, but all I can find is pelitic schist.  Numerous veins and lenses
75Bg0081T         of white quartz both parallel and intersect the comp layering.  Some of the layers contain what
75Bg0081T         appears to be sillimanite, but I am not sure it occurs in the collected sample.;
75Bg0081  ------------------------------------------------------------------------------------------------------
#
75Bg0082              STATION = 75ABg0082;
75Bg0082              DATE = 7/15/75;
75Bg0082              QUAD = CR D-1;
75Bg0082              LAT = 55/57/26;
75Bg0082              LONG = 132/12/30;
```

```
75Bg0082              PURPOSE = Geol;
75Bg0082
75Bg0082   TEXT-TOPIC = Lith;
75Bg0082
75Bg0082   STRUCTURE;
75Bg0082        JOINT = 275/v;
75Bg0082        JOINT = 010/75;
75Bg0082
75Bg0082SA SAMPLE NUMBER = 75ABg0082A;
75Bg0082SA      UNIT = QM;
75Bg0082SA      SOURCE = OTC;
75Bg0082SA      TYPE = Repres;
75Bg0082SA      PURPOSE = Hand spec;
75Bg0082SA      DESCRIPTION = Intr;
75Bg0082SA      LITH = Quartz monzonite;
75Bg0082SA      FORM = Pluton;
75Bg0082SA      MINS = Qtz, Plag, Kspr, Bio;
75Bg0082SA      TEXTURE = Hypidio granular, porphyritic;
75Bg0082SA      REMARKS = Sparse feldspar euhedra to 1.5 cm.  Spl contains Qtz microdiorite(?) inclusion.;
75Bg0082SA
75Bg0082T  TEXT = Msv-jointed leucocratic quartz monzonite.  Pluton is weakly feldspar-porphyritic and contains
75Bg0082T        scattered nebulitic inclusions of dark brownish gray fine-grained QD--like rock.  Sparse dikes
75Bg0082T        of leuco-aplite to 5 cm or so thick.  See no foliation or linear structure.;
75Bg0082  ------------------------------------------------------------------------------------------------------
#
75Bg0083              STATION = 75ABg0083;
75Bg0083              DATE = 7/15/75;
75Bg0083              QUAD = CR D-1;
75Bg0083              LAT = 55/56/40;
75Bg0083              LONG = 132/12/40;
75Bg0083              PURPOSE = Geol;
75Bg0083
75Bg0083   TEXT-TOPIC = Lith, struct;
75Bg0083
75Bg0083   STRUCTURE;
75Bg0083        FAULT-SHEAR = 337/75-v;
75Bg0083
75Bg0083SA SAMPLE NUMBER = 75ABg0083A;
75Bg0083SA      UNIT = QM;
75Bg0083SA      SOURCE = OTC;
75Bg0083SA      TYPE = Repres;
75Bg0083SA      PURPOSE = Hand spec;
75Bg0083SA      DESCRIPTION = Intr;
75Bg0083SA      LITH = QM;
75Bg0083SA      FORM = Pluton;
75Bg0083SA      MINS = Qtz, Plag, Kspr, Bio;
75Bg0083SA      TEXTURE = Breccia;
75Bg0083SA      CONDITION = Fresh;
75Bg0083SA
75Bg0083T  TEXT = Sheared, fractured, and brecciated leucocratic quartz monzonite.  Breccia crops out along shore
75Bg0083T        for about 1/8 mile N. of station.  Milling, etc., evid is due to 337/75-v shear zone that starts
75Bg0083T        about 1/8 mi N. of station and continues to S. of station.  Some of the brecciated QM looks altered
75Bg0083T        and finer grained than unsheared part of pluton, but have not been able to confirm this yet.;
75Bg0083  ------------------------------------------------------------------------------------------------------
#
75Bg0084              STATION = 75ABg0084;
75Bg0084              DATE = 7/15/75;
75Bg0084              QUAD = CR D-1;
75Bg0084              LAT = 55/56/36;
75Bg0084              LONG = 132/12/49;
75Bg0084              PURPOSE = Geol, geochem;
```

```
75Bg0084
75Bg0084   TEXT-TOPIC = Lith;
75Bg0084
75Bg0084   STRUCTURE;
75Bg0084        BEDDING = 345/60;
75Bg0084        POL-SCH = 345/60;
75Bg0084        AXIAL-PLANE = 135/v;
75Bg0084        FOLD-AXIS = 140/50;
75Bg0084        OTHER = Contact 287/v;
75Bg0084
75Bg0084SA SAMPLE NUMBER = 75ABg0084A;
75Bg0084SA      UNIT = QM;
75Bg0084SA      SOURCE = OTC;
75Bg0084SA      TYPE = Repres;
75Bg0084SA      PURPOSE = Hand spec, spec;
75Bg0084SA      LITH = QM;
75Bg0084SA      FORM = Pluton;
75Bg0084SA      MINS = Qtz, Plag, Py, Chl;
75Bg0084SA      CONDITION = Alter;
75Bg0084SA      REMARKS = Iron stained quartz monzonite about 15 meters from contact with metasedimentary
75Bg0084SA      REMARKS = country rocks.;
75Bg0084SA
75Bg0084SA SAMPLE NUMBER = 75ABg0084B;
75Bg0084SA      UNIT = Cooked phyllitic metaseds;
75Bg0084SA      SOURCE = OTC;
75Bg0084SA      TYPE = Repres;
75Bg0084SA      PURPOSE = Hand spec;
75Bg0084SA      DESCRIPTION = Sed, met;
75Bg0084SA      MINS = Qtz, Plag, Bio;
75Bg0084SA      TEXTURE = Schistose;
75Bg0084SA      CONDITION = Fresh;
75Bg0084SA      REMARKS = "Cooked flysch" of J. G. Smith?;
75Bg0084SA
75Bg0084SA SAMPLE NUMBER = 75ABg0084C;
75Bg0084SA      UNIT = Cooked metaflysch;
75Bg0084SA      SOURCE = OTC
75Bg0084SA      TYPE = Repres;
75Bg0084SA      PURPOSE = Hand spec;
75Bg0084SA      DESCRIPTION = Intr;
75Bg0084SA      LITH = Quartz microdiorite;
75Bg0084SA      FORM = 10 meter sill;
75Bg0084SA      MINS = Qtz, Plag, Bio, Py;
75Bg0084SA      TEXTURE = Feldspar porphyritic;
75Bg0084SA      CONDITION = Fresh;
75Bg0084SA      REMARKS = Possibly very sparse garnet--not confirmed.  Coll from point about 1/8 mi S.W.
75Bg0084SA      REMARKS = of stn 84. I believe this dike is an apophysis of garnet-bearing QD pluton to NW
75Bg0084SA      REMARKS = that is responsible for thermal met (cooking) of phyllitic metasediments.;
75Bg0084SA
75Bg0084T  TEXT = Intrusive contact between quartz monzonite pluton on the NE and laminated metasediments on the SW.
75Bg0084T        There is some minor faulting along the contact but it is mainly intrusive. See no significant
75Bg0084T        thermal aureole in metaseds. Pluton is fine grained and (locally) iron stained near contact, but
75Bg0084T        it contains no metased inclusions and sends few, if any apophyses into the country rocks. Last
75Bg0084T        otcps of brecciated QM are about 50 meters to NE. Metaseds may be "cooked" phyllite, but I don't
75Bg0084T        think cooking is due to QM pluton. Bedding=comp layering--avg 2-3 cm-- thinner bedded than usual.;
75Bg0084  ----------------------------------------------------------------------------------------------------
*
75Bg0085            STATION = 75ABg0085;
75Bg0085            DATE = 7/15/75;
75Bg0085            QUAD = CR D-1;
75Bg0085            LAT = 55/56/02;
75Bg0085            LONG = 132/13/02;
```

```
75Bg0085              PURPOSE = Geol;
75Bg0085
75Bg0085   TEXT-TOPIC = Lith;
75Bg0085
75Bg0085   STRUCTURE:
75Bg0085        FOL-SCH = 028/40;
75Bg0085
75Bg0085SA SAMPLE NUMBER = 75ABg0085A;
75Bg0085SA      UNIT = GA-Bearing Qtz Dio;
75Bg0085SA      SOURCE = OTC;
75Bg0085SA      TYPE = Repres;
75Bg0085SA      PURPOSE = Hand spec;
75Bg0085SA      DESCRIPTION = Intr;
75Bg0085SA      LITH = Qtz diorite;
75Bg0085SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0085SA      CONDITION = Fresh;
75Bg0085SA
75Bg0085T  TEXT = Garnet-bearing, locally feldspar-porphyritic fine-grained quartz diorite (=quartz microdiorite
75Bg0085T        in dike @ 84).  Rk is massive, weathers dk brown, and contains abundant inclusions and xenoliths
75Bg0085T        of metasedimentary rock.  Ctcts between pluton and inclusions not always sharp--may be gradational,
75Bg0085T        in part.;
75Bg0085  ------------------------------------------------------------------------------------------------------
;
75Bg0086              STATION = 75ABg0086;
75Bg0086              DATE = 7/16/75;
75Bg0086              QUAD = CR D-1;
75Bg0086              LAT = 55/55/47;
75Bg0086              LONG = 132/13/41;
75Bg0086              PURPOSE = Geol;
75Bg0086
75Bg0086   TEXT-TOPIC = Lith;
75Bg0086
75Bg0086   STRUCTURE:
75Bg0086        BEDDING = 018/55;
75Bg0086        FOL-SCH = 018/55;
75Bg0086        OTHER-LIN = 082/35 (B/C);
75Bg0086        OTHER = Sills 020/55;
75Bg0086        OTHER = Dike 175/60;
75Bg0086
75Bg0086SA SAMPLE NUMBER = 75ABg0086A;
75Bg0086SA      UNIT = Cooked phyll seds;
75Bg0086SA      SOURCE = OTC;
75Bg0086SA      TYPE = Repres;
75Bg0086SA      PURPOSE = Hand spec;
75Bg0086SA      DESCRIPTION = Intr;
75Bg0086SA      LITH = Andesite?;
75Bg0086SA      FORM = Dike;
75Bg0086SA      MINS = Plag;
75Bg0086SA      TEXTURE = Porphyritic;
75Bg0086SA      CONDITION = Fresh;
75Bg0086SA
75Bg0086SA SAMPLE NUMBER = 75ABg0086B;
75Bg0086SA      UNIT = Cooked phyllitic seds;
75Bg0086SA      SOURCE = OTC;
75Bg0086SA      TYPE = Repres;
75Bg0086SA      PURPOSE = Hand spec;
75Bg0086SA      DESCRIPTION = Sed, met;
75Bg0086SA      LITH = Meta-pelite;
75Bg0086SA      FORM = Bedded;
75Bg0086SA      MINS = Qtz, Bio;
75Bg0086SA      CONDITION = Fresh;
```

```
2929.   75Bg0086SA      REMARKS = Garnet and poss staurolite in some layers.;
2930.   75Bg0086SA
2931.   75Bg0086T  TEXT = Several subparallel sills of quartz diorite averaging 10 meters or so thick intrude "cookai"
2932.   75Bg0086T        pelitic metasediments.  These sills account for the N20E trend of many of the islands and
2933.   75Bg0086T        peninsulas near this station.  There is also a 10 meter dike of dk green feldspar-porphyritic
2934.   75Bg0086T        andesite? whose attitude is conjugate to that of the sills.  Metaseds show kinks--prob lower
2935.   75Bg0086T        grade than metaseds to NE.;
2936.   75Bg0086  ------------------------------------------------------------------------------------------------
2937.   #
2938.   75Bg0087            STATION = 75ABg0087;
2939.   75Bg0087            DATE = 7/16/75;
2940.   75Bg0087            QUAD = CR D-1;
2941.   75Bg0087            LAT = 55/59/20;
2942.   75Bg0087            LONG = 132/11/35;
2943.   75Bg0087            PURPOSE = Geol;
2944.   75Bg0087
2945.   75Bg0087   TEXT-TOPIC = Lith;
2946.   75Bg0087
2947.   75Bg0087   STRUCTURE;
2948.   75Bg0087        FOL-SCH = 008/64;
2949.   75Bg0087
2950.   75Bg0087SA SAMPLE NUMBER = 75ABg0087A;
2951.   75Bg0087SA      UNIT = Pelitic schist;
2952.   75Bg0087SA      SOURCE = OTC;
2953.   75Bg0087SA      TYPE = Repres;
2954.   75Bg0087SA      PURPOSE = Hand spec;
2955.   75Bg0087SA      DESCRIPTION = Sed, met;
2956.   75Bg0087SA      LITH = Pelitic schist;
2957.   75Bg0087SA      FORM = Bedded;
2958.   75Bg0087SA      MINS = Qtz, Bio, Ep/Clz, Garn;
2959.   75Bg0087SA      TEXTURE = Schistose and microgranular;
2960.   75Bg0087SA      CONDITION = Fresh;
2961.   75Bg0087SA      REMARKS = Some layers are fissile BI-rich schist--some are flinty, nonfissile,
2962.   75Bg0087SA      REMARKS = and seem to be rich in green minerals such as CZ-EP and probably QZ-PC.;
2963.   75Bg0087SA
2964.   75Bg0087T  TEXT = Dark brownish and greenish gray pelitic schist and gneiss derived from thinly interbedded sandstone,
2965.   75Bg0087T        siltstone, and mudstone.  Some of the unit is flinty and hard, suggesting that the rks have been
2966.   75Bg0087T        thermally as well as regionally metamorphosed.  Shoreline for about a mile N of station consists
2967.   75Bg0087T        of alternating outcrops of metaseds, and at least 2 types of sills or dikes (porphyroaphanite and
2968.   75Bg0087T        lamprophyre).;
2969.   75Bg0087  ------------------------------------------------------------------------------------------------
2970.   #
2971.   75Bg0088            STATION = 75ABg0088;
2972.   75Bg0088            DATE = 7/15/75;
2973.   75Bg0088            QUAD = CR D-1;
2974.   75Bg0088            LAT = 55/58/38;
2975.   75Bg0088            LONG = 132/11/29;
2976.   75Bg0088            PURPOSE = Geol;
2977.   75Bg0088
2978.   75Bg0088   TEXT-TOPIC = Lith;
2979.   75Bg0088
2980.   75Bg0088   STRUCTURE;
2981.   75Bg0088        BEDDING = 350/50;
2982.   75Bg0088        FOL-SCH = 360/70;
2983.   75Bg0088        JOINT = 170/45;
2984.   75Bg0088
2985.   75Bg0088SA SAMPLE NUMBER = 75ABg0088A;
2986.   75Bg0088SA      UNIT = Pelitic schist;
2987.   75Bg0088SA      SOURCE = OTC;
2988.   75Bg0088SA      TYPE = Repres;
2989.   75Bg0088SA      PURPOSE = Hand spec;
```

```
2990.   75Bg0088SA      DESCRIPTION = Intr;
2991.   75Bg0088SA      LITH = Hornblendite;
2992.   75Bg0088SA      FORM = Sill;
2993.   75Bg0088SA      MINS = Hbl, Bio;
2994.   75Bg0088SA      CONDITION = Fresh;
2995.   75Bg0088SA
2996.   75Bg0088T  TEXT = Sill-like pluton of dk greenish black hornblendite 10 or 15 meters thick intrudes pelitic schist.
2997.   75Bg0088T        Relation to other types of sills unknown.  "Bedding" actually is a compositional and (or) textural
2998.   75Bg0088T        layering in the sill approximately parallel to its contacts with the country rocks.;
2999.   75Bg0088  ----------------------------------------------------------------------------------------------------
3000.   ¢
3001.   75Bg0089            STATION = 75ABg0089;
3002.   75Bg0089            DATE = 7/16/75;
3003.   75Bg0089            QUAD = CR D-1;
3004.   75Bg0089            LAT = 55/56/12;
3005.   75Bg0089            LONG = 132/11/20;
3006.   75Bg0089            PURPOSE = Geol;
3007.   75Bg0089
3008.   75Bg0089   TEXT-TOPIC = Lith;
3009.   75Bg0089
3010.   75Bg0089   STRUCTURE;
3011.   75Bg0089        FOL-SCH = 348/42;
3012.   75Bg0089        FAULT-SHEAR = 168/55;
3013.   75Bg0089        FAULT-SHEAR = 200/86;
3014.   75Bg0089        FAULT-SHEAR = 140/68;
3015.   75Bg0089        OTHER-LIN = 119/29 (STR);
3016.   75Bg0089
3017.   75Bg0089SA SAMPLE NUMBER = 75ABg0089A;
3018.   75Bg0089SA      UNIT = Pelitic schist;
3019.   75Bg0089SA      SOURCE = Rubble;
3020.   75Bg0089SA      TYPE = Repres;
3021.   75Bg0089SA      PURPOSE = Hand spec;
3022.   75Bg0089SA      DESCRIPTION = Intr;
3023.   75Bg0089SA      LITH = Felsic porphyry;
3024.   75Bg0089SA      FORM = Sill;
3025.   75Bg0089SA      MINS = Qtz, Kspr, Bio, Py;
3026.   75Bg0089SA      TEXTURE = Porphyroaphanitic;
3027.   75Bg0089SA      CONDITION = Fresh;
3028.   75Bg0089SA
3029.   75Bg0089SA SAMPLE NUMBER = 75ABg0089B;
3030.   75Bg0089SA      UNIT = Pelitic schist;
3031.   75Bg0089SA      SOURCE = OTC;
3032.   75Bg0089SA      TYPE = Repres;
3033.   75Bg0089SA      PURPOSE = Hand spec;
3034.   75Bg0089SA      DESCRIPTION = Sed, met;
3035.   75Bg0089SA      LITH = Pelitc schist;
3036.   75Bg0089SA      FORM = Bedded;
3037.   75Bg0089SA      MINS = Bio, Garn, Musc;
3038.   75Bg0089SA      TEXTURE = Fissile;
3039.   75Bg0089SA      CONDITION = Fresh;
3040.   75Bg0089SA
3041.   75Bg0089SA SAMPLE NUMBER = 75ABg0089C;
3042.   75Bg0089SA      UNIT = Pelitic schist;
3043.   75Bg0089SA      SOURCE = OTC;
3044.   75Bg0089SA      TYPE = Repres;
3045.   75Bg0089SA      PURPOSE = Hand spec;
3046.   75Bg0089SA      DESCRIPTION = Intr;
3047.   75Bg0089SA      LITH = Qtz diorite;
3048.   75Bg0089SA      FORM = Sill?;
3049.   75Bg0089SA      MINS = Qtz, Plag, Bio, Garn;
3050.   75Bg0089SA      TEXTURE = Hypidiomorphic granular;
```

```
3051.   75Bg0089SA      CONDITION = Fresh;
3052.   75Bg0089SA      REMARKS = Sample collected from west side of islet about 1/4 mi SE of station.;
3053.   75Bg0089SA
3054.   75Bg0089T  TEXT = Pelitic schist intruded by "lamprophyre", felsic porphyroaphanite, and "andesite" sills. Schist is
3055.   75Bg0089T        fissile, does not appear baked or "cooked"--numerous white quartz veins and lenses to 20 cm
3056.   75Bg0089T        thick, mostly parallel comp layering.;
3057.   75Bg0089  ------------------------------------------------------------------------------------------------------
3058.   #
3059.   75Bg0090             STATION = 75ABg0090;
3060.   75Bg0090             DATE = 7/16/75;
3061.   75Bg0090             QUAD = CR D-1;
3062.   75Bg0090             LAT = 55/56/09;
3063.   75Bg0090             LONG = 132/07/26;
3064.   75Bg0090             PURPOSE = Geol;
3065.   75Bg0090
3066.   75Bg0090   TEXT-TOPIC = Lith;
3067.   75Bg0090
3068.   75Bg0090   STRUCTURE;
3069.   75Bg0090        FOL-SCH = 078/83;
3070.   75Bg0090        JOINT = 150/46;
3071.   75Bg0090
3072.   75Bg0090SA SAMPLE NUMBER = 75ABg0090A;
3073.   75Bg0090SA      UNIT = Diorite;
3074.   75Bg0090SA      SOURCE = OTC;
3075.   75Bg0090SA      TYPE = Repres;
3076.   75Bg0090SA      PURPOSE = Hand spec;
3077.   75Bg0090SA      DESCRIPTION = Intr;
3078.   75Bg0090SA      LITH = HO-BI Bio;
3079.   75Bg0090SA      FORM = Pluton;
3080.   75Bg0090SA      MINS = Plag, Hbl, Bio;
3081.   75Bg0090SA      TEXTURE = Foliated;
3082.   75Bg0090SA      CONDITION = Fresh;
3083.   75Bg0090SA
3084.   75Bg0090T  TEXT = HO-BI diorite containing alined angular to schlieric mafic inclusions, and minor quartz of
3085.   75Bg0090T        feldspathic inclusions. Pluton is massive, locally conspicuously foliated. Resembles diorite
3086.   75Bg0090T        unit in western Granite Fiords. A few small (5 cm wide) aplitic dikes. Inclusions form 10%
3087.   75Bg0090T        or so of rocks.;
3088.   75Bg0090  ------------------------------------------------------------------------------------------------------
3089.   #
3090.   75Bg0091             STATION = 75ABg0091;
3091.   75Bg0091             DATE = 7/16/75;
3092.   75Bg0091             QUAD = CR D-1;
3093.   75Bg0091             LAT = 55/59/59;
3094.   75Bg0091             LONG = 132/09/18;
3095.   75Bg0091             PURPOSE = Geol;
3096.   75Bg0091
3097.   75Bg0091   TEXT-TOPIC = Lith, Reg geol/tect;
3098.   75Bg0091
3099.   75Bg0091   STRUCTURE;
3100.   75Bg0091        FOL-SCH = 008/60;
3101.   75Bg0091        OTHER-LIN = 110/55 (B/C, STR, FA);
3102.   75Bg0091        OTHER = Contact 355/v;
3103.   75Bg0091        OTHER = Foliation in Pluton 090/70;
3104.   75Bg0091
3105.   75Bg0091SA SAMPLE NUMBER = 75ABg0091A;
3106.   75Bg0091SA      UNIT = Pelitic schist;
3107.   75Bg0091SA      SOURCE = OTC;
3108.   75Bg0091SA      TYPE = Repres;
3109.   75Bg0091SA      PURPOSE = Hand spec;
3110.   75Bg0091SA      DESCRIPTION = Sed, met;
3111.   75Bg0091SA      LITH = Bio schist;
```

```
3112.   75Bg0091SA        FORM = 5 cm layer;
3113.   75Bg0091SA        MINS = Qtz, Bio;
3114.   75Bg0091SA        CONDITION = Fresh;
3115.   75Bg0091SA
3116.   75Bg0091SA SAMPLE NUMBER = 75ABg0091B;
3117.   75Dg0091SA        UNIT = Pelitic schist;
3118.   75Bg0091SA        SOURCE = OTC;
3119.   75Bg0091SA        TYPE = Repres;
3120.   75Bg0091SA        PURPOSE = Hand spec;
3121.   75Bg0091SA        DESCRIPTION = Sed, met;
3122.   75Bg0091SA        LITH = Semi-schist;
3123.   75Bg0091SA        FORM = 5 cm layer;
3124.   75Bg0091SA        MINS = Qtz, Plag;
3125.   75Bg0091SA        CONDITION = Fresh;
3126.   75Bg0091SA
3127.   75Bg0091SA SAMPLE NUMBER = 75ABg0091C;
3128.   75Bg0091SA        UNIT = Pelitic schist;
3129.   75Bg0091SA        SOURCE = OTC;
3130.   75Bg0091SA        TYPE = Repres;
3131.   75Bg0091SA        PURPOSE = Hand spec;
3132.   75Bg0091SA        DESCRIPTION = Sed, met;
3133.   75Bg0091SA        LITH = HO schist;
3134.   75Bg0091SA        FORM = 5 cm layer;
3135.   75Bg0091SA        MINS = Qtz, Plag, Hbl, Bio;
3136.   75Bg0091SA        TEXTURE = Porphyroblastic;
3137.   75Bg0091SA        CONDITION = Fresh;
3138.   75Bg0091SA
3139.   75Bg0091SA SAMPLE NUMBER = 75ABg0091D;
3140.   75Bg0091SA        UNIT = Granodio or Qtz dio;
3141.   75Bg0091SA        SOURCE = OTC;
3142.   75Bg0091SA        TYPE = Repres;
3143.   75Bg0091SA        PURPOSE = Hand spec;
3144.   75Bg0091SA        DESCRIPTION = Intr;
3145.   75Bg0091SA        FORM = Pluton;
3146.   75Bg0091SA        MINS = Qtz, Plag, Bio, Chl, Garn;
3147.   75Bg0091SA        TEXTURE = Msv to foliated;
3148.   75Bg0091SA        CONDITION = Fresh;
3149.   75Bg0091SA        REMARKS = 2 specimens: one msv, one foliated.;
3150.   75Bg0091SA
3151.   75Bg0091T  TEXT = Pelitic schist and gneiss derived from thinly interbedded fine grained sedimentary rocks.
3152.   75Bg0091T         Unit contains lenticular (boudinaged) sills of leucocratic aplite and numerous leases and veins
3153.   75Bg0091T         of locally iron stained white quartz, most of which parallel the foliation.  Unit weathers
3154.   75Bg0091T         shades of brown and green.  Key metamorphic minerals identified:  GA, HO, BI, Musc.
3155.   75Bg0091T         Some layers = "garbenschiefer" (MUSC + Act rosettes).  Unit resembles paragneiss of GFWSA.
3156.   75Bg0091T         It is intruded by massive to foliated GA-bearing porph GD pluton.  Nr ctct w/ gneiss plut is
3157.   75Bg0091T         fol, w/ a few xenoliths.  Pluton in turn intruded by 1 m lampro dike (010/60).;
3158.   75Bg0091  ----------------------------------------------------------------------------------------------
3159.   #
3160.   75Bg0092             STATION = 75ABg0092;
3161.   75Bg0092             DATE = 7/17/75;
3162.   75Bg0092             QUAD = CR D-1;
3163.   75Bg0092             LAT = 55/59/37;
3164.   75Bg0092             LONG = 132/09/59;
3165.   75Bg0092             PURPOSE = Geol;
3166.   75Bg0092
3167.   75Bg0092   TEXT-TOPIC = Lith;
3168.   75Bg0092
3169.   75Bg0092   STRUCTURE;
3170.   75Bg0092        FOL-SCH = 023/40-50;
3171.   75Bg0092        OTHER-LIN = 125/50 (B/C);
3172.   75Bg0092
```

```
3173.    75Bg0092SA SAMPLE NUMBER = 75ABg0092A;
3174.    75Bg0092SA      UNIT = Pelitic schist;
3175.    75Bg0092SA      SOURCE = OTC;
3176.    75Bg0092SA      TYPE = Repres;
3177.    75Bg0092SA      PURPOSE = Hand spec;
3178.    75Bg0092SA      DESCRIPTION = Sed, met;
3179.    75Bg0092SA      MINS = Bio;
3180.    75Bg0092SA      CONDITION = Fresh;
3181.    75Bg0092SA
3182.    75Bg0092T  TEXT = Brown weathering pelitic gneiss and schist containing numerous quartz pods, lenses, veins approx
3183.    75Bg0092T        parallel foliation.  The unit is intruded by semiconcordant dikes of lamprophyre and quartz
3184.    75Bg0092T        dio-granodiorite.;
3185.    75Bg0092  ----------------------------------------------------------------------------------------------------
3186.    #
3187.    75Bg0093             STATION = 75ABg0093;
3188.    75Bg0093             DATE = 7/17/75;
3189.    75Bg0093             QUAD = CR D-1;
3190.    75Bg0093             LAT = 55/59/10;
3191.    75Bg0093             LONG = 132/09/29;
3192.    75Bg0093             PURPOSE = Geol;
3193.    75Bg0093
3194.    75Bg0093   TEXT-TOPIC = Lith;
3195.    75Bg0093
3196.    75Bg0093   STRUCTURE;
3197.    75Bg0093        FOL-SCH = 013/10-40;
3198.    75Bg0093        OTHER-LIN = 095/35 (STR);
3199.    75Bg0093        OTHER = Kinks 175/0 (K);
3200.    75Bg0093
3201.    75Bg0093SA SAMPLE NUMBER = 75ABg0093A;
3202.    75Bg0093SA      UNIT = Pelitic schist;
3203.    75Bg0093SA      SOURCE = OTC;
3204.    75Bg0093SA      TYPE = Repres;
3205.    75Bg0093SA      PURPOSE = Hand spec;
3206.    75Bg0093SA      LITH = Schist;
3207.    75Bg0093SA      MINS = Qtz, Plag, Hbl, Bio, Garn, Musc;
3208.    75Bg0093SA      TEXTURE = Porphyroblastic;
3209.    75Bg0093SA      CONDITION = Fresh;
3210.    75Bg0093SA      REMARKS = Two specimens.;
3211.    75Bg0093SA
3212.    75Bg0093T  TEXT = Pelitic schist comprising alt layers of BI-rich rock and HO-rich (garbenschiefer) rock.  Some
3213.    75Bg0093T        of the HO xls are as much as 2-3 cm long--mostly they are in rosette-like radiating clusters of
3214.    75Bg0093T        prisms in a muscovite-rich matrix.  Rx show kinks--appear to be less rexld than pel gn @ 91.;
3215.    75Bg0093  ----------------------------------------------------------------------------------------------------
3216.    #
3217.    75Bg0094             STATION = 75ABg0094;
3218.    75Bg0094             DATE = 7/17/75;
3219.    75Bg0094             QUAD = CR D-1;
3220.    75Bg0094             LAT = 55/58/47;
3221.    75Bg0094             LONG = 132/08/41;
3222.    75Bg0094             PURPOSE = Geol;
3223.    75Bg0094
3224.    75Bg0094   TEXT-TOPIC = Lith;
3225.    75Bg0094
3226.    75Bg0094   STRUCTURE;
3227.    75Bg0094        FOL-SCH = 314/45;
3228.    75Bg0094        JOINT = 165/55;
3229.    75Bg0094        OTHER = 1 metre Lampro Dike 068/75;
3230.    75Bg0094
3231.    75Bg0094SA SAMPLE NUMBER = 75ABg0094A;
3232.    75Bg0094SA      UNIT = ? Qtz Dio;
3233.    75Bg0094SA      SOURCE = OTC;
```

```
3234.   75Bg0094SA        TYPE = Repres;
3235.   75Bg0094SA        PURPOSE = Hand spec;
3236.   75Bg0094SA        DESCRIPTION = Intr, met;
3237.   75Bg0094SA        FORM = Pluton;
3238.   75Bg0094SA        MINS = Qtz, Plag, Hbl, Bio, Garn;
3239.   75Bg0094SA        CONDITION = Fresh;
3240.   75Bg0094SA
3241.   75Bg0094T   TEXT = Dark brown massive rock consisting of a schistose aggregate of BI, HO?, GA, QZ, and PC.  Rock
3242.   75Bg0094T         shows crude banding at otcp scale (less than one meter thick bands).  I believe this is
3243.   75Bg0094T         metamorphosed plutonic rock that may correl w/ other GA-bearing plutons in this area.' This rk,
3244.   75Bg0094T         which may form sill-like body in pel sch country rx is cut by "lampro" dikes.;
3245.   75Bg0094  ----------------------------------------------------------------------------------------------------
3246.   *
3247.   75Bg0095              STATION = 75ABg0095;
3248.   75Bg0095              DATE = 7/17/75;
3249.   75Bg0095              QUAD = CR D-1;
3250.   75Bg0095              LAT = 55/58/13;
3251.   75Bg0095              LONG = 132/08/01;
3252.   75Bg0095              PURPOSE = Geol, Geochem;
3253.   75Bg0095
3254.   75Bg0095    TEXT-TOPIC = Lith;
3255.   75Bg0095
3256.   75Bg0095    STRUCTURE;
3257.   75Bg0095         FOL-SCH = 280/65;
3258.   75Bg0095
3259.   75Bg0095SA SAMPLE NUMBER = 75ABg0095A;
3260.   75Bg0095SA        UNIT = Pelitic schist;
3261.   75Bg0095SA        SOURCE = OTC;
3262.   75Bg0095SA        TYPE = Repres;
3263.   75Bg0095SA        PURPOSE = Spec;
3264.   75Bg0095SA        DESCRIPTION = Intr;
3265.   75Bg0095SA        LITH = QZ, Dio + Qz;
3266.   75Bg0095SA        FORM = Vein;
3267.   75Bg0095SA        MINS = Qtz;
3268.   75Bg0095SA        CONDITION = Alter;
3269.   75Bg0095SA        REMARKS = Iron stained Qtz vein in Qtz DIO sill adjacent to contact with pelitic schist.;
3270.   75Bg0095SA
3271.   75Bg0095SA SAMPLE NUMBER = 75ABg0095B;
3272.   75Bg0095SA        UNIT = Pelitic schist;
3273.   75Bg0095SA        SOURCE = OTC;
3274.   75Bg0095SA        TYPE = Repres;
3275.   75Bg0095SA        PURPOSE = Hand spec;
3276.   75Bg0095SA        DESCRIPTION = Intr, met;
3277.   75Bg0095SA        LITH = Qtz Dio;
3278.   75Bg0095SA        FORM = Sill?;
3279.   75Bg0095SA        MINS = Qtz, Plag, Hbl, Bio, Garn;
3280.   75Bg0095SA        CONDITION = Fresh;
3281.   75Bg0095SA
3282.   75Bg0095SA SAMPLE NUMBER = 75ABg0095C;
3283.   75Bg0095SA        UNIT = Pelitic schist;
3284.   75Bg0095SA        SOURCE = Bubble;
3285.   75Bg0095SA        TYPE = Repres;
3286.   75Bg0095SA        PURPOSE = Hand spec;
3287.   75Bg0095SA        DESCRIPTION = Sed, met;
3288.   75Bg0095SA        LITH = Conglomerate (Rexld);
3289.   75Bg0095SA        FORM = Bed;
3290.   75Bg0095SA        CONDITION = Fresh;
3291.   75Bg0095SA        REMARKS = Rexld pebble-to cobble conglomerate bed about 3 feet thick--intercalated with
3292.   75Bg0095SA        REMARKS = pelitic schist.;
3293.   75Bg0095SA
3294.   75Bg0095T   TEXT = Pelitic schist containing a few sills of dark brown Qtz metadiorite similar to rk @ 94.
```

```
75Bg0095T        North of station for about a quarter mile, more than half the outcrop is massive to schistose
75Bg0095T        plutonic rock similar to the garnet-bearing Qtz dio # 94.  Based on relns elsewhere, I assume
75Bg0095T        the pluton is a sill or nearly concordant dike several tens of meters thick.  There is at least
75Bg0095T        one layer abt 1 m thick of recrystallized pebbly siltstone in the pelitic schist unit.  Exposure
75Bg0095T        not very good (betw barnacle & fucus zones).  Clasts avg to rndd--to 20 cm long--some=QZ, some*
75Bg0095T        metaseds.;
75Bg0095  ------------------------------------------------------------------------------------------------------
#
75Bg0096             STATION = 75ABg0096;
75Bg0096             DATE = 7/17/75;
75Bg0096             QUAD = CR D-1;
75Bg0096             LAT = 55/57/47;
75Bg0096             LONG = 132/07/50;
75Bg0096             PURPOSE = Geol;
75Bg0096
75Bg0096   TEXT-TOPIC = Lith;
75Bg0096
75Bg0096   STRUCTURE;
75Bg0096        BEDDING = 336/60;
75Bg0096        FOL-SCH = 300/50;
75Bg0096        OTHER = 1 metre Lamp Dike 075/80;
75Bg0096
75Bg0096SA SAMPLE NUMBER = 75ABg0096A;
75Bg0096SA      UNIT = Pelitic schist;
75Bg0096SA      SOURCE = Bubble;
75Bg0096SA      TYPE = Repres;
75Bg0096SA      PURPOSE = Hand spec, T. S.;
75Bg0096SA      DESCRIPTION = Sed, met;
75Bg0096SA      LITH = BI-Staur schist;
75Bg0096SA      MINS = Qtz, Plag, Bio, Staur, Garn;
75Bg0096SA
75Bg0096T  TEXT = Excellent exposures of pelitic schist showing significant angle between composition layering and
75Bg0096T        fol/sch.  Some of the BI-rich layers also contain well formed porphyroblasts of staurolite
75Bg0096T        (some crosses) and garnet.  Suspect kyanite might be present also but cannot find it.;
75Bg0096  ------------------------------------------------------------------------------------------------------
#
75Bg0097             STATION = 75ABg0097;
75Bg0097             DATE = 7/17/75;
75Bg0097             QUAD = CR D-1;
75Bg0097             LAT = 55/57/24;
75Bg0097             LONG = 132/07/39;
75Bg0097             PURPOSE = Geol;
75Bg0097
75Bg0097   TEXT-TOPIC = Lith;
75Bg0097
75Bg0097   STRUCTURE;
75Bg0097        FOL-SCH = 284/60;
75Bg0097        AXIAL-PLANE = = Fol/sch;
75Bg0097        FOLD-AXIS = 100/42 (also=STR);
75Bg0097
75Bg0097SA SAMPLE NUMBER = 75ABg0097A;
75Bg0097SA      UNIT = Pelitic schist;
75Bg0097SA      SOURCE = OTC;
75Bg0097SA      TYPE = Repres;
75Bg0097SA      PURPOSE = Hand spec;
75Bg0097SA      DESCRIPTION = Intr, Met;
75Bg0097SA      LITH = Qtz Dio;
75Bg0097SA      FORM = Sill;
75Bg0097SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
75Bg0097SA      CONDITION = Fresh;
75Bg0097SA
```

```
3356.    75Bg0097T  TEXT = Pel schist intruded by a 5 meter sill of metamorphosed GA? bearing Qtz dio.;
3357.    75Bg0097   ----------------------------------------------------------------------------------------
3358.    $
3359.    75Bg0098              STATION = 75ABg0098;
3360.    75Bg0098              DATE = 7/17/75;
3361.    75Bg0098              QUAD = CR D-1;
3362.    75Bg0098              LAT = 55/56/58;
3363.    75Bg0098              LONG = 132/07/29;
3364.    75Bg0098              PURPOSE = Geol;
3365.    75Bg0098
3366.    75Bg0098   TEXT-TOPIC = Lith;
3367.    75Bg0098
3368.    75Bg0098   STRUCTURE;
3369.    75Bg0098        FOL-SCH = 305/45;
3370.    75Bg0098        JOINT = 210/v;
3371.    75Bg0098        JOINT = 170/45;
3372.    75Bg0098        OTHER-LIN = 078/30 (STR);
3373.    75Bg0098
3374.    75Bg0098SA SAMPLE NUMBER = 75ABg0098A;
3375.    75Bg0098SA      UNIT = Pelitic schist;
3376.    75Bg0098SA      SOURCE = OTC;
3377.    75Bg0098SA      TYPE = Repres;
3378.    75Bg0098SA      PURPOSE = Hand spec;
3379.    75Bg0098SA      DESCRIPTION = Sed, met;
3380.    75Bg0098SA      LITH = Biotite schist;
3381.    75Bg0098SA      MINS = Qtz, Plag, Bio, Garn;
3382.    75Bg0098SA      REMARKS = Garnet not confirmed.;
3383.    75Bg0098SA
3384.    75Bg0098SA SAMPLE NUMBER = 75ABg0098B;
3385.    75Bg0098SA      UNIT = Pelitic schist;
3386.    75Bg0098SA      SOURCE = OTC;
3387.    75Bg0098SA      TYPE = Repres;
3388.    75Bg0098SA      PURPOSE = Hand spec;
3389.    75Bg0098SA      DESCRIPTION = Sed, met;
3390.    75Bg0098SA      MINS = Qtz, Plag, Bio, Staur, Garn;
3391.    75Bg0098SA      CONDITION = Fresh;
3392.    75Bg0098SA      REMARKS = Garn & stauro not confirmed in this sample.;
3393.    75Bg0098SA
3394.    75Bg0098T  TEXT = Pelitic schist--some layers contain abundant tiny needlelike porphyroblasts of staurolite.
3395.    75Bg0098T         Other layers contain mostly biotite and probably garnet, but no staurolite.  Whether I see the
3396.    75Bg0098T         stauro or not apparently depends upon weathering and whether it is raining!;
3397.    75Bg0098   ----------------------------------------------------------------------------------------
3398.    $
3399.    75Bg0099              STATION = 75ABg0099;
3400.    75Bg0099              DATE = 7/17/75;
3401.    75Bg0099              QUAD = CR D-1;
3402.    75Bg0099              LAT = 55/56/02;
3403.    75Bg0099              LONG = 132/07/26;
3404.    75Bg0099              PURPOSE = Geol;
3405.    75Bg0099
3406.    75Bg0099   TEXT-TOPIC = Lith;
3407.    75Bg0099
3408.    75Bg0099   STRUCTURE;
3409.    75Bg0099        JOINT = 315/55;
3410.    75Bg0099        OTHER = Dikes 310/50;
3411.    75Bg0099
3412.    75Bg0099SA SAMPLE NUMBER = 75ABg0099A;
3413.    75Bg0099SA      UNIT = Diorite;
3414.    75Bg0099SA      SOURCE = OTC;
3415.    75Bg0099SA      TYPE = Repres;
3416.    75Bg0099SA      PURPOSE = Hand spec;
```

```
75Bg0099SA      DESCRIPTION = Intr;
75Bg0099SA      MINS = Plag, Hbl, Bio;
75Bg0099SA      CONDITION = Fresh;
75Bg0099SA
75Bg0099T  TEXT = WESTERLY ISLAND. Mafic, dk gnsh gy, massive-jointed diorite.  Pluton is cut by a few lamprophyre
75Bg0099T       or microdiorite dikes to about 25 cm th.  Dikes are somewhat contorted--faulted.  No inclusions,
75Bg0099T       xenoliths or schlieren seen at station.;
75Bg0099  ------------------------------------------------------------------------------------------------------
#
75Bg0100            STATION = 75ABg0100;
75Bg0100            DATE = 7/18/75;
75Bg0100            QUAD = CR D-1;
75Bg0100            LAT = 55/45/00;
75Bg0100            LONG = 132/15/56;
75Bg0100            PURPOSE = Geol;
75Bg0100
75Bg0100   TEXT-TOPIC = Lith, strat;
75Bg0100
75Bg0100   STRUCTURE;
75Bg0100        FOL-SCH = 324/89;
75Bg0100        JOINT = 40/v;
75Bg0100
75Bg0100SA SAMPLE NUMBER = 75ABg0100A;
75Bg0100SA      UNIT = Grav. Isl. Fm.;
75Bg0100SA      SOURCE = Rubble;
75Bg0100SA      TYPE = Repres;
75Bg0100SA      PURPOSE = Hand spec;
75Bg0100SA      DESCRIPTION = Sed, met;
75Bg0100SA      LITH = Conglomerate;
75Bg0100SA      TEXTURE = Foliated;
75Bg0100SA      CONDITION = Fresh;
75Bg0100SA
75Bg0100T  TEXT = Fol/sch=comp layering.  Foliated & recrystallized red-weathering limestone-cemented conglomerate.
75Bg0100T       The clasts are subangular to well rounded and range from a cm or so to 25 cm or so in max
75Bg0100T       dimension.  Most of the clasts are fine-grained intermediate volcanic or volcaniclastic rocks--
75Bg0100T       some appear to be siltstone and argillite--and some are femag-xl-bearing metavolcanic rocks
75Bg0100T       like those in the andesitic metatuff facies of the Gravina Island Fm.  This conglomerate might
75Bg0100T       be the base of the GIF and  depositionally overlie  UTr? rocks just to the north.
75Bg0100T       Prob has been appreciable faulting along and across this contact, but magnitude and direction
75Bg0100T       are not known.  Shearing in rx parallel to adjacent NW lineament sugg
75Bg0100T       lineament=fault zone--displacement unknown.;
75Bg0100  ------------------------------------------------------------------------------------------------------
#
75Bg0101            STATION = 75ABg0101;
75Bg0101            DATE = 7/18/75;
75Bg0101            QUAD = CR D-1;
75Bg0101            LAT = 55/45/05;
75Bg0101            LONG = 132/16/07;
75Bg0101            PURPOSE = Geol;
75Bg0101
75Bg0101   TEXT-TOPIC = Lith, strat;
75Bg0101
75Bg0101   STRUCTURE;
75Bg0101        BEDDING = 294/85;
75Bg0101        FOL-SCH = 325/75;
75Bg0101        FAULT-SHEAR = 224/70;
75Bg0101        AXIAL-PLANE = 325/75;
75Bg0101        OTHER-LIN = 150/50 (B/C);
75Bg0101        OTHER-LIN = 132/54 (STR);
75Bg0101
75Bg0101SA SAMPLE NUMBER = 75ABg0101A;
```

```
75Bg0101SA      UNIT = Upper Triassic? or Upper Paleozoic?;
75Bg0101SA      SOURCE = OTC;
75Bg0101SA      TYPE = Repres;
75Bg0101SA      PURPOSE = Hand spec;
75Bg0101SA      DESCRIPTION = Extr, met;
75Bg0101SA      LITH = Metatuff?;
75Bg0101SA      FORM = Bedded;
75Bg0101SA      MINS = Plag, Py, Chl, Ep/Clz;
75Bg0101SA      TEXTURE = Semischistose;
75Bg0101SA      CONDITION = Fresh;
75Bg0101SA
75Bg0101T  TEXT = Phyllitic to semischistose metamorphic rocks derived from interbedded limestone, shale, angular
75Bg0101T        grit and conglomerate, tuffaceous sediments, and intermediate volcanic rocks.  The limestone
75Bg0101T        outcrop is about 10 m thick and is now thinly laminated blue-gray marble--looked for fossils,
75Bg0101T        but no luck.  Clasts in grit and cgl are mainly, if not entirely, aphanitic greenish gray
75Bg0101T        intermediate metavolc cont fairly abundant dissem PY.  I believe most of the volcanic clasts
75Bg0101T        in the conglom @ 100 are similar to, and derived from, the volcanics in this unit.  Average
75Bg0101T        thickness of lithologies in unit is about 2 or 3 meters.  Unit is isoclinally folded and
75Bg0101T        regionally met. to greenschist facies.  Still no direct evidence of age of unit.  I suspect
75Bg0101T        UTr, but might be U Pz.  (However, see 75ABg102);
75Bg0101  ------------------------------------------------------------------------------------------------
#
75Bg0102            STATION = 75ABg0102;
75Bg0102            DATE = 7/18/75;
75Bg0102            QUAD = CR D-1;
75Bg0102            LAT = 55/45/13;
75Bg0102            LONG = 132/16/24;
75Bg0102            PURPOSE = Geol;
75Bg0102
75Bg0102   TEXT-TOPIC = Lith, strat;
75Bg0102
75Bg0102   STRUCTURE;
75Bg0102        FOL-SCH = 304/84;
75Bg0102        CLEAVAGE = 220/7 (S.S.);
75Bg0102
75Bg0102T  TEXT = Fol/sch=Comp layerg.  Femag-xl bearing andesitic metatuff and agglomerate containing a half-meter
75Bg0102T        layer of blue-gray laminated marble.  The metavolcs are identical to GIF.  The obvious occurrence
75Bg0102T        of limestone within the fm here suggests that the marble-bearing unit at 101 may be part of GIF
75Bg0102T        and not an U. Tr or U. Pz unit, after all.;
75Bg0102  ------------------------------------------------------------------------------------------------
#
75Bg0103            STATION = 75ABg0103;
75Bg0103            DATE = 7/18/75;
75Bg0103            QUAD = CR D-1;
75Bg0103            LAT = 55/48/09;
75Bg0103            LONG = 132/01/21;
75Bg0103            PURPOSE = Geol;
75Bg0103
75Bg0103   TEXT-TOPIC = Lith;
75Bg0103
75Bg0103   STRUCTURE;
75Bg0103        BEDDING = 260/60;
75Bg0103        FOL-SCH = 302/60;
75Bg0103        OTHER = Kinks 55/0;
75Bg0103        OTHER = Kinks 335/0;
75Bg0103
75Bg0103T  TEXT = Dk gray and dark green phyllite and phyllitic siltstone.  There are also minor amounts of
75Bg0103T        yellowish green metatuff.  Unit is very fissile, complexly kinked.;
75Bg0103  ------------------------------------------------------------------------------------------------
#
75Bg0104            STATION = 75ABg0104;
```

```
3539.   75Bg0104            DATE = 7/18/75;
3540.   75Bg0104            QUAD = CR D-1;
3541.   75Bg0104            LAT = 55/49/09;
3542.   75Bg0104            LONG = 132/05/00;
3543.   75Bg0104            PURPOSE = Geol;
3544.   75Bg0104
3545.   75Bg0104   TEXT-TOPIC = Lith, struct;
3546.   75Bg0104
3547.   75Bg0104   STRUCTURE;
3548.   75Bg0104        BEDDING = 017/36 (=AP to L1);
3549.   75Bg0104        AXIAL-PLANE = 104/80 (AP to L2);
3550.   75Bg0104        OTHER-LIN = 100/30 (STR, L2);
3551.   75Bg0104        OTHER-LIN = 037/41 (STR, L1);
3552.   75Bg0104
3553.   75Bg0104SA SAMPLE NUMBER = 75ABg0104A;
3554.   75Bg0104SA      UNIT = Pelitic phyllite;
3555.   75Bg0104SA      SOURCE = Rubble;
3556.   75Bg0104SA      TYPE = Repres;
3557.   75Bg0104SA      PURPOSE = Hand spec;
3558.   75Bg0104SA      LITH = Pelitic phyllite;
3559.   75Bg0104SA      MINS = Musc;
3560.   75Bg0104SA
3561.   75Bg0104T  TEXT = Sunshine Island.  Compositely folded thinly interbedded dk gy pelitic phyllite and subordinate
3562.   75Bg0104T        greenish gray phyllitic tuff.  Much discussion of structure.  There seems to be a set of older
3563.   75Bg0104T        isoclinal, semirecumbent small folds (L1) that have been refolded around moderately southeast-
3564.   75Bg0104T        plunging fold axes (L2).  The second folds have nearly vertical axial plane schistosity and
3565.   75Bg0104T        range from open warps to tight wrinkles.  Locally conspicuous quartz pods, etc.;
3566.   75Bg0104  ----------------------------------------------------------------------------------------------
3567.   *
3568.   75Bg0105            STATION = 75ABg0105;
3569.   75Bg0105            DATE = 7/19/75;
3570.   75Bg0105            QUAD = CR D-1;
3571.   75Bg0105            LAT = 55/53/33;
3572.   75Bg0105            LONG = 132/05/15;
3573.   75Bg0105            PURPOSE = Geol;
3574.   75Bg0105
3575.   75Bg0105   TEXT-TOPIC = Lith;
3576.   75Bg0105
3577.   75Bg0105   STRUCTURE;
3578.   75Bg0105        FOL-SCH = 307/50 (Pel Sch);
3579.   75Bg0105        FOL-SCH = 323/62 (QD);
3580.   75Bg0105        JOINT = 50/55;
3581.   75Bg0105        OTHER-LIN = 120/30 (M);
3582.   75Bg0105        OTHER = Contact 307/50;
3583.   75Bg0105
3584.   75Bg0105SA SAMPLE NUMBER = 75ABg0105A;
3585.   75Bg0105SA      UNIT = Pelitic schist;
3586.   75Bg0105SA      SOURCE = OTC;
3587.   75Bg0105SA      TYPE = Repres;
3588.   75Bg0105SA      PURPOSE = Hand spec;
3589.   75Bg0105SA      DESCRIPTION = Sed, met;
3590.   75Bg0105SA      LITH = Pelitic schist;
3591.   75Bg0105SA      MINS = Qtz, Plag, Hbl, Bio, Staur, Garn;
3592.   75Bg0105SA      REMARKS = Hbl not confirmed;
3593.   75Bg0105SA
3594.   75Bg0105SA SAMPLE NUMBER = 75ABg0105B;
3595.   75Bg0105SA      UNIT = Quartz diorite;
3596.   75Bg0105SA      SOURCE = OTC;
3597.   75Bg0105SA      TYPE = Repres;
3598.   75Bg0105SA      PURPOSE = Hand spec;
3599.   75Bg0105SA      DESCRIPTION = Intr;
```

```
75Bg0105SA        LITH = Quartz diorite;
75Bg0105SA        FORM = Pluton (sill?);
75Bg0105SA        MINS = Qtz, Plag, Kspr, Hbl, Bio, Garn;
75Bg0105SA        TEXTURE = Hypid gran - foliated;
75Bg0105SA        CONDITION = Fresh;
75Bg0105SA
75Bg0105T   TEXT = EASTERLY ISLAND. Contact between pelitic schist and overlying, structurally concordant, quartz
75Bg0105T          diorite.  I can identify BI, GA, Stau in schist--also possibly HO.  Usual Qtz veins, etc.--most are
75Bg0105T          parallel to foln in schist.  QD is fine grained (chilled), and foliated near ctct w/ pel schist.
75Bg0105T          Contains abundant minute pink garnets.  Contact is sharp, w/o migmatite, apophyses of pluton in
75Bg0105T          schist, or significant inclusions of schist in QD.;
75Bg0105   ----------------------------------------------------------------------------------------------------
#
75Bg0106                STATION = 75ABg0106;
75Bg0106                DATE = 7/19/75;
75Bg0106                QUAD = CR D-1;
75Bg0106                LAT = 55/58/28;
75Bg0106                LONG = 132/00/24;
75Bg0106                PURPOSE = Geol;
75Bg0106
75Bg0106    TEXT-TOPIC = Lith;
75Bg0106
75Bg0106    STRUCTURE;
75Bg0106          FOL-SCH = 145/v;
75Bg0106          FOL-SCH = 315/75;
75Bg0106
75Bg0106SA  SAMPLE NUMBER = 75ABg0106A;
75Bg0106SA        UNIT = Pelitic gneiss;
75Bg0106SA        SOURCE = OTC;
75Bg0106SA        TYPE = Repres;
75Bg0106SA        PURPOSE = Hand spec, T. S.;
75Bg0106SA        DESCRIPTION = Sed, met;
75Bg0106SA        LITH = Pelitic + HO gneiss;
75Bg0106SA        FORM = Layered;
75Bg0106SA        MINS = Qtz, Plag, Hbl, Bio, Garn;
75Bg0106SA        TEXTURE = Gneissic;
75Bg0106SA        CONDITION = Fresh;
75Bg0106SA
75Bg0106SA  SAMPLE NUMBER = 75ABg0106B;
75Bg0106SA        UNIT = Pel Gn;
75Bg0106SA        SOURCE = OTC;
75Bg0106SA        TYPE = Repres;
75Bg0106SA        PURPOSE = Hand spec;
75Bg0106SA        DESCRIPTION = Intr;
75Bg0106SA        LITH = Microdiorite;
75Bg0106SA        FORM = Sill;
75Bg0106SA        CONDITION = Fresh;
75Bg0106SA        REMARKS = Spl of 3 meter Sil from islet 0.1 mi SW of station.;
75Bg0106SA
75Bg0106T   TEXT = CHANGE ISLAND, SEWARD PASSAGE.  Pelitic schist and gneiss containing ptygmatic quartz veins and
75Bg0106T          lenses, and intruded by a few sill-like bodies of plutonic rock, including mafic-rich (HO-BI)
75Bg0106T          angular agmatite.  The metapelite contains QZ, PC, BI, HO, and GA.  Some layers are studied with
75Bg0106T          red Garn porphyroblasts to 1 cm in diam.  Rx are complexly folded, but see no measurable structures
75Bg0106T          due to rain.;
75Bg0106   ----------------------------------------------------------------------------------------------------
#
75Bg0107                STATION = 75ABg0107;
75Bg0107                DATE = 7/19/75;
75Bg0107                QUAD = CR D-1;
75Bg0107                LAT = 55/58/04;
75Bg0107                LONG = 132/00/35;
```

```
3661.   75Bg0107            PURPOSE = Geol;
3662.   75Bg0107
3663.   75Bg0107   TEXT-TOPIC = Lith;
3664.   75Bg0107
3665.   75Bg0107   STRUCTURE;
3666.   75Bg0107        FOL-SCH = 320/65;
3667.   75Bg0107
3668.   75Bg0107SA SAMPLE NUMBER = 75ABg0107A;
3669.   75Bg0107SA      UNIT = Pelitic gneiss;
3670.   75Bg0107SA      SOURCE = OTC;
3671.   75Bg0107SA      TYPE = Repres;
3672.   75Bg0107SA      PURPOSE = Hand spec;
3673.   75Bg0107SA      DESCRIPTION = Sed, met;
3674.   75Bg0107SA      LITH = Pelitic gneiss;
3675.   75Bg0107SA      CONDITION = Fresh;
3676.   75Bg0107SA      REMARKS = 3 specimens to illustrate variation in lithology.;
3677.   75Bg0107SA
3678.   75Bg0107T  TEXT = Pelitic schist and gneiss.  Garnets to 1 cm in diam in some layers.  Ptygmatic Qtz veins.;
3679.   75Bg0107  ----------------------------------------------------------------------------------------------------
3680.   #
3681.   75Bg0108            STATION = 75ABg0108;
3682.   75Bg0108            DATE = 7/19/75;
3683.   75Bg0108            QUAD = CB D-1;
3684.   75Bg0108            LAT = 55/57/37;
3685.   75Bg0108            LONG = 132/00/42;
3686.   75Bg0108            PURPOSE = Geol;
3687.   75Bg0108
3688.   75Bg0108   TEXT-TOPIC = Lith;
3689.   75Bg0108
3690.   75Bg0108   STRUCTURE;
3691.   75Bg0108        FOL-SCH = 320/80;
3692.   75Bg0108        JOINT = 160/5;
3693.   75Bg0108
3694.   75Bg0108SA SAMPLE NUMBER = 75ABg0108A;
3695.   75Bg0108SA      UNIT = Pelitic schist;
3696.   75Bg0108SA      SOURCE = OTC;
3697.   75Bg0108SA      TYPE = Repres;
3698.   75Bg0108SA      PURPOSE = Hand spec;
3699.   75Bg0108SA      LITH = Qtz Dio;
3700.   75Bg0108SA      FORM = Sill?;
3701.   75Bg0108SA      MINS = Qtz, Plag, Hbl, Bio;
3702.   75Bg0108SA      CONDITION = Alter;
3703.   75Bg0108SA      REMARKS = Weathered;
3704.   75Bg0108SA
3705.   75Bg0108SA SAMPLE NUMBER = 75ABg0108B;
3706.   75Bg0108SA      UNIT = Pelitic schist;
3707.   75Bg0108SA      SOURCE = OTC;
3708.   75Bg0108SA      TYPE = Repres;
3709.   75Bg0108SA      PURPOSE = Hand spec;
3710.   75Bg0108SA      DESCRIPTION = Intr;
3711.   75Bg0108SA      LITH = Quartz diorite;
3712.   75Bg0108SA      FORM = Sill;
3713.   75Bg0108SA      MINS = Qtz, Plag, Hbl, Bio;
3714.   75Bg0108SA      REMARKS = Spl coll from SW contact of sill, where coarse QD forms meter thick "layer" at
3715.   75Bg0108SA      REMARKS = angle to tabular contact.;
3716.   75Bg0108SA
3717.   75Bg0108T  TEXT = Foliated and jointed-massive quartz diorite.  Rock weathers dark brown--weathered surface crossed
3718.   75Bg0108T       by raised alteration(?) seams and studded with tiny yellowish-gray plag? crystals.  Foliation
3719.   75Bg0108T       in pluton is concordant with that in country rocks.;
3720.   75Bg0108  ----------------------------------------------------------------------------------------------------
3721.   #
```

```
3722.    75Bg0109              STATION = 75ABg0109;
3723.    75Bg0109              DATE = 7/19/75;
3724.    75Bg0109              QUAD = CR D-1;
3725.    75Bg0109              LAT = 55/57/44;
3726.    75Bg0109              LONG = 132/10/49;
3727.    75Bg0109              PURPOSE = Geol;
3728.    75Bg0109
3729.    75Bg0109   TEXT-TOPIC = Lith, struct;
3730.    75Bg0109
3731.    75Bg0109   STRUCTURE;
3732.    75Bg0109        FOL-SCH = 310/65;
3733.    75Bg0109        AXIAL-PLANE = 298/25;
3734.    75Bg0109        FOLD-AXIS = 318/45;
3735.    75Bg0109
3736.    75Bg0109SA SAMPLE NUMBER = 75ABg0109A;
3737.    75Bg0109SA      UNIT = Pelitic schist;
3738.    75Bg0109SA      SOURCE = OTC;
3739.    75Bg0109SA      TYPE = Repres;
3740.    75Bg0109SA      PURPOSE = Hand spec, T. S.;
3741.    75Bg0109SA      DESCRIPTION = Sed, met;
3742.    75Bg0109SA      LITH = Pelitic schist;
3743.    75Bg0109SA      FORM = Layered;
3744.    75Bg0109SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
3745.    75Bg0109SA      TEXTURE = Nematoblastic;
3746.    75Bg0109SA      CONDITION = Fresh;
3747.    75Bg0109SA      REMARKS = HO prisms to 4 cm long.;
3748.    75Bg0109SA
3749.    75Bg0109T  TEXT = Pelitic schist and gneiss--planar to ptyg Qtz vns.  Numerous small folds, some of wh seem to be
3750.    75Bg0109T        struct discordant with prevailing fol/sch (=comp layerg).  As best I can tell in the rain, met
3751.    75Bg0109T        min assemblage is GA, HO, BI.  Some of the layers cont needlelike HO prisms to 3 or 4 cm long.;
3752.    75Bg0109  ----------------------------------------------------------------------------------------------------
3753.    #
3754.    75Bg0110              STATION = 75ABg0110;
3755.    75Bg0110              DATE = 7/19/75;
3756.    75Bg0110              QUAD = CR D-1;
3757.    75Bg0110              LAT = 55/57/37;
3758.    75Bg0110              LONG = 132/02/23;
3759.    75Bg0110              PURPOSE = Geol;
3760.    75Bg0110
3761.    75Bg0110   TEXT-TOPIC = Lith;
3762.    75Bg0110
3763.    75Bg0110   STRUCTURE;
3764.    75Bg0110        FOL-SCH = 290/80;
3765.    75Bg0110        OTHER-LIN = 105/25 (STR);
3766.    75Bg0110
3767.    75Bg0110SA SAMPLE NUMBER = 75ABg0110A;
3768.    75Bg0110SA      UNIT = Pelitic schist;
3769.    75Bg0110SA      SOURCE = OTC;
3770.    75Bg0110SA      TYPE = Repres;
3771.    75Bg0110SA      PURPOSE = Hand spec, T. S.;
3772.    75Bg0110SA      DESCRIPTION = Sed, met;
3773.    75Bg0110SA      LITH = Staurolite schist;
3774.    75Bg0110SA      MINS = Qtz, Plag, Bio, Ky, Staur, Garn;
3775.    75Bg0110SA      CONDITION = Fresh;
3776.    75Bg0110SA      REMARKS = Ky not confirmed.;
3777.    75Bg0110SA
3778.    75Bg0110T  TEXT = Pelitic schist containing euhedral porphyroblasts of staurolite to a cm or so long.  Some layers
3779.    75Bg0110T        contain what seems to be kyanite, but not sampled.  Qtz (glassy) veins, etc.  Schist & Qtz locally
3780.    75Bg0110T        is iron-stained.  Numerous small folds.;
3781.    75Bg0110  ----------------------------------------------------------------------------------------------------
3782.    #
```

```
3783.    75Bg0111              STATION = 75ABg0111;
3784.    75Bg0111              DATE = 7/19/75;
3785.    75Bg0111              QUAD = CR D-1;
3786.    75Bg0111              LAT = 55/56/57;
3787.    75Bg0111              LONG = 132/02/28;
3788.    75Bg0111              PURPOSE = Geol;
3789.    75Bg0111
3790.    75Bg0111   TEXT-TOPIC = Lith;
3791.    75Bg0111
3792.    75Bg0111   STRUCTURE;
3793.    75Bg0111        FOL-SCH = 278/80;
3794.    75Bg0111        OTHER-LIN = 078/50 (B/C, Boud);
3795.    75Bg0111
3796.    75Bg0111SA SAMPLE NUMBER = 75ABg0111A;
3797.    75Bg0111SA      UNIT = Pelitic schist;
3798.    75Bg0111SA      SOURCE = OTC;
3799.    75Bg0111SA      TYPE = Repres;
3800.    75Bg0111SA      PURPOSE = Hand spec;
3801.    75Bg0111SA      DESCRIPTION = Sed, met;
3802.    75Bg0111SA      MINS = Qtz, Plag, Bio, Ky, Staur, Garn;
3803.    75Bg0111SA      CONDITION = Fresh;
3804.    75Bg0111SA      REMARKS = 2 spls coll as representative of unit.  Ky not confirmed in spls.;
3805.    75Bg0111SA
3806.    75Bg0111T  TEXT = Pelitic sch ca 100 m from ctct w/ QD pluton.  Except loc, there are few apophyses of plut in the
3807.    75Bg0111T        sch, wh seems no more rexld than at other stations more distant from ctct.  Some zones cont
3808.    75Bg0111T        pblsts of GA, Stau, Ky.  Mny Qtz lenses, etc.  Sml folds, rods, other lineations loc
3809.    75Bg0111T        prominent in sch.;
3810.    75Bg0111  ----------------------------------------------------------------------------------------------
3811.    *
3812.    75Bg0112              STATION = 75ABg0112;
3813.    75Bg0112              DATE = 7/19/75;
3814.    75Bg0112              QUAD = CR D-1;
3815.    75Bg0112              LAT = 55/56/54;
3816.    75Bg0112              LONG = 132/02/43;
3817.    75Bg0112              PURPOSE = Geol;
3818.    75Bg0112
3819.    75Bg0112   TEXT-TOPIC = Lith;
3820.    75Bg0112
3821.    75Bg0112   STRUCTURE;
3822.    75Bg0112        FOL-SCH = 75/80 (Pluton);
3823.    75Bg0112        OTHER-LIN = 075/50 (Min in plut);
3824.    75Bg0112        OTHER = Contact 293/60;
3825.    75Bg0112
3826.    75Bg0112SA SAMPLE NUMBER = 75ABg0112A;
3827.    75Bg0112SA      UNIT = Qtz Dio;
3828.    75Bg0112SA      SOURCE = OTC;
3829.    75Bg0112SA      TYPE = Repres;
3830.    75Bg0112SA      PURPOSE = Hand spec;
3831.    75Bg0112SA      DESCRIPTION = Intr;
3832.    75Bg0112SA      LITH = Quartz diorite;
3833.    75Bg0112SA      FORM = Pluton;
3834.    75Bg0112SA      MINS = Qtz, Plag, Kspr, Hbl, Bio, Garn;
3835.    75Bg0112SA      TEXTURE = Porphyritic, foliated;
3836.    75Bg0112SA      CONDITION = Fresh;
3837.    75Bg0112SA
3838.    75Bg0112T  TEXT = Contact between quartz dio pluton and pelitic schist (to N).  Pluton near contact is gneissic
3839.    75Bg0112T        and contains numerous partly to mostly assimilated xenoliths of schist country rock.  The
3840.    75Bg0112T        paragneiss, on the other hand, seems "as usual" right to the contact.  See no migmatite zones
3841.    75Bg0112T        or apophyses w/in paragneiss.  Pluton is feldspar-porphyritic nr ctct, and contains abundant
3842.    75Bg0112T        pink garnet.  Pluton is structurally concordant with pelitic gneiss country rx. (Intrudes
3843.    75Bg0112T        parallel to fol/sch).;
```

```
75Bg0112 ----------------------------------------------------------------------------------------
*
75Bg0113            STATION = 75ABg0113;
75Bg0113            DATE = 7/19/75;
75Bg0113            QUAD = CR D-2;
75Bg0113            LAT = 55/55/36;
75Bg0113            LONG = 132/04/08;
75Bg0113            PURPOSE = Geol;
75Bg0113
75Bg0113   TEXT-TOPIC = Lith;
75Bg0113
75Bg0113   STRUCTURE;
75Bg0113        FOL-SCH = 318/50;
75Bg0113
75Bg0113SA SAMPLE NUMBER = 75ABg0113A;
75Bg0113SA      UNIT = Granodiorite;
75Bg0113SA      SOURCE = OTC;
75Bg0113SA      TYPE = Repres;
75Bg0113SA      PURPOSE = Hand spec;
75Bg0113SA      DESCRIPTION = Intr;
75Bg0113SA      LITH = Granodiorite;
75Bg0113SA      FORM = Pluton;
75Bg0113SA      MINS = Qtz, Plag, Kspr, Bio;
75Bg0113SA      TEXTURE = Hypid granular;
75Bg0113SA      CONDITION = Fresh;
75Bg0113SA
75Bg0113T  TEXT = Foliated granodiorite.  See no GA.  Pluton contains about 2 or 3% of alined mafic inclusions
75Bg0113T        (parallel to fol/sch), plus clots and irregular inclusions without any preferred orientation.
75Bg0113T        Pluton is cut by myriad veinlets that probably are mainly altn seams.  There are also very
75Bg0113T        sparse "lampro" dikes (saw two just S. of Eaton Pt.).  This phase of pluton differs from margin
75Bg0113T        in having more BI, less HO, and no GA--also seems less fol, more leuco (i.e. Granodior).;
75Bg0113 ----------------------------------------------------------------------------------------
*
75Bg0114            STATION = 75ABg0114;
75Bg0114            DATE = 7/19/75;
75Bg0114            QUAD = CR D-1;
75Bg0114            LAT = 55/54/49;
75Bg0114            LONG = 132/03/22;
75Bg0114            PURPOSE = Geol;
75Bg0114
75Bg0114   TEXT-TOPIC = Lith;
75Bg0114
75Bg0114   STRUCTURE;
75Bg0114        FOL-SCH = 295/75;
75Bg0114
75Bg0114SA SAMPLE NUMBER = 75ABg0114A;
75Bg0114SA      UNIT = Granodio;
75Bg0114SA      SOURCE = OTC;
75Bg0114SA      TYPE = Repres;
75Bg0114SA      PURPOSE = Hand spec;
75Bg0114SA      DESCRIPTION = Intr;
75Bg0114SA      LITH = Qtz monz;
75Bg0114SA      FORM = Pluton;
75Bg0114SA      MINS = Qtz, Plag, Kspr, Bio;
75Bg0114SA      CONDITION = Fresh;
75Bg0114SA      REMARKS = Sl weathered rind.  Spl prob is lg enough to date.;
75Bg0114SA
75Bg0114T  TEXT = Foliated, slightly felispar-porphyritic granodiorite containing sparse
75Bg0114T        mafic inclusions and schlieren alined parallel to the foliation.;
75Bg0114 ----------------------------------------------------------------------------------------
*
```

```
75Bg0115            STATION = 75ABg0115;
75Bg0115            DATE = 7/19/75;
75Bg0115            QUAD = CR D-1;
75Bg0115            LAT = 55/54/26;
75Bg0115            LONG = 132/03/08;
75Bg0115            PURPOSE = Geol;
75Bg0115
75Bg0115   TEXT-TOPIC = Lith, Igneous petrology;
75Bg0115
75Bg0115   STRUCTURE;
75Bg0115        FOL-SCH = 300/70;
75Bg0115        OTHER-LIN = 128/40 (E);
75Bg0115
75Bg0115SA SAMPLE NUMBER = 75ABg0115A;
75Bg0115SA      UNIT = Granodio;
75Bg0115SA      SOURCE = OTC;
75Bg0115SA      TYPE = Repres;
75Bg0115SA      PURPOSE = Hand spec;
75Bg0115SA      DESCRIPTION = Intr, met;
75Bg0115SA      LITH = Granodiorite;
75Bg0115SA      MINS = Qtz, Plag, Kspr, Bio;
75Bg0115SA      TEXTURE = Foliated;
75Bg0115SA      CONDITION = Fresh;
75Bg0115SA      REMARKS = Sample adjoins apite dikes 3 cm thick.;
75Bg0115SA
75Bg0115T  TEXT = Lineated and weakly foliated granodiorite containing less than a percent of alined mafic
75Bg0115T        inclusions and cut by white aplite and pegmatite dikes up to 20 or 25 cm thick.  Why increase
75Bg0115T        in abundance of aplite and peg in pluton near ctct w/ pel schist?  Related to, or result of,
75Bg0115T        partial assimilation of paragneiss (i.e. felsic + volatile chem "backlash")?;
75Bg0115  ------------------------------------------------------------------------------------------------
$
75Bg0116            STATION = 75ABg0116;
75Bg0116            DATE = 7/19/75;
75Bg0116            QUAD = CR D-1;
75Bg0116            LAT = 55/53/52;
75Bg0116            LONG = 132/02/49;
75Bg0116            PURPOSE = Geol;
75Bg0116
75Bg0116   TEXT-TOPIC = Lith;
75Bg0116
75Bg0116   STRUCTURE;
75Bg0116        FOL-SCH = 040/65 (Pluton);
75Bg0116        FOL-SCH = 106/v (Pel gneiss);
75Bg0116        OTHER-LIN = 106/50 (FA, B/C);
75Bg0116        OTHER = Contact 068/65;
75Bg0116
75Bg0116SA SAMPLE NUMBER = 75ABg0116A;
75Bg0116SA      UNIT = Pelitic gneiss;
75Bg0116SA      SOURCE = OTC;
75Bg0116SA      TYPE = Repres;
75Bg0116SA      PURPOSE = Hand spec;
75Bg0116SA      DESCRIPTION = Sed, met;
75Bg0116SA      LITH = Pelitic gneiss;
75Bg0116SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0116SA      CONDITION = Fresh;
75Bg0116SA      REMARKS = Spl coll abt 10 m from ctct w/ QD pluton.;
75Bg0116SA
75Bg0116SA SAMPLE NUMBER = 75ABg116B;
75Bg0116SA      UNIT = Quartz diorite;
75Bg0116SA      SOURCE = OTC;
75Bg0116SA      TYPE = Repres;
```

```
3966.   75Bg0116SA      PURPOSE = Hand spec;
3967.   75Bg0116SA      LITH = Qtz diorite;
3968.   75Bg0116SA      MINS = Qtz, Plag, Kspr, Hbl, Bio, Garn;
3969.   75Bg0116SA      TEXTURE = Hypidio gran, foliated;
3970.   75Bg0116SA      CONDITION = Fresh, alter, weathered;
3971.   75Bg0116SA      REMARKS = 3 samples to show variation in QD near contact with pelitic gneiss.;
3972.   75Bg0116SA
3973.   75Bg0116T  TEXT = Contact between GA-bearing QD pluton and pelitic gneiss.  Pluton is strikingly foliated and
3974.   75Bg0116T        locally gneissic near the contact.  Some of the gneissic QD shows complex small folds similar
3975.   75Bg0116T        to those in the pelitic gneiss and could reflect largely assimilated country rock.' The QD near
3976.   75Bg0116T        the contact also contains xenoliths and inclusions of country rock up to a meter or more in max.'
3977.   75Bg0116T        diameter that range from virtually unassimilated to nebulitic.  The paragneiss contains Qtz vns,
3978.   75Bg0116T        etc, but few, if any, apophyses of QD.  Some beds are rich in Garn (to 1/2 cm) but see no large
3979.   75Bg0116T        porphyroblasts of other met. minls.;
3980.   75Bg0116  ----------------------------------------------------------------------------------------------------
3981.   #
3982.   75Bg0117            STATION = 75ABg0117;
3983.   75Bg0117            DATE = 7/20/75;
3984.   75Bg0117            QUAD = CR D-1;
3985.   75Bg0117            LAT = 55/58/37;
3986.   75Bg0117            LONG = 132/12/00;
3987.   75Bg0117            PURPOSE = Geol;
3988.   75Bg0117
3989.   75Bg0117   TEXT-TOPIC = Lith;
3990.   75Bg0117
3991.   75Bg0117   STRUCTURE;
3992.   75Bg0117        FOL-SCH = 332/55;
3993.   75Bg0117        FOL-SCH = 003/50;
3994.   75Bg0117        AXIAL-PLANE = 308/65;
3995.   75Bg0117        AXIAL-PLANE = 282/76;
3996.   75Bg0117        FOLD-AXIS = 120/40;
3997.   75Bg0117        FOLD-AXIS = 95/60 (PTYG);
3998.   75Bg0117        OTHER-LIN = 103/27 (M, B/C);
3999.   75Bg0117
4000.   75Bg0117SA SAMPLE NUMBER = 75ABg0117A;
4001.   75Bg0117SA      UNIT = Pelitic gneiss;
4002.   75Bg0117SA      SOURCE = OTC;
4003.   75Bg0117SA      TYPE = Repres;
4004.   75Bg0117SA      PURPOSE = Hand spec, T. S.;
4005.   75Bg0117SA      DESCRIPTION = Sed, met;
4006.   75Bg0117SA      LITH = Meta pelite;
4007.   75Bg0117SA      MINS = Qtz, Plag, Bio, Ky, Sill, Garn;
4008.   75Bg0117SA      TEXTURE = Schistose;
4009.   75Bg0117SA      CONDITION = Fresh;
4010.   75Bg0117SA
4011.   75Bg0117SA SAMPLE NUMBER = 75ABg0117B;
4012.   75Bg0117SA      UNIT = Pelitic gneiss;
4013.   75Bg0117SA      SOURCE = OTC;
4014.   75Bg0117SA      TYPE = Repres;
4015.   75Bg0117SA      PURPOSE = Hand spec, T. S.;
4016.   75Bg0117SA      DESCRIPTION = Sed, met;
4017.   75Bg0117SA      LITH = Metapelite;
4018.   75Bg0117SA      MINS = Qtz, Bio, Sill, Staur, Garn;
4019.   75Bg0117SA      TEXTURE = Schistose;
4020.   75Bg0117SA      CONDITION = Fresh;
4021.   75Bg0117SA      REMARKS = Sil not confirmed.;
4022.   75Bg0117SA
4023.   75Bg0117SA SAMPLE NUMBER = 75ABg0117C;
4024.   75Bg0117SA      UNIT = Pelitic gneiss;
4025.   75Bg0117SA      SOURCE = OTC;
4026.   75Bg0117SA      TYPE = Repres;
```

```
4027.   75Bg0117SA      PURPOSE = Hand spec, T. S.;
4028.   75Bg0117SA      DESCRIPTION = Sed, met;
4029.   75Bg0117SA      LITH = Metapelite;
4030.   75Bg0117SA      MINS = Bio, Garn;
4031.   75Bg0117SA      CONDITION = Fresh;
4032.   75Bg0117SA
4033.   75Bg0117T  TEXT = PT. PETERS, DEER ISLAND.  Pelitic schist and gneiss containing conspicuous porphyroblasts of 3A,
4034.   75Bg0117T        STAU, Sil?, and BI.  There may also be some KY, but this mineral is not confirmed.  There is also
4035.   75Bg0117T        an abundant prismatic to tabular mineral that weathers white and commonly has Garn core.
4036.   75Bg0117T        Probably is kyanite.  The unit is complexly folded, w/ many ptygmatic Qtz veins.
4037.   75Bg0117T        Buddington (1929) noted this locality for its especially well developed Sil & STAUR.;
4038.   75Bg0117  ----------------------------------------------------------------------------------------------
4039.   #
4040.   75Bg0118            STATION = 75ABg0118;
4041.   75Bg0118            DATE = 7/20/75;
4042.   75Bg0118            QUAD = CR D-1;
4043.   75Bg0118            LAT = 55/58/36;
4044.   75Bg0118            LONG = 132/01/29;
4045.   75Bg0118            PURPOSE = Geol;
4046.   75Bg0118
4047.   75Bg0118   TEXT-TOPIC = Lith;
4048.   75Bg0118
4049.   75Bg0118   STRUCTURE;
4050.   75Bg0118        FOL-SCH = 348/80;
4051.   75Bg0118        OTHER = Sil 348/80;
4052.   75Bg0118
4053.   75Bg0118SA SAMPLE NUMBER = 75ABg0118A;
4054.   75Bg0118SA      UNIT = Pelitic gneiss;
4055.   75Bg0118SA      SOURCE = OTC;
4056.   75Bg0118SA      TYPE = Repres;
4057.   75Bg0118SA      PURPOSE = Hand spec;
4058.   75Bg0118SA      DESCRIPTION = Intr, met;
4059.   75Bg0118SA      LITH = Qtz Diorite;
4060.   75Bg0118SA      FORM = Sill;
4061.   75Bg0118SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
4062.   75Bg0118SA      TEXTURE = Foliated;
4063.   75Bg0118SA      CONDITION = Fresh;
4064.   75Bg0118SA      REMARKS = Sample coll abt 2 m fr ctct w/ pel gn.;
4065.   75Bg0118SA
4066.   75Bg0118SA SAMPLE NUMBER = 75ABg0118B;
4067.   75Bg0118SA      UNIT = Pelitic gneiss;
4068.   75Bg0118SA      SOURCE = OTC;
4069.   75Bg0118SA      TYPE = Repres;
4070.   75Bg0118SA      PURPOSE = Hand spec;
4071.   75Bg0118SA      DESCRIPTION = Sed, met;
4072.   75Bg0118SA      LITH = Pelitic gneiss;
4073.   75Bg0118SA      FORM = Layered;
4074.   75Bg0118SA      MINS = Qtz, Bio, Garn;
4075.   75Bg0118SA      TEXTURE = Foliated, granoblastic;
4076.   75Bg0118SA      CONDITION = Fresh;
4077.   75Bg0118SA      REMARKS = 3 spls coll abt 20 cm fr ctct w/ Qtz dio sill.;
4078.   75Bg0118SA
4079.   75Bg0118T  TEXT = Thinly to moderately thickly layered (1 cm to 25 cm) pelitic gneiss intruded by subparallel 3A-
4080.   75Bg0118T        bearing foliated quartz diorite sills ranging from about a meter to 10 meters thick.  The
4081.   75Bg0118T        metapelite is baked for a distance of up to 25 cm from the contact with the sills.;
4082.   75Bg0118  ----------------------------------------------------------------------------------------------
4083.   #
4084.   75Bg0119            STATION = 75ABg0119;
4085.   75Bg0119            DATE = 7/20/75;
4086.   75Bg0119            QUAD = CR D-1;
4087.   75Bg0119            LAT = 55/58/57;
```

```
4088.   75Bg0119            LONG = 132/00/50;
4089.   75Bg0119            PURPOSE = Geol;
4090.   75Bg0119
4091.   75Bg0119   TEXT-TOPIC = Lith;
4092.   75Bg0119
4093.   75Bg0119   STRUCTURE;
4094.   75Bg0119        FOL-SCH = C43/85;
4095.   75Bg0119        FOLD-AXIS = 075/40;
4096.   75Bg0119
4097.   75Bg0119SA SAMPLE NUMBER = 75ABg0119A;
4098.   75Bg0119SA      UNIT = Pelitic gneiss;
4099.   75Bg0119SA      SOURCE = OTC;
4100.   75Bg0119SA      TYPE = Repres;
4101.   75Bg0119SA      PURPOSE = Hand spec;
4102.   75Bg0119SA      DESCRIPTION = Sed, met;
4103.   75Bg0119SA      LITH = Pelitic gneiss;
4104.   75Bg0119SA      FORM = Layered;
4105.   75Bg0119SA      MINS = Qtz, Plag, Bio, Ky, Sill, Garn;
4106.   75Bg0119SA      CONDITION = Alter;
4107.   75Bg0119SA      REMARKS = Somewhat weathered.  Sil not confirmed.;
4108.   75Bg0119SA
4109.   75Bg0119T  TEXT = Pelitic gneiss containing conspicuous garnet and white-weathering mineral that probably is
4110.   75Bg0119T       kyanite.  Coastal outcrops between 118 and 119 are abt 90% pel gn and 10% QD (and poss one or
4111.   75Bg0119T       two lamprophyre?) sills and semiconcordant dikes.  Large swings in strike of vertical gneiss
4112.   75Bg0119T       suggest folding about moderate to steep E NE-plunging axes.  I suspect this is a "later" fold
4113.   75Bg0119T       system.;
4114.   75Bg0119  ----------------------------------------------------------------------------------------------
4115.   *
4116.   75Bg0120            STATION = 75ABg0120;
4117.   75Bg0120            DATE = 7/20/75;
4118.   75Bg0120            QUAD = CR D-1;
4119.   75Bg0120            LAT = 55/59/12;
4120.   75Bg0120            LONG = 132/00/26;
4121.   75Bg0120            PURPOSE = Geol;
4122.   75Bg0120
4123.   75Bg0120   TEXT-TOPIC = Lith;
4124.   75Bg0120
4125.   75Bg0120   STRUCTURE;
4126.   75Bg0120        FOL-SCH = 220/75;
4127.   75Bg0120
4128.   75Bg0120SA SAMPLE NUMBER = 75ABg0120A;
4129.   75Bg0120SA      UNIT = Pelitic gneiss;
4130.   75Bg0120SA      SOURCE = OTC;
4131.   75Bg0120SA      TYPE = Repres;
4132.   75Bg0120SA      PURPOSE = Hand spec;
4133.   75Bg0120SA      DESCRIPTION = Sed, met;
4134.   75Bg0120SA      LITH = Sillimanite-GA schist;
4135.   75Bg0120SA      FORM = Layered;
4136.   75Bg0120SA      MINS = Qtz, Bio, Sill, Garn;
4137.   75Bg0120SA      TEXTURE = Coarse porphyroblastic;
4138.   75Bg0120SA      CONDITION = Fresh;
4139.   75Bg0120SA      REMARKS = 3 samples.;
4140.   75Bg0120SA
4141.   75Bg0120T  TEXT = Pelitic gneiss containing porphyroblasts of Garn to 1 cm in diam and of sillimanite to 5 cm
4142.   75Bg0120T       long and 1 cm in diam.  These Sil crystals are the largest I have ever seen.
4143.   75Bg0120T       Unfortunately, outcrop is a rock that is submerged at high tide, but I'm pretty sure similar
4144.   75Bg0120T       material occurs along the coastline nearby.;
4145.   75Bg0120  ----------------------------------------------------------------------------------------------
4146.   *
4147.   75Bg0121            STATION = 75ABg0121;
4148.   75Bg0121            DATE = 7/20/75;
```

```
75Bg0121              QUAD = CR D-1;
75Bg0121              LAT = 55/59/37;
75Bg0121              LONG = 132/00/12;
75Bg0121              PURPOSE = Geol;
75Bg0121
75Bg0121   TEXT-TOPIC = Lith, Reg geol/tect;
75Bg0121
75Bg0121   STRUCTURE;
75Bg0121        FOL-SCH = 163/80;
75Bg0121        FOLD-AXIS = 163/20;
75Bg0121        OTHER = Boudins 308/60;
75Bg0121        OTHER = QD Sil 163/80;
75Bg0121
75Bg0121SA SAMPLE NUMBER = 75ABg0121A;
75Bg0121SA      UNIT = Paragneiss;
75Bg0121SA      SOURCE = OTC;
75Bg0121SA      TYPE = Repres;
75Bg0121SA      PURPOSE = Hand spec;
75Bg0121SA      DESCRIPTION = Intr, met;
75Bg0121SA      LITH = Quartz diorite;
75Bg0121SA      FORM = Sill;
75Bg0121SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0121SA      TEXTURE = Foliated-gneissic;
75Bg0121SA      CONDITION = Fresh;
75Bg0121SA
75Bg0121SA SAMPLE NUMBER = 75ABg0121B;
75Bg0121SA      UNIT = Paragneiss;
75Bg0121SA      SOURCE = OTC;
75Bg0121SA      TYPE = Repres;
75Bg0121SA      PURPOSE = Hand spec;
75Bg0121SA      DESCRIPTION = Sed, met;
75Bg0121SA      LITH = Pelitic gneiss;
75Bg0121SA      FORM = Layered;
75Bg0121SA      MINS = Qtz, Plag, Bio, Sill, Garn;
75Bg0121SA      TEXTURE = Foliated-gneissic;
75Bg0121SA      CONDITION = Fresh;
75Bg0121SA      REMARKS = 2 spls.;
75Bg0121SA
75Bg0121T  TEXT = Pelitic gneiss and garnet-bearing QD sill about 5 meters thick.  The Sil is foliated and its
75Bg0121T        foliation is parallel to that in the paragneiss, making it difficult to distinguish with
75Bg0121T        certainty, especially near its contact.  I believe that these "sills" will become more and more
75Bg0121T        difficult to distinguish from the paragneiss as they approach the "main" Coast Range plutonic-
75Bg0121T        metamorphic complex to the NE.  In any event, this sill is foliated and gneissic and certainly
75Bg0121T        "looks metamorphosed".;
75Bg0121  ------------------------------------------------------------------------------------------------
#
75Bg0122              STATION = 75ABg0122;
75Bg0122              DATE = 7/20/75;
75Bg0122              QUAD = CR D-1;
75Bg0122              LAT = 55/59/57;
75Bg0122              LONG = 132/00/09;
75Bg0122              PURPOSE = Geol;
75Bg0122
75Bg0122   TEXT-TOPIC = Lith, Reg geol/tect;
75Bg0122
75Bg0122   STRUCTURE;
75Bg0122        FOL-SCH = 165/75-85;
75Bg0122        AXIAL-PLANE = 284/v;
75Bg0122        FOLD-AXIS = 306/50;
75Bg0122
75Bg0122SA SAMPLE NUMBER = 75ABg0122A;
```

```
4210.    75Bg0122SA      UNIT = Pelitic gneiss;
4211.    75Bg0122SA      SOURCE = OTC;
4212.    75Bg0122SA      TYPE = Repres;
4213.    75Bg0122SA      PURPOSE = Hand spec;
4214.    75Bg0122SA      DESCRIPTION = Sed, met;
4215.    75Bg0122SA      LITH = Pelitic gneiss;
4216.    75Bg0122SA      FORM = Layered;
4217.    75Bg0122SA      MINS = Qtz, Plag, Bio, Sill, Garn;
4218.    75Bg0122SA      CONDITION = Fresh, alter;
4219.    75Bg0122SA      REMARKS = Weathered. 2 specimens.;
4220.    75Bg0122SA
4221.    75Bg0122T  TEXT = Rusty-brown weathering pelitic gneiss.  Locally iron-stained quartz veins, lenses parallel
4222.    75Bg0122T         to the foliation.  Some layers of paragneiss contain white weathering Sil  porphyroblasts to
4223.    75Bg0122T         3 or 4 cm long and 1/2 cm in diam.  Many of these are tabular parallel to the foliation.
4224.    75Bg0122T         Garn pblsts to 1 cm.  Some layers are so thoroughly reconstituted that from a distance they could
4225.    75Bg0122T         be mistaken for gneissic plutonic rock.  This unit is virtually identical to "PARAGNEISS"
4226.    75Bg0122T         unit in Granite Fiords.;
4227.    75Bg0122  ----------------------------------------------------------------------------------------------
4228.    #
```

```
75Bg0123            STATION = 75ABg0123;
75Bg0123            DATE = 7/22/75;
75Bg0123            QUAD = KC B-6;
75Bg0123            LAT = 55/29/55;
75Bg0123            LONG = 131/58/58;
75Bg0123            PURPOSE = Geol, geochem;
75Bg0123
75Bg0123   TEXT-TOPIC = Lith;
75Bg0123
75Bg0123   STRUCTURE;
75Bg0123        FOL-SCH = 355/80;
75Bg0123        FAULT-SHEAR = 250/v;
75Bg0123
75Bg0123SA SAMPLE NUMBER = 75ABg0123A;
75Bg0123SA      UNIT = KJgv;
75Bg0123SA      SOURCE = OTC;
75Bg0123SA      TYPE = Repres;
75Bg0123SA      PURPOSE = Hand spec;
75Bg0123SA      DESCRIPTION = Extr, met;
75Bg0123SA      LITH = An metatuff;
75Bg0123SA
75Bg0123SA      MINS = Plag, Carb, Act, Chl, Ep/Clz;
75Bg0123SA      TEXTURE = Aphanitic;
75Bg0123SA      CONDITION = Fresh;
75Bg0123SA
75Bg0123SA SAMPLE NUMBER = 75ABg0123B;
75Bg0123SA      UNIT = KJgv;
75Bg0123SA      SOURCE = OTC;
75Bg0123SA      TYPE = Repres;
75Bg0123SA      PURPOSE = Hand spec;
75Bg0123SA      DESCRIPTION = Extr, met;
75Bg0123SA      LITH = Andesitic metatuff;
75Bg0123SA      FORM = Bedded;
75Bg0123SA      MINS = Plag, Carb, Act, Chl, Ep/Clz;
75Bg0123SA      TEXTURE = Relic porphyritic;
75Bg0123SA      CONDITION = Fresh;
75Bg0123SA
75Bg0123SA SAMPLE NUMBER = 75ABg0123C;
75Bg0123SA      UNIT = KJgv;
75Bg0123SA      SOURCE = OTC;
75Bg0123SA      TYPE = Repres;
75Bg0123SA      PURPOSE = Hand spec, spec;
75Bg0123SA      DESCRIPTION = Extr, met;
75Bg0123SA      LITH = An metatuff;
75Bg0123SA      MINS = Plag, Py, Act, Chl, Ep/Clz;
75Bg0123SA      CONDITION = Alter;
75Bg0123SA      REMARKS = Orange-weathering andesitic metatuff.  Py not confirmed.;
75Bg0123SA
75Bg0123T  TEXT = CAMANO PT LIGHT.
75Bg0123T       Blue-green to bright apple-green, plus minor bright orange-weathering andesitic metatuff and
75Bg0123T       agglomerate.  The unit is massive--comp. layering local and difficult to see.
75Bg0123T       Femag xls (relict phenos) are abundant in some layers, but unit genly is aphanitic.
75Bg0123T       Epidote, calcite veinlets.  Orange weathering is a rind over green meta-andesite.  Zones may be
75Bg0123T       related to bedding.  Unit is identical to Gravina Island Formation metavolcanics.;
75Bg0123  ------------------------------------------------------------------------------------------
*
75Bg0124            STATION = 75ABg0124;
75Bg0124            DATE = 7/22/75;
75Bg0124            QUAD = KC B-6;
75Bg0124            LAT = 55/29/55;
```

```
61.     75Bg0124              LONG = 131/58/09;
62.     75Bg0124              PURPOSE = Geol, geochem;
63.     75Bg0124
64.     75Bg0124    STRUCTURE:
65.     75Bg0124         FOL-SCH = 318/65;
66.     75Bg0124         FOLD-AXIS = 138/25-50 (wrinkles);
67.     75Bg0124
68.     75Bg0124SA SAMPLE NUMBER = 75ABg0124A;
69.     75Bg0124SA       UNIT = KJgv;
70.     75Bg0124SA       SOURCE = OTC;
71.     75Bg0124SA       TYPE = Repres;
72.     75Bg0124SA       PURPOSE = Spec;
73.     75Bg0124SA       LITH = Qz+Carb+Phyll;
75.     75Bg0124SA       MINS = Qtz, Carb;
76.     75Bg0124SA       CONDITION = Alter;
77.     75Bg0124SA       REMARKS = Fe-stained (rusty-weath);
78.     75Bg0124SA
79.     75Bg0124T  TEXT = CAMANO PT.
80.     75Bg0124T        Numerous veins and lenses of white quartz and orange-brown (rusty) weathering ferruginous carbonate
81.     75Bg0124T        (dolomite?). Country rock is minutely wrinkled calcareous green phyllitic and pebbly metatuff.;
82.     75Bg0124  ----------------------------------------------------------------------------------------------------
83.     *
84.     75Bg0125              STATION = 75ABg0125;
85.     75Bg0125              DATE = 7/22/75;
86.     75Bg0125              QUAD = KC C-6;
87.     75Bg0125              LAT = 55/30/48;
88.     75Bg0125              LONG = 131/57/50;
89.     75Bg0125              PURPOSE = Geol, geochem;
90.     75Bg0125
91.     75Bg0125    TEXT-TOPIC = Lith;
92.     75Bg0125
93.     75Bg0125    STRUCTURE:
94.     75Bg0125         FOL-SCH = 333/82;
95.     75Bg0125         OTHER-LIN = 105/50 (B/C);
96.     75Bg0125
97.     75Bg0125SA SAMPLE NUMBER = 75ABg0125A;
98.     75Bg0125SA       UNIT = Phyllite;
99.     75Bg0125SA       SOURCE = OTC;
100.    75Bg0125SA       TYPE = Repres, Comp;
101.    75Bg0125SA       PURPOSE = Spec;
102.    75Bg0125SA       DESCRIPTION = Sed, met;
103.    75Bg0125SA       LITH = Pyrite;
104.    75Bg0125SA       FORM = Xls in phyllite;
105.    75Bg0125SA       MINS = Py;
106.    75Bg0125SA       TEXTURE = Euhedral xls to 1.5 cm;
107.    75Bg0125SA       CONDITION = Alter;
108.    75Bg0125SA       REMARKS = Slightly iron stained pyrite in phyllite.;
109.    75Bg0125SA
110.    75Bg0125SA SAMPLE NUMBER = 75ABg0125B;
111.    75Bg0125SA       UNIT = Phyllite;
112.    75Bg0125SA       SOURCE = OTC;
113.    75Bg0125SA       TYPE = Repres, Comp;
114.    75Bg0125SA       PURPOSE = Spec;
115.    75Bg0125SA       LITH = Quartz + pyrite;
116.    75Bg0125SA       FORM = Vein;
117.    75Bg0125SA       MINS = Qtz, Py;
118.    75Bg0125SA       TEXTURE = Msv;
119.    75Bg0125SA       CONDITION = Fresh;
120.    75Bg0125SA
121.    75Bg0125T  TEXT = Pyritic, quartz-carbonate veined, dark gray and brownish gray phyllitic siltstone, mudstone, and
122.    75Bg0125T        silty limestone. This unit lies east of massive to phyllitic andesite metatuff and agglomerate.
```

```
75Bg0125T        Some Qtz vns contain rusty-weathering pyritic masses up to 12 cm long and 5 cm thick.;
75Bg0125 ----------------------------------------------------------------------------------------------
*
75Bg0126              STATION = 75ABg0126;
75Bg0126              DATE = 7/22/75;
75Bg0126              QUAD = KC C-6;
75Bg0126              LAT = 55/32/49;
75Bg0126              LONG = 131/56/28;
75Bg0126              PURPOSE = Geol;
75Bg0126
75Bg0126   TEXT-TOPIC = Lith;
75Bg0126
75Bg0126   STRUCTURE:
75Bg0126        FOL-SCH = 336/34;
75Bg0126        JOINT = 156/78;
75Bg0126
75Bg0126SA SAMPLE NUMBER = 75ABg0126A;
75Bg0126SA      UNIT = KJgv;
75Bg0126SA      SOURCE = OTC;
75Bg0126SA      TYPE = Repres;
75Bg0126SA      PURPOSE = Hand spec;
75Bg0126SA      DESCRIPTION = Extr, met;
75Bg0126SA      LITH = Andesitic metatuff;
75Bg0126SA      MINS = Plag, Carb, Act, Chl, Ep/Clz;
75Bg0126SA      TEXTURE = Phyllitic;
75Bg0126SA      CONDITION = Fresh;
75Bg0126SA
75Bg0126T  TEXT = Bright to muted green, phyllitic to massive, andesitic metatuff and agglomerate.  Locally
75Bg0126T        abundant relict femag phenocrysts to 1 cm.  Rusty weathering carbonate streaks and lenses to 3
75Bg0126T        or 4 cm long parallel the foliation.
75Bg0126T        From point at NE mouth of Bond Bay, rocks are all green weathering andesitic metatuff and
75Bg0126T        agglomerate.  Rusty-weathering zones a few hundred meters apart might be related to original
75Bg0126T        bedding in this thick-bedded unit.;
75Bg0126 ----------------------------------------------------------------------------------------------
*
75Bg0127              STATION = 75ABg0127;
75Bg0127              DATE = 7/23/75;
75Bg0127              QUAD = KC C-6;
75Bg0127              LAT = 55/34/22;
75Bg0127              LONG = 131/56/32;
75Bg0127              PURPOSE = Geol;
75Bg0127
75Bg0127   TEXT-TOPIC = Lith;
75Bg0127
75Bg0127   STRUCTURE:
75Bg0127        FOL-SCH = 332/65;
75Bg0127        JOINT = 60/74;
75Bg0127        OTHER-LIN = 097/50 (B/C);
75Bg0127
75Bg0127SA SAMPLE NUMBER = 75ABg0127A;
75Bg0127SA      UNIT = KJgv;
75Bg0127SA      SOURCE = Rubble;
75Bg0127SA      TYPE = Reptes;
75Bg0127SA      PURPOSE = Hand spec;
75Bg0127SA      DESCRIPTION = Extr, Met;
75Bg0127SA      LITH = Metatuff;
75Bg0127SA      FORM = Layered;
75Bg0127SA      MINS = Plag, Carb, Act, Chl, Ep/Clz;
75Bg0127SA      TEXTURE = Relict fragmental and porphyritic;
75Bg0127SA      CONDITION = Fresh;
75Bg0127SA
```

```
75Bg0127T  TEXT = Bright green weathering andesitic metatuff and agglomerate.  Most of the rocks are fissile-
75Bg0127T        phyllitic--some are relatively massive--they are foliated, but w/o fissility.
75Bg0127T        Fol/sch = comp layerg.
75Bg0127T        Rx commonly are fragmental--clasts are mostly, if not entirely, metavolcanic (incl famag xl-
75Bg0127T        bearing ones)--commonly strongly flattened parallel to foliation--grade downward in size from 20
75Bg0127T        cm or more in max dimension to sand-size particles.  Some of the more phyllitic layers are
75Bg0127T        strikingly rich in relict femag phenos (to 2 cm in size).;
75Bg0127  ----------------------------------------------------------------------------------------------------
#
75Bg0128              STATION = 75ABg0128;
75Bg0128              DATE = 7/23/75;
75Bg0128              QUAD = KC C-6;
75Bg0128              LAT = 55/35/02;
75Bg0128              LONG = 131/57/08;
75Bg0128              PURPOSE = Geol;
75Bg0128
75Bg0128   TEXT-TOPIC = Lith;
75Bg0128
75Bg0128   STRUCTURE;
75Bg0128        FOL-SCH = 310/65;
75Bg0128        CLEAVAGE = 230/60 (Ap to kinks);
75Bg0128        JOINT = 220/60-v;
75Bg0128        OTHER-LIN = 80/50 (B/C);
75Bg0128        OTHER = Slicks 300/05 (in fol/sch);
75Bg0128
75Bg0128SA SAMPLE NUMBER = 75ABg0128A;
75Bg0128SA      UNIT = KJgv;
75Bg0128SA      SOURCE = Float;
75Bg0128SA      TYPE = Repres;
75Bg0128SA      PURPOSE = Hand spec;
75Bg0128SA      DESCRIPTION = Extr, sed, met;
75Bg0128SA      LITH = Metatuff;
75Bg0128SA      MINS = Plag, Carb, Act, Chl, Ep/Clz;
75Bg0128SA      TEXTURE = Feldspar-porphyritic;
75Bg0128SA
75Bg0128T  TEXT = Bright green phyllitic metatuff and agglom containing a few zones up to a meter wide of dark
75Bg0128T        gray phyllitic sedimentary rock.  At station, gray phyllite occurs in only a few zones not more
75Bg0128T        that 6 cm or so thick.
75Bg0128T        Unit is more phyllitic, less coarsely fragmental than at 127--most is femag-xl bearing, but at
75Bg0128T        least some is relic feldspar-porphyritic.
75Bg0128T        Locally prominent Qtz +- Carb veins, pods, etc.  Rx resemble xsitional beds between metavolcs and metaseds;
75Bg0128  ----------------------------------------------------------------------------------------------------
#
75Bg0129              STATION = 75ABg0129;
75Bg0129              DATE = 7/23/75;
75Bg0129              QUAD = KC C-6;
75Bg0129              LAT = 55/35/24;
75Bg0129              LONG = 131/57/12;
75Bg0129              PURPOSE = Geol, geochem;
75Bg0129
75Bg0129   TEXT-TOPIC = Lith;
75Bg0129
75Bg0129   STRUCTURE;
75Bg0129        FOL-SCH = 285/80;
75Bg0129        JOINT = 190/v;
75Bg0129
75Bg0129SA SAMPLE NUMBER = 75ABg0129A;
75Bg0129SA      UNIT = KJgv;
75Bg0129SA      SOURCE = OTC;
75Bg0129SA      TYPE = Repres;
```

```
75Bg0129SA      PURPOSE = Spec;
75Bg0129SA      LITH = Qtz - Py;
75Bg0129SA      FORM = Vein;
75Bg0129SA      MINS = Qtz, Py;
75Bg0129SA      CONDITION = Fresh;
75Bg0129SA      REMARKS = 3 x 10 cm pyritic quartz lens in green phytc mtff.;
75Bg0129SA
75Bg0129T  TEXT = Phyllitic metatuff and minor agglomerate.  Rk contains numerous veinlets of Qtz +- Carb parallel
75Bg0129T        to the foliation.  Average thickness about 2 or 3 cm.  Some contain Py.;
75Bg0129  ------------------------------------------------------------------------------------------------------
#
75Bg0130             STATION = 75ABg0130;
75Bg0130             DATE = 7/23/75;
75Bg0130             QUAD = KC C-6;
75Bg0130             LAT = 55/35/24;
75Bg0130             LONG = 131/57/00;
75Bg0130             PURPOSE = Geol;
75Bg0130
75Bg0130   TEXT-TOPIC = Lith;
75Bg0130
75Bg0130   STRUCTURE;
75Bg0130        JOINT = 220/80;
75Bg0130
75Bg0130SA SAMPLE NUMBER = 75ABg0130A;
75Bg0130SA      UNIT = Metadiorite;
75Bg0130SA      SOURCE = OTC;
75Bg0130SA      TYPE = Repres;
75Bg0130SA      PURPOSE = Hand spec;
75Bg0130SA      DESCRIPTION = Intr, Met;
75Bg0130SA      LITH = Metadiorite;
75Bg0130SA      FORM = Pluton;
75Bg0130SA      MINS = Plag, Act, Chl, Ep/Clz;
75Bg0130SA      TEXTURE = Hypidio gran;
75Bg0130SA      CONDITION = Fresh;
75Bg0130SA
75Bg0130T  TEXT = Massive/jointed metadiorite.  This mafic rock is mostly granitoid in texture and consists
75Bg0130T        chiefly of mafics and plagioclase.  Some of the rock is weakly femag-porphyritic--some is
75Bg0130T        crudely foliated.  This intrusive most likely is genetically linked to the Gravina Island Fm.
75Bg0130T        metavolcs, and may also be connected w/ genesis of metalliferous lodes in the Helm Bay area.
75Bg0130T        Country rocks N of ctct are bleached locally and cont Qtz veins to 25 cm in tkns.  See no
75Bg0130T        migmatite or intense thermal aureole.;
75Bg0130  ------------------------------------------------------------------------------------------------------
#
75Bg0131             STATION = 75ABg0131;
75Bg0131             DATE = 7/23/75;
75Bg0131             QUAD = KC C-6;
75Bg0131             LAT = 55/35/11;
75Bg0131             LONG = 131/56/34;
75Bg0131             PURPOSE = Geol;
75Bg0131
75Bg0131   TEXT-TOPIC = Lith;
75Bg0131
75Bg0131   STRUCTURE;
75Bg0131        FOL-SCH = 112/73 (in country rx);
75Bg0131
75Bg0131SA SAMPLE NUMBER = 75ABg0131A;
75Bg0131SA      UNIT = Metadiorite;
75Bg0131SA      SOURCE = OTC;
75Bg0131SA      TYPE = Repres;
75Bg0131SA      PURPOSE = Hand spec;
75Bg0131SA      DESCRIPTION = Intr, Met;
```

```
75Bg0131SA      LITH = Metadiorite;
75Bg0131SA      FORM = Pluton;
75Bg0131SA      MINS = Plag, Carb, Act, Chl, Ep/Clz;
75Bg0131SA      CONDITION = Fresh;
75Bg0131SA
75Bg0131T  TEXT = Contact betw metadiorite and metamorphic bedded rocks to SW.  The metadio is a little "greener"
75Bg0131T        than the rock at 130--it contains partly assimilated xenoliths of country rock--it is crossed
75Bg0131T        by a few Qz-Carb veins--locally, it is difficult to disting. from relic fesag-porphyritic
75Bg0131T        andesitic metatuff.  Last feature strengthens assumption that pluton is prob. cogenetic w/
75Bg0131T        metavolcs of G.I.F.  The country rocks across inlet to SW contain abundant Qz-Carb veins, etc.,
75Bg0131T        but they are not particularly abundant adjacent to the metadio ctct.  At station, the rx are mostly
75Bg0131T        green weath metatuff--there is also a 10-meter zone of dark gy phyllitic metasedS.  Adjacent to
75Bg0131T        ctct, country rocks are hornfelsed and locally iron-stained.;
75Bg0131  ------------------------------------------------------------------------------------------------
#
75Bg0132            STATION = 75ABg0132;
75Bg0132            DATE = 7/23/75;
75Bg0132            QUAD = KC C-6;
75Bg0132            LAT = 55/35/11;
75Bg0132            LONG = 131/56/05;
75Bg0132            PURPOSE = Geol;
75Bg0132
75Bg0132   TEXT-TOPIC = Lith;
75Bg0132
75Bg0132   STRUCTURE;
75Bg0132        FOL-SCR = 198/v;
75Bg0132        JOINT = 112/20;
75Bg0132        JOINT = 005/85;
75Bg0132        JOINT = 250/v;
75Bg0132
75Bg0132SA SAMPLE NUMBER = 75ABg0132A;
75Bg0132SA      UNIT = Metadiorite;
75Bg0132SA      SOURCE = OTC;
75Bg0132SA      TYPE = Repres;
75Bg0132SA      PURPOSE = Hand spec;
75Bg0132SA      DESCRIPTION = Intr, met;
75Bg0132SA      LITH = Metadiorite;
75Bg0132SA      FORM = Pluton;
75Bg0132SA      MINS = Plag, Act, Chl, Ep/Clz;
75Bg0132SA      TEXTURE = Hypid to porphyritic;
75Bg0132SA      CONDITION = Fresh;
75Bg0132SA
75Bg0132T  TEXT = Metadiorite.  Somewhat more leucocratic than rk @ 131.  Loc fol to wkly gneissic.;
75Bg0132  ------------------------------------------------------------------------------------------------
#
75Bg0133            STATION = 75ABg0133;
75Bg0133            DATE = 7/23/75;
75Bg0133            QUAD = KC C-6;
75Bg0133            LAT = 55/34/52;
75Bg0133            LONG = 131/55/36;
75Bg0133            PURPOSE = Geol;
75Bg0133
75Bg0133   TEXT-TOPIC = Lith;
75Bg0133
75Bg0133   STRUCTURE;
75Bg0133        JOINT = 142/20;
75Bg0133
75Bg0133T  TEXT = Jointed, hornfelsed andesitic metatuff.  No sample.;
75Bg0133  ------------------------------------------------------------------------------------------------
#
75Bg0134            STATION = 75ABg0134;
```

```
366.    75Bg0134            DATE = 7/23/75;
367.    75Bg0134            QUAD = KC C-6;
368.    75Bg0134            LAT = 55/35/37;
369.    75Bg0134            LONG = 131/56/25;
370.    75Bg0134            PURPOSE = Geol;
371.    75Bg0134
372.    75Bg0134   TEXT-TOPIC = Lith;
373.    75Bg0134
374.    75Bg0134   STRUCTURE;
375.    75Bg0134        FOL-SCH = 290/v;
376.    75Bg0134        AXIAL-PLANE = 105/v;
377.    75Bg0134        FOLD-AXIS = 098/75;
378.    75Bg0134
379.    75Bg0134T  TEXT = Intercalated silvery green and dark gray and olive phyllite.  Unit prob is transitional
380.    75Bg0134T        between metatuff & agglom and metaseds.  Rx are complexly and minutely wrinkled, kinked, and
381.    75Bg0134T        jointed.  Numerous Qtz +- Carb vnlts parallel to the foliation.
382.    75Bg0134T        No sample.;
383.    75Bg0134  ------------------------------------------------------------------------------------------------
384.    *
385.    75Bg0135            STATION = 75ABg0135;
386.    75Bg0135            DATE = 7/24/75;
387.    75Bg0135            QUAD = KC C-6;
388.    75Bg0135            LAT = 55/36/47;
389.    75Bg0135            LONG = 131/57/20;
390.    75Bg0135            PURPOSE = Geol;
391.    75Bg0135
392.    75Bg0135   TEXT-TOPIC = Lith;
393.    75Bg0135
394.    75Bg0135   STRUCTURE;
395.    75Bg0135        FOL-SCH = 105/80;
396.    75Bg0135        OTHER-LIN = 105/25 (B/C);
397.    75Bg0135        OTHER = Dike 050/v;
398.    75Bg0135
399.    75Bg0135SA SAMPLE NUMBER = 75ABg0135A;
400.    75Bg0135SA      UNIT = Phyllitic sediments;
401.    75Bg0135SA      SOURCE = Float;
402.    75Bg0135SA      TYPE = Repres;
403.    75Bg0135SA      PURPOSE = Hand spec;
404.    75Bg0135SA      DESCRIPTION = Sed, met;
405.    75Bg0135SA      LITH = Siltstone-gwk semischist;
406.    75Bg0135SA      MINS = Qtz, Chl, Musc;
407.    75Bg0135SA      TEXTURE = Fissile;
408.    75Bg0135SA      CONDITION = Fresh;
409.    75Bg0135SA
410.    75Bg0135SA SAMPLE NUMBER = 75ABg0135B;
411.    75Bg0135SA      UNIT = Phyllitic sediments;
412.    75Bg0135SA      SOURCE = OTC;
413.    75Bg0135SA      TYPE = Repres;
414.    75Bg0135SA      PURPOSE = Hand spec;
415.    75Bg0135SA      DESCRIPTION = Intr;
416.    75Bg0135SA      LITH = Feldspar porphyry;
417.    75Bg0135SA      FORM = 2 m dike;
418.    75Bg0135SA      MINS = Plag;
419.    75Bg0135SA      TEXTURE = Porphyritic;
420.    75Bg0135SA      CONDITION = Fresh;
421.    75Bg0135SA      REMARKS = Weathers light olive--fresh rk is mottled greenish gray.;
422.    75Bg0135SA
423.    75Bg0135T  TEXT = Dark gray olive gray and brownish gray weathering phyllitic to semischistose sedimentary rocks
424.    75Bg0135T        derived from calcareous siltstone and sandstone, and subordinate to minor mudstone.  There are
425.    75Bg0135T        also thin layers of what seem to have been feldspathic and lithic grit.  The relict clasts are
426.    75Bg0135T        markedly flattened in the plane of the foliation (some are paper-thin) and are up to about
```

```
75Bg0135T        1.5 cm long.  Most of them seem to be feldspar and (or) quartz and dark gray argillite or siltstone.
75Bg0135T        Small Qtz +- Ca seams and lenses--some parallel to foliation--some transect it.  Rx are very
75Bg0135T        fissile.;
75Bg0135 ----------------------------------------------------------------------------------------------------
#
75Bg0136             STATION = 75ABg0136;
75Bg0136             DATE = 7/24/75;
75Bg0136             QUAD = KC C-6;
75Bg0136             LAT = 55/35/58;
75Bg0136             LONG = 131/56/47;
75Bg0136             PURPOSE = Geol, geochem;
75Bg0136
75Bg0136   TEXT-TOPIC = Lith;
75Bg0136
75Bg0136   STRUCTURE:
75Bg0136        FOL-SCH = 130/85;
75Bg0136        JOINT = 195/70;
75Bg0136        AXIAL-PLANE = 290/85;
75Bg0136        FOLD-AXIS = 110/30;
75Bg0136
75Bg0136SA SAMPLE NUMBER = 75ABg0136A;
75Bg0136SA      UNIT = Phyllitic volcanics (PV);
75Bg0136SA      SOURCE = OTC;
75Bg0136SA      TYPE = Repres;
75Bg0136SA      PURPOSE = Hand spec;
75Bg0136SA      DESCRIPTION = Extr, met;
75Bg0136SA      LITH = Metatuff;
75Bg0136SA      FORM = Layered;
75Bg0136SA      MINS = Plag, Chl, Ep/Clz;
75Bg0136SA      TEXTURE = Felds porphyritic--foliated;
75Bg0136SA      CONDITION = Fresh;
75Bg0136SA      REMARKS = Possible relict clast.;
75Bg0136SA
75Bg0136SA SAMPLE NUMBER = 75ABg0136B;
75Bg0136SA      UNIT = Phyllitic volcanics;
75Bg0136SA      SOURCE = OTC;
75Bg0136SA      TYPE = Repres;
75Bg0136SA      PURPOSE = Hand spec, spec;
75Bg0136SA      DESCRIPTION = Extr, met;
75Bg0136SA      LITH = Metatuff;
75Bg0136SA      MINS = Qtz, Plag, Py, Chl, Ep/Clz;
75Bg0136SA      TEXTURE = Foliated;
75Bg0136SA      CONDITION = Alter;
75Bg0136SA      REMARKS = Iron-stained pyritic zone in PV about 1 meter in diam.;
75Bg0136SA
75Bg0136T  TEXT = Phyllitic green metatuff (PV) and gray metasediments (PS).  The metaseds form the seaward half of otcp--at

75Bg0136T        otcp scale, the two types are about equal in amount.  Many small folds.
75Bg0136T        The metatuff ranges from aphanitic to feldspar-porphyritic--most of it is very fissile, but there
75Bg0136T        are also nonfissile layers and lenses (some of which may be relict metavolc clasts).  Small Qz-Carb
75Bg0136T        vnlts, etc.--some of the metavolc is rusty-weath.;
75Bg0136 ----------------------------------------------------------------------------------------------------
#
75Bg0137             STATION = 75ABg0137;
75Bg0137             DATE = 7/24/75;
75Bg0137             QUAD = KC C-6;
75Bg0137             LAT = 55/36/19;
75Bg0137             LONG = 131/57/38;
75Bg0137             PURPOSE = Geol;
75Bg0137
75Bg0137   TEXT-TOPIC = Lith;
```

```
75Bg0137
75Bg0137   STRUCTURE;
75Bg0137        FOL-SCH = 313/74;
75Bg0137        JOINT = 020/80;
75Bg0137
75Bg0137SA SAMPLE NUMBER = 75ABg0137A;
75Bg0137SA      UNIT = Relatively massive andesitic metatuff and agglomerate (MV);
75Bg0137SA      TYPE = Repres;
75Bg0137SA      PURPOSE = Hand spec;
75Bg0137SA      DESCRIPTION = Extr, met;
75Bg0137SA      LITH = Andesitic metatuff;
75Bg0137SA      TEXTURE = Foliated--relict fragmental & porphyritic;
75Bg0137SA      CONDITION = Fresh;
75Bg0137SA
75Bg0137T  TEXT = Foliated, but not especially fissile, bright green weathering andesitic metatuff and agglomerate
75Bg0137T         (MV).  This outcrop probably is west of the transitional zone of mixed phyllitic metatuff (PV) and phyllitic

75Bg0137T         metasediments (PS).  Unit is coarsely fragmental, femag porphyritic.
75Bg0137T         Seaward--most outcrops (reef) are dark olive-gray phyllitic metaseds (PS).;
75Bg0137  ----------------------------------------------------------------------------------------------
*
75Bg0138             STATION = 75ABg0138;
75Bg0138             DATE = 7/24/75;
75Bg0138             QUAD = KC C-6;
75Bg0138             LAT = 55/36/41;
75Bg0138             LONG = 131/57/41;
75Bg0138             PURPOSE = Geol;
75Bg0138
75Bg0138   TEXT-TOPIC = Lith;
75Bg0138
75Bg0138   STRUCTURE;
75Bg0138        FOL-SCH = 313/70;
75Bg0138        OTHER-LIN = 100/50 (clasts in cgl.);
75Bg0138        OTHER = Dike 300/v;
75Bg0138        OTHER = Dike 030/v;
75Bg0138
75Bg0138SA SAMPLE NUMBER = 75ABg0138A;
75Bg0138SA      UNIT = PS;
75Bg0138SA      SOURCE = OTC;
75Bg0138SA      TYPE = Repres;
75Bg0138SA      PURPOSE = Hand spec;
75Bg0138SA      DESCRIPTION = Sed, met;
75Bg0138SA      LITH = Graywacke semischist;
75Bg0138SA      FORM = Bed;
75Bg0138SA      MINS = Qtz, Plag, Chl, Ep/Clz;
75Bg0138SA      TEXTURE = Foliated--relict detrital;
75Bg0138SA      CONDITION = Fresh;
75Bg0138SA
75Bg0138SA SAMPLE NUMBER = 75ABg0138B;
75Bg0138SA      UNIT = PS;
75Bg0138SA      SOURCE = OTC;
75Bg0138SA      TYPE = Repres;
75Bg0138SA      PURPOSE = Hand spec;
75Bg0138SA      DESCRIPTION = Intr;
75Bg0138SA      LITH = Intermediate igneous;
75Bg0138SA      FORM = Dike;
75Bg0138SA      MINS = Plag, Ep/Clz;
75Bg0138SA      TEXTURE = Aphan-porph- "diabasic";
75Bg0138SA      REMARKS = Spls of two dikes.;
75Bg0138SA
75Bg0138T  TEXT = A couple of meter or so thick "intermediate" dikes intrude phyllitic to semischistose
```

```
75Bg0138T        metasediments.  There may also be small amounts of phytc metatuff, but unit here is derived
75Bg0138T        mainly from gritty to conglomeratic siltstone sandstone, and minor argillite.  The bedded rocks
75Bg0138T        are iron-stained and slightly baked near the dike contacts.  Abund Qz-Carb vns, etc.;
75Bg0138  ------------------------------------------------------------------------------------------------
#
75Bg0139            STATION = 75ABg0139;
75Bg0139            DATE = 7/24/75;
75Bg0139            QUAD = KC C-6;
75Bg0139            LAT = 55/37/24;
75Bg0139            LONG = 132/58/09;
75Bg0139            PURPOSE = Geol;
75Bg0139
75Bg0139   TEXT-TOPIC = Lith;
75Bg0139
75Bg0139   STRUCTURE;
75Bg0139        FOL-SCH = 120/70;
75Bg0139        AXIAL-PLANE = 300/70;
75Bg0139        FOLD-AXIS = 105/60;
75Bg0139
75Bg0139T  TEXT = Intercalated dk gy phyllitic metaseds (PS) and metatuff (PV).  PS forms about 90% of unit at
75Bg0139T        station.  Abundant Qz-Carb veins, lenses parallel to foliation.
75Bg0139T        No sample.;
75Bg0139  ------------------------------------------------------------------------------------------------
#
75Bg0140            STATION = 75ABg0140;
75Bg0140            DATE = 7/24/75;
75Bg0140            QUAD = KC C-6;
75Bg0140            LAT = 55/37/12;
75Bg0140            LONG = 131/56/50;
75Bg0140            PURPOSE = Geol;
75Bg0140
75Bg0140   TEXT-TOPIC = Lith;
75Bg0140
75Bg0140   STRUCTURE;
75Bg0140        FOL-SCH = 135/v;
75Bg0140        JOINT = 220/65;
75Bg0140
75Bg0140SA SAMPLE NUMBER = 75ABg0140A;
75Bg0140SA      UNIT = PS;
75Bg0140SA      SOURCE = OTC;
75Bg0140SA      TYPE = Repres;
75Bg0140SA      PURPOSE = Hand spec;
75Bg0140SA      DESCRIPTION = Sed, met;
75Bg0140SA      LITH = Clasts from congl;
75Bg0140SA
75Bg0140T  TEXT = Dark silvery gray phyllitic to schistose siltstone, graywacke, grit and conglomerate.  The metacgl
75Bg0140T        is very fissile and contains markedly flattened (to paper thin) to nearly perfectly spheroidal
75Bg0140T        clasts to 5 or 6 cm in max dimension.  Clast compositions include argillite or phyllite (most
75Bg0140T        flattened), indeterminate fine-grained rocks, and silicic igneous (plutonic + extrusive or
75Bg0140T        hypabyssal) rocks (most spherical).  The sample (140A) probably is biased in favor of the igneous
75Bg0140T        clasts because they are best preserved and easiest to collect.  Cgl/grit layers at station
75Bg0140T        are up to 2 m thick.  A few Qz-Carb vns cross foliation.;
75Bg0140  ------------------------------------------------------------------------------------------------
#
75Bg0141            STATION = 75ABg0141;
75Bg0141            DATE = 7/24/75;
75Bg0141            QUAD = KC C-6;
75Bg0141            LAT = 55/37/28;
75Bg0141            LONG = 131/56/42;
75Bg0141            PURPOSE = Geol;
75Bg0141
```

```
75Bg0141   TEXT-TOPIC = Lith;
75Bg0141
75Bg0141   STRUCTURE:
75Bg0141        FOL-SCH = 305/v;
75Bg0141        OTHER-LIN = 125/25 (B/C);
75Bg0141
75Bg0141SA SAMPLE NUMBER = 75ABg0141A;
75Bg0141SA      UNIT = PS;
75Bg0141SA      SOURCE = OTC;
75Bg0141SA      TYPE = Repres;
75Bg0141SA      PURPOSE = Hand spec;
75Bg0141SA      DESCRIPTION = Sed, met;
75Bg0141SA      LITH = Meta conglomerate;
75Bg0141SA      FORM = 1 meter "bed";
75Bg0141SA      MINS = Musc;
75Bg0141SA      TEXTURE = Foliated, relic fragmental;
75Bg0141SA      CONDITION = Fresh;
75Bg0141SA
75Bg0141T  TEXT = Dark gray and olive gray phyllitic to semischistose metasedimentary rocks derivel from
75Bg0141T        interbedded graywacke, siltstone, grit, and argillite.  Some of the beds are pebbly--the clasts
75Bg0141T        are sparse, markedly flattened to spherical, and up to 3 or 4 cm in max dimension.  Unit is
75Bg0141T        virtually identical to rx @ 140.;
75Bg0141  ----------------------------------------------------------------------------------------------------
#
75Bg0142             STATION = 75ABg0142;
75Bg0142             DATE = 7/24/75;
75Bg0142             QUAD = KC C-6;
75Bg0142             LAT = 55/38/00;
75Bg0142             LONG = 131/57/38;
75Bg0142             PURPOSE = Geol;
75Bg0142
75Bg0142   TEXT-TOPIC = Lith;
75Bg0142
75Bg0142   STRUCTURE:
75Bg0142        FOL-SCH = 330/50;
75Bg0142        OTHER-LIN = 067/60 (B/C);
75Bg0142
75Bg0142SA SAMPLE NUMBER = 75ABg0142A;
75Bg0142SA      UNIT = PS;
75Bg0142SA      SOURCE = Rubble;
75Bg0142SA      TYPE = Repres;
75Bg0142SA      PURPOSE = Hand spec;
75Bg0142SA      DESCRIPTION = Sed, met;
75Bg0142SA      LITH = Phyllitic conglomerate;
75Bg0142SA      MINS = Musc;
75Bg0142SA      TEXTURE = Foliated;
75Bg0142SA      CONDITION = Fresh;
75Bg0142SA
75Bg0142T  TEXT = Dark gray and brownish gray phyllitic to semischistose metasedimentary rocks as at 141.  Numerous
75Bg0142T        layers of grit, pebbly graywacke, and conglomerate.;
75Bg0142  ----------------------------------------------------------------------------------------------------
#
75Bg0143             STATION = 75ABg0143;
75Bg0143             DATE = 7/24/75;
75Bg0143             QUAD = KC C-6;
75Bg0143             LAT = 55/31/58;
75Bg0143             LONG = 131/49/31;
75Bg0143             PURPOSE = Geol, geochem;
75Bg0143
75Bg0143   TEXT-TOPIC = Lith;
75Bg0143
```

```
669.    75Bg0143   STRUCTURE:
670.    75Bg0143        FOL-SCH = 305/75-v;
671.    75Bg0143
672.    75Bg0143SA SAMPLE NUMBER = 75ABg0143A;
673.    75Bg0143SA      UNIT = QD;
674.    75Bg0143SA      SOURCE = OTC;
675.    75Bg0143SA      TYPE = Repres;
676.    75Bg0143SA      PURPOSE = Hand spec;
677.    75Bg0143SA      DESCRIPTION = Intr, met;
678.    75Bg0143SA      LITH = Quartz diorite;
679.    75Bg0143SA      FORM = Pluton;
680.    75Bg0143SA      MINS = Qtz, Plag, Hbl, Bio, Py, Act, Ep/Clz;
681.    75Bg0143SA      TEXTURE = Hypidio granular;
682.    75Bg0143SA      CONDITION = Fresh;
683.    75Bg0143SA
684.    75Bg0143SA SAMPLE NUMBER = 75ABg0143B;
685.    75Bg0143SA      UNIT = QD;
696.    75Bg0143SA      SOURCE = OTC;
687.    75Bg0143SA      TYPE = Repres;
688.    75Bg0143SA      PURPOSE = Hand spec;
689.    75Bg0143SA      DESCRIPTION = Intr, met;
690.    75Bg0143SA      LITH = Ga-bearing aplite;
691.    75Bg0143SA      FORM = Dike;
692.    75Bg0143SA      MINS = Qtz, Plag, Garn, Musc;
693.    75Bg0143SA      TEXTURE = Micro granular;
694.    75Bg0143SA      CONDITION = Fresh;
695.    75Bg0143SA
696.    75Bg0143SA SAMPLE NUMBER = 75ABg0143C;
697.    75Bg0143SA      UNIT = QD;
698.    75Bg0143SA      SOURCE = OTC;
699.    75Bg0143SA      TYPE = Repres;
700.    75Bg0143SA      PURPOSE = Hand spec;
701.    75Bg0143SA      DESCRIPTION = Sed, met;
702.    75Bg0143SA      LITH = Metasedimentary rk;
703.    75Bg0143SA      FORM = Bedded;
704.    75Bg0143SA      MINS = Qtz, Bio, Garn, Musc;
705.    75Bg0143SA      TEXTURE = Foliated - Porphyroblastic;
706.    75Bg0143SA      CONDITION = Fresh;
707.    75Bg0143SA      REMARKS = Several samples to illustrate variation in
708.    75Bg0143SA      REMARKS = country rock types.  Most=phyllite
709.    75Bg0143SA      REMARKS = with thermal overprint.;
710.
711.    75Bg0143T  TEXT = TATOOSH PT. BETTON ISLAND
712.    75Bg0143T       Quartz diorite--minor metasedimentary country rocks.
713.    75Bg0143T       The quartz diorite is variable in composition over short distances (meters) and ranges from
714.    75Bg0143T       GA-bearing leuco-aplite to garnet-bearing mafic diorite.  Most, however, does not contain
715.    75Bg0143T       garnet detectable in hand specimen--average rock is HC-BI QD cont appres Ep & ACT--locally
716.    75Bg0143T       fairly abundant PY--country rock inclusions.  Metapelite country rocks contain BI, MU, GA--look like hornfelsed

717.    75Bg0143T       phyllitic seds (HPS).;
718.    75Bg0143  ----------------------------------------------------------------------------------------------
719.    *
720.    75Bg0144            STATION = 75ABg0144;
721.    75Bg0144            DATE = 7/24/75;
722.    75Bg0144            QUAD = KC C-5;
723.    75Bg0144            LAT = 55/32/04;
724.    75Bg0144            LONG = 131/48/32;
725.    75Bg0144            PURPOSE = Geol;
726.    75Bg0144
727.    75Bg0144   TEXT-TOPIC = Lith;
728.    75Bg0144
```

```
75Bg0144   STRUCTURE;
75Bg0144        JOINT = 020/63;
75Bg0144
75Bg0144SA SAMPLE NUMBER = 75ABg0144A;
75Bg0144SA      UNIT = Granodiorite;
75Bg0144SA      SOURCE = OTC;
75Bg0144SA      TYPE = Repres;
75Bg0144SA      PURPOSE = Hand spec;
75Bg0144SA      DESCRIPTION = Intr;
75Bg0144SA      LITH = Granodiorite;
75Bg0144SA      FORM = Pluton
75Bg0144SA      MINS = Qtz, Plag, Hbl, Bio, Py, Ep/Clz;
75Bg0144SA      TEXTURE = Porphyritic;
75Bg0144SA      CONDITION = Fresh;
75Bg0144SA
75Bg0144T  TEXT = Massive granodiorite containing euhedral xls of feldspar up to 10 cm long and 1.5 cm in x-section.'
75Bg0144T        The crystals weather white and do not seem to be oriented.  Not sure whether the feldspar is
75Bg0144T        plagioclase or kspar, nor whether the crystals are phenocrysts or metacrysts.  In any case, the
75Bg0144T        largest are megacrysts.  Our consensus is that they are phenocrysts because: (1) random orientation,
75Bg0144T        (2) rock is altered (EP) but not metamorphosed, (3) perfect crystal shape, (4) inclusions of
75Bg0144T        mafics in xls are not aligned (netd).;
75Bg0144  ----------------------------------------------------------------------------------------------------
#
75Bg0145             STATION = 75ABg0145;
75Bg0145             DATE = 7/25/75;
75Bg0145             QUAD = KC C-6;
75Bg0145             LAT = 55/32/12;
75Bg0145             LONG = 131/49/51;
75Bg0145             PURPOSE = Geol;
75Bg0145
75Bg0145   TEXT-TOPIC = Lith;
75Bg0145
75Bg0145   STRUCTURE;
75Bg0145        JOINT = 350/75-v;
75Bg0145        JOINT = 267/80;
75Bg0145
75Bg0145SA SAMPLE NUMBER = 75ABg0145A;
75Bg0145SA      UNIT = Granodio (GDIO);
75Bg0145SA      SOURCE = OTC;
75Bg0145SA      TYPE = Repres;
75Bg0145SA      PURPOSE = Hand spec;
75Bg0145SA      DESCRIPTION = Intr;
75Bg0145SA      LITH = Granodiorite;
75Bg0145SA      FORM = Pluton;
75Bg0145SA      MINS = Qtz, Plag, Kspr, Hbl, Bio, Ep/Clz;
75Bg0145SA      TEXTURE = Hypid gran + porphyritic;
75Bg0145SA      CONDITION = Fresh;
75Bg0145SA
75Bg0145T  TEXT = Feldspar-porphyritic med-grained hypidio-granular granodiorite or OD.  Feldspar phenos to 2 cm.;
75Bg0145  ----------------------------------------------------------------------------------------------------
#
75Bg0146             STATION = 75ABg0146;
75Bg0146             DATE = 7/25/75;
75Bg0146             QUAD = KC C-6;
75Bg0146             LAT = 55/31/35;
75Bg0146             LONG = 131/50/36;
75Bg0146             PURPOSE = Geol;
75Bg0146
75Bg0146   TEXT-TOPIC = Lith;
75Bg0146
75Bg0146   STRUCTURE;
```

```
75Bg0146          JOINT = 162/v;
75Bg0146
75Bg0146SA SAMPLE NUMBER = 75ABg0146A;
75Bg0146SA       UNIT = Granodio (GDIO);
75Bg0146SA       SOURCE = OTC;
75Bg0146SA       TYPE = Repres;
75Bg0146SA       PURPOSE = Hand spec;
75Bg0146SA       DESCRIPTION = Intr;
75Bg0146SA       LITH = Quartz diorite;
75Bg0146SA       FORM = Pluton;
75Bg0146SA       MINS = Qtz, Plag, Hbl, Bio, Ep/Clz;
75Bg0146SA       TEXTURE = Hypid gran + porphyritic;
75Bg0146SA       CONDITION = Fresh;
75Bg0146SA
75Bg0146T  TEXT = Feldspar-porphyritic quartz diorite.  See no foliation or gneissic struct.  Feldspar phenocrysts
75Bg0146T         are euhedral, to 2 or 3 cm in size, w/o visible preferred orientation.;
75Bg0146  ------------------------------------------------------------------------------------------------------
#
75Bg0147              STATION = 75ABg0147;
75Bg0147              DATE = 7/25/75;
75Bg0147              QUAD = KC C-6;
75Bg0147              LAT = 55/31/37;
75Bg0147              LONG = 131/49/52;
75Bg0147              PURPOSE = Geol;
75Bg0147
75Bg0147   TEXT-TOPIC = Lith;
75Bg0147
75Bg0147   STRUCTURE;
75Bg0147         JOINT = 160/v;
75Bg0147         OTHER = Aplite Dikes 115/v;
75Bg0147
75Bg0147SA SAMPLE NUMBER = 75ABg0147A;
75Bg0147SA       UNIT = GDIO (=Granodiorite);
75Bg0147SA       SOURCE = OTC;
75Bg0147SA       PURPOSE = Hand spec;
75Bg0147SA       DESCRIPTION = Intr;
75Bg0147SA       LITH = Quartz Diorite;
75Bg0147SA       FORM = Pluton;
75Bg0147SA       MINS = Qtz, Plag, Hbl, Bio, Ep/Clz;
75Bg0147SA       TEXTURE = Porphyritic;
75Bg0147SA       CONDITION = Fresh;
75Bg0147SA
75Bg0147SA SAMPLE NUMBER = 75ABg0147B;
75Bg0147SA       UNIT = GDIO;
75Bg0147SA       SOURCE = OTC;
75Bg0147SA       TYPE = Repres;
75Bg0147SA       PURPOSE = Hand spec;
75Bg0147SA       DESCRIPTION = Intr;
75Bg0147SA       LITH = leucoaplite;
75Bg0147SA       FORM = Dike;
75Bg0147SA       MINS = Qtz, Plag, Ep/Clz, Garn;
75Bg0147SA       TEXTURE = Sugary;
75Bg0147SA       CONDITION = Fresh;
75Bg0147SA
75Bg0147T  TEXT = Strikingly porphyritic plutonic rock composed of white-weathering feldspar euhedra up to 4 or 5
75Bg0147T         cm long in a dark brownish black matrix of BI, HO, & QZ.  About 1/2 of rock=phenocrysts.
75Bg0147T         The pluton is crossed by several white weathering dikes to 1/2 meter thick of GA-bearing
75Bg0147T         leuco-aplite.;
75Bg0147  ------------------------------------------------------------------------------------------------------
#
75Bg0148              STATION = 75ABg0148;
```

```
851.    75Bg0148            DATE = 7/25/75;
852.    75Bg0148            QUAD = KC C-6;
853.    75Bg0148            LAT = 55/31/40;
854.    75Bg0148            LONG = 131/49/35;
855.    75Bg0148            PURPOSE = Geol, geochem;
856.    75Bg0148
857.    75Bg0148   TEXT-TOPIC = Lith;
858.    75Bg0148
859.    75Bg0148   STRUCTURE;
860.    75Bg0148        FOL-SCH = 300/35;
861.    75Bg0148        JOINT = 080/30;
862.    75Bg0148        OTHER-LIN = 340/20 B/C;
863.    75Bg0148
864.    75Bg0148SA SAMPLE NUMBER = 75ABg0148A;
865.    75Bg0148SA      UNIT = HPS (hornfelsed phyllitic seds);
866.    75Bg0148SA      SOURCE = OTC;
867.    75Bg0148SA      TYPE = Repres, Chip;
868.    75Bg0148SA      PURPOSE = Hand spec, spec;
869.    75Bg0148SA      DESCRIPTION = Sed, met;
870.    75Bg0148SA      LITH = Metapelite;
871.    75Bg0148SA      FORM = Bedded;
872.    75Bg0148SA      MINS = Qtz, Bio, Py, Garn;
873.    75Bg0148SA      TEXTURE = Schistose;
874.    75Bg0148SA      CONDITION = Fresh;
875.    75Bg0148SA      REMARKS = Thermal overprint not confirmed.;
876.    75Bg0148SA
877.    75Bg0148SA SAMPLE NUMBER = 75ABg0148B;
878.    75Bg0148SA      UNIT = HPS;
879.    75Bg0148SA      SOURCE = OTC;
880.    75Bg0148SA      TYPE = Repres;
881.    75Bg0148SA      PURPOSE = Hand spec, Spec;
882.    75Bg0148SA      LITH = Qtz + metapelite;
883.    75Bg0148SA      FORM = Augen;
884.    75Bg0148SA      MINS = Qtz, Bio;
885.    75Bg0148SA      CONDITION = Fresh, Sl Fe-stained;
886.    75Bg0148SA      REMARKS = 5 cm Qtz augen + metapelite country rk.;
887.    75Bg0148SA
888.    75Bg0148T  TEXT = Pelitic phyllite and semischist--probably also thermally metamorphosed by nearby QD pluton,
889.    75Bg0148T        but see no obvious overprint minerals in hand specimen.  Unit weathers brownish and dark greenish
890.    75Bg0148T        gray.  It is comp. layered on a scale of 2-5 cm and contains BI, GA, PY.  Some layers contain
891.    75Bg0148T        Qtz augen to 15 cm long--some layers contain conspic finely dissem Py & Cp? in cm or so wide
892.    75Bg0148T        zones parallel to the comp layering.;
893.    75Bg0148  ------------------------------------------------------------------------------------------------
894.    *
895.    75Bg0149            STATION = 75ABg0149;
896.    75Bg0149            DATE = 7/25/75;
897.    75Bg0149            QUAD = KC C-6;
898.    75Bg0149            LAT = 55/31/27;
899.    75Bg0149            LONG = 131/49/27;
900.    75Bg0149            PURPOSE = Geol, geochem;
901.    75Bg0149
902.    75Bg0149   TEXT-TOPIC = Lith, Struct;
903.    75Bg0149
904.    75Bg0149   PHOTOS = K II of thrust fault;
905.    75Bg0149
906.    75Bg0149   STRUCTURE;
907.    75Bg0149        FAULT-SHEAR = Approx 025/10-30;
908.    75Bg0149
909.    75Bg0149SA SAMPLE NUMBER = 75ABg149A;
910.    75Bg0149SA      UNIT = HPS;
911.    75Bg0149SA      SOURCE = OTC;
```

```
912.    75Bg0149SA        TYPE = Repres;
913.    75Bg0149SA        PURPOSE = Hand spec, Spec;
914.    75Bg0149SA        DESCRIPTION = Sed, Met;
915.    75Bg0149SA        LITH = Metapelite;
916.    75Bg0149SA        MINS = Qtz, Plag, Bio, Py, Garn;
917.    75Bg0149SA        TEXTURE = Schistose;
918.    75Bg0149SA        CONDITION = Fresh;
919.    75Bg0149SA        REMARKS = Spl coll from thrust zone.;
920.    75Bg0149SA
921.    75Bg0149SA SAMPLE NUMBER = 75ABg0149B;
922.    75Bg0149SA        UNIT = QDIO (Quartz Diorite);
923.    75Bg0149SA        SOURCE = OTC;
924.    75Bg0149SA        TYPE = Repres;
925.    75Bg0149SA        PURPOSE = Hand spec;
926.    75Bg0149SA        DESCRIPTION = Intr, Met;
927.    75Bg0149SA        LITH = Quartz diorite;
928.    75Bg0149SA        FORM = Pluton;
929.    75Bg0149SA        MINS = Qtz, Plag, Hbl, Bio, Ep/Clz, Garn;
930.    75Bg0149SA        TEXTURE = Hypid Gran;
931.    75Bg0149SA        CONDITION = Fresh;
932.    75Bg0149SA        REMARKS = Spl coll below exposed thrust;
933.    75Bg0149SA
934.    75Bg0149T  TEXT = Well exposed thrust fault showing several meters of cumulative displacement--upper plate has
935.    75Bg0149T          moved NW relative to lower plate.  Relative movement indicated by drag folds and offset QD dikes.
936.    75Bg0149T          Fault zone is exposed for a vertical dist of about 3 meters.  It is marked by milling of both
937.    75Bg0149T          PS and QD, by boudins of Qtz and Qtz dio, and by a little iron-staining.  In part, the fault also
938.    75Bg0149T          forms ctct between the pluton and the country rx.  Nr ctct w/ metapelite, plut conts numerous
939.    75Bg0149T          leucoaplite dikes and xenoliths.;
940.    75Bg0149  ----------------------------------------------------------------------------------------------------
941.    *
942.    75Bg0150              STATION = 75ABg0150;
943.    75Bg0150              DATE = 7/25/75;
944.    75Bg0150              QUAD = KC C-6;
945.    75Bg0150              LAT = 55/31/11;
946.    75Bg0150              LONG = 131/49/40;
947.    75Bg0150              PURPOSE = Geol;
948.    75Bg0150
949.    75Bg0150   TEXT-TOPIC = Lith;
950.    75Bg0150
951.    75Bg0150   STRUCTURE:
952.    75Bg0150        JOINT = 050/75;
953.    75Bg0150
954.    75Bg0150SA SAMPLE NUMBER = 75ABg0150A;
955.    75Bg0150SA        UNIT = QDio;
956.    75Bg0150SA        SOURCE = OTC;
957.    75Bg0150SA        TYPE = Repres;
958.    75Bg0150SA        PURPOSE = Hand spec;
959.    75Bg0150SA        DESCRIPTION = Intr;
960.    75Bg0150SA        LITH = Qtz Dio;
961.    75Bg0150SA        MINS = Qtz, Plag, Hbl, Bio, Garn;
962.    75Bg0150SA        TEXTURE = Slightly porphyritic;
963.    75Bg0150SA        CONDITION = Fresh;
964.    75Bg0150SA
965.    75Bg0150T  TEXT = Slightly feldspar-porphyritic, GA-bearing quartz diorite.;
966.    75Bg0150  ----------------------------------------------------------------------------------------------------
967.    *
968.    75Bg0151              STATION = 75ABg0151;
969.    75Bg0151              DATE = 7/25/75;
970.    75Bg0151              QUAD = KC C-6;
971.    75Bg0151              LAT = 55/31/02;
972.    75Bg0151              LONG = 131/50/02;
```

```
973.    75Bg0151              PURPOSE = Geol;
974.    75Bg0151
975.    75Bg0151    TEXT-TOPIC = Lith;
976.    75Bg0151
977.    75Bg0151    STRUCTURE;
978.    75Bg0151         JOINT = 30/v;
979.    75Bg0151
980.    75Bg0151SA SAMPLE NUMBER = 75ABg0151A;
981.    75Bg0151SA       UNIT = GDIO;
982.    75Bg0151SA       SOURCE = OTC;
983.    75Bg0151SA       TYPE = Repres;
984.    75Bg0151SA       PURPOSE = Hand spec;
985.    75Bg0151SA       DESCRIPTION = Intr;
986.    75Bg0151SA       LITH = Qtz Dio or GDio;
987.    75Bg0151SA       FORM = Pluton;
988.    75Bg0151SA       MINS = Qtz, Plag, Hbl, Bio, Py;
989.    75Bg0151SA       TEXTURE = Hypid gran;
990.    75Bg0151SA       CONDITION = Fresh;
991.    75Bg0151SA
992.    75Bg0151T  TEXT = Even-textured to very slightly feldspar-porphyritic quartz diorite or granodiorite.  See no
993.    75Bg0151T        foliation.;
994.    75Bg0151  ----------------------------------------------------------------------------------------------------
995.    #
996.    75Bg0152              STATION = 75ABg0152;
997.    75Bg0152              DATE = 7/25/75;
998.    75Bg0152              QUAD = KC C-6;
999.    75Bg0152              LAT = 55/30/27;
1000.   75Bg0152              LONG = 131/50/15;
1001.   75Bg0152              PURPOSE = Geol;
1002.   75Bg0152
1003.   75Bg0152    TEXT-TOPIC = Lith;
1004.   75Bg0152
1005.   75Bg0152    STRUCTURE;
1006.   75Bg0152         JOINT = 268/80;
1007.   75Bg0152         JOINT = 010/80;
1008.   75Bg0152
1009.   75Bg0152SA SAMPLE NUMBER = 75ABg0152A;
1010.   75Bg0152SA       UNIT = QDIO;
1011.   75Bg0152SA       SOURCE = OTC;
1012.   75Bg0152SA       TYPE = Repres;
1013.   75Bg0152SA       PURPOSE = Hand spec;
1014.   75Bg0152SA       DESCRIPTION = Intr;
1015.   75Bg0152SA       LITH = Quartz diorite;
1016.   75Bg0152SA       FORM = Pluton;
1017.   75Bg0152SA       MINS = Qtz, Plag, Hbl, Bio, Py, Garn;
1018.   75Bg0152SA       TEXTURE = Hypidio gran;
1019.   75Bg0152SA       CONDITION = Fresh;
1020.   75Bg0152SA
1021.   75Bg0152T  TEXT = Fine grain hypidio-gran garnet-bearing Qtz DIO.  See no foliation or feldspar phenocrysts.;
1022.   75Bg0152  ----------------------------------------------------------------------------------------------------
1023.   #
1024.   75Bg0153              STATION = 75ABg0153;
1025.   75Bg0153              DATE = 7/25/75;
1026.   75Bg0153              QUAD = KC B-6;
1027.   75Bg0153              LAT = 55/29/50;
1028.   75Bg0153              LONG = 131/50/01;
1029.   75Bg0153              PURPOSE = Geol;
1030.   75Bg0153
1031.   75Bg0153    TEXT-TOPIC = Lith;
1032.   75Bg0153
1033.   75Bg0153    STRUCTURE;
```

```
1034.   75Bg0153        JOINT = 170/70;
1035.   75Bg0153        JOINT = 100/50;
1036.   75Bg0153
1037.   75Bg0153SA SAMPLE NUMBER = 75ABg0153A;
1038.   75Bg0153SA      UNIT = QDIO;
1039.   75Bg0153SA      SOURCE = OTC;
1040.   75Bg0153SA      TYPE = Repres;
1041.   75Bg0153SA      PURPOSE = Hand spec;
1042.   75Bg0153SA      DESCRIPTION = Intr;
1043.   75Bg0153SA      LITH = QDIO;
1044.   75Bg0153SA      FORM = Pluton;
1045.   75Bg0153SA      MINS = Qtz, Plag, Hbl, Bio;
1046.   75Bg0153SA      TEXTURE = Hypid gran;
1047.   75Bg0153SA      CONDITION = Fresh;
1048.   75Bg0153SA
1049.   75Bg0153T  TEXT = Massive, nonfol and nonporp QDIO. See no garnet.;
1050.   75Bg0153  ----------------------------------------------------------------------------------------------
1051.   *
1052.   75Bg0154            STATION = 75ABg0154;
1053.   75Bg0154            DATE = 7/25/75;
1054.   75Bg0154            QUAD = KC B-6;
1055.   75Bg0154            LAT = 55/29/21;
1056.   75Bg0154            LONG = 131/49/40;
1057.   75Bg0154            PURPOSE = Geol, geochem;
1058.   75Bg0154
1059.   75Bg0154   TEXT-TOPIC = Lith;
1060.   75Bg0154
1061.   75Bg0154   STRUCTURE;
1062.   75Bg0154        FOL-SCH = 032/75;
1063.   75Bg0154
1064.   75Bg0154SA SAMPLE NUMBER = 75ABg0154A;
1065.   75Bg0154SA      UNIT = QDIO;
1066.   75Bg0154SA      SOURCE = OTC;
1067.   75Bg0154SA      TYPE = Repres;
1068.   75Bg0154SA      PURPOSE = Hand spec, spec;
1069.   75Bg0154SA      DESCRIPTION = Intr;
1070.   75Bg0154SA      LITH = QDIO;
1071.   75Bg0154SA      FORM = Pluton;
1072.   75Bg0154SA      MINS = Qtz, Plag, Hbl, Bio, Py, Garn;
1073.   75Bg0154SA      TEXTURE = Hypid gran;
1074.   75Bg0154SA      CONDITION = Fresh;
1075.   75Bg0154SA
1076.   75Bg0154SA SAMPLE NUMBER = 75ABg0154B;
1077.   75Bg0154SA      UNIT = QDIO;
1078.   75Bg0154SA      SOURCE = OTC;
1079.   75Bg0154SA      TYPE = Repres;
1080.   75Bg0154SA      PURPOSE = Hand spec;
1081.   75Bg0154SA      DESCRIPTION = Sed, met;
1082.   75Bg0154SA      LITH = Metapelite;
1083.   75Bg0154SA      FORM = Roof pendant;
1084.   75Bg0154SA
1085.   75Bg0154T  TEXT = Roof pendant or inclusion of metapelite in garnet-bearing QDIO cut by numerous leucoaplite dikes.
1086.   75Bg0154T       The appearance of these dikes invariably signals a nearby contact w/ country rx.  The inclusion
1087.   75Bg0154T       is several tens of square metres in area and appears to be one of several along this coast.  It weathers

1088.   75Bg0154T       dark green or brown and the pluton weathers lighter brown or brownish gray.;
1089.   75Bg0154  ----------------------------------------------------------------------------------------------
1090.   *
1091.   75Bg0155            STATION = 75ABg0155;
1092.   75Bg0155            DATE = 7/25/75;
1093.   75Bg0155            QUAD = KC B-6;
```

```
75Bg0155              LAT = 55/29/08;
75Bg0155              LONG = 131/49/02;
75Bg0155              PURPOSE = Geol;
75Bg0155
75Bg0155   TEXT-TOPIC = Lith;
75Bg0155
75Bg0155   STRUCTURE;
75Bg0155        JOINT = 012/v;
75Bg0155        JOINT = 300/80;
75Bg0155
75Bg0155SA SAMPLE NUMBER = 75ABg0155A;
75Bg0155SA      UNIT = QDIO;
75Bg0155SA      SOURCE = OTC;
75Bg0155SA      TYPE = Repres;
75Bg0155SA      PURPOSE = Hand spec;
75Bg0155SA      DESCRIPTION = Intr;
75Bg0155SA      LITH = QDIO;
75Bg0155SA      FORM = Pluton;
75Bg0155SA      MINS = Qtz, Plag, Hbl, Bio, Px, Ep/Clz, Garn;
75Bg0155SA      TEXTURE = Hypid gran;
75Bg0155SA      CONDITION = Fresh;
75Bg0155SA
75Bg0155T  TEXT = Weakly feldspar-porphyritic QDIO containing very sparse GA.  Rk is not discernibly foliated.;
75Bg0155  ----------------------------------------------------------------------------------------------------
#
75Bg0156              STATION = 75ABg0156;
75Bg0156              DATE = 7/25/75;
75Bg0156              QUAD = KC B-6;
75Bg0156              LAT = 55/29/38;
75Bg0156              LONG = 131/48/55;
75Bg0156              PURPOSE = Geol;
75Bg0156
75Bg0156   TEXT-TOPIC = Lith;
75Bg0156
75Bg0156SA SAMPLE NUMBER = 75ABg0156A;
75Bg0156SA      UNIT = QDIO;
75Bg0156SA      SOURCE = OTC;
75Bg0156SA      TYPE = Repres;
75Bg0156SA      PURPOSE = Hand spec;
75Bg0156SA      DESCRIPTION = Intr;
75Bg0156SA      LITH = QDIO;
75Bg0156SA      FORM = Pluton;
75Bg0156SA      MINS = Qtz, Plag, Hbl, Bio, Ep/Clz, Garn;
75Bg0156SA      TEXTURE = Hypid gran;
75Bg0156SA      CONDITION = Alter;
75Bg0156SA      REMARKS = Sheared, possibly hydrothermally altered.;
75Bg0156SA
75Bg0156T  TEXT = Milled, but not foliated QDIO.  Contains very sparse garnet.;
75Bg0156  ----------------------------------------------------------------------------------------------------
#
75Bg0157              STATION = 75ABg0157;
75Bg0157              DATE = 7/25/75;
75Bg0157              QUAD = KC B-6;
75Bg0157              LAT = 55/29/57;
75Bg0157              LONG = 131/48/15;
75Bg0157              PURPOSE = Geol;
75Bg0157
75Bg0157   TEXT-TOPIC = Lith;
75Bg0157
75Bg0157   STRUCTURE;
75Bg0157        FOL-SCR = 285/60;
```

```
75Bg0157
75Bg0157SA SAMPLE NUMBER = 75ABg0157A;
75Bg0157SA      UNIT = HPS;
75Bg0157SA      SOURCE = OTC;
75Bg0157SA      TYPE = Repres;
75Bg0157SA      PURPOSE = Hand spec;
75Bg0157SA      DESCRIPTION = Sed, met;
75Bg0157SA      LITH = Metapelite;
75Bg0157SA      FORM =  *
75Bg0157SA      MINS = Qtz, Bio, Garn;
75Bg0157SA      TEXTURE = Porphyroblastic (garnet)/foliated;
75Bg0157SA      CONDITION = Fresh;
75Bg0157SA      REMARKS = Rk contains tiny garnet metacrysts that grow ax earlier foliation
75Bg0157SA      REMARKS = marked by fine grained white mica.;
75Bg0157SA
75Bg0157T  TEXT = Thermally metamorphosed pelitic metasedimentary rocks.  It is difficult to tell whether
75Bg0157T        these rocks were phyllite prior to contact metamorphism, but relict foliation suggests that
75Bg0157T        they were.  Locally rusty-weathering.;
75Bg0157  ------------------------------------------------------------------------------------------------
*
75Bg0158            STATION = 75ABg0158;
75Bg0158            DATE = 7/25/75;
75Bg0158            QUAD = KC C-6;
75Bg0158            LAT = 55/30/07;
75Bg0158            LONG = 131/47/13;
75Bg0158            PURPOSE = Geol, geochem;
75Bg0158
75Bg0158   TEXT-TOPIC = Lith, struct;
75Bg0158
75Bg0158   STRUCTURE;
75Bg0158        FOL-SCH = 035/68;
75Bg0158        FAULT-SHEAR = 355/55;
75Bg0158
75Bg0158SA SAMPLE NUMBER = 75ABg0158A;
75Bg0158SA      UNIT = Metapelite;
75Bg0158SA      SOURCE = OTC;
75Bg0158SA      TYPE = Repres;
75Bg0158SA      PURPOSE = Hand spec, spec;
75Bg0158SA      DESCRIPTION = Sed, met;
75Bg0158SA      LITH = Metapelite;
75Bg0158SA      FORM = Bedded;
75Bg0158SA      MINS = Qtz, Bio, Garn;
75Bg0158SA      TEXTURE = Phyllitic;
75Bg0158SA      CONDITION = Alter, iron-stained;
75Bg0158SA      REMARKS = Quartz augen in pyritic metapelite.;
75Bg0158SA
75Bg0158T  TEXT = Rusty weathering metapelite.  Rx are cut by an eastward dipping fault marked by about a half-
75Bg0158T        meter (exposed) of gouge.  I notice that the fault and foliation are fairly close in attitude--
75Bg0158T        this is also true for faulted contacts between metapelite and QDIO on So. Betton Island.
75Bg0158T        Suggests that faults followed pre-existing foln or comp layering in metapelite.;
75Bg0158  ------------------------------------------------------------------------------------------------
*
75Bg0159            STATION = 75ABg0159;
75Bg0159            DATE = 7/25/75;
75Bg0159            QUAD = KC C-6;
75Bg0159            LAT = 55/30/23;
75Bg0159            LONG = 131/46/44;
75Bg0159            PURPOSE = Geol, geochem;
75Bg0159
75Bg0159   TEXT-TOPIC = Lith;
75Bg0159
```

```
75Bg0159   STRUCTURE:
75Bg0159        FOL-SCH = 050/70;
75Bg0159
75Bg0159SA SAMPLE NUMBER = 75ABg0159A;
75Bg0159SA      UNIT = QDIO?;
75Bg0159SA      SOURCE = OTC;
75Bg0159SA      TYPE = Repres;
75Bg0159SA      PURPOSE = Hand spec, T. S., spec;
75Bg0159SA      DESCRIPTION = Intr, met;
75Bg0159SA      LITH = Felsic igneous rk;
75Bg0159SA      MINS = Qtz, Plag, Py, Chl;
75Bg0159SA      TEXTURE = Relict porphyritic;
75Bg0159SA      CONDITION = Fresh;
75Bg0159SA      REMARKS = "Felsic porphyroaphanite";
75Bg0159SA
75Bg0159T  TEXT = Light-brown weathering very silicic (felsic) igneous (or volcaniclastic?) rock that contains
75Bg0159T        conspicuous dissem Py and possibly other sulfides.  Numerous Qtz vns, lenses.  Texturally the
75Bg0159T        rock ranges from massive to extremely fissile, and at least some of it shows what is almost
75Bg0159T        certainly relict feldspar porphyritic texture (esp. the schist).  This rock probably is related
75Bg0159T        to QDIO-GDIO pluton--it crops out for about 100 meters and is followed to NE by metapelite--
75Bg0159T        compare with "pluton" on Bump Island.;
75Bg0159  ----------------------------------------------------------------------------------------------------
•
75Bg0160            STATION = 75ABg0160;
75Bg0160            DATE = 7/25/75;
75Bg0160            QUAD = KC C-6;
75Bg0160            LAT = 55/31/11;
75Bg0160            LONG = 131/46/00;
75Bg0160            PURPOSE = Geol, geochem;
75Bg0160
75Bg0160   TEXT-TOPIC = Lith;
75Bg0160
75Bg0160   STRUCTURE:
75Bg0160        FOL-SCH = 325/60;
75Bg0160        JOINT = 280/75;
75Bg0160        JOINT = 360/55;
75Bg0160
75Bg0160SA SAMPLE NUMBER = 75ABg0160A;
75Bg0160SA      UNIT = PS;
75Bg0160SA      SOURCE = OTC;
75Bg0160SA      TYPE = Repres;
75Bg0160SA      PURPOSE = Hand spec;
75Bg0160SA      DESCRIPTION = Sed, Met;
75Bg0160SA      LITH = Metapelite;
75Bg0160SA      FORM = Bedded;
75Bg0160SA      MINS = Qtz, Bio, Py;
75Bg0160SA      TEXTURE = Schistose;
75Bg0160SA      CONDITION = Alter;
75Bg0160SA      REMARKS = Rusty-weathering.  Spec sample is composite of chips from 3 different layers.;
75Bg0160SA
75Bg0160T  TEXT = Rusty weathering, regularly laminated, metapelite.
75Bg0160T        Foln/sch = comp layering.;
75Bg0160  ----------------------------------------------------------------------------------------------------
•
75Bg0161            STATION = 75ABg0161;
75Bg0161            DATE = 7/1
75Bg0161            QUAD = KC C-6;
75Bg0161            LAT = 55/31/49;
75Bg0161            LONG = 131/42/59;
75Bg0161            PURPOSE = Geol;
75Bg0161
```

```
75Bg0161   TEXT-TOPIC = Lith;
75Bg0161
75Bg0161   STRUCTURE;
75Bg0161        FOL-SCH = 345/20-40;
75Bg0161
75Bg0161SA SAMPLE NUMBER = 75ABg0161A;
75Bg0161SA      UNIT = PS;
75Bg0161SA      SOURCE = Rubble;
75Bg0161SA      TYPE = Repres;
75Bg0161SA      PURPOSE = Hand spec;
75Bg0161SA      DESCRIPTION = Sed, met;
75Bg0161SA      LITH = Metapelite;
75Bg0161SA      MINS = Bio, Garn, Musc;
75Bg0161SA      TEXTURE = Fissile;
75Bg0161SA      CONDITION = Fresh;
75Bg0161SA
75Bg0161T  TEXT = JOE ISLAND, CLOVER PASSAGE.
75Bg0161T       Dark silvery gray to black phyllite and very fine grained schist derived from thinly interbedded
75Bg0161T       siltstone and mudstone.  There are also a few 2-3 cm-thick zones of greenish-gray weathering
75Bg0161T       phyllite.  The unit is complexly folded, with numerous hinges, crossing lineations, kinks, etc.
75Bg0161T       It also contains QZ+-CARB veins, mostly parallel to the foliation.  Many of these are isoclinally
75Bg0161T       folded (foln/sch = AP).  Lgst vns are up to a meter or so thick and several meters long.
75Bg0161T       Some are FE-stained.  Phyllite contains minute Garn porphyroblasts.;
75Bg0161  ----------------------------------------------------------------------------------------------------
#
75Bg0162            STATION = 75ABg0162;
75Bg0162            DATE = 7/26/75;
75Bg0162            QUAD = KC C-6;
75Bg0162            LAT = 55/32/08;
75Bg0162            LONG = 131/42/39;
75Bg0162            PURPOSE = Geol;
75Bg0162
75Bg0162   TEXT-TOPIC = Lith;
75Bg0162
75Bg0162   STRUCTURE;
75Bg0162        FOL-SCH = 295/32;
75Bg0162        OTHER = Sil 295/32;
75Bg0162
75Bg0162SA SAMPLE NUMBER = 75ABg0162A;
75Bg0162SA      UNIT = PS;
75Bg0162SA      SOURCE = OTC, Rubble;
75Bg0162SA      TYPE = Repres;
75Bg0162SA      PURPOSE = Hand spec;
75Bg0162SA      DESCRIPTION = Sed, met;
75Bg0162SA      LITH = Metapelite;
75Bg0162SA      FORM = Bedded;
75Bg0162SA      MINS = Qtz, Bio, Staur, Garn;
75Bg0162SA      TEXTURE = Foliated;
75Bg0162SA      CONDITION = Fresh;
75Bg0162SA
75Bg0162SA SAMPLE NUMBER = 75ABg0162B;
75Bg0162SA      UNIT = PS;
75Bg0162SA      SOURCE = OTC;
75Bg0162SA      TYPE = Repres;
75Bg0162SA      PURPOSE = Hand spec;
75Bg0162SA      DESCRIPTION = Intr;
75Bg0162SA      LITH = Quartz monz;
75Bg0162SA      FORM = Sill;
75Bg0162SA      MINS = Qtz, Plag, Musc;
75Bg0162SA      TEXTURE = Granitic;
75Bg0162SA      CONDITION = Fresh;
```

```
75Bg0162SA
75Bg0162T  TEXT = Dark brownish gray metapelite containing tiny porphyroblasts of staurolite and garnet.  I can
75Bg0162T        also identify biotite.  The beds are less fissile than at 161--they are also intruded, but not
75Bg0162T        contact metd by, a meter thick sill  and at least one dike leuco QM  and pegmatite.
75Bg0162T        Between 161 & 162 the metapelite is intruded by several dikes or sills of QDio ranging from a
75Bg0162T        meter to perhaps 10 meters thick.;
75Bg0162  ------------------------------------------------------------------------------------------------------
#
75Bg0163              STATION = 75ABg0163;
75Bg0163              DATE = 7/26/75;
75Bg0163              QUAD = KC C-6;
75Bg0163              LAT = 55/32/12;
75Bg0163              LONG = 131/43/18;
75Bg0163              PURPOSE = Geol;
75Bg0163
75Bg0163   TEXT-TOPIC = Lith;
75Bg0163
75Bg0163   STRUCTURE;
75Bg0163        FOL-SCH = 328/55-75;
75Bg0163
75Bg0163SA SAMPLE NUMBER = 75ABg0163A;
75Bg0163SA      UNIT = PS;
75Bg0163SA      SOURCE = Float;
75Bg0163SA      TYPE = Repres;
75Bg0163SA      PURPOSE = Hand spec;
75Bg0163SA      DESCRIPTION = Sed, met;
75Bg0163SA      LITH = Metapelite;
75Bg0163SA      MINS = Qtz, Garn, Musc;
75Bg0163SA      TEXTURE = Foliated;
75Bg0163SA      CONDITION = Fresh;
75Bg0163SA
75Bg0163T  TEXT = GRANT ISLAND.
75Bg0163T        Fissile, lineated, etc. metapelite.  Tiny islet just offshore is QDIO.  Qtz veins, etc, parallel
75Bg0163T        to foln.  Rx have finely crinkled, lustrous, Mu-rich fol surfaces that are studded with minute
75Bg0163T        pblsts of GA.  Many of the Garn xls in turn are coated with Chl?.;
75Bg0163  ------------------------------------------------------------------------------------------------------
#
75Bg0164              STATION = 75ABg0164;
75Bg0164              DATE = 7/26/75;
75Bg0164              QUAD = KC C-6;
75Bg0164              LAT = 55/33/02;
75Bg0164              LONG = 131/43/40;
75Bg0164              PURPOSE = Geol;
75Bg0164
75Bg0164   TEXT-TOPIC = Lith;
75Bg0164
75Bg0164   STRUCTURE;
75Bg0164        FOL-SCH = 313/60;
75Bg0164
75Bg0164SA SAMPLE NUMBER = 75ABg0164A;
75Bg0164SA      UNIT = PS;
75Bg0164SA      SOURCE = OTC;
75Bg0164SA      TYPE = Repres;
75Bg0164SA      PURPOSE = Hand spec, T. S.;
75Bg0164SA      DESCRIPTION = Extr, met;
75Bg0164SA      LITH = Metatuff?;
75Bg0164SA      MINS = Qtz, Plag, Chl, Garn, Musc;
75Bg0164SA      TEXTURE = Fol;
75Bg0164SA      CONDITION = Fresh;
75Bg0164SA
75Bg0164T  TEXT = Phyllitic, lineated, etc., metapelite and light brown weath flsc schist cont Garn pblsts.
```

```
75Bg0164T        Brown sch might be flsc metatuff simlr to "metadacite" on Hump Is.  The sch struct olies the
75Bg0164T        metapelite--the contact is sl discordant to the fol in the mpel--in part it is fltd, w/ local
75Bg0164T        Qtz veining.;
75Bg0164  ------------------------------------------------------------------------------------------------
#
75Bg0165              STATION = 75ABg0165;
75Bg0165              DATE = 7/26/75;
75Bg0165              QUAD = KC C-6;
75Bg0165              LAT = 55/33/09;
75Bg0165              LONG = 131/43/41;
75Bg0165              PURPOSE = Geol;
75Bg0165
75Bg0165   TEXT-TOPIC = Lith;
75Bg0165
75Bg0165   STRUCTURE;
75Bg0165        FOL-SCH = 320/38;
75Bg0165
75Bg0165SA SAMPLE NUMBER = 75ABg0165A;
75Bg0165SA      UNIT = PS;
75Bg0165SA      SOURCE = OTC;
75Bg0165SA      TYPE = Repres;
75Bg0165SA      PURPOSE = Hand spec;
75Bg0165SA      DESCRIPTION = Extr, Met;
75Bg0165SA      LITH = Flsc metatuff;
75Bg0165SA      FORM = Bed?;
75Bg0165SA      MINS = Qtz, Plag, Garn, Musc;
75Bg0165SA      TEXTURE = Schistose;
75Bg0165SA      CONDITION = Fresh;
75Bg0165SA
75Bg0165SA SAMPLE NUMBER = 75ABg0165B;
75Bg0165SA      UNIT = PS;
75Bg0165SA      SOURCE = OTC;
75Bg0165SA      TYPE = Repres;
75Bg0165SA      PURPOSE = Hand spec;
75Bg0165SA      DESCRIPTION = Intr;
75Bg0165SA      LITH = Andesitic fldspr porp;
75Bg0165SA      FORM = Dike;
75Bg0165SA      MINS = Plag;
75Bg0165SA      TEXTURE = Porphyritic;
75Bg0165SA      CONDITION = Fresh;
75Bg0165SA      REMARKS = Spl coll from 2 meter dike abt 1/4 mi N. of station and abt 75 meters N. of light
75Bg0165SA
75Bg0165T  TEXT = Fol/sch = comp layerg.
75Bg0165T        Interlayered lt brn weath flsc sch and metapelite.  Weath surf of the sch is studded w/ 1/2 cm
75Bg0165T        Plag grains, at least some of wh may be relict phenos.  The rk also contains abndnt Garn pblsts
75Bg0165T        1-2 mm in diam.  This and nearby otcps sugg that the two rk types are interstratified.  I believe
75Bg0165T        that the schist is dacitic(?) metatuff and that it intertongues w/ the metapelite.
75Bg0165T        "HUMP ISLAND"---Felsic schist and related rocks N. tip Hump Island and 75ABg165-167.
75Bg0165T        Most of the N. tip of Hump Island consists of rusty-weathering felsic rocks that appear to grade
75Bg0165T        from very fissile schist to metamorphosed, but not fissile, fine-grain granitic rock.  The fresh
75Bg0165T        rock is pale silvery and greenish gray.  I can identify QZ, FSPR, CL?, MV, GA, & BI.  Many are
75Bg0165T        feldspar-porphyritic.  The unit, which is identical to rx at 75ABg159, is struct concordant with
75Bg0165T        the metapelite, which on N. Hump Is. underlies, or is infolded with it.  Not sure whether felsic
75Bg0165T        schist is intrusive or extrusive--in any case, its contact with the metapelite is marked by intense
75Bg0165T        FE-staining (PY).  Tentatively classify the schist as dacitic metatuff and the less foliated,
75Bg0165T        granitic, rock as meta-granodiorite.  These two types are gradational.  The felsic rocks are
75Bg0165T        intruded by BI-pyroxenite  and lamprophyre dikes but evidently not by "typical" GA-bearing QD or
75Bg0165T        GD "Insular" plutons.  If "Insular" plutons are absent, this might be evidence that the felsic unit
75Bg0165T        is equivalent to, but not intruded by, them (at least in part).
75Bg0165T        Possible explanations.  Felsic rocks are:
75Bg0165T             (1) G-N belt age intrusive-extrusive assemblage representing a (vented) pluton and its
```

```
75Bg0165T        volcanic roof,
75Bg0165T             (2) foliated/metamorphosed intrusive rocks of the 77-87 m.y. old "Insular" plutons.  If
75Bg0165T        the Insular plutons are older than 77-87 m.y.,
75Bg0165T        the vented pluton explanation is applicable.
75Bg0165T        Both (1) & (2) may be true.  Data supporting (1) include relict clasts in felsic metatuff
75Bg0165T        at 75ABK34D (Hump Island) and "interstratified" metatuff and metapelite at 75ABg165 and elsewhere.
75Bg0165T        Data supporting (2) include gradational relations between schistose metatuff and fine-grain
75Bg0165T        granitic rock on Hump Island and at 75ABg159, and schistose GA-bearing QD dike at 75ABg167.;
75Bg0165  ------------------------------------------------------------------------------------------------------
#
75Bg0166             STATION = 75ABg0166;
75Bg0166             DATE = 7/26/75;
75Bg0166             QUAD = KC C-6;
75Bg0166             LAT = 55/33/40;
75Bg0166             LONG = 131/43/34;
75Bg0166             PURPOSE = Geol;
75Bg0166
75Bg0166   TEXT-TOPIC = Lith;
75Bg0166
75Bg0166SA SAMPLE NUMBER = 75ABg0166A;
75Bg0166SA      UNIT = PS;
75Bg0166SA      SOURCE = OTC;
75Bg0166SA      TYPE = Repres;
75Bg0166SA      PURPOSE = Hand spec;
75Bg0166SA      DESCRIPTION = Intr, Met;
75Bg0166SA      LITH = Qtz Dio;
75Bg0166SA      FORM = Dike or sill;
75Bg0166SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0166SA      TEXTURE = Foliated-granitic;
75Bg0166SA      CONDITION = Alter, weathered;
75Bg0166SA
75Bg0166T  TEXT = Dike or sill of plutonic rock cuts metapelite.  Some of the dike is feldspar porphyritic
75Bg0166T        (2 or 3 mm xls) and I think it contains Garn pblsts.  The rock is rather mafic Qtz metadiorite
75Bg0166T        that prob correlates w/ "Insular" plutons.  Number of dikes and Qtz veins in metapelite
75Bg0166T        increases to north.;
75Bg0166  ------------------------------------------------------------------------------------------------------
#
75Bg0167             STATION = 75ABg0167;
75Bg0167             DATE = 7/26/75;
75Bg0167             QUAD = KC C-6;
75Bg0167             LAT = 55/33/36;
75Bg0167             LONG = 131/43/29;
75Bg0167             PURPOSE = Geol;
75Bg0167
75Bg0167   TEXT-TOPIC = Lith;
75Bg0167
75Bg0167   STRUCTURE;
75Bg0167        FOL-SCH = 0/25;
75Bg0167        FAULT-SHEAR = 300/25;
75Bg0167        OTHER = 352/40;
75Bg0167
75Bg0167SA SAMPLE NUMBER = 75ABg0167A;
75Bg0167SA      UNIT = PS;
75Bg0167SA      SOURCE = OTC;
75Bg0167SA      TYPE = Repres;
75Bg0167SA      PURPOSE = Hand spec, T. S.;
75Bg0167SA      DESCRIPTION = Met;
75Bg0167SA      LITH = Felsic schist;
75Bg0167SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0167SA      TEXTURE = Fissile;
75Bg0167SA      CONDITION = Alter;
```

```
75Bg0167SA      REMARKS = Weathered;
75Bg0167SA
75Bg0167SA SAMPLE NUMBER = 75ABg0167B;
75Bg0167SA      UNIT = PS;
75Bg0167SA      SOURCE = OTC;
75Bg0167SA      TYPE = Repres;
75Bg0167SA      PURPOSE = T. S.;
75Bg0167SA      DESCRIPTION = Intr, met;
75Bg0167SA      LITH = Qtz metadiorite;
75Bg0167SA      FORM = Dike;
75Bg0167SA      MINS = Qtz, Plag, Bio, Act, Garn;
75Bg0167SA      TEXTURE = Foliated;
75Bg0167SA      CONDITION = Fresh;
75Bg0167SA      REMARKS = Act not confirmed;
75Bg0167SA
75Bg0167T  TEXT = What appears to be a 2-meter dike of felsic, relict feldspar-porphyritic, GA-bearing schist appears
75Bg0167T         to intrude metapelite.  But close examination shows that the discordance is structural (fault ctct);
75Bg0167T         Fol/sch in both rk types is parallel.
75Bg0167T         Fifty meters N. of station an obvious dike of fol QD, 1/3 meter thick, does cut the metapelite.
75Bg0167T         This is sample 167B.  It is relict feldspar porphyritic, markedly foliated but not fissile,
75Bg0167T         and contains very sparse Garn porphyroblasts.  If this rock is same (except for degree of foliation)
75Bg0167T         as 167A, it may be possible to correlate most of felsic schist in this area with the "Insular"
75Bg0167T         plutons.;
75Bg0167  ----------------------------------------------------------------------------------------------------
*
75Bg0168              STATION = 75ABg0168;
75Bg0168              DATE = 7/27/75;
75Bg0168              QUAD = KC C-6;
75Bg0168              LAT = 55/32/41;
75Bg0168              LONG = 131/43/08;
75Bg0168              PURPOSE = Geol;
75Bg0168
75Bg0168   TEXT-TOPIC = Lith;
75Bg0168
75Bg0168   STRUCTURE:
75Bg0168        FOL-SCH = 013/34;
75Bg0168
75Bg0168SA SAMPLE NUMBER = 75ABg0168A;
75Bg0168SA      UNIT = PS;
75Bg0168SA      SOURCE = Float;
75Bg0168SA      TYPE = Repres;
75Bg0168SA      PURPOSE = Hand spec;
75Bg0168SA      DESCRIPTION = Sed, met;
75Bg0168SA      LITH = Metapelite;
75Bg0168SA      FORM = Layered;
75Bg0168SA      MINS = Qtz, Bio, Act, Garn;
75Bg0168SA      TEXTURE = Foliated and porphyroblastic;
75Bg0168SA      CONDITION = Fresh;
75Bg0168SA
75Bg0168T  TEXT = Regularly layered metapelite containing minute Garn and Act porphyroblasts.  The Act xls occur
75Bg0168T         on certain foliation surfaces--they are about 1 mm long and randomly oriented on the surface.
75Bg0168T         This texture suggests thermal overprinting on an earlier foliation.
75Bg0168T         Numerous QZ+-CARB vnlts parallel to fol/sch.
75Bg0168T         A few meters n. of station there are abt 1/3 m (beds or) sills of brown weath flsc schist
75Bg0168T         interlayered w/ the metapelite every 100 meters or so.  Still further n. this rk also forms DIKES.
75Bg0168T         Prob = Fol GA-bearg QDio.;
75Bg0168  ----------------------------------------------------------------------------------------------------
*
75Bg0169              STATION = 75ABg0169;
75Bg0169              DATE = 7/27/75;
75Bg0169              QUAD = KC C-6;
```

```
75Bg0169              LAT = 55/33/23;
75Bg0169              LONG = 131/42/17;
75Bg0169              PURPOSE = Geol;
75Bg0169
75Bg0169   TEXT-TOPIC = Lith;
75Bg0169
75Bg0169   STRUCTURE:
75Bg0169        FOL-SCH = 010/25;
75Bg0169        FOL-SCH = 350/30 (sill);
75Bg0169        OTHER-LIN = 128/20 (B/C);
75Bg0169        OTHER = Sil 010/25;
75Bg0169
75Bg0169SA SAMPLE NUMBER = 75ABg0169A;
75Bg0169SA      UNIT = PS;
75Bg0169SA      SOURCE = OTC;
75Bg0169SA      TYPE = Repres;
75Bg0169SA      PURPOSE = Hand spec;
75Bg0169SA      DESCRIPTION = Sed, met;
75Bg0169SA      LITH = QDio;
75Bg0169SA      FORM = Sill;
75Bg0169SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0169SA      TEXTURE = Foliated + granoblastic;
75Bg0169SA      CONDITION = Fresh;
75Bg0169SA
75Bg0169T  TEXT = For abt 50 m shore otcp consists of upper surface of brown-weath 1 meter QDio sill.  Surface
75Bg0169T        is gently concave upward.  Country rock is metapelite (GA, ACT).
75Bg0169T        Sill is foliated but not fissile--contains Plag phenos and Garn metacrysts.  Foln in sill is nearly
75Bg0169T        parallel to fol in adjacent metapelite.;
75Bg0169  ------------------------------------------------------------------------------------------------------
#
75Bg0170              STATION = 75ABg0170;
75Bg0170              DATE = 7/27/75;
75Bg0170              QUAD = KC C-6;
75Bg0170              LAT = 55/33/47;
75Bg0170              LONG = 131/42/19;
75Bg0170              PURPOSE = Geol, geochem;
75Bg0170
75Bg0170   TEXT-TOPIC = Lith;
75Bg0170
75Bg0170   STRUCTURE;
75Bg0170        FOL-SCH = 340/60;
75Bg0170
75Bg0170SA SAMPLE NUMBER = 75ABg0170A;
75Bg0170SA      UNIT = QDio;
75Bg0170SA      SOURCE = OTC;
75Bg0170SA      TYPE = Repres;
75Bg0170SA      PURPOSE = Hand spec;
75Bg0170SA      DESCRIPTION = Intr, met;
75Bg0170SA      LITH = QDio;
75Bg0170SA      FORM = Pluton;
75Bg0170SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
75Bg0170SA      TEXTURE = Granoblastic, foliated;
75Bg0170SA      CONDITION = Fresh;
75Bg0170SA
75Bg0170SA SAMPLE NUMBER = 75ABg0170B;
75Bg0170SA      UNIT = PS;
75Bg0170SA      SOURCE = OTC;
75Bg0170SA      TYPE = Repres;
75Bg0170SA      PURPOSE =  Hand spec, spec;
75Bg0170SA      DESCRIPTION = Sed, met;
75Bg0170SA      LITH = Metapelite;
```

```
75Bg0170SA      FORM = Layered;
75Bg0170SA      MINS = Qtz, Bio, Py;
75Bg0170SA      TEXTURE = Granoblastic, foliated;
75Bg0170SA      CONDITION = Alter, FE-stained;
75Bg0170SA
75Bg0170T  TEXT = Contact between GA-bearg QD pluton and mildly baked, loc Fe-stained metapelite.
75Bg0170T        The contact is clearly intrusive and ranges from concordant w/ fol/sch in metapelite to
75Bg0170T        markedly discordant.
75Bg0170T        Near the ctct the pluton is cut by a few leucoaplite dikes.  There are few country rock
75Bg0170T        xenoliths, however, and few apophyses of QD in the metapelite.
75Bg0170T        Pluton is fol to gnc (parallel to fol/sch in metapel) and loc fissile nr ctct--it is msv, w/o
75Bg0170T        strong fola abt 5 meters from ctct.;
75Bg0170  ------------------------------------------------------------------------------------------------
*
75Bg0171            STATION = 75ABg0171;
75Bg0171            DATE = 7/27/75;
75Bg0171            QUAD = KC C-6;
75Bg0171            LAT = 55/37/32;
75Bg0171            LONG = 131/42/38;
75Bg0171
75Bg0171   STRUCTURE;
75Bg0171        FOL-SCH = 307/38
75Bg0171        CLEAVAGE = 180/75 (SS);
75Bg0171        JOINT = 175/35;
75Bg0171        JOINT = 215/55;
75Bg0171        OTHER-LIN = 077/35 (M, Str);
75Bg0171
75Bg0171SA SAMPLE NUMBER = 75ABg0171A;
75Bg0171SA      UNIT = PS;
75Bg0171SA      SOURCE = OTC, float;
75Bg0171SA      TYPE = Repres;
75Bg0171SA      PURPOSE = Hand spec;
75Bg0171SA      DESCRIPTION = Sed, met;
75Bg0171SA      LITH = Metapelite;
75Bg0171SA      FORM = Layered;
75Bg0171SA      MINS = Qtz, Plag, Bio, Py, Act, Garn, Musc;
75Bg0171SA      TEXTURE = Foliated, porphyroblastic;
75Bg0171SA      CONDITION = Fresh;
75Bg0171SA
75Bg0171T  TEXT = Coast north of Naha Bay.
75Bg0171T        Strikingly regularly layered metapelite containing BI, GA, & Act pblsts (1/2 mm).
75Bg0171T        The unit contains numerous veins of white quartz that mostly are parallel to fol or intersect it
75Bg0171T        at small angle.  Locally the coast is abundantly strewn with quartz float in boulders a meter
75Bg0171T        or more in max dimension.
75Bg0171T        Metapelite derived from thinly (avg. < 1 meter) interbedded mudstone, siltstone, and minor
75Bg0171T        sandstone and feldspathic-lithic grit.;
75Bg0171  ------------------------------------------------------------------------------------------------
*
75Bg0172            STATION = 75ABg0172;
75Bg0172            DATE = 7/27/75;
75Bg0172            QUAD = KC C-6;
75Bg0172            LAT = 55/36/52;
75Bg0172            LONG = 131/41/55;
75Bg0172            PURPOSE = Geol;
75Bg0172
75Bg0172   TEXT-TOPIC = Lith;
75Bg0172
75Bg0172   STRUCTURE;
75Bg0172        FOL-SCH = 297/45;
75Bg0172        FOL-SCH = 325/25;
75Bg0172        OTHER-LIN = 062/25 (Str);
```

```
75Bg0172        OTHER = Alined metacrysts 033/20 (M);
75Bg0172
75Bg0172SA SAMPLE NUMBER = 75ABg0172A;
75Bg0172SA      UNIT = PS;
75Bg0172SA      SOURCE = Float;
75Bg0172SA      TYPE = Repres;
75Bg0172SA      PURPOSE = Hand spec;
75Bg0172SA      DESCRIPTION = Sed, met;
75Bg0172SA      LITH = Metapelite;
75Bg0172SA      MINS = Qtz, Bio, Act, Garn;
75Bg0172SA      TEXTURE = Foliated, porphyroblastic;
75Bg0172SA      CONDITION = Fresh;
75Bg0172SA
75Bg0172SA SAMPLE NUMBER = 75ABg0172B;
75Bg0172SA      UNIT = PS;
75Bg0172SA      SOURCE = Float;
75Bg0172SA      TYPE = Repres;
75Bg0172SA      PURPOSE = Hand spec;
75Bg0172SA      DESCRIPTION = Sed, met;
75Bg0172SA      LITH = Calc sltst or silty lst;
75Bg0172SA      FORM = Conical/segmented;
75Bg0172SA      MINS = Qtz, Carb;
75Bg0172SA      TEXTURE = Very finely granular;
75Bg0172SA      REMARKS = Belemnite-shaped object 10 cm long in phyllite.;
75Bg0172SA
75Bg0172T  TEXT = INDIAN POINT
75Bg0172T       Metapelite containing millimeter or so size metacrysts of Garn & ACT.  Any  fol surfs are lustrous
75Bg0172T       (muscovite) and show alined metacrysts.  Garn metacrysts are coated (ptly repl?) By cl.
75Bg0172T       Rk is complexly lineated, kinked, jointed.  Veins, pods white QZ--QZ float boulders to 2 or 3 meters
75Bg0172T       Many of the vns include, or are in ctct w/, coarse muscovite schist.  Weathered surfs or some
75Bg0172T       MU-phyllite float show interesting heiroglyphic-like pitting due to selective erosion along
75Bg0172T       joint or other planes.  This feature might be mistaken for petroglyphs.
75Bg0172T       FOSSIL ???
75Bg0172T       Find one flattened, crudely segmented, cigar-shaped object about 10 cm long in the phyllite.
75Bg0172T       Resembles a belemnite but could be inorganic.  Object is dk brownish gray--composed of calcareous
75Bg0172T       sltstn or silty lst.;
75Bg0172  ------------------------------------------------------------------------------------------------------
*
75Bg0173            STATION = 75ABg0173;
75Bg0173            DATE = 7/27/75;
75Bg0173            QUAD = KC C-6;
75Bg0173            LAT = 55/36/37;
75Bg0173            LONG = 131/40/38;
75Bg0173            PURPOSE = Geol;
75Bg0173
75Bg0173   TEXT-TOPIC = Lith;
75Bg0173
75Bg0173   STRUCTURE;
75Bg0173        FOL-SCH = 325/28;
75Bg0173        OTHER-LIN = 047/28 (M);
75Bg0173        OTHER = Fol in Dike 349/25;
75Bg0173        OTHER = Fol QD Dike 295/60;
75Bg0173
75Bg0173SA SAMPLE NUMBER = 75ABg0173A;
75Bg0173SA      UNIT = PS;
75Bg0173SA      SOURCE = Float;
75Bg0173SA      TYPE = Repres;
75Bg0173SA      PURPOSE = Hand spec;
75Bg0173SA      DESCRIPTION = Sed, met;
75Bg0173SA      LITH = Metapelite;
75Bg0173SA      MINS = Qtz, Plag, Bio, Py, Act, Garn, Musc;
```

```
75Bg0173SA      TEXTURE = Foliated;
75Bg0173SA      CONDITION = Fresh;
75Bg0173SA      REMARKS = 3 pieces;
75Bg0173SA
75Bg0173T  TEXT = Metapelite cont alined minute pblsts of GA, ACT.  Unit conts. thin (3-4 cm) layers of brown
75Bg0173T        weath silty lst.  Qtz vns, etc., to 1 m thick, mainly parallel to fol.  Some of the Qtz is rusty,
75Bg0173T        but see no sulfide.
75Bg0173T        Metapelite is cut by a 1 meter dike of foliated Qtz metadiorite.  Adjacent to ctct the dike is
75Bg0173T        very fissile--fissility is nearly parallel to fol/sch in metapelite.  Dike obviously is
75Bg0173T        "premetamorphic".;
75Bg0173  ------------------------------------------------------------------------------------------------
#
75Bg0174            STATION = 75ABg0174;
75Bg0174            DATE = 7/27/75;
75Bg0174            QUAD = KC C-5;
75Bg0174            LAT = 55/36/14;
75Bg0174            LONG = 131/38/21;
75Bg0174            PURPOSE = Geol;
75Bg0174
75Bg0174   TEXT-TOPIC = Lith;
75Bg0174
75Bg0174   STRUCTURE;
75Bg0174        FOL-SCH = 323/30;
75Bg0174        CLEAVAGE = 323/30;
75Bg0174
75Bg0174SA SAMPLE NUMBER = 75ABg0174A;
75Bg0174SA      UNIT = PS;
75Bg0174SA      SOURCE = OTC;
75Bg0174SA      TYPE = Repres;
75Bg0174SA      PURPOSE = Hand spec;
75Bg0174SA      DESCRIPTION = Intr, mat;
75Bg0174SA      LITH = Qtz microdiorite?;
75Bg0174SA      FORM = Pluton?;
75Bg0174SA      MINS = Qtz, Plag, Bio;
75Bg0174SA      TEXTURE = Very finely schistose or granoblastic;
75Bg0174SA      CONDITION = Fresh;
75Bg0174SA
75Bg0174T  TEXT = The beach at this sta is heavily littered w/ phyllitic metapelite, but the rock that crops out
75Bg0174T        is a dense, tough, very fine grain Bio schist or hornfels.  The rock weaths uniform to locally
75Bg0174T        faintly banded olive gray--most of it is cleaved and jointed, but some is quite fissile.  It is
75Bg0174T        also foliated, but not phyllitic or schistose as in the metapelite.  Some of this stuff could be
75Bg0174T        thoroughly cooked metapelite, I suppose, but I believe that most of otcp is metamorphosed
75Bg0174T        intrusive rock, perhaps Qtz microdiorite.;
75Bg0174  ------------------------------------------------------------------------------------------------
#
75Bg0175            STATION = 75ABg0175;
75Bg0175            DATE = 7/27/7;
75Bg0175            QUAD = KC C-5;
75Bg0175            LAT = 55/36/05;
75Bg0175            LONG = 131/37/49;
75Bg0175            PURPOSE = Geol;
75Bg0175
75Bg0175   TEXT-TOPIC = Lith;
75Bg0175
75Bg0175   STRUCTURE;
75Bg0175        FOL-SCH = 300/25;
75Bg0175        OTHER-LIN = 45/25 (B/C);
75Bg0175
75Bg0175SA SAMPLE NUMBER = 75ABg0175A;
75Bg0175SA      UNIT = HPS;
75Bg0175SA      SOURCE = OTC;
```

```
75Bg0175SA      TYPE = Repres;
75Bg0175SA      PURPOSE = Hand spec;
75Bg0175SA      DESCRIPTION = Intr, met;
75Bg0175SA      LITH = QDio;
75Bg0175SA      FORM = Sill;
75Bg0175SA      MINS = Qtz, Plag, Bio, Chl, Garn;
75Bg0175SA      TEXTURE = Foliated;
75Bg0175SA      CONDITION = Fresh;
75Bg0175SA
75Bg0175T  TEXT = "Cooked" metapelite--1 meter Sil of metamorphosed plutonic rock (GA ?-bearg QDio).  Metapel
75Bg0175T        conts alined GA, Act metacrysts.  Rx at this sta are unmistakably metaseds and quite
75Bg0175T        distinctive from the possible intrusive at 174.;
75Bg0175  ----------------------------------------------------------------------------------------------------
#
75Bg0176             STATION = 75ABg0176;
75Bg0176             DATE = 7/27/75;
75Bg0176             QUAD = KC C-5;
75Bg0176             LAT = 55/35/54;
75Bg0176             LONG = 131/37/32;
75Bg0176             PURPOSE = Geol;
75Bg0176
75Bg0176   TEXT-TOPIC = Lith;
75Bg0176
75Bg0176   STRUCTURE:
75Bg0176        FOL-SCH = 245/60;
75Bg0176        CLEAVAGE = 034/45 (AP);
75Bg0176        OTHER-LIN = 030/25 (Bound);
75Bg0176
75Bg0176SA SAMPLE NUMBER = 75ABg0176A;
75Bg0176SA      UNIT = HPS;
75Bg0176SA      SOURCE = OTC;
75Bg0176SA      TYPE = Repres;
75Bg0176SA      PURPOSE = Hand spec, T. S.;
75Bg0176SA      DESCRIPTION = Sed, met;
75Bg0176SA      LITH = Metapelite;
75Bg0176SA      FORM = Bedded;
75Bg0176SA      MINS = Qtz, Plag, Bio, Act, Garn;
75Bg0176SA      TEXTURE = Granoblastic;
75Bg0176SA      CONDITION = Fresh;
75Bg0176SA      REMARKS = Act not confirmed;
75Bg0176SA
75Bg0176T  TEXT = Hornfelsed metapelite--at least it looks cooked, altho many layers are not particularly flinty.
75Bg0176T        The main mesoscopic effect of thermal met evid is to harden up some comp layers and reduce
75Bg0176T        fissility somewhat.  It may also reduce the grain size, because metacrysts seem rarer at this
75Bg0176T        locality than in less-cooked metapelite at earlier stations.;
75Bg0176  ----------------------------------------------------------------------------------------------------
#
75Bg0177             STATION = 75ABg0177;
75Bg0177             DATE = 7/27/75;
75Bg0177             QUAD = KC C-5;
75Bg0177             LAT = 55/35/18;
75Bg0177             LONG = 131/36/55;
75Bg0177             PURPOSE = Geol;
75Bg0177
75Bg0177   TEXT-TOPIC = Lith;
75Bg0177
75Bg0177   STRUCTURE:
75Bg0177        FOL-SCH = 280/26;
75Bg0177        OTHER-LIN = 055/20 str;
75Bg0177
75Bg0177T  TEXT = Metapelite cont tiny Garn metacrysts.  Rx do not seem as hornfelsed as at 176.
```

```
75Bg0177T        No spl.
75Bg0177T        I had planned to skiff Roosevelt Lagoon, but tide will not permit this for an hour or so.
75Bg0177T        At mid-rising tide, there is a heavy outflow of water from lagoon with a whitewater rapids
75Bg0177T        (class 4?) and a drop of about 2 meters.  There is an excellant trail (part boardwalk) acound n.
75Bg0177T        side of lagoon.;
75Bg0177 ----------------------------------------------------------------------------------------------------
#
75Bg0178             STATION = 75ABg0178;
75Bg0178             DATE = 7/27/75;
75Bg0178             QUAD = KC C-5;
75Bg0178             LAT = 55/35/20;
75Bg0178             LONG = 131/37/17;
75Bg0178             PURPOSE = Geol;
75Bg0178
75Bg0178   TEXT-TOPIC = Lith;
75Bg0178
75Bg0178   STRUCTURE;
75Bg0178        FOL-SCH = 280/50;
75Bg0178
75Bg0178SA SAMPLE NUMBER = 75ABg0178A;
75Bg0178SA      UNIT = HPS;
75Bg0178SA      SOURCE = OTC;
75Bg0178SA      TYPE = Repres;
75Bg0178SA      PURPOSE = Hand spec;
75Bg0178SA      DESCRIPTION = Sed, met;
75Bg0178SA      LITH = Metapelite;
75Bg0178SA      FORM = Layered;
75Bg0178SA      MINS = Qtz, Plag, Bio, Chl, Garn;
75Bg0178SA      TEXTURE = Phyllitic-schistose;
75Bg0178SA      CONDITION = Fresh;
75Bg0178SA      REMARKS = Garn not confirmed;
75Bg0178SA
75Bg0178T  TEXT = Phyllitic to distinctly schistose metapelite.containing BI, CL, and probably GA.
75Bg0178T        Rx seem more rxld than at 177.;
75Bg0178 ----------------------------------------------------------------------------------------------------
#
75Bg0179             STATION = 75ABg0179;
75Bg0179             DATE = 7/27/75;
75Bg0179             QUAD = KC C-5;
75Bg0179             LAT = 55/35/44;
75Bg0179             LONG = 131/38/38;
75Bg0179             PURPOSE = Geol;
75Bg0179
75Bg0179   TEXT-TOPIC = Lith;
75Bg0179
75Bg0179   STRUCTURE;
75Bg0179        FOL-SCH = 298/30;
75Bg0179        JOINT = 354/75;
75Bg0179        OTHER-LIN = 037/25 (Str);
75Bg0179
75Bg0179T  TEXT = Metapelite.
75Bg0179T        Fissile phyllite--crossing lineations--QZ+-CARB vnlts parallel foln.  Coast between 178 & 179
75Bg0179T        littered with abundant white Qtz in places.  Raining too hard to identify met minls.
75Bg0179T        No sample.;
75Bg0179 ----------------------------------------------------------------------------------------------------
#
75Bg0180             STATION = 75ABg0180;
75Bg0180             DATE = 7/27/75;
75Bg0180             QUAD = KC C-5;
75Bg0180             LAT = 55/35/18;
75Bg0180             LONG = 131/38/41;
```

```
1949.   75Bg0180              PURPOSE = Geol;
1950.   75Bg0180
1951.   75Bg0180   TEXT-TOPIC = Lith;
1952.   75Bg0180
1953.   75Bg0180   STRUCTURE;
1954.   75Bg0180        BEDDING = 025/15;
1955.   75Bg0180        FOL-SCH = 045/45;
1956.   75Bg0180        OTHER-LIN = 065/5 (B/C);
1957.   75Bg0180
1958.   75Bg0180T  TEXT = Fissile metapelite containing tiny Garn metacrysts.
1959.   75Bg0180T        The foliation between 170 & 180 generally is very low-dipping--this may account in part for
1960.   75Bg0180T        the table-top 300 foot hill east of Donnely Point.
1961.   75Bg0180T        There is abundant white Qtz in many places between 179 & 180 (esp for abt 1/2 mi. S. of Donnely Pt.)-
1962.   75Bg0180T        I suspect some of it may mark a flat fault that may dip eastward.  Need lower tide to check this,
1963.   75Bg0180T        however.
1964.   75Bg0180T        No sample.
1965.   75Bg0180  ----------------------------------------------------------------------------------------------------
1966.   #
1990.   75Bg0181              STATION = 75ABg0181;
1991.   75Bg0181              DATE = 7/27/75;
1992.   75Bg0181              QUAD = KC C-5;
1993.   75Bg0181              LAT = 55/34/22;
1994.   75Bg0181              LONG = 131/39/21;
1995.   75Bg0181              PURPOSE = Geol, geochem;
1996.   75Bg0181
1997.   75Bg0181   TEXT-TOPIC = Lith;
1998.   75Bg0181
1999.   75Bg0181   STRUCTURE;
2000.   75Bg0181        FOL-SCH = 330/30;
2001.   75Bg0181        OTHER-LIN = 034/30 (B/C);
2002.   75Bg0181
2003.   75Bg0181SA SAMPLE NUMBER = 75ABg0181A;
2004.   75Bg0181SA      UNIT = PS;
2005.   75Bg0181SA      SOURCE = OTC;
2006.   75Bg0181SA      TYPE = Repres;
2007.   75Bg0181SA      PURPOSE = Hand spec, spec;
2008.   75Bg0181SA      DESCRIPTION = Sed, met;
2009.   75Bg0181SA      LITH = Metapelite;
2010.   75Bg0181SA      FORM = Layered;
2011.   75Bg0181SA      MINS = Qtz, Plag, Bio;
2012.   75Bg0181SA      TEXTURE = Foliated;
2013.   75Bg0181SA      CONDITION = Alter, iron-stained;
2014.   75Bg0181SA
2015.   75Bg0181T  TEXT = Iron-stained metapelite containing quartz boudins to a meter long.;
2016.   75Bg0181  ----------------------------------------------------------------------------------------------------
2017.   #
2018.   75Bg0182              STATION = 75ABg0182;
2019.   75Bg0182              DATE = 7/28/75;
2020.   75Bg0182              QUAD = KC C-6;
2021.   75Bg0182              LAT = 55/40/23;
2022.   75Bg0182              LONG = 131/49/14;
2023.   75Bg0182              PURPOSE = Geol, geochem;
2024.   75Bg0182
2025.   75Bg0182   TEXT-TOPIC = Lith;
2026.   75Bg0182
2027.   75Bg0182   STRUCTURE;
2028.   75Bg0182        FOL-SCH = 315/25;
2029.   75Bg0182        OTHER = Contact 315/25;
2030.   75Bg0182        OTHER = Fol in Sil 280/40;
2031.   75Bg0182
2032.   75Bg0182SA SAMPLE NUMBER = 75ABg0182A;
```

```
2033.    75Bg0182SA      UNIT = MPS;
2034.    75Bg0182SA      SOURCE = OTC;
2035.    75Bg0182SA      TYPE = Repres;
2036.    75Bg0182SA      PURPOSE = T. S.;
2037.    75Bg0182SA      DESCRIPTION = Sed, met;
2038.    75Bg0182SA      LITH = Metapelite;
2039.    75Bg0182SA      FORM = Bedded;
2040.    75Bg0182SA      MINS = Qtz, Plag, Bio;
2041.    75Bg0182SA      TEXTURE = Granoblastic/foliated;
2042.    75Bg0182SA      CONDITION = Fresh;
2042.1   75Bg0182SA      REMARKS = TS = Hbl, Plag, Calc, Bio, Ep schist. Prob Calc mtff or tuffac Calc sltstn;
2043.    75Bg0182SA
2044.    75Bg0182SA SAMPLE NUMBER = 75ABg0182B;
2045.    75Bg0182SA      UNIT = QDio;
2046.    75Bg0182SA      SOURCE = OTC;
2047.    75Bg0182SA      TYPE = Repres;
2048.    75Bg0182SA      PURPOSE = Hand spec, spec;
2049.    75Bg0182SA      DESCRIPTION = Intr, met;
2050.    75Bg0182SA      LITH = GDio;
2051.    75Bg0182SA      FORM = Sill;
2052.    75Bg0182SA      MINS = Qtz, Plag, Py, Musc;
2053.    75Bg0182SA      TEXTURE = Foliated-granitic;
2054.    75Bg0182SA      CONDITION = Fresh;
2055.    75Bg0182SA
2056.    75Bg0182T  TEXT = PT. FRANCIS (S. ENTRANCE TO PORT STEWART)
2057.    75Bg0182T        Sill-like tabular body of GDio or leuco-QDio intrudes hornfelsed, but locally fissile, metapelite.
2058.    75Bg0182T        A few white Qtz vns, etc, up to a meter or so thick.
2059.    75Bg0182T        Local Fe-stain.
2060.    75Bg0182T        Near the contact, the sill has a marked planar structure, incl foln, that is nearly parallel
2061.    75Bg0182T        to fol/sch in metapel.;
2062.    75Bg0182  ----------------------------------------------------------------------------------------------
2063.    *
2064.    75Bg0183            STATION = 75ABg0183;
2065.    75Bg0183            DATE = 7/28/75;
2066.    75Bg0183            QUAD = KC C-6;
2067.    75Bg0183            LAT = 55/39/59;
2068.    75Bg0183            LONG = 121/49/20;
2069.    75Bg0183            PURPOSE = Geol, geochem;
2070.    75Bg0183
2071.    75Bg0183   TEXT-TOPIC = Lith, strat;
2072.    75Bg0183
2073.    75Bg0183   STRUCTURE;
2074.    75Bg0183        FOL-SCR = 312/30;
2075.    75Bg0183        JOINT = 155/55;
2076.    75Bg0183        OTHER-LIN = 088/15;
2077.    75Bg0183        OTHER = STR, M 048/25;
2078.    75Bg0183
2079.    75Bg0183SA SAMPLE NUMBER = 75ABg0183A;
2080.    75Bg0183SA      UNIT = SS + PS;
2081.    75Bg0183SA      SOURCE = Float;
2082.    75Bg0183SA      TYPE = Repres;
2083.    75Bg0183SA      PURPOSE = Hand spec;
2084.    75Bg0183SA      DESCRIPTION = Sed, met;
2085.    75Bg0183SA      LITH = Metapelite;
2086.    75Bg0183SA      MINS = Bio, Act;
2087.    75Bg0183SA      TEXTURE = Foliated;
2088.    75Bg0183SA      CONDITION = Fresh;
2089.    75Bg0183SA
2090.    75Bg0183SA SAMPLE NUMBER = 75ABg0183B;
2091.    75Bg0183SA      UNIT = PS;
2092.    75Bg0183SA      SOURCE = OTC;
```

```
2093.    75Bg0183SA      TYPE = Repres;
2094.    75Bg0183SA      PURPOSE = Hand spec;
2095.    75Bg0183SA      DESCRIPTION = Intr, met;
2096.    75Bg0183SA      LITH = QDio or GDio;
2097.    75Bg0183SA      FORM = 10 cm dike;
2098.    75Bg0183SA      MINS = Qtz, Plag, Bio;
2099.    75Bg0183SA      TEXTURE = Foliated-microgranular;
2100.    75Bg0183SA      CONDITION = Fresh;
2101.    75Bg0183SA
2102.    75Bg0183SA SAMPLE NUMBER = 75ABg0183C;
2103.    75Bg0183SA      UNIT = PS;
2104.    75Bg0183SA      SOURCE = OTC;
2105.    75Bg0183SA      TYPE = Repres;
2106.    75Bg0183SA      PURPOSE = Hand spec, spec;
2107.    75Bg0183SA      DESCRIPTION = Extr, sed, met;
2108.    75Bg0183SA      LITH = Metatuff;
2109.    75Bg0183SA      FORM = Meter-thick "Bed";
2110.    75Bg0183SA      MINS = Bio;
2111.    75Bg0183SA      TEXTURE = Foliated;
2112.    75Bg0183SA      CONDITION = Alter, iron stained;
2113.    75Bg0183SA
2114.    75Bg0183SA SAMPLE NUMBER = 75ABg0183D;
2115.    75Bg0183SA      UNIT = PS;
2116.    75Bg0183SA      SOURCE = Float;
2117.    75Bg0183SA      TYPE = Repres;
2118.    75Bg0183SA      PURPOSE = Hand spec;
2119.    75Bg0183SA      DESCRIPTION = Sed, met;
2120.    75Bg0183SA      LITH = Metaconglomerate;
2121.    75Bg0183SA      FORM = Bed;
2122.    75Bg0183SA      TEXTURE = Foliated;
2123.    75Bg0183SA      CONDITION = Fresh;
2124.    75Bg0183SA
2124.1  TEXT = NOTE: New unit "SS" denotes schist and semischist, as distinguished from correlative but supposedly
2124.2  less recrystallized phyllite (unit PS, etc.), which crops out to SW.
2125.    75Bg0183T  Phyllitic-fissile metapelite containing alined Bio & Act metacrysts (1-2 mm).  Most of the unit is
2126.    75Bg0183T       "typical" brownish , greenish, and olive gray phyllite derived from thinly interbedded argill
2127.    75Bg0183T       and sltstn.  However, a small part, exposed mainly on NE side of islet is "metatuff-green, and
2128.    75Bg0183T       is derived in part from fragmental and possibly amygdaloidal rocks.  The frag unit contains
2129.    75Bg0183T       flattened clasts to 10 cm or so long of phyll, & of rk that resembles parts of the andesitic
2130.    75Bg0183T       metatuff facies of the GIF--the relict amygd rock is green phyllite cont abndnt flattened
2131.    75Bg0183T       ellipsoids to 2 or 3 cm long of cream colored calcite.
2132.    75Bg0183T       Meta rx are intruded by numerous sills and nearly concordant dikes to 1.5 m thick of brown weath
2133.    75Bg0183T       fol to schistose QDio.  Some of the meta unit is iron stained.  A few Qtz vns--boudins.;
2134.    75Bg0183  ----------------------------------------------------------------------------------------------
2135.    #
2136.    75Bg0184            STATION = 75ABg0184;
2137.    75Bg0184            DATE = 7/28/75;
2138.    75Bg0184            QUAD = KC C-6;
2139.    75Bg0184            LAT = 55/39/31;
2140.    75Bg0184            LONG = 131/50/13;
2141.    75Bg0184            PURPOSE = Geol;
2142.    75Bg0184
2143.    75Bg0184   TEXT-TOPIC = Lith;
2144.    75Bg0184
2145.    75Bg0184   STRUCTURE;
2146.    75Bg0184        FOL-SCH = 262/20;
2147.    75Bg0184        AXIAL-PLANE = 262/20;
2148.    75Bg0184        FOLD-AXIS = 045/5;
2149.    75Bg0184        OTHER-LIN = 045/5 (Str, M);
2150.    75Bg0184        OTHER-LIN = 085/0 (B/C);
2151.    75Bg0184
```

```
75Bg0184SA SAMPLE NUMBER = 75ABg0184A;
75Bg0184SA      UNIT = SS;
75Bg0184SA      SOURCE = OTC;
75Bg0184SA      TYPE = Repres;
75Bg0184SA      PURPOSE = Hand spec;
75Bg0184SA      DESCRIPTION = Sed, met;
75Bg0184SA      LITH = Metapelite;
75Bg0184SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0184SA      TEXTURE = Foliated;
75Bg0184SA      CONDITION = Fresh;
75Bg0184SA
75Bg0184SA SAMPLE NUMBER = 75ABg0184B;
75Bg0184SA      UNIT = PS;
75Bg0184SA      SOURCE = OTC;
75Bg0184SA      TYPE = Repres;
75Bg0184SA      PURPOSE = Hand spec;
75Bg0184SA      DESCRIPTION = Intr, met;
75Bg0184SA      LITH = Leucoaplite;
75Bg0184SA      FORM = 15 cm sill;
75Bg0184SA      MINS = Qtz, Plag, Garn, Musc;
75Bg0184SA      TEXTURE = Foliated;
75Bg0184SA      CONDITION = Fresh;
75Bg0184SA      REMARKS = Sil is isocl folded;
75Bg0184SA
75Bg0184T  TEXT = Isoclinal, nearly recumbent antiformal fold in metapelite intruded by GA-bearg, foliated
75Bg0184T         leucoaplite sills, at least one (6-12 cm) of which is also isoclinally folded with the metasels.
75Bg0184T         I can ident alined Bio and tiny Garn metacrysts in the metapelite.
75Bg0184T         Metapel der fr thinly interbedded (avg < 1 m tk) siltstone and argillite.;
75Bg0184  ------------------------------------------------------------------------------------------------------
#
75Bg0185            STATION = 75ABg0185;
75Bg0185            DATE = 7/28/75;
75Bg0185            QUAD = KC C-6;
75Bg0185            LAT = 55/39/24;
75Bg0185            LONG = 131/50/38;
75Bg0185            PURPOSE = Geol;
75Bg0185
75Bg0185   TEXT-TOPIC = Lith, reg geol/tect, regional met of sills;
75Bg0185
75Bg0185   STRUCTURE;
75Bg0185        FOL-SCH = 238/5;
75Bg0185        JOINT = 357/v;
75Bg0185        JOINT = 065/75;
75Bg0185        OTHER-LIN = 292/0 (B/C);
75Bg0185
75Bg0185SA SAMPLE NUMBER = 75ABg0185A;
75Bg0185SA      UNIT = SS;
75Bg0185SA      SOURCE = OTC;
75Bg0185SA      TYPE = Repres;
75Bg0185SA      PURPOSE = Hand spec;
75Bg0185SA      DESCRIPTION = Sed, met;
75Bg0185SA      LITH = Metapelite;
75Bg0185SA      FORM = Bedded;
75Bg0185SA      MINS = Qtz, Bio, Act, Garn;
75Bg0185SA      TEXTURE = Foliated;
75Bg0185SA      CONDITION = Fresh;
75Bg0185SA      REMARKS = Act not confirmed in spl.;
75Bg0185SA
75Bg0185T  TEXT = Fol/Sch = Comp layerg (in some places)
75Bg0185T         Strikingly unforely layered (avg 6-10 cm thick) metapelite containing tiny Garn metacrysts, and in
75Bg0185T         some beds, rndmly oriented Act pblsts.  Unit weathers olive gray and dark gray.  It is phyllitic,
```

```
2213.   75Bg0185T        but not partic. fissile, and part is so sl rexld that relict graded bedding is preserved.  Some
2214.   75Bg0185T        of these beds indicate that the beds are "normal"--some are indeterminate.  If unit is isocl
2215.   75Bg0185T        folded, "normal" beds must be on "normal" limbs.
2216.   75Bg0185T        Some beds cont ellipsoidal rusty objects 5 or 6 cm long and 2 cm wide--prob were PY--could they
2217.   75Bg0185T        have been organic??
2218.   75Bg0185T        There are a couple of thin, schistose aplite sills and some boudinaged, loc rusty-weath, Qtz vns.
2219.   75Bg0185T        NOTE:  The sills obv were reg metd along w/ the metapelite.;
2220.   75Bg0185  ----------------------------------------------------------------------------------------------
2221.   *
2222.   75Bg0186             STATION = 75ABg0186;
2223.   75Bg0186             DATE = 7/28/75;
2224.   75Bg0186             QUAD = KC C-6;
2225.   75Bg0186             LAT = 55/38/57;
2226.   75Bg0186             LONG = 131/50/59;
2227.   75Bg0186             PURPOSE = Geol;
2228.   75Bg0186
2229.   75Bg0186   TEXT-TOPIC = Lith;
2230.   75Bg0186
2231.   75Bg0186   STRUCTURE;
2232.   75Bg0186        FOL-SCH = 225/10;
2233.   75Bg0186        JOINT = 335/80;
2234.   75Bg0186        JOINT = 075/v;
2235.   75Bg0186
2236.   75Bg0186SA SAMPLE NUMBER = 75ABg0186A;
2237.   75Bg0186SA      UNIT = SS + PS;
2238.   75Bg0186SA      SOURCE = OTC;
2239.   75Bg0186SA      TYPE = Repres;
2240.   75Bg0186SA      PURPOSE = Hand spec;
2241.   75Bg0186SA      DESCRIPTION = Sed, met;
2242.   75Bg0186SA      LITH = Metapelite;
2243.   75Bg0186SA      FORM = Bedded;
2244.   75Bg0186SA      MINS = Qtz, Plag, Bio, Chl, Garn, Musc;
2245.   75Bg0186SA      TEXTURE = Semischistose;
2246.   75Bg0186SA      CONDITION = Fresh;
2247.   75Bg0186SA      REMARKS = Garn not confirmed.;
2248.   75Bg0186SA
2249.   75Bg0186T  TEXT = Regularly layered metapelite as at 185.
2250.   75Bg0186T        In part, rx are tough, dense semischist (SS).  A few are fissile phyllite (PS) .;
2251.   75Bg0186  ----------------------------------------------------------------------------------------------
2252.   *
2253.   75Bg0187             STATION = 75ABg0187;
2254.   75Bg0187             DATE = 7/28/75;
2255.   75Bg0187             QUAD = KC C-6;
2256.   75Bg0187             LAT = 55/38/14;
2257.   75Bg0187             LONG = 131/51/09;
2258.   75Bg0187             PURPOSE = Geol;
2259.   75Bg0187
2260.   75Bg0187   TEXT-TOPIC = Lith;
2261.   75Bg0187
2262.   75Bg0187   STRUCTURE;
2263.   75Bg0187        FOL-SCH = 258/22;
2264.   75Bg0187        OTHER-LIN = 82/8 (B/C, M);
2265.   75Bg0187
2266.   75Bg0187SA SAMPLE NUMBER = 75ABg0187A;
2267.   75Bg0187SA      UNIT = SS;
2268.   75Bg0187SA      SOURCE = Float;
2269.   75Bg0187SA      TYPE = Repres;
2270.   75Bg0187SA      PURPOSE = Hand spec;
2271.   75Bg0187SA      DESCRIPTION = Sed, met;
2272.   75Bg0187SA      LITH = Metapelite;
2273.   75Bg0187SA      FORM = Layered;
```

```
75Bg0187SA      MINS = Qtz, Plag, Hbl, Musc;
75Bg0187SA      TEXTURE = Foliated/fissile;
75Bg0187SA      CONDITION = Fresh;
75Bg0187SA      REMARKS = Weathered sample--friable;
75Bg0187SA
75Bg0187T  TEXT = Metapelite containing a few beds less than a meter thick of brown-weath rexld lst.  Metapel is
75Bg0187T        fn gn sch cont BI, CL, GA, ACT, MU.  Abndnce of met minls is composition-dependent.  Some fol
75Bg0187T        surfs show alined Act cataclysts--on most, however, it is randomly oriented in the plane of
75Bg0187T        the foln.
75Bg0187T        As seen elsewhere, coarsest mica occurs adjacent to and coating Qtz vns, lenses, boudins, etc,
75Bg0187T        providing they are more or less parallel to the foliation.;
75Bg0187  ----------------------------------------------------------------------------------------------------
#
75Bg0188            STATION = 75ABg0188;
75Bg0188            DATE = 7/28/75;
75Bg0188            QUAD = KC C-6;
75Bg0188            LAT = 55/37/34-;
75Bg0188            LONG = 131/52/27;
75Bg0188            PURPOSE = Geol;
75Bg0188
75Bg0188   TEXT-TOPIC = Lith, struct;
75Bg0188
75Bg0188   PHOTOS = KII of ribbed outcrop;
75Bg0188
75Bg0188   STRUCTURE;
75Bg0188        FOL-SCH = 080/10;
75Bg0188        OTHER-LIN = 080/2 (Str);
75Bg0188        OTHER-LIN = 134/2 (Str);
75Bg0188
75Bg0188SA SAMPLE NUMBER = 75ABg0188A;
75Bg0188SA      UNIT = SS;
75Bg0188SA      SOURCE = Rubble;
75Bg0188SA      TYPE = Repres;
75Bg0188SA      PURPOSE = Hand spec;
75Bg0188SA      DESCRIPTION = Sed, met;
75Bg0188SA      LITH = Siltstone semischist;
75Bg0188SA      MINS = Qtz, Bio, Musc;
75Bg0188SA      TEXTURE = Schistose;
75Bg0188SA      CONDITION = Fresh;
75Bg0188SA
75Bg0188T  TEXT = Metapelite semischist, schistose aplite dikes, quartz veins.
75Bg0188T        Attitude of foliation has swung to Z-W, w/ S. dip--Raymond Cove may follow hinge of antiform
75Bg0188T        or broad dome in regional axial plane foliation.
75Bg0188T        Outcrop is strikingly ribbed because of low dips and differential erosion of argill & sltstn layers.;
75Bg0188  ----------------------------------------------------------------------------------------------------
#
75Bg0189            STATION = 75ABg0189;
75Bg0189            DATE = 7/28/75;
75Bg0189            QUAD = KC C-6;
75Bg0189            LAT = 55/37/28;
75Bg0189            LONG = 131/53/00;
75Bg0189            PURPOSE = Geol, geochm;
75Bg0189
75Bg0189   TEXT-TOPIC = Lith, struct, strat;
75Bg0189
75Bg0189   STRUCTURE;
75Bg0189        FOL-SCH = 205/25 (MV);
75Bg0189        FAULT-SHEAR = 230 ?;
75Bg0189
75Bg0189SA SAMPLE NUMBER = 75ABg0189A;
75Bg0189SA      UNIT = MV+PV+PS;
```

```
2335.    75Bg0189SA      SOURCE = OTC;
2336.    75Bg0189SA      TYPE = Repres;
2337.    75Bg0189SA      PURPOSE = Hand spec;
2338.    75Bg0189SA      DESCRIPTION = Extr, met;
2339.    75Bg0189SA      LITH = Andesitic metatuff;
2340.    75Bg0189SA      MINS = Plag, Carb, Act, Chl, Ep/Clz;
2341.    75Bg0189SA      TEXTURE = Relict fragmental and femag porphyritic;
2342.    75Bg0189SA      CONDITION = Fresh;
2343.    75Bg0189SA
2344.    75Bg0189SA SAMPLE NUMBER = 75ABg0189B;
2345.    75Bg0189SA      UNIT = PS;
2346.    75Bg0189SA      PURPOSE = Hand spec, T. S., spec;
2347.    75Bg0189SA      DESCRIPTION = Sed, met;
2348.    75Bg0189SA      MINS = Qtz, Carb, Chl;
2349.    75Bg0189SA      CONDITION = Alter, Fe-stain;
2350.    75Bg0189SA      REMARKS = Orange-weathering altered zone near ctct between metapelite and metavolcanic + metapelite units;

2351.    75Bg0189SA
2352.    75Bg0189T  TEXT = Dark gray metapelite interlayered with bright greenish and yellowish gray andesitic metatuff
2353.    75Bg0189T         and agglomerate.  The metavolcs contain relict femag pxts and are identical to the metatuff & agg
2354.    75Bg0189T         of GIP.  Some of the mvolc is aphanitic.  Unit is phyllitic, not schistose--consists of about equal
2355.    75Bg0189T         amts of metapel and metavolc.  Metavolc + metapel also appear to crop out on sw shore of
2356.    75Bg0189T         Wadding Cove, sw of station.
2357.    75Bg0189T         The ctct btwn metavolc + metapel and all-metapel to NE may be structural.  The metapel crops
2358.    75Bg0189T         out about 100 meters east of station.  It seems more schistose (slightly) than mv+metapel--
2359.    75Bg0189T         attitude of foln is different--and there are bright red (hem) and orange (dolo?) weath zones in
2360.    75Bg0189T         the metapel near the contact (which is not exposed).  If the contact is a fault, it may strike
2361.    75Bg0189T         approx. 230.
2362.    75Bg0189T         NOTE:  Orange-weath zone is similar to alt zone at head of Union Bay.;
2363.    75Bg0189  ----------------------------------------------------------------------------------------------
2364.    #
2365.    75Bg0190             STATION = 75ABg0190;
2366.    75Bg0190             DATE = 7/28/75;
2367.    75Bg0190             QUAD = KC C-6;
2368.    75Bg0190             LAT = 55/37/28;
2369.    75Bg0190             LONG = 131/53/39;
2370.    75Bg0190             PURPOSE = Geol;
2371.    75Bg0190
2372.    75Bg0190  TEXT-TOPIC = Lith, struct;
2373.    75Bg0190
2374.    75Bg0190  STRUCTURE;
2375.    75Bg0190       FAULT-SHEAR = 270/?;
2376.    75Bg0190
2377.    75Bg0190T  TEXT = Metapelite (Some beds w/ Act pblsts), metatuff (some beds w/ relict femag pxts), myriad Qtz & Carb
2378.    75Bg0190T         veins, and altered zones (hem & limonitic).  There also is some fine-grain QZ? Dio intrusive? rock.
2379.    75Bg0190T         There evidently is much faulting at this locality that has sheared the units and in places resulted
2380.    75Bg0190T         in abrupt changes in foln attitude.  One such fault may strike abt 270--can't tell dip.
2381.    75Bg0190T         Meta rx are lineated, etc.--phyllitic.
2382.    75Bg0190T         If major fault(s) occur in Wadding Cove cannot est magnitude and displmt because of lack of
2383.    75Bg0190T         stratigraphic markers.;
2384.    75Bg0190  ----------------------------------------------------------------------------------------------
2385.    #
2386.    75Bg0191             STATION = 75ABg0191;
2387.    75Bg0191             DATE = 7/29/75;
2388.    75Bg0191             QUAD = KC B-6;
2389.    75Bg0191             LAT = 55/28/48;
2390.    75Bg0191             LONG = 131/48/39;
2391.    75Bg0191             PURPOSE = Geol;
2392.    75Bg0191
2393.    75Bg0191  TEXT-TOPIC = Lith;
2394.    75Bg0191
```

```
75Bg0191   STRUCTURE;
75Bg0191        FAULT-SHEAR = 145/55;
75Bg0191        FAULT-SHEAR = 180/60;
75Bg0191
75Bg0191SA SAMPLE NUMBER = 75ABg0191A;
75Bg0191SA      UNIT = QDio;
75Bg0191SA      SOURCE = OTC;
75Bg0191SA      TYPE = Repres;
75Bg0191SA      PURPOSE = Hand spec;
75Bg0191SA      DESCRIPTION = Intr, met;
75Bg0191SA      LITH = Qtz Diorite;
75Bg0191SA      FORM = Pluton;
75Bg0191SA      MINS = Qtz, Plag, Hbl, Bio, Chl, Ep/Clz;
75Bg0191SA      TEXTURE = Hypid gran;
75Bg0191SA      CONDITION = Fresh;
75Bg0191SA
75Bg0191T  TEXT = Light, SW of Clover Island
75Bg0191T        Olive-or greenish-gray plutonic rock containing QZ, PC, EP/CZ, BI, HO.  Rk appears to be
75Bg0191T        considerably altered, possib due to gnsch facies met, but it is not visibly foliated.  Texture is
75Bg0191T        hypid gran--fdspr xls weather in sl relief, but rk is not porphyritic.;
75Bg0191  ----------------------------------------------------------------------------------------------------
75Bg0192            STATION = 75ABg0192;
75Bg0192            DATE = 7/29/75;
75Bg0192            QUAD = KC B-6;
75Bg0192            LAT = 55/29/02;
75Bg0192            LONG = 131/48/19;
75Bg0192            PURPOSE = Geol;
75Bg0192
75Bg0192   TEXT-TOPIC = Lith;
75Bg0192
75Bg0192   STRUCTURE;
75Bg0192        FOL-SCH = 015/80;
75Bg0192        OTHER-LIN = 028/50 (Str);
75Bg0192        OTHER-LIN = 183/30 (Rods);
75Bg0192
75Bg0192SA SAMPLE NUMBER = 75ABg0192A;
75Bg0192SA      UNIT = HPS;
75Bg0192SA      SOURCE = OTC;
75Bg0192SA      TYPE = Repres;
75Bg0192SA      PURPOSE = Hand spec;
75Bg0192SA      DESCRIPTION = Sed, met;
75Bg0192SA      LITH = Metapelite;
75Bg0192SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0192SA      TEXTURE = Phyllitic-granoblastic;
75Bg0192SA      REMARKS = Mildly baked metapelite, 30 m from QDio sill.;
75Bg0192SA
75Bg0192SA SAMPLE NUMBER = 75ABg0192B;
75Bg0192SA      UNIT = HPS;
75Bg0192SA      SOURCE = OTC;
75Bg0192SA      TYPE = Repres;
75Bg0192SA      PURPOSE = Hand spec;
75Bg0192SA      DESCRIPTION = Intr, met;
75Bg0192SA      LITH = Qtz Dio;
75Bg0192SA      FORM = Sill;
75Bg0192SA      MINS = Qtz, Plag, Bio, Garn, Musc;
75Bg0192SA      TEXTURE = Granoblastic?;
75Bg0192SA      CONDITION = Fresh;
75Bg0192SA      REMARKS = QDio sill 2 m thick.;
75Bg0192SA
75Bg0192SA SAMPLE NUMBER = 75ABg0192C;
```

```
2456.    75Bg0192SA      UNIT = HPS;
2457.    75Bg0192SA      SOURCE = OTC;
2458.    75Bg0192SA      TYPE = Repres;
2459.    75Bg0192SA      PURPOSE = Hand spec;
2460.    75Bg0192SA      DESCRIPTION = Sed, met;
2461.    75Bg0192SA      LITH = Metapelite;
2462.    75Bg0192SA      MINS = Qtz, Plag, Bio, Garn;
2463.    75Bg0192SA      TEXTURE = Granoblastic;
2464.    75Bg0192SA      CONDITION = Fresh;
2465.    75Bg0192SA      REMARKS = Hornfelsed metapelite.;
2466.    75Bg0192SA
2467.    75Bg0192SA SAMPLE NUMBER = 75ABg0192D;
2468.    75Bg0192SA      UNIT = HPS;
2469.    75Bg0192SA      SOURCE = OTC;
2470.    75Bg0192SA      TYPE = Repres;
2471.    75Bg0192SA      PURPOSE = Hand spec;
2472.    75Bg0192SA      DESCRIPTION = Sed, met;
2473.    75Bg0192SA      LITH = Metapelite;
2474.    75Bg0192SA      MINS = Qtz, Plag, Bio;
2475.    75Bg0192SA      TEXTURE = Granoblastic;
2476.    75Bg0192SA      CONDITION = Fresh;
2477.    75Bg0192SA      REMARKS = Hornfelsed metapelite a few meters from plutonic contact.;
2478.    75Bg0192SA
2479.    75Bg0192T  TEXT = CLOVER ISLAND
2480.    75Bg0192T       GA-BI metapelite intruded and baked by GA-bearing fine-grain quartz diorite.  The plutonic rocks
2481.    75Bg0192T       evidently occur mainly as sills or nearly concordant dikes a few meters thick.;
2482.    75Bg0192  ----------------------------------------------------------------------------------------------
2483.    #
2484.    75Bg0193            STATION = 75ABg0193;
2485.    75Bg0193            DATE = 7/29/75;
2486.    75Bg0193            QUAD = KC B-6;
2487.    75Bg0193            LAT = 55/29/05;
2488.    75Bg0193            LONG = 131/48/01;
2489.    75Bg0193            PURPOSE = Geol;
2490.    75Bg0193
2491.    75Bg0193   TEXT-TOPIC = Lith;
2492.    75Bg0193
2493.    75Bg0193   STRUCTURE;
2494.    75Bg0193        FOL-SCH = 040/80 (gnc struct in QDio);
2495.    75Bg0193        OTHER = Fol in Hbdte 245/80-v;
2496.    75Bg0193
2497.    75Bg0193SA SAMPLE NUMBER = 75ABg0193A;
2498.    75Bg0193SA      UNIT = QDio;
2499.    75Bg0193SA      SOURCE = OTC;
2500.    75Bg0193SA      TYPE = Repres;
2501.    75Bg0193SA      PURPOSE = Hand spec, T. S.;
2502.    75Bg0193SA      DESCRIPTION = Intr, met;
2503.    75Bg0193SA      LITH = Mafic Qtz Dio (or gabbro?);
2504.    75Bg0193SA      FORM = Pluton;
2505.    75Bg0193SA      MINS = Qtz, Plag, Hbl, Bio;
2506.    75Bg0193SA      TEXTURE = Granitoid;
2507.    75Bg0193SA      CONDITION = Fresh;
2508.    75Bg0193SA      REMARKS = Qtz not confirmed--rk may be more mafic than Qtz Dio.;
2509.    75Bg0193SA
2510.    75Bg0193SA SAMPLE NUMBER = 75ABg0193B;
2511.    75Bg0193SA      UNIT = QDio;
2512.    75Bg0193SA      SOURCE = OTC;
2513.    75Bg0193SA      TYPE = Repres;
2514.    75Bg0193SA      PURPOSE = Hand spec, T. S.;
2515.    75Bg0193SA      DESCRIPTION = Intr, met;
2516.    75Bg0193SA      LITH = Hornblendite;
```

```
2517.      75Bg0193SA        FORM = Pluton;
2518.      75Bg0193SA        MINS = Hbl, Bio;
2519.      75Bg0193SA        TEXTURE = Equigranular-interlocking;
2520.      75Bg0193SA        CONDITION = Fresh;
2521.      75Bg0193SA
2522.      75Bg0193SA  SAMPLE NUMBER = 75ABg0193C;
2523.      75Bg0193SA        UNIT = QDio;
2524.      75Bg0193SA        SOURCE = OTC;
2525.      75Bg0193SA        TYPE = Repres;
2526.      75Bg0193SA        PURPOSE = Hand spec;
2527.      75Bg0193SA        DESCRIPTION = Intr;
2528.      75Bg0193SA        LITH = Qtz Dio or GDio;
2529.      75Bg0193SA        FORM = Pluton;
2530.      75Bg0193SA        MINS = Qtz, Plag, Hbl, Bio;
2531.      75Bg0193SA        TEXTURE = Hypid gran;
2532.      75Bg0193SA        CONDITION = Fresh;
2533.      75Bg0193SA        REMARKS = Spl coll from north tip of Clover Island.  Rel "normal" QDio at this locality.
2534.      75Bg0193SA        REMARKS = gradational with mafic Qtz Dio at station 193.;
2535.      75Bg0193SA
2536.      75Bg0193T   TEXT = CLOVER ISLAND
2537.      75Bg0193T          Biotite hornblendite intruded by mafic quartz diorite.  The hornblendite is also cut by irreg
2538.      75Bg0193T          seams of vuggy Qz-fldspr micropegmatite & Qtz diorite.
2539.      75Bg0193T          The hornblendite is dark greenish black and ranges from coarse (xls > 1 cm) to fine grained--
2540.      75Bg0193T          and msv to foliated/schistose.  Texture mainly is equigranular or interlocking.  It contains rounded
2541.      75Bg0193T          inclusions to 3 or 4 cm in max dimens of partly assim dioritic rock.  Some of the inclusions
2542.      75Bg0193T          are coarse to HO-PC? aggregates.
2543.      75Bg0193T          The Qtz Dio weath dk bnsh gy.  It is uniformly med-grained, foliated/gneissic near the hbdte stct,
2544.      75Bg0193T          and contains inclusions of mafic rock, some w/ felsic reaction rims.  Locally, the QDio forms
2545.      75Bg0193T          matrix of hbdte-clast plut breccia.  High mafic content of Qtz Dio prob due to contam by hbdte.
2546.      75Bg0193T          Hbde may be related to 90-110 my zoned ultramafics--QDio prob related to 77-87 m y "insular"
2547.      75Bg0193T          plutons (if it turns out to be gabbro, it too prob is part of zoned OM).
2548.      75Bg0193  ----------------------------------------------------------------------------------------------
2549.      *
2549.01    75Bg0194              STATION = 75ABg0194;
2549.02    75Bg0194              DATE = 7/29/75;
2549.03    75Bg0194              QUAD = KC B-6;
2549.04    75Bg0194              LAT = 55/28/09;
2549.05    75Bg0194              LONG = 131/49/35;
2549.06    75Bg0194              PURPOSE = Geol;
2549.07    75Bg0194    TEXT-TOPIC = Lith;
2549.08    75Bg0194
2549.09    75Bg0194    STRUCTURE;
2549.1     75Bg0194         FOL-SCH = 350/v (HPS Pendant);
2549.11    75Bg0194
2549.12    75Bg0194SA  SAMPLE NUMBER = 75ABg0194A;
2549.13    75Bg0194SA        UNIT = QDio;
2549.14    75Bg0194SA        SOURCE = OTC;
2549.15    75Bg0194SA        TYPE = Repres;
2549.16    75Bg0194SA        PURPOSE = Hand spec;
2549.17    75Bg0194SA        DESCRIPTION = Intr;
2549.18    75Bg0194SA        LITH = Qtz Dio;
2549.19    75Bg0194SA        FORM = Pluton;
2549.2     75Bg0194SA        MINS = Qtz, Plag, Hbl, Bio;
2549.21    75Bg0194SA        TEXTURE = Porphyritic;
2549.22    75Bg0194SA        CONDITION = Fresh;
2549.23    75Bg0194SA
2549.24    75Bg0194T   TEXT = Survey Point.  Feldspar-porphyritic Qtz Dio containing abt 10% dk inclns of equigranular mafic + Plag rock
2549.25    75Bg0194T          and crossed by several leucoaplite dikes (3-4 cm).  Station is abt 50 m N of a 20 metre wide roof
2549.26    75Bg0194T          pendant of hornfelsed metapelite.  Feldspar phenos are euhedral, average about a cm (max 2 cm)
2549.27    75Bg0194T          in size, and make up 10-15% of rock.  The porphyry, in turn, grades into rel equigranular,
2549.28    75Bg0194T          non-porp Qtz Dio;
```

```
2549.29   75Bg0194 ----------------------------------------------------------------------------------------
2549.3    #
2550.     75Bg0195            STATION = 75ABg0195;
2551.     75Bg0195            DATE = 7/29/75;
2552.     75Bg0195            QUAD = KC B-6;
2553.     75Bg0195            LAT = 55/26/38;
2554.     75Bg0195            LONG = 131/48/53;
2555.     75Bg0195            PURPOSE = Geol;
2556.     75Bg0195
2557.     75Bg0195   TEXT-TOPIC = Lith;
2558.     75Bg0195
2559.     75Bg0195   STRUCTURE;
2560.     75Bg0195        FOL-SCH = 332/50;
2561.     75Bg0195
2562.     75Bg0195SA SAMPLE NUMBER = 75ABg0195A;
2563.     75Bg0195SA      UNIT = HPS, HMV;
2564.     75Bg0195SA      SOURCE = OTC;
2565.     75Bg0195SA      TYPE = Repres;
2566.     75Bg0195SA      PURPOSE = Hand spec;
2567.     75Bg0195SA      DESCRIPTION = Extr, sed, met;
2568.     75Bg0195SA      LITH = Hornfels and schist;
2569.     75Bg0195SA      MINS = Qtz, Plag, Hbl, Bio;
2570.     75Bg0195SA      TEXTURE = Granoblastic, schistose;
2571.     75Bg0195SA      CONDITION = Fresh, alter, some Fe-stain;
2572.     75Bg0195SA      REMARKS = Several samples to show variation in country rocks.;
2573.     75Bg0195SA
2574.     75Bg0195SA SAMPLE NUMBER = 75ABg0195B;
2575.     75Bg0195SA      UNIT = QDio;
2576.     75Bg0195SA      SOURCE = OTC;
2577.     75Bg0195SA      TYPE = Repres;
2578.     75Bg0195SA      PURPOSE = Hand spec;
2579.     75Bg0195SA      DESCRIPTION = Intr;
2580.     75Bg0195SA      LITH = Qtz Dio;
2581.     75Bg0195SA      FORM = Pluton;
2582.     75Bg0195SA      MINS = Qtz, Plag, Bio, Garn, Musc;
2583.     75Bg0195SA      TEXTURE = Hypid gran, foliated;
2584.     75Bg0195SA      CONDITION = Fresh;
2585.     75Bg0195SA      REMARKS = Sample contains vuggy  Qz-Pc-Mu vein to 3 cm thick.;
2586.     75Bg0195SA
2587.     75Bg0195T  TEXT = Locally iron-stained hornfels and schist intruded by Ga-bearing QDio and leucoaplite.  QDio &
2588.     75Bg0195T        leucoap locally are gradational.  The hfls and sch contain metacrysts of HO, BI, & prob GA, and
2589.     75Bg0195T        are derived from mixed metapelite and metatuff (relict femag pxts).
2590.     75Bg0195T        At least some of the plutonic contacts are concordant with fol/sch in metaseds.
2591.     75Bg0195T        Ctct marked by some migmatite, iron staining, and Qtz veining.;
2592.     75Bg0195 ----------------------------------------------------------------------------------------
2593.     #
2594.     75Bg0196            STATION = 75ABg0196;
2595.     75Bg0196            DATE = 7/29/75;
2596.     75Bg0196            QUAD = KC C-6;
2597.     75Bg0196            LAT = 55/31/00;
2598.     75Bg0196            LONG = 131/45/30;
2599.     75Bg0196            PURPOSE = Geol;
2600.     75Bg0196   TEXT-TOPIC = Lith;
2601.     75Bg0196
2602.     75Bg0196   SKETCH = S. tip Hump Island;
2603.     75Bg0196
2604.     75Bg0196SA SAMPLE NUMBER = 75ABg0196A;
2605.     75Bg0196SA      UNIT = Mixed PS & QDio;
2606.     75Bg0196SA      SOURCE = OTC;
2607.     75Bg0196SA      TYPE = Grab;
2608.     75Bg01965A      PURPOSE = Hand spec;
```

```
75Bg0196SA      DESCRIPTION = Intr, sed, met, minlzd;
75Bg0196SA      LITH = Metamorphic/mineralized rk;
75Bg0196SA      CONDITION = Fresh, alter;
75Bg0196SA      REMARKS = Several samples from south tip of Hump Island to represent variety of rock types
75Bg0196SA
75Bg0196T  TEXT = S. TIP HUMP ISLAND (SKETCH MAP AND SAMPLES)
75Bg0196T        Rx on south tip of Hump Island are iron-stained, bleached, prob hydrothermally (metasomatically)
75Bg0196T        altered, and mineralized w/ PY, CP, and possib other sulfides.
75Bg0196T        I believe the country rocks, prior to alteration, etc, comprised metapelite and related metased
75Bg0196T        and poss. minor metavolc rx, quartz diorite and leucoaplite related to the "insular" plutons, and
75Bg0196T        andesitic and ultramafic (HO Porp, Hbdte) dikes.  The most-mineralized material seems to be
75Bg0196T        rexld, etc, Ga-bearing leucoaplite and Qtz Diorite--some of the aplite and most of the Qtz Dio now
75Bg0196T        is felsic schist simlr to other strongly foliated insular plutons in this area.
75Bg0196T        I do not yet know the genesis of the altn & minln on Hump Island, it may be related to the hbdte
75Bg0196T        dikes (which may in turn be realated to zoned ultramafics).  But, the zoned UMS are assumed to be
75Bg0196T        older than the insular plutons.  Perhaps minln was "insular pluton" age, then remobilized by
75Bg0196T        "Coast Range Event".;
75Bg0196  ----------------------------------------------------------------------------------------------------
#
75Bg0197            STATION = 75ABg0197;
75Bg0197            DATE = 7/31/75;
75Bg0197            QUAD = KC B-5;
75Bg0197            LAT = 55/26/40;
75Bg0197            LONG = 131/29/05;
75Bg0197            PURPOSE = Geol;
75Bg0197
75Bg0197   TEXT-TOPIC = Lith, strat, foss, reg geol/tect;
75Bg0197
75Bg0197   SKETCH = Tect-strat cartoon for uPz rx;
75Bg0197
75Bg0197   STRUCTURE;
75Bg0197        FOL-SCH = 082/80;
75Bg0197
75Bg0197SA SAMPLE NUMBER = 75ABg0197A;
75Bg0197SA      UNIT = uPz or uTr;
75Bg0197SA      SOURCE = OTC;
75Bg0197SA      TYPE = Repres;
75Bg0197SA      PURPOSE = Hand spec;
75Bg0197SA      DESCRIPTION = Intr;
75Bg0197SA      LITH = Mafic igneous;
75Bg0197SA      FORM = 1 m dike or sill;
75Bg0197SA      TEXTURE = Breccia;
75Bg0197SA      CONDITION = Fresh;
75Bg0197SA      REMARKS = Mafic dike or sill + a little adjacent conglomerate country rock.;
75Bg0197SA
75Bg0197SA SAMPLE NUMBER = 75ABg0197B;
75Bg0197SA      UNIT = UPz or UTr;
75Bg0197SA      SOURCE = Rubble;
75Bg0197SA      TYPE = Repres;
75Bg0197SA      PURPOSE = Hand spec, foss deter;
75Bg0197SA      DESCRIPTION = Sed, met;
75Bg0197SA      LITH = Limestone;
75Bg0197SA      MINS = Bio, Carb;
75Bg0197SA      CONDITION = Fresh;
75Bg0197SA      REMARKS = Dark gray limestone containing pea-size spheroidal to wormy objects that might
75Bg0197SA      REMARKS = be "goofballs".;
75Bg0197SA
75Bg0197T  TEXT = GEORGE INLET. (Station approx = 3B158) Is this unit actually mixed UPz + UTr? Lst interb w/ cgl conts poss.
75Bg0197T        "goofballs".  Pebble-to-cobble metaconglomerate containing clasts to 1 meter of metavolcanic rx (some=pillow
```

```
75Bg0197T        frags?) (75%), crinoidal marble (20%), tan/rustry-weath pyritic metatuff (2%), mafic plut rk
75Bg0197T        (one clast).  Note absence of argill, Dio or QDio plut, & meta clasts.  Matrix is phytc green
75Bg0197T        metatuff and subord dk gy argillite--in part matrix is vfg detrital (argill).
75Bg0197T        Fol/sch = comp/layerg + elongation of clasts.  Interbedded w/ cgl are thin lst, intermed to
75Bg0197T        mafic gn metatuff or flows.  Cgl intruded by mafic? sills to 1 meter--some have plut-breccia
75Bg0197T        texture.
75Bg0197T        The tan/rusty clasts closely resemb some +- schistose flsc aph sills in E. Behm Canal area.
75Bg0197T        The clasts in this cgl, however, contain apprec chlorite and almost cert are more mafic.
75Bg0197T        Their presence as clasts confirms that at least some of the tan/rusty-weath material intercal
75Bg0197T        w/ UPz strata=beds (interm-flsc mtff?), not "sills".
75Bg0197T        NOTE:  Compare this cgl w/ roundstone metacgl elsewhere in George Inlet area.;
75Bg0197  ----------------------------------------------------------------------------------------------
#
75Bg0198             STATION = 75ABg0198;
75Bg0198             DATE = 7/31/75;
75Bg0198             QUAD = KC B-5;
75Bg0198             LAT = 55/26/44;
75Bg0198             LONG = 131/29/13;
75Bg0198             PURPOSE = Geol, geochem;
75Bg0198
75Bg0198   TEXT-TOPIC = Lith, econ geol;
75Bg0198
75Bg0198   PHOTOS = Koch: First 2 picts, roll B-5;
75Bg0198
75Bg0198   SKETCH = Hydro alt zone in UPz;
75Bg0198
75Bg0198   STRUCTURE;
75Bg0198        FOL-SCH = 263/20;
75Bg0198        JOINT = 173/v;
75Bg0198
75Bg0198T  TEXT = Sketch of hydrothermally altered zone in uPz rocks.;
75Bg0198  ----------------------------------------------------------------------------------------------
#
75Bg0199             STATION = 75ABg0199;
75Bg0199             DATE = 7/31/75;
75Bg0199             QUAD = KC B-5;
75Bg0199             LAT = 55/26/36;
75Bg0199             LONG = 131/29/00;
75Bg0199             PURPOSE = Geol;
75Bg0199
75Bg0199   TEXT-TOPIC = Lith, foss;
75Bg0199
75Bg0199   SKETCH = Star-shaped crinoid cols;
75Bg0199
75Bg0199SA SAMPLE NUMBER = 75ABg0199A;
75Bg0199SA      UNIT = UPz;
75Bg0199SA      SOURCE = OTC, float;
75Bg0199SA      TYPE = Repres;
75Bg0199SA      PURPOSE = Hand spec, foss deter;
75Bg0199SA      DESCRIPTION = Sed, met;
75Bg0199SA      LITH = Marble;
75Bg0199SA      FORM = Bedded;
75Bg0199SA      MINS = Carb;
75Bg0199SA      TEXTURE = Granoblastic;
75Bg0199SA      CONDITION = Fresh;
75Bg0199SA
75Bg0199T  TEXT = UPz crinoidal marble.  Station established to collect star-shaped crinoid columnals and
75Bg0199T        columnals with star-shaped cores.
75Bg0199T        Are these Pennsylvanian?;
75Bg0199  ----------------------------------------------------------------------------------------------
#
```

```
75Bg0200            STATION = 75ABg0200;
75Bg0200            DATE = 7/31/75;
75Bg0200            QUAD = KC B-5;
75Bg0200            LAT = 55/26/15;
75Bg0200            LONG = 131/28/29;
75Bg0200            PURPOSE = Geol;
75Bg0200
75Bg0200   TEXT-TOPIC = Lith, strat, reg geol/tect, chem analysis;
75Bg0200
75Bg0200   STRUCTURE;
75Bg0200        FOL-SCH = 346/44;
75Bg0200
75Bg0200SA SAMPLE NUMBER = 75ABg0200A;
75Bg0200SA      UNIT = Pzv or Trv;
75Bg0200SA      SOURCE = OTC;
75Bg0200SA      TYPE = Repres;
75Bg0200SA      PURPOSE = T. S., chem;
75Bg0200SA      DESCRIPTION = Extr, met;
75Bg0200SA      LITH = Metabasalt;
75Bg0200SA      FORM = Pillow flow;
75Bg0200SA      MINS = Plag;
75Bg0200SA      TEXTURE = Aphanitic;
75Bg0200SA      CONDITION = Fresh;
75Bg0200SA      REMARKS = Core of pillow.;
75Bg0200SA
75Bg0200SA SAMPLE NUMBER = 75ABg0200B;
75Bg0200SA      UNIT = Pzv or Trv;
75Bg0200SA      SOURCE = OTC;
75Bg0200SA      TYPE = Repres;
75Bg0200SA      PURPOSE = T. S., chem;
75Bg0200SA      DESCRIPTION = Extr, met;
75Bg0200SA      LITH = Metabasalt;
75Bg0200SA      FORM = Pillow flow;
75Bg0200SA      MINS = Plag,
75Bg0200SA      TEXTURE = Aphanitic-vesicular;
75Bg0200SA      CONDITION = Fresh;
75Bg0200SA      REMARKS = Rim of pillow.;
75Bg0200SA
75Bg0200T  TEXT = Recrystallized basaltic pillow flows and tuff.  Unit is dark green.
75Bg0200T        Fol/sch = comp layering.  Shape of deformed pillows indicates that beds at station are
75Bg0200T        right-side-up.
75Bg0200T        The pillows are moderately to strongly deformed, but few are markedly fissile.  The largest is
75Bg0200T        about a meter in max dimens.  Not much carbonate betw pillows.
75Bg0200T        Creek just E. of station flows along contact between metavolc (fissile adjacent to creek) and
75Bg0200T        calcareous? rx east of creek.
75Bg0200T        Could this unit go to amphibolite in CRB?;
75Bg0200  ------------------------------------------------------------------------------------------------------
#
75Bg0201            STATION = 75ABg0201;
75Bg0201            DATE = 7/31/75;
75Bg0201            QUAD = KC B-5;
75Bg0201            LAT = 55/24/57;
75Bg0201            LONG = 131/27/48;
75Bg0201            PURPOSE = Geol;
75Bg0201
75Bg0201   TEXT-TOPIC = Lith;
75Bg0201
75Bg0201   SKETCH = Detail geol map;
75Bg0201
75Bg0201   STRUCTURE;
75Bg0201        FOL-SCH = 332/25;
```

```
2790.      75Bg0201
2791.      75Bg0201SA SAMPLE NUMBER = 75ABg0201A;
2792.      75Bg0201SA       UNIT = UPz marble;
2793.      75Bg0201SA       SOURCE = OTC;
2794.      75Bg0201SA       TYPE = Repres;
2795.      75Bg0201SA       PURPOSE = Hand spec, foss deter;
2796.      75Bg0201SA       DESCRIPTION = Sed, met;
2797.      75Bg0201SA       LITH = Marble;
2798.      75Bg0201SA       FORM = Bedded;
2799.      75Bg0201SA       MINS = Carb;
2800.      75Bg0201SA       TEXTURE = Granoblastic;
2801.      75Bg0201SA       CONDITION = Fresh;
2802.      75Bg0201SA       REMARKS = Contains sparse crinoid plates.;
2803.      75Bg0201SA
2804.      75Bg0201SA SAMPLE NUMBER = 75ABg0201B;
2805.      75Bg0201SA       UNIT = UTr;
2806.      75Bg0201SA       SOURCE = Float;
2807.      75Bg0201SA       TYPE = Repres, foss;
2808.      75Bg0201SA       PURPOSE = Hand spec, foss deter;
2809.      75Bg0201SA       DESCRIPTION = Sed, met;
2810.      75Bg0201SA       LITH = Graphitic phyllite;
2811.      75Bg0201SA       FORM = Bedded;
2812.      75Bg0201SA       MINS = Graph;
2813.      75Bg0201SA       TEXTURE = Phyllitic;
2814.      75Bg0201SA       CONDITION = Fresh;
2814.1     76Bg0201SA       REMARKS = Some beds contain very sparse Halobia(?);
2815.      75Bg0201SA
2816.      75Bg0201T  TEXT = Thinly laminated/bedded cream-weathering to dark gray uPz marble containing very sparse
2817.      75Bg0201T         crinoid columnals a few mm in diam. Crinoidal mbe is in fault contact and infolded? with
2818.      75Bg0201T         uTr dark gray marble and pyritic dk gy/black graphitic phyllite. Crinoids are mainly in
2819.      75Bg0201T         cream-weath blue-gray mbe. Koch thinks (but I don't agree) that some of the organic material
2820.      75Bg0201T         = fusulinids--if so, they are thoroly rexld and prob indeterminate. Halobia or similar
2821.      75Bg0201T         UTr fossil collected from float blocks of thinly interbedded dark gray mbe and
2821.1     75Bg0201T         graphitic phyllite struct underlying crinoidal mbe (also see 75APC53). Units
2821.2     75Bg0201T         adjoin fol to rel msv dk green bsltc metavolcs, which have cropped out nearly
2821.3     75Bg0201T         continuously since 75ABg200.;
2822.      75Bg0201  ------------------------------------------------------------------------------------------
2823.      *
2824.      75Bg0202             STATION = 75ABg0202;
2825.      75Bg0202             DATE = 8/7/75;
2826.      75Bg0202             QUAD = KC B-5;
2827.      75Bg0202             LAT = 55/19/35;
2828.      75Bg0202             LONG = 131/31/01;
2829.      75Bg0202             PURPOSE = Geol, geochem;
2830.      75Bg0202
2831.      75Bg0202   TEXT-TOPIC = Lith;
2832.      75Bg0202
2833.      75Bg0202   STRUCTURE;
2834.      75Bg0202         FOL-SCH = 340/56;
2835.      75Bg0202         AXIAL-PLANE = 340/56;
2836.      75Bg0202         FOLD-AXIS = 165/12;
2837.      75Bg0202         OTHER-LIN = 120/35 str;
2838.      75Bg0202
2839.      75Bg0202SA SAMPLE NUMBER = 75ABg0202A;
2840.      75Bg0202SA       UNIT = PS;
2841.      75Bg0202SA       SOURCE = OTC;
2842.      75Bg0202SA       TYPE = Repres;
2843.      75Bg0202SA       PURPOSE = Hand spec;
2844.      75Bg0202SA       DESCRIPTION = Sed, met;
2845.      75Bg0202SA       LITH = Metapelite;
2846.      75Bg0202SA       FORM = Bedded;
```

```
2847.    75Bg0202SA        MINS = Bio, Py, Musc;
2848.    75Bg0202SA        TEXTURE = Phyllitic;
2849.    75Bg0202SA        CONDITION = Fresh;
2850.    75Bg0202SA
2851.    75Bg0202SA  SAMPLE NUMBER = 75ABg0202B;
2852.    75Bg0202SA        UNIT = PS;
2853.    75Bg0202SA        SOURCE = OTC;
2854.    75Bg0202SA        TYPE = Repres;
2855.    75Bg0202SA        PURPOSE = Hand spec;
2856.    75Bg0202SA        DESCRIPTION = Extr, met;
2857.    75Bg0202SA        LITH = Meta-andesite?;
2858.    75Bg0202SA        FORM = Bed?;
2859.    75Bg0202SA        MINS = Act, Chl, Ep/Clz;
2860.    75Bg0202SA        TEXTURE = Relict porphyritic--phyllitic;
2861.    75Bg0202SA        CONDITION = Fresh;
2862.    75Bg0202SA
2863.    75Bg0202T   TEXT = Thinly interb phytc sltstn, mdst, lst (metapelite, PS).  There is also about 10 meters of foliated
2864.    75Bg0202T          dark green rock cons of crystals (relict pxts?) to a cm or so of Act in a matrix of fine-grain,
2865.    75Bg0202T          silvery green schist.  The femag xl-bearg unit may be a sill  or a bed.  It closely resembles
2866.    75Bg0202T          andesitic metatuff of GIF and prob is a bed.
2867.    75Bg0202T          Metapelite cont conspic fn gn Py parallel to fol.
2868.    75Bg0202T          See no met minls or textures to indic thermal overprintg of foliation.;
2869.    75Bg0202  ----------------------------------------------------------------------------------------------------
2870.    #
2871.    75Bg0203                STATION = 75ABg0203;
2872.    75Bg0203                DATE = 8/7/75;
2873.    75Bg0203                QUAD = KC B-5;
2874.    75Bg0203                LAT = 55/19/48;
2875.    75Bg0203                LONG = 131/30/49;
2876.    75Bg0203                PURPOSE = Geol;
2877.    75Bg0203
2878.    75Bg0203    TEXT-TOPIC = Lith;
2879.    75Bg0203
2880.    75Bg0203    STRUCTURE:
2881.    75Bg0203          FOL-SCH = 030/80;
2882.    75Bg0203          AXIAL-PLANE = 20/35;
2883.    75Bg0203
2884.    75Bg0203SA  SAMPLE NUMBER = 75ABg0203A;
2885.    75Bg0203SA        UNIT = BPS;
2886.    75Bg0203SA        SOURCE = OTC;
2887.    75Bg0203SA        TYPE = Repres;
2888.    75Bg0203SA        PURPOSE = Hand spec, T. S.;
2889.    75Bg0203SA        DESCRIPTION = Sed, met;
2890.    75Bg0203SA        LITH = Spotted pelitic hornfels;
2891.    75Bg0203SA        FORM = Bedded;
2892.    75Bg0203SA        MINS = Qtz, Plag, Bio, Musc;
2893.    75Bg0203SA        TEXTURE = Porphyroblastic;
2894.    75Bg0203SA        CONDITION = Fresh;
2895.    75Bg0203SA        REMARKS = Cordierite? Garnet?;
2896.    75Bg0203SA
2897.    75Bg0203T   TEXT = Distinctly layered rock consisting chiefly of odd "spotted hornfels" intercalated with relatively
2898.    75Bg0203T          familiar baked metapelite.  The spotted rock is crowded with pinhead to pea-size crudely equant
2899.    75Bg0203T          metacrysts that weather in relief.  On weath surf they are brownish gray.  On fresh surface they
2900.    75Bg0203T          are dark gray.  Metacrysts commonly coalesce to form "strings" and lumps.  I don't remember ever
2901.    75Bg0203T          seeing this feature before and cannot ident the metacrysts.  They could be (or have been) cordierite
2902.    75Bg0203T          or garnet, but now appear to be mainly mica (Ma) pseudomorphs.  Unit also contains odd hollow
2903.    75Bg0203T          concretionlike objects to 10 cm or so.  I believe these rx are metaseds, derived mainly from +-
2904.    75Bg0203T          calcareous pelite and belong in BPS unit.
2905.    75Bg0203T          I judge this aureole to be about 1/4 mile wide at s.l.
2906.    75Bg0203T          Unit crops out on both sides of Whitman Creek.;
2907.    75Bg0203  ----------------------------------------------------------------------------------------------------
```

```
2908.   #
2909.   75Bg0204              STATION = 75ABg0204;
2910.   75Bg0204              DATE = 8/7/75;
2911.   75Bg0204              QUAD = KC B-5;
2912.   75Bg0204              LAT = 55/19/58;
2913.   75Bg0204              LONG = 131/30/22;
2914.   75Bg0204              PURPOSE = Geol, geochem;
2915.   75Bg0204
2916.   75Bg0204    TEXT-TOPIC = Lith;
2917.   75Bg0204
2918.   75Bg0204    STRUCTURE;
2919.   75Bg0204         FOL-SCR = 208/65 (gnc struct in QDio 100 m S. of station);
2920.   75Bg0204         OTHER = Ctct 290/65 (approx);
2921.   75Bg0204         OTHER = Mafic dike 128/20;
2922.   75Bg0204
2923.   75Bg0204SA SAMPLE NUMBER = 75ABg0204A;
2924.   75Bg0204SA       UNIT = HS;
2925.   75Bg0204SA       SOURCE = OTC;
2926.   75Bg0204SA       TYPE = Repres;
2927.   75Bg0204SA       PURPOSE = Hand spec, spec;
2928.   75Bg0204SA       DESCRIPTION = Sed, met;
2929.   75Bg0204SA       LITH = Pelitic hornfels;
2930.   75Bg0204SA       FORM = Bedded;
2931.   75Bg0204SA       MINS = Qtz, Plag, Bio, Py;
2932.   75Bg0204SA       TEXTURE = Microgranular;
2933.   75Bg0204SA       CONDITION = Alter, iron-stained;
2934.   75Bg0204SA
2935.   75Bg0204SA SAMPLE NUMBER = 75ABg0204B;
2936.   75Bg0204SA       UNIT = QDio;
2937.   75Bg0204SA       SOURCE = OTC;
2938.   75Bg0204SA       TYPE = Repres;
2939.   75Bg0204SA       PURPOSE = Hand spec;
2940.   75Bg0204SA       DESCRIPTION = Intr;
2941.   75Bg0204SA       LITH = QDio;
2942.   75Bg0204SA       FORM = Pluton;
2943.   75Bg0204SA       MINS = Qtz, Plag, Bio, Py;
2944.   75Bg0204SA       TEXTURE = Granitoid to microgranular;
2945.   75Bg0204SA       CONDITION = Fresh;
2946.   75Bg0204SA       REMARKS = Spl coll abt a meter from ctct w/ country rx.;
2947.   75Bg0204SA
2948.   75Bg0204SA SAMPLE NUMBER = 75ABg0204C;
2949.   75Bg0204SA       UNIT = QDio;
2950.   75Bg0204SA       SOURCE = OTC;
2951.   75Bg0204SA       TYPE = Repres;
2952.   75Bg0204SA       PURPOSE = Hand spec;
2953.   75Bg0204SA       DESCRIPTION = Intr;
2954.   75Bg0204SA       LITH = Lamprophyre?;
2955.   75Bg0204SA       FORM = 30 cm dike;
2956.   75Bg0204SA       TEXTURE = aphan-holoxlne;
2957.   75Bg0204SA       CONDITION = Fresh;
2958.   75Bg0204SA
2959.   75Bg0204T  TEXT = Ctct betw rusty-weath metaseds and rather mafic Qdio.  The metaseds ring like good hornfels and
2960.   75Bg0204T        prob are der mainly fr turbidite and poss subord mvolc (HS(V?)).  See no "spotted hfls" at station,
2961.   75Bg0204T        and none in rx for at least 10 m or so to south.  In places, mseds show layering that prob =
2962.   75Bg0204T        relict beddg.  QDio is rather mafic, locally gneissic, and contains numerous variously assim
2963.   75Bg0204T        xenoliths or mseds.  It also is cut by a few leucoaplite dikes.  See no GA.  Loc. diffic to
2964.   75Bg0204T        disting betw plut and intruded rx.  Ctct is irregular.
2965.   75Bg0204T        About 100 m N or sta, QDio is cut by several mafic (lampro?) dikes 2-50 cm tk.  At this point
2966.   75Bg0204T        QDio ranges from mainly gneissic to rel msv, w/o strong foliation.;
2967.   75Bg0204  ------------------------------------------------------------------------------------------------
2968.   #
```

```
75Bg0205              STATION = 75ABg0205;
75Bg0205              DATE = 8/7/75;
75Bg0205              QUAD = KC B-5;
75Bg0205              LAT = 55/20/44;
75Bg0205              LONG = 131/29/25;
75Bg0205              PURPOSE = Geol, geochem;
75Bg0205
75Bg0205   TEXT-TOPIC = Lith;
75Bg0205
75Bg0205   STRUCTURE;
75Bg0205        FOL-SCH = 163/65 (local);
75Bg0205
75Bg0205SA SAMPLE NUMBER = 75ABg0205A;
75Bg0205SA      UNIT = GDio/QDio;
75Bg0205SA      SOURCE = OTC;
75Bg0205SA      TYPE = Repres;
75Bg0205SA      PURPOSE = Hand spec, spec;
75Bg0205SA      DESCRIPTION = Intr, met;
75Bg0205SA      LITH = GDio or QDio;
75Bg0205SA      FORM = Pluton;
75Bg0205SA      MINS = Qtz, Plag, Px, Act, Chl, Ep/Clz;
75Bg0205SA      TEXTURE = Nematoblastic, wkly porphyritic;
75Bg0205SA      CONDITION = Fresh;
75Bg0205SA      REMARKS = Rndmly oriented Act needles.;
75Bg0205SA
75Bg0205SA SAMPLE NUMBER = 75ABg0205B;
75Bg0205SA      UNIT = GDio/QDio;
75Bg0205SA      SOURCE = OTC;
75Bg0205SA      TYPE = Repres;
75Bg0205SA      PURPOSE = Hand spec;
75Bg0205SA      DESCRIPTION = Intr, met;
75Bg0205SA      LITH = QDio or GDio;
75Bg0205SA      FORM = Plut;
75Bg0205SA      MINS = Qtz, Plag, Act, Chl, Ep/Clz;
75Bg0205SA      TEXTURE = Hypid gran;
75Bg0205SA      CONDITION = Fresh;
75Bg0205SA
75Bg0205T  TEXT = GDio or QDio cont loc abndnt angular to rndd inclusions of ptly assimilated metased (pel) country
75Bg0205T         rock. Where inclns > plut, rk is angular agmatite.
75Bg0205T         Plutonic rk wx light gray, fine to med-crs grain, and ranges in texture from foliated to hypid
75Bg0205T         gran.  The fine-grain phase conts abndnt rndmly oriented needles to 1 cm long of Act---
75Bg0205T         it is also vy wkly Fspr porphyritic.
75Bg0205T         Plut is cut by aplite and lampro dikes.
75Bg0205T         There are also a few small shear zones.  I believe that texture of plut, abundance of meta xenoliths
75Bg0205T         and aplite dikes indic periphery (prob margin, not roof) of pluton.;
75Bg0205  ------------------------------------------------------------------------------------------------------
#
75Bg0206              STATION = 75ABg0206;
75Bg0206              DATE = 8/7/75;
75Bg0206              QUAD = KC B-5;
75Bg0206              LAT = 55/21/02;
75Bg0206              LONG = 131/28/53;
75Bg0206              PURPOSE = Geol;
75Bg0206
75Bg0206   TEXT-TOPIC = Lith;
75Bg0206
75Bg0206   STRUCTURE;
75Bg0206        OTHER = Dike 310/85;
75Bg0206
75Bg0206SA SAMPLE NUMBER = 75ABg0206A;
75Bg0206SA      UNIT = GDio-QDio;
```

```
3030.   75Bg0206SA      SOURCE = OTC;
3031.   75Bg0206SA      TYPE = Repres;
3032.   75Bg0206SA      PURPOSE = Hand spec, T. S.;
3033.   75Bg0206SA      DESCRIPTION = Intr, met;
3034.   75Bg0206SA      LITH = GDio;
3035.   75Bg0206SA      FORM = Plut;
3036.   75Bg0206SA      MINS = Qtz, Plag, Chl, Zp/Clz;
3037.   75Bg0206SA      CONDITION = Alter, weathered;
3038.   75Bg0206SA      REMARKS = Prob rxld;
3039.   75Bg0206SA
3040.   75Bg0206SA SAMPLE NUMBER = 75ABg0206B;
3041.   75Bg0206SA      UNIT = GDio-QDio;
3042.   75Bg0206SA      SOURCE = OTC;
3043.   75Bg0206SA      TYPE = Repres;
3044.   75Bg0206SA      PURPOSE = Hand spec, T. S.;
3045.   75Bg0206SA      DESCRIPTION = Intr, met;
3046.   75Bg0206SA      LITH = Qtz microdio;
3047.   75Bg0206SA      FORM = Dike;
3048.   75Bg0206SA      MINS = Qtz, Plag, Bio;
3049.   75Bg0206SA      TEXTURE = Microgranular;
3050.   75Bg0206SA      CONDITION = Alter, weathered;
3051.   75Bg0206SA
3052.   75Bg0206T  TEXT = Msv, rather leucocratic, medium grain, light gray wx GDio.  Cut by dark brownish gray, fine-grain
3053.   75Bg0206T       mafic QDio? dikes to 35 cm tk.  The dikes have chilled, aphan borders and fine microgranular
3054.   75Bg0206T       cores---may be rxld (meta).
3055.   75Bg0206T       Pluton n & s of sta conts loc conspic rusty-wx inclns of metapelite.;
3056.   75Bg0206  ----------------------------------------------------------------------------------------------
3057.   #
3058.   75Bg0207            STATION = 75ABg0207;
3059.   75Bg0207            DATE = 8/7/75;
3060.   75Bg0207            QUAD = KC B-5;
3061.   75Bg0207            LAT = 55/21/39;
3062.   75Bg0207            LONG = 131/28/22;
3063.   75Bg0207            PURPOSE = Geochem;
3064.   75Bg0207
3065.   75Bg0207  TEXT-TOPIC = Lith;
3066.   75Bg0207
3067.   75Bg0207  STRUCTURE;
3068.   75Bg0207       FOL-SCH = 325/75;
3069.   75Bg0207       JOINT = 218/65;
3070.   75Bg0207
3071.   75Bg0207SA SAMPLE NUMBER = 75ABg0207A;
3072.   75Bg0207SA      UNIT = MS;
3073.   75Bg0207SA      SOURCE = OTC;
3074.   75Bg0207SA      TYPE = Repres;
3075.   75Bg0207SA      PURPOSE = Hand spec, spec;
3076.   75Bg0207SA      DESCRIPTION = Sed, met;
3077.   75Bg0207SA      LITH = Metapelite;
3078.   75Bg0207SA      FORM = Bedded;
3079.   75Bg0207SA      MINS = Qtz, Plag, Bio, Py;
3080.   75Bg0207SA      TEXTURE = Microgranular to foliated;
3081.   75Bg0207SA      CONDITION = Alter, rusty wx;
3082.   75Bg0207SA
3083.   75Bg0207T  TEXT = Rusty-wx metapelite cont conspic fn gn Py parallel to foln (some layers).  Ctct w/ plut is abt
3084.   75Bg0207T       100 m to south, approx at station OS326 (Smith, 1970).  Mpel at ctct is strongly Fe-st---
3085.   75Bg0207T       pluton is rel msv & fresh-lookg not porphyritic and not gneissic/fol.  Few, if any, meta inclns
3086.   75Bg0207T       in plut.  Mpel cut by aplitic and poss QDio dikes, but tide not favorable (too high) to confirm
3087.   75Bg0207T       latter.;
3088.   75Bg0207  ----------------------------------------------------------------------------------------------
3089.   #
3090.   75Bg0208            STATION = 75ABg0208;
```

```
75Bg0208              DATE = 8/7/75;
75Bg0208              QUAD = KC B-5;
75Bg0208              LAT = 55/22/08;
75Bg0208              LONG = 131/28/08;
75Bg0208              PURPOSE = Geol, geochem;
75Bg0208
75Bg0208   TEXT-TOPIC = Lith;
75Bg0208
75Bg0208   STRUCTURE;
75Bg0208        FOL-SCH = 145/80;
75Bg0208        JOINT = 238/65;
75Bg0208        OTHER-LIN = 145/15 str;
75Bg0208
75Bg0208SA SAMPLE NUMBER = 75ABg0208A;
75Bg0208SA      UNIT = HPS;
75Bg0208SA      SOURCE = OTC;
75Bg0208SA      TYPE = Repres;
75Bg0208SA      PURPOSE = Hand spec, spec;
75Bg0208SA      DESCRIPTION = Sed, met;
75Bg0208SA      LITH = Metapelite;
75Bg0208SA      FORM = Bedded;
75Bg0208SA      MINS = Qtz, Py;
75Bg0208SA      TEXTURE = Microgranular;
75Bg0208SA      CONDITION = Alter, FE-stained;
75Bg0208SA
75Bg0208T  TEXT = Dark gray baked metapelite cont laminae of light gray silicic rock para foln.  The laminae
75Bg0208T         cmmnly show isocl microfolds to which fol/sch is ap.
75Bg0208T         Otcps commonly weath bright rusty red or brown.
75Bg0208T         Some layers of unit cont conspic Py para fol---when broken, rk gives off strong sulfurous odor.;
75Bg0208  ------------------------------------------------------------------------------------------------------
*
75Bg0209              STATION = 75ABg0209;
75Bg0209              DATE = 8/7/75;
75Bg0209              QUAD = KC B-5;
75Bg0209              LAT = 55/23/10;
75Bg0209              LONG = 131/28/02;
75Bg0209              PURPOSE = Geol, geochem;
75Bg0209
75Bg0209   TEXT-TOPIC = Lith, strat, foss, econ geol;
75Bg0209
75Bg0209   STRUCTURE;
75Bg0209        FOL-SCH = 140/70;
75Bg0209        OTHER = Aplite Sil 140/70;
75Bg0209
75Bg0209SA SAMPLE NUMBER = 75ABg0209A;
75Bg0209SA      UNIT = HPS;
75Bg0209SA      SOURCE = OTC;
75Bg0209SA      TYPE = Repres;
75Bg0209SA      PURPOSE = Hand spec, spec;
75Bg0209SA      DESCRIPTION = Sed, met;
75Bg0209SA      LITH = Metapelite;
75Bg0209SA      FORM = Bedded;
75Bg0209SA      MINS = Qtz, Bio, Py;
75Bg0209SA      TEXTURE = Microgranular & foliated;
75Bg0209SA      CONDITION = FE-st;
75Bg0209SA
75Bg0209SA SAMPLE NUMBER = 75ABg0209B;
75Bg0209SA      UNIT = HPS;
75Bg0209SA      SOURCE = OTC;
75Bg0209SA      TYPE = Repres;
75Bg0209SA      PURPOSE = Hand spec, spec;
```

```
75Bg0209SA      DESCRIPTION = Intr;
75Bg0209SA      LITH = Leucoaplite;
75Bg0209SA      FORM = Sill;
75Bg0209SA      MINS = Qtz, Plag, Py;
75Bg0209SA      TEXTURE = Microgranular;
75Bg0209SA      CONDITION = FE-st;
75Bg0209SA
75Bg0209SA SAMPLE NUMBER = 75ABg0209C;
75Bg0209SA      UNIT = HPS;
75Bg0209SA      SOURCE = OTC;
75Bg0209SA      TYPE = Repres;
75Bg0209SA      PURPOSE = Hand spec, spec;
75Bg0209SA      DESCRIPTION = Minlzd;
75Bg0209SA      LITH = Quartz;
75Bg0209SA      FORM = Vein;
75Bg0209SA      MINS = Py;
75Bg0209SA      CONDITION = FE-st;
75Bg0209SA      REMARKS = Qtz vein cuts leucoaplite;
75Bg0209SA
75Bg0209SA SAMPLE NUMBER = 75ABg0209D;
75Bg0209SA      UNIT = HPS;
75Bg0209SA      SOURCE = OTC;
75Bg0209SA      TYPE = Repres;
75Bg0209SA      PURPOSE = Hand spec, spec;
75Bg0209SA      DESCRIPTION = Intr, minlzd;
75Bg0209SA      LITH = Leucoaplite;
75Bg0209SA      FORM = Sill;
75Bg0209SA      MINS = Qtz, Plag, Py;
75Bg0209SA      TEXTURE = Microgranular;
75Bg0209SA      CONDITION = Alter, FE-st;
75Bg0209SA      REMARKS = Leucoaplite adjacent to Qtz vn.;
75Bg0209SA
75Bg0209SA SAMPLE NUMBER = 75ABg0298E;
75Bg0209SA      UNIT = uPz?;
75Bg0209SA      SOURCE = Float;
75Bg0209SA      TYPE = Grab, foss;
75Bg0209SA      PURPOSE = Foss deter;
75Bg0209SA      DESCRIPTION = Sed, met;
75Bg0209SA      LITH = Limestone;
75Bg0209SA      TEXTURE = Sublithographic;
75Bg0209SA      CONDITION = Fresh;
75Bg0209SA      REMARKS = Specimens coll from tailings below Londevan Mine tunnel.  Contain
75Bg0209SA      REMARKS = fusulinid-like objects.;
75Bg0209SA
75Bg0209SA SAMPLE NUMBER = 75ABg0209F;
75Bg0209SA      UNIT = uPz?;
75Bg0209SA      SOURCE = Float,
75Bg0209SA      TYPE = Grab;
75Bg0209SA      PURPOSE = Hand spec;
75Bg0209SA      DESCRIPTION = Sed, met;
75Bg0209SA      LITH = Metapelite;
75Bg0209SA      MINS = Py;
75Bg0209SA      TEXTURE = Phyllitic;
75Bg0209SA      CONDITION = Fresh;
75Bg0209SA      REMARKS = Pyrite crystals to 2-3 cm.;
75Bg0209SA
75Bg0209SA SAMPLE NUMBER = 75ABg0209G;
75Bg0209SA      UNIT = uPz?;
75Bg0209SA      SOURCE = Float;
75Bg0209SA      TYPE = Grab;
75Bg0209SA      PURPOSE = Hand spec;
```

```
3213.    75Bg0209SA      MINS = Qtz;
3214.    75Bg0209SA      REMARKS = Ore specimens, Londevan Mine.  Pyrite, galena, sphalerite, chalcopyrite?;
3215.    75Bg0209SA
3216.    75Bg0209T  TEXT = LONDEVAN MINE (buildings and tailings pile at sea level--all nearly in ruins).
3217.    75Bg0209T        Rusty-wx metaseds are cut by 5 meter thick sill-like body of leucoaplite.
3218.    75Bg0209T        Metaseds, which I think are metapelite, are baked and app bleached nr ctct w/ sill.  Sill is
3219.    75Bg0209T        crossed by up to 40 cm thick Qtz vns cont Py and poss other sulfs.  Vns may also cut mseds, but
3220.    75Bg0209T        not observed.  All rk types cond sulfide minerals.  Qtz vn may be simlr to ore body at mine,
3221.    75Bg0209T        reportedly reached by 1000 foot drift driven westward from a point abt one hundred feet above s.l.
3222.    75Bg0209T        The tailings pile at the Londevan contains abundant sulfide-bearing Qtz and pyritic metased
3223.    75Bg0209T        country rocks.  There are also numerous pieces of olive-gray weath sublithographic limestone,
3224.    75Bg0209T        some of which contain fusulinid-like objects.  Accomp this limestone, which also is veined by Qtz
3225.    75Bg0209T        and calcite, is pelitic phyllite cont Py xls to 2 or 3 cm in max dimens.  Both lst & crsly
3226.    75Bg0209T        pytc phyll must have been crossed in 1000 foot drift---I have not seen either in shoreline crops.
3227.    75Bg0209T        If this lst and assoc crsly pyt phyll are uPz, does the S-dipping metapel south of this station
3228.    75Bg0209T        struct or strat overlie them?  Is the metapel KJs?
3229.    75Bg0209T        I suspect mineralization at this mine is result of accumulation of sulfides in quartz veins
3230.    75Bg0209T        ("sweat") during deformation and, poss, reg or thermal met.  Minlzation
3231.    75Bg0209T        may be linked to
3232.    75Bg0209T        emplacement of leucoaplite sill  (heat?), but I believe the ore components are primarily
3233.    75Bg0209T        remobilized original constituents of the bedded rocks.;
3234.    75Bg0209  ----------------------------------------------------------------------------------------------
3235.    #
3236.    75Bg0210            STATION = 75ABg0210;
3237.    75Bg0210            DATE = 8/8/75;
3238.    75Bg0210            QUAD = KC B-5;
3239.    75Bg0210            LAT = 55/23/05;
3240.    75Bg0210            LONG = 131/28/05;
3241.    75Bg0210            PURPOSE = Geol, geochem;
3242.    75Bg0210
3243.    75Bg0210  TEXT-TOPIC = Lith, struct, strat, reg geol/tect;
3244.    75Bg0210
3245.    75Bg0210  STRUCTURE;
3246.    75Bg0210       FOL-SCH = 102/25-40;
3247.    75Bg0210       AXIAL-PLANE = 102/25-40;
3248.    75Bg0210       OTHER-LIN = 144/15 str;
3249.    75Bg0210
3250.    75Bg0210SA SAMPLE NUMBER = 75ABg0210A;
3251.    75Bg0210SA      UNIT = Pz?s;
3252.    75Bg0210SA      SOURCE = OTC;
3253.    75Bg0210SA      TYPE = Repres;
3254.    75Bg0210SA      PURPOSE = Hand spec, spec;
3255.    75Bg0210SA      DESCRIPTION = Sed, met;
3256.    75Bg0210SA      LITH = Argillite;
3257.    75Bg0210SA      FORM = Bedded;
3258.    75Bg0210SA      MINS = Qtz, Bio, Py;
3259.    75Bg0210SA      TEXTURE = Phyllitic;
3260.    75Bg0210SA      CONDITION = Alter, FE-st;
3261.    75Bg0210SA
3262.    75Bg0210SA SAMPLE NUMBER = 75ABg0210B;
3263.    75Bg0210SA      UNIT = Pz?s;
3264.    75Bg0210SA      SOURCE = OTC;
3265.    75Bg0210SA      TYPE = Repres;
3266.    75Bg0210SA      PURPOSE = Hand spec, spec;
3267.    75Bg0210SA      DESCRIPTION = Intr, met;
3268.    75Bg0210SA      LITH = Qtz Bio;
3269.    75Bg0210SA      FORM = Sill;
3270.    75Bg0210SA      MINS = Qtz, Plag, Bio, Py;
3271.    75Bg0210SA      TEXTURE = Granoblastic;
3272.    75Bg0210SA      CONDITION = Alter, Fe-st;
3273.    75Bg0210SA
```

```
3274.    75Bg0210T  TEXT = Pytc metapel ("argillite") bet. Cannery and Londevan Mine doesn't "look" right for uMz.  It
3275.    75Bg0210T        contains big Py xls, Calc concrns, and lst.  In fact, lst ident to that in tailings at Londevan
3276.    75Bg0210T        crops out around high tide line abt 200 m N. of Cannery.  It is interb w/ pytc argill and occurs
3277.    75Bg0210T        in domelike lens abt 10 m long and 3 m wide.  Some poss fusulinids but nothing as good as in
3278.    75Bg0210T        tailings.
3279.    75Bg0210T        Argill seems to struct overlie lst, as it does N. of Coon Cove.  Poss = hemipelagic seds at top
3280.    75Bg0210T        of uPz ophiolite? look for chert.
3281.    75Bg0210T        Question: Are all rx N of GDio pluton uPz? S of pluton = uMz?
3282.    75Bg0210T        Problem: How disting uPz argill from uMz turb.
3283.    75Bg0210T        Possible solution (test): Are Zn-bearg "strata bound" minl deps on SW Revilla genet. rel to
3284.    75Bg0210T        relative prox of uPz strata to oc crust?  Would high bckgrnd Zn in pytc argill indic uPz??
3285.    75Bg0210T        Pytc argill cut by semiconcord rusty-wx Qtz Dio dikes to 1 m. tk.;
3286.    75Bg0210  ----------------------------------------------------------------------------------------------
3287.    #
3288.    75Bg0211             STATION = 75ABg0211;
3289.    75Bg0211             DATE = 8/8/75;
3290.    75Bg0211             QUAD = KC B-5;
3291.    75Bg0211             LAT = 55/23/34;
3292.    75Bg0211             LONG = 131/28/19;
3293.    75Bg0211             PURPOSE = Geol, geochem;
3294.    75Bg0211
3295.    75Bg0211   TEXT-TOPIC = Lith;
3296.    75Bg0211
3297.    75Bg0211   STRUCTURE;
3298.    75Bg0211        JOINT = 70/v;
3299.    75Bg0211        JOINT = 345/v;
3300.    75Bg0211
3301.    75Bg0211SA SAMPLE NUMBER = 75ABg0211A;
3302.    75Bg0211SA      UNIT = QDio;
3303.    75Bg0211SA      SOURCE = OTC;
3304.    75Bg0211SA      TYPE = Repres;
3305.    75Bg0211SA      PURPOSE = Hand spec, spec;
3306.    75Bg0211SA      DESCRIPTION = Intr;
3307.    75Bg0211SA      LITH = QDio;
3308.    75Bg0211SA      FORM = Pluton;
3309.    75Bg0211SA      MINS = Qtz, Plag, Py;
3310.    75Bg0211SA      TEXTURE = Microgranular/aplitic;
3311.    75Bg0211SA      CONDITION = Fresh;
3312.    75Bg0211SA
3313.    75Bg0211SA SAMPLE NUMBER = 75ABg0211B;
3314.    75Bg0211SA      UNIT = Pz?s;
3315.    75Bg0211SA      SOURCE = OTC;
3316.    75Bg0211SA      TYPE = Repres;
3317.    75Bg0211SA      PURPOSE = Hand spec;
3318.    75Bg0211SA      DESCRIPTION = Sed, met;
3319.    75Bg0211SA      LITH = Argillite;
3320.    75Bg0211SA      MINS = Qtz, Plag, Py;
3321.    75Bg0211SA      CONDITION = Alter, baked, bleached, silicified;
3322.    75Bg0211SA      REMARKS = Spl coll abt 20 meters from plut ctct.;
3323.    75Bg0211SA
3324.    75Bg0211T  TEXT = Massive, nonfol, homogeneous, leucocratic Qtz diorite.  Rk is fine grained, commonly aplitic.
3325.    75Bg0211T        Crossed by a few thin (< 25 cm) dikes of white-wx peg or leucoaplite.
3326.    75Bg0211T        There is abundant float of lampro-like rk but see no dikes of it.
3327.    75Bg0211T        Pytc argill at s ctct of plut is baked, silicified?, and bleached, and is cut by numerous QDio
3328.    75Bg0211T        dikes.;
3329.    75Bg0211  ----------------------------------------------------------------------------------------------
3330.    #
3331.    75Bg0212             STATION = 75ABg0212;
3332.    75Bg0212             DATE = 8/8/75;
3333.    75Bg0212             QUAD = KC B-5;
3334.    75Bg0212             LAT = 55/23/48;
```

```
75Bg0212              LONG = 131/28/29;
75Bg0212              PURPOSE = Geol;
75Bg0212
75Bg0212   TEXT-TOPIC = Lith;
75Bg0212
75Bg0212   STRUCTURE;
75Bg0212        OTHER = Dike 222/v;
75Bg0212
75Bg0212SA SAMPLE NUMBER = 75ABg0212A;
75Bg0212SA      UNIT = QDio;
75Bg0212SA      SOURCE = OTC;
75Bg0212SA      TYPE = Repres;
75Bg0212SA      PURPOSE = Hand spec;
75Bg0212SA      DESCRIPTION = Intr;
75Bg0212SA      LITH = Hbdte;
75Bg0212SA      FORM = Dike;
75Bg0212SA      MINS = Plag, Hbl;
75Bg0212SA      TEXTURE = Subidiomorphic;
75Bg0212SA      CONDITION = Fresh;
75Bg0212SA
75Bg0212T  TEXT = Qtz dio pluton is cut by 10 meter dike of coarse (center of dike) hornblendite.;
75Bg0212  ------------------------------------------------------------------------------------------
#
75Bg0213              STATION = 75ABg0213;
75Bg0213              DATE = 8/8/75;
75Bg0213              QUAD = KC B-5;
75Bg0213              LAT = 55/24/14;
75Bg0213              LONG = 131/28/14;
75Bg0213              PURPOSE = Geol;
75Bg0213
75Bg0213   TEXT-TOPIC = Lith;
75Bg0213
75Bg0213   STRUCTURE;
75Bg0213        FOL-SCH = 235/40;
75Bg0213
75Bg0213SA SAMPLE NUMBER = 75ABg0213A;
75Bg0213SA      UNIT = Pz?s;
75Bg0213SA      SOURCE = OTC;
75Bg0213SA      TYPE = Repres;
75Bg0213SA      PURPOSE = Hand spec;
75Bg0213SA      DESCRIPTION = Sed, met;
75Bg0213SA      LITH = Argillite;
75Bg0213SA      FORM = Bedded;
75Bg0213SA      MINS = Qtz, Py, Graphite;
75Bg0213SA      TEXTURE = Phyllitic;
75Bg0213SA      CONDITION = Fresh;
75Bg0213SA
75Bg0213T  TEXT = Ctct betw QDio plut (on s) and rusty-wx pytc argill (on n).
75Bg0213T        Ctct zone marked by prominent Qtz vns up to a meter or so thick in both types of country rx.
75Bg0213T        Argill is hardened, phyllitic, and carbonaceous.  QDio actually is plutonic breccia comp of
75Bg0213T        angular blocks of leuco QDio and interblock leucoaplite.  Contrast betw plut types is not strong.;
75Bg0213  ------------------------------------------------------------------------------------------
#
75Bg0214              STATION = 75ABg0214;
75Bg0214              DATE = 8/8/75;
75Bg0214              QUAD = KC B-5;
75Bg0214              LAT = 55/24/32;
75Bg0214              LONG = 131/29/02;
75Bg0214              PURPOSE = Geol, geochem;
75Bg0214
75Bg0214   TEXT-TOPIC = Lith;
```

```
75Bg0214
75Bg0214   STRUCTURE;
75Bg0214        FOL-SCH = 198/32;
75Bg0214        CLEAVAGE = 190/50;
75Bg0214        JOINT = 080/55;
75Bg0214        FOLD-AXIS = 325/20 (open warps);
75Bg0214        OTHER-LIN = 352/20 str;
75Bg0214
75Bg0214SA SAMPLE NUMBER = 75ABg0214A;
75Bg0214SA      UNIT = Pz?s;
75Bg0214SA      SOURCE = OTC;
75Bg0214SA      TYPE = Repres;
75Bg0214SA      PURPOSE = Hand spec, spec;
75Bg0214SA      DESCRIPTION = Sed, met;
75Bg0214SA      LITH = Rxld lst;
75Bg0214SA      FORM = Bed;
75Bg0214SA      MINS = Carb;
75Bg0214SA      TEXTURE = Aphan, porphyroblastic;
75Bg0214SA      CONDITION = Fresh;
75Bg0214SA
75Bg0214SA SAMPLE NUMBER = 75ABg0214B;
75Bg0214SA      UNIT = Pz?s;
75Bg0214SA      SOURCE = OTC;
75Bg0214SA      TYPE = Repres;
75Bg0214SA      PURPOSE = Hand spec;
75Bg0214SA      DESCRIPTION = Sed, met;
75Bg0214SA      LITH = Argillite;
75Bg0214SA      MINS = Py, Graph;
75Bg0214SA      TEXTURE = Phyllitic;
75Bg0214SA      CONDITION = Fresh;
75Bg0214SA
75Bg0214T  TEXT = Rusty-wx pytc argillite and phyllite.  Interbdd w/ arg are up to 10-15 cm thick layers of
75Bg0214T       dk gy, fn gn rxld lst.  See no foss. Gx for Zn.  Lst is diffic to see from distance---
75Bg0214T       makes up abt 10-15% of unit.;
75Bg0214  ----------------------------------------------------------------------------------------------
#
75Bg0215            STATION = 75ABg0215;
75Bg0215            DATE = 8/8/75;
75Bg0215            QUAD = KC B-5;
75Bg0215            LAT = 55/24/46;
75Bg0215            LONG = 131/29/21;
75Bg0215            PURPOSE = Geol, geochem;
75Bg0215
75Bg0215   TEXT-TOPIC = Lith;
75Bg0215
75Bg0215   STRUCTURE;
75Bg0215        FAULT-SHEAR = 190/55;
75Bg0215
75Bg0215SA SAMPLE NUMBER = 75ABg0215A;
75Bg0215SA      UNIT = Pz?s;
75Bg0215SA      SOURCE = OTC;
75Bg0215SA      TYPE = Repres;
75Bg0215SA      PURPOSE = Hand spec, spec;
75Bg0215SA      DESCRIPTION = Sed, met;
75Bg0215SA      LITH = Argillite;
75Bg0215SA      MINS = Py, Graphite;
75Bg0215SA      TEXTURE = Phyllitic;
75Bg0215SA      CONDITION = Alter, FE-st;
75Bg0215SA      REMARKS = Rx are very carbonaceous;
75Bg0215SA
75Bg0215T  TEXT = Fault zone w/ 10-20 cm of gouge in pytc argill.  Hanging wall is conspic iron-stained for a
```

```
75Bg0215T        few meters above the fault.  Station estab mainly for gx spl.;
75Bg0215 ------------------------------------------------------------------------------------------
#
75Bg0216             STATION = 75ABg0216;
75Bg0216             DATE = 8/8/75;
75Bg0216             QUAD = KC B-5;
75Bg0216             LAT = 55/25/10;
75Bg0216             LONG = 131/30/24;
75Bg0216             PURPOSE = Geol;
75Bg0216
75Bg0216   TEXT-TOPIC = Lith;
75Bg0216
75Bg0216   STRUCTURE;
75Bg0216        CLEAVAGE = 200/v (argillite);
75Bg0216        OTHER = Ctct 200/v (approx);
75Bg0216
75Bg0216SA SAMPLE NUMBER = 75ABg0216A;
75Bg0216SA      UNIT = Q Monz;
75Bg0216SA      SOURCE = OTC;
75Bg0216SA      TYPE = Repres;
75Bg0216SA      PURPOSE = Hand spec;
75Bg0216SA      DESCRIPTION = Intr;
75Bg0216SA      LITH = Quartz monzonite;
75Bg0216SA      FORM = Pluton;
75Bg0216SA      MINS = Qtz, Py, Fspr;
75Bg0216SA      TEXTURE = Equigranular;
75Bg0216SA      CONDITION = Fresh;
75Bg0216SA
75Bg0216T  TEXT = Ctct betw leucocratic plutonic body to west and north and pyritic argillite to east and south.
75Bg0216T        Pluton is nonfoliated, mainly med grain equigranular aggreg of Qtz and fdspr, and a trace of py.
75Bg0216T        If mafics are present, they occur only in traces.  This rk prob is quartz monzonite.  It is
75Bg0216T        crossed by numerous dikes of slightly darker plutonic rock.  Nr ctct w/
75Bg0216T        argill, plut conts partly assim xenoliths of ctry rx--but nevertheless remains vy felsic right
75Bg0216T        to the contact.  Some of the "dikes" may be nearly assim xenoliths.
75Bg0216T        Argill to ctct seems "normal".  See no bleaching, hydroalt, or minln.  Usual lg Py xls and
75Bg0216T        sporadic Qtz vns.;
75Bg0216 ------------------------------------------------------------------------------------------
#
75Bg0217             STATION = 75ABg0217;
75Bg0217             DATE = 8/8/75;
75Bg0217             QUAD = KC B-5;
75Bg0217             LAT = 55/25/27;
75Bg0217             LONG = 131/30/21;
75Bg0217             PURPOSE = Geol;
75Bg0217
75Bg0217   TEXT-TOPIC = Lith, strat;
75Bg0217
75Bg0217   STRUCTURE;
75Bg0217        CLEAVAGE = 095/38;
75Bg0217        OTHER-LIN = 172/35 str;
75Bg0217
75Bg0217SA SAMPLE NUMBER = 75ABg0217A;
75Bg0217SA      UNIT = Pz?s;
75Bg0217SA      SOURCE = OTC;
75Bg0217SA      TYPE = Repres;
75Bg0217SA      PURPOSE = Hand spec, T. S.;
75Bg0217SA      DESCRIPTION = Intr, met;
75Bg0217SA      LITH = Qz-mica schist;
75Bg0217SA      FORM = Sill?;
75Bg0217SA      MINS = Qtz, Plag, Musc;
75Bg0217SA      TEXTURE = Schistose;
```

```
75Bg0217SA      CONDITION = Alter, rusty-wx;
75Bg0217SA
75Bg0217T  TEXT = Pyritic phyllite--phyllitic siltstone, orange-weath qz-mu schist.  This is same schist that has
75Bg0217T        puzzled us elsewhere.  It apparently has struct concordant ctcts w/ clvg and foln of enclosg
75Bg0217T        phyll and its schistosity also is parallel to that of the phyll.  I believe it is best interp as
75Bg0217T        a metamorphosed sill-like intrusive, rather than a bed.
75Bg0217T        NOTE: Metasedimentary rx at this locality are more fissile and less hardened than those to south,
75Bg0217T        despite proximity to pluton.  Does this have strat or struct significance?;
75Bg0217  ------------------------------------------------------------------------------------------------------
#
75Bg0218            STATION = 75ABg0218;
75Bg0218            DATE = 8/8/75;
75Bg0218            QUAD = KC B-5;
75Bg0218            LAT = 55/25/41;
75Bg0218            LONG = 131/30/29;
75Bg0218            PURPOSE = Geol, geochem;
75Bg0218
75Bg0218   TEXT-TOPIC = Lith, econ geol;
75Bg0218
75Bg0218   STRUCTURE;
75Bg0218        FOL-SCH = 258/20;
75Bg0218        JOINT = 180/v;
75Bg0218        FAULT-SHEAR = 226/34 (small fault at S. Portal---displmt not known);
75Bg0218        OTHER = Stope 285/50;
75Bg0218
75Bg0218SA SAMPLE NUMBER = 75ABg0218A;
75Bg0218SA      UNIT = Pz?s;
75Bg0218SA      SOURCE = OTC;
75Bg0218SA      TYPE = Repres;
75Bg0218SA      PURPOSE = Hand spec, spec;
75Bg0218SA      DESCRIPTION = Sed, met;
75Bg0218SA      LITH = Argillite;
75Bg0218SA      FORM = Bedded;
75Bg0218SA      MINS = Py;
75Bg0218SA      TEXTURE = Phyllitic, hardened;
75Bg0218SA      CONDITION = Alter, FE-st;
75Bg0218SA      REMARKS = Spl coll from Portal, Mahoney Mine;
75Bg0218SA
75Bg0218SA SAMPLE NUMBER = 75ABg0218B;
75Bg0218SA      UNIT = Pz?s;
75Bg0218SA      SOURCE = Float;
75Bg0218SA      TYPE = Repres, grab;
75Bg0218SA      PURPOSE = Hand spec;
75Bg0218SA      DESCRIPTION = Sed, met, minlzd;
75Bg0218SA      LITH = Ore from tailings;
75Bg0218SA      MINS = Py;
75Bg0218SA      REMARKS = Galena, chalco, sphal;
75Bg0218SA
75Bg0218SA SAMPLE NUMBER = 75ABg0218C;
75Bg0218SA      UNIT = Pz?s;
75Bg0218SA      SOURCE = Float;
75Bg0218SA      TYPE = Repres;
75Bg0218SA      PURPOSE = Hand spec;
75Bg0218SA      DESCRIPTION = Sed, met;
75Bg0218SA      LITH = Phytc conglomerate;
75Bg0218SA      TEXTURE = Foliated;
75Bg0218SA      CONDITION = Fresh;
75Bg0218SA      REMARKS = Spl coll from near tailings pile at Mahoney Mine.;
75Bg0218SA
75Bg0218SA SAMPLE NUMBER = 75ABg0218D;
75Bg0218SA      UNIT = Pz?s;
```

```
75Bg0218SA      SOURCE = OTC;
75Bg0218SA      TYPE = Repres;
75Bg0218SA      PURPOSE = Hand spec, spec;
75Bg0218SA      DESCRIPTION = Sed, met, minlzd;
75Bg0218SA      LITH = Breccia;
75Bg0218SA      FORM = Zone to 1 meter thick;
75Bg0218SA      MINS = Qtz, Py, Galena?, sphalerite?;
75Bg0218SA      REMARKS = Galena, sphalerite not confirmed.;
75Bg0218SA
75Bg0218T  TEXT = MAHANONEY MINE
75Bg0218T        Rocks at S. Portal are dk gy pyritic, rusty-wx argillite (the hardened var), not much different
75Bg0218T        from other parts of Pz?s unit.  From tailings pile, ore material seems to be concentrations of
75Bg0218T        sulfides in certain "beds".
75Bg0218T        See no pieces of quartz monz pluton in tailings, no orange-wx qz-mu schist.
75Bg0218T        Some pieces in tailings are phyllitic detrital rx-app der fr polymictic cgl.
75Bg0218T        Attitude of stope just inside N. Portal is close to fol/sch in strike, but steeper in dip.
75Bg0218T        Possib fault?
75Bg0218T        Pz?s on shoreline a few hund m. n. of Mahoney have conspic regular low eastward and northward
75Bg0218T        dip.  Are gently northward sloping ridges west of mine dip slopes?
75Bg0218T        Strata are intruded by tabular, nonschistose dikes to 2 m thick of fine-grain interm ign rk.
75Bg0218T        There are also some rusty-wx breccia zones to 1 m or so that cross layerg.  These zones consist
75Bg0218T        of clasts of pytc argill and interstit Qtz that also carries sulfide.  Galena and sphal may be
75Bg0218T        present, but not confirmed.  Spl of this material = 218D.;
75Bg0218  ------------------------------------------------------------------------------------------------
#
75Bg0219            STATION = 75ABg0219;
75Bg0219            DATE = 8/10/75;
75Bg0219            QUAD = KC 8-5;
75Bg0219            LAT = 55/26/09;
75Bg0219            LONG = 131/30/29;
75Bg0219            PURPOSE = Geol, geochem;
75Bg0219
75Bg0219   TEXT-TOPIC = Lith;
75Bg0219
75Bg0219   STRUCTURE:
75Bg0219        FOL-SCH = 305/28;
75Bg0219        OTHER-LIN = 360/28 (str);
75Bg0219
75Bg0219SA SAMPLE NUMBER = 75ABg0219A;
75Bg0219SA      UNIT = Pz?s;
75Bg0219SA      SOURCE = OTC, float;
75Bg0219SA      TYPE = Repres;
75Bg0219SA      PURPOSE = Hand spec, spec;
75Bg0219SA      DESCRIPTION = Sed, met;
75Bg0219SA      LITH = Argillite;
75Bg0219SA      FORM = Bedded;
75Bg0219SA      MINS = Py, Musc;
75Bg0219SA      TEXTURE = Phyllitic to slaty;
75Bg0219SA      CONDITION = Fresh;
75Bg0219SA
75Bg0219SA SAMPLE NUMBER = 75ABg0219B;
75Bg0219SA      UNIT = Pz?s;
75Bg0219SA      SOURCE = OTC;
75Bg0219SA      TYPE = Repres;
75Bg0219SA      PURPOSE = Hand spec, spec;
75Bg0219SA      DESCRIPTION = Intr, met;
75Bg0219SA      LITH = Qtz Dio?;
75Bg0219SA      FORM = Sill?;
75Bg0219SA      MINS = Qtz, Plag, Py, Chl, Ep/Clz, Musc;
75Bg0219SA      TEXTURE = Schistose;
75Bg0219SA      CONDITION = Alter, FE-st;
```

```
75Bg0219SA
75Bg0219T  TEXT = Fol/sch = comp layerg
75Bg0219T        Lineated, dark gray pyritic argillite.  In genl, rk is not fissile, but splitting planes are
75Bg0219T        always coated w/ muscovite and thus constitute phyllite or vfg schist.  Py occurs as isolated,
75Bg0219T        ptly oxidized euhedra and as finely dissem grains parallel to comp layerg.  Cubic voids after
75Bg0219T        Py also are common.
75Bg0219T        Argill is intruded? by sill-like layers of orange/rusty wx mica-(mu?)-rich felsic schist.
75Bg0219T        Foliation in "sill" is approx parallel to that in argill.  Cannot meas tkns of "sill".
75Bg0219T        Prob a meter or so.;
75Bg0219  ------------------------------------------------------------------------------------------------
#
75Bg0220            STATION = 75ABg0220;
75Bg0220            DATE = 8/10/75;
75Bg0220            QUAD = KC B-5;
75Bg0220            LAT = 55/26/46;
75Bg0220            LONG = 131/31/01;
75Bg0220            PURPOSE = Geol;
75Bg0220
75Bg0220   TEXT-TOPIC = Lith;
75Bg0220
75Bg0220   STRUCTURE;
75Bg0220        FOL-SCH = 284/14 (dike);
75Bg0220        FAULT-SHEAR = 228/35;
75Bg0220        OTHER = Fol/sch in Pz?s 245/25;
75Bg0220        OTHER = South ctct of dike 285/80;
75Bg0220
75Bg0220SA SAMPLE NUMBER = 75ABg0220A;
75Bg0220SA      UNIT = Pz?s;
75Bg0220SA      SOURCE = OTC;
75Bg0220SA      TYPE = Repres;
75Bg0220SA      PURPOSE = Hand spec;
75Bg0220SA      DESCRIPTION = Sed, met;
75Bg0220SA      LITH = Argillite;
75Bg0220SA      FORM = Bedded;
75Bg0220SA      MINS = Py, graphite;
75Bg0220SA      TEXTURE = Slaty to phyllitic;
75Bg0220SA      CONDITION = Fresh;
75Bg0220SA
75Bg0220T  TEXT = Pz?s N of Sta 219 dips gently to mod northward and eastward--it contains locally conspic Qtz vns
75Bg0220T        to a half meter or so thick and is cut by a few tabular, nonfol dikes to 2 m thick of what I
75Bg0220T        assume to be intermediate ign rk.
75Bg0220T        At Sta 220, reg dip of Pz?s is interrupted by several "i" dikes (one is abt 3 m tk), and by at
75Bg0220T        least one mod N-ward dippg flt.  Flt is marked by thin (< 1 m) gouge zone and by wave-eroded
75Bg0220T        grotto.  Cannot est dir and mag of displmt bec same unit (Pz?s) on both sides.
75Bg0220T        "i" (intermediate) dike is orange-weath mica+flsc schist, ident to "sill" at 219.  These plutons
75Bg0220T        plus subord non-fol, rel mafic dikes increase in abndnce N. of station.
75Bg0220T        Orng-weath sch loc forms up to 20% of unit.  Pz?s is vy graphitic---cont conspic Py euhedra to 3 cm.:
75Bg0220  ------------------------------------------------------------------------------------------------
#
75Bg0221            STATION = 75ABg0221;
75Bg0221            DATE = 8/10/75;
75Bg0221            QUAD = KC B-5;
75Bg0221            LAT = 55/27/04;
75Bg0221            LONG = 131/31/21;
75Bg0221            PURPOSE = Geol;
75Bg0221
75Bg0221   TEXT-TOPIC = Lith, strat, reg geol;
75Bg0221
75Bg0221   STRUCTURE;
75Bg0221        BEDDING = 338/75;
75Bg0221        FOL-SCH = 192/24 (Phyll+Sch);
```

```
75Bg0221        FAULT-SHEAR = 240/20 thrust flt abt 100 m. n. of station;
75Bg0221
75Bg0221SA SAMPLE NUMBER = 75ABg0221A;
75Bg0221SA      UNIT = Pz?s;
75Bg0221SA      SOURCE = OTC;
75Bg0221SA      TYPE = Repres;
75Bg0221SA      PURPOSE = Hand spec, T. S.;
75Bg0221SA      DESCRIPTION = Intr;
75Bg0221SA      LITH = Mafic ign rk;
75Bg0221SA      FORM = Pluton;
75Bg0221SA      TEXTURE = Holoxline;
75Bg0221SA      CONDITION = Fresh;
75Bg0221SA
75Bg0221SA SAMPLE NUMBER = 75ABg0221B;
75Bg0221SA      UNIT = Pz?s;
75Bg0221SA      SOURCE = OTC;
75Bg0221SA      TYPE = Repres;
75Bg0221SA      PURPOSE = Hand spec, T. S.;
75Bg0221SA      DESCRIPTION = Sed, met;
75Bg0221SA      LITH = Garbenschiefer;
75Bg0221SA      FORM = Beds;
75Bg0221SA      MINS = Qtz, Py, Act, Musc;
75Bg0221SA      TEXTURE = Schistose;
75Bg0221SA      CONDITION = Alter, orange-weath;
75Bg0221SA      REMARKS = Same as orange-weath "felsic" dikes and sills??;
75Bg0221SA
75Bg0221SA SAMPLE NUMBER = 75ABg0221C;
75Bg0221SA      UNIT = Pz?s;
75Bg0221SA      SOURCE = OTC;
75Bg0221SA      TYPE = Repres;
75Bg0221SA      PURPOSE = Hand spec;
75Bg0221SA      DESCRIPTION = Intr;
75Bg0221SA      LITH = Felsic aphanite;
75Bg0221SA      FORM = Sill;
75Bg0221SA      MINS = Ep/Clz, Fspr;
75Bg0221SA      CONDITION = Fresh;
75Bg0221SA      REMARKS = Light green weath felsic ("f") aphan dike to 1 m thick intrudes Pzs and is
75Bg0221SA      REMARKS = part of thrust zone about 100 meters N. of station.;
75Bg0221SA
75Bg0221SA SAMPLE NUMBER = 75ABg0221D;
75Bg0221SA      UNIT = Pz?s;
75Bg0221SA      SOURCE = OTC;
75Bg0221SA      TYPE = Repres;
75Bg0221SA      PURPOSE = Hand spec;
75Bg0221SA      DESCRIPTION = Sed, met;
75Bg0221SA      LITH = Pyritic phyllite;
75Bg0221SA      MINS = Py;
75Bg0221SA      CONDITION = Alter, rusty wx;
75Bg0221SA      REMARKS = 3 x 10 centimeter pyritic nodule from Pz?s about 110 meters N. of station.;
75Bg0221SA
75Bg0221T  TEXT = Odd-looking igneous rock, possibly a dike or small plug, app intrudes (ctct not obs) Pz?s cut
75Bg0221T         by pyritic orng-weath schistose flsc sills and dikes--flsc sch also interb w/ pytc phyll.
75Bg0221T         Some flsc sch = coarse "garbenschiefer". The igneous rock weath dk olive & brown and produces
75Bg0221T         a rubbly outcrop abt 20 m in diam. Weath. surfs loc are studded w/ elongate crystals that might
75Bg0221T         be femag or flag up to 2 or 3 cm long. Fresh surf is med bnsh gy and shows brown xls or
75Bg0221T         amygdules? set in an aphan, holoxln, and poss crudely fol sprsly pytc and wkly calcareous
75Bg0221T         matrix. Rk cut by qz+orng-weath Carb vns. Rk vaguely resemb parts of Qnat (Ketchikan)
75Bg0221T         volcanics, but seems too altd/fol? to be so young.
75Bg0221T         Pz?s at this locality is markedly fissile-phyllitic. Some of the orange-weath sch seems to be thinly
75Bg0221T         interbd w/ the pytc phyll--if these are beds, then I strongly suspect that they, the schistose
75Bg0221T         orng-weath dikes and sills, and Pz?s unit are genetically & temporally closely related.
```

```
75Bg0221T        Does the flsc sch signify uPz silicic volcanism?;
75Bg0221 ----------------------------------------------------------------------------------------
#
75Bg0222             STATION = 75ABg0222;
75Bg0222             DATE = 8/10/75;
75Bg0222             QUAD = KC B-5;
75Bg0222             LAT = 55/27/31;
75Bg0222             LONG = 131/31/43;
75Bg0222             PURPOSE = Geol;
75Bg0222
75Bg0222   TEXT-TOPIC = Lith, strat;
75Bg0222
75Bg0222   STRUCTURE;
75Bg0222        BEDDING = 270/50;
75Bg0222        FOL-SCH = 265/20;
75Bg0222
75Bg0222SA SAMPLE NUMBER = 75ABg0222A;
75Bg0222SA      UNIT = Mz?s;
75Bg0222SA      SOURCE = OTC, float;
75Bg0222SA      TYPE = Repres;
75Bg0222SA      PURPOSE = Hand spec;;
75Bg0222SA      DESCRIPTION = Sed, met;
75Bg0222SA      LITH = Graywacke semischist;
75Bg0222SA      FORM = Bedded;
75Bg0222SA      MINS = Qtz, Plag, Bio, Py;
75Bg0222SA      TEXTURE = Phyllitic, fragmental, concretionary;
75Bg0222SA      CONDITION = Fresh;
75Bg0222SA      REMARKS = Several specimens to illustr variety of lithols.;
75Bg0222SA
75Bg0222SA SAMPLE NUMBER = 75ABg0222B;
75Bg0222SA      UNIT = Mz?s;
75Bg0222SA      SOURCE = OTC;
75Bg0222SA      TYPE = Repres;
75Bg0222SA      PURPOSE = Hand spec;
75Bg0222SA      DESCRIPTION = Intr;
75Bg0222SA      FORM = Dikes;
75Bg0222SA      CONDITION = Fresh;
75Bg0222SA      REMARKS = 3 specimens to illustr variety of dikes.;
75Bg0222SA
75Bg0222T  TEXT = Light-med gray wx.  Gwk semischist, phyllitic grit, and dk gy slaty to phytc argill.
75Bg0222T        Rx are pytc, but less conspic, smllr xls than in argill to s.
75Bg0222T        Unit struct olies pytc argill, app w/o obvious struct discordance, and is lithol different from it.
75Bg0222T        Don't know yet whether it is a mapping unit or what its strat rel'n to olyg argill is.
75Bg0222T        Some of the gwk semisch is pebbly and contains brown/olive weath +- Calc siltstn/ssts concretions
75Bg0222T        to 20 cm diam.  The pebbles range from ang to rndd, are up to 15-20 cm in max dimens, and cons
75Bg0222T        mostly of dk gy argillite.  Some of the concretions vaguely resemb flattened "goofballs"--
75Bg0222T        others locally coalesce into strings.
75Bg0222T        Unit is intruded by at least 3 kinds of dikes.  Rnge from intermed Fspr porp to flsc aph.:
75Bg0222 ----------------------------------------------------------------------------------------
#
75Bg0223             STATION = 75ABg0223;
75Bg0223             DATE = 8/10/75;
75Bg0223             QUAD = KC B-5;
75Bg0223             LAT = 55/27/48;
75Bg0223             LONG = 131/31/41;
75Bg0223             PURPOSE = Geol;
75Bg0223
75Bg0223   TEXT-TOPIC = Lith, strat;
75Bg0223
75Bg0223   STRUCTURE;
75Bg0223        BEDDING = 290/10-25;
```

```
3823.    75Bg0223
3824.    75Bg0223SA SAMPLE NUMBER = 75ABg0223A;
3825.    75Bg0223SA      UNIT = Mz?s;
3826.    75Bg0223SA      SOURCE = Float;
3827.    75Bg0223SA      TYPE = Repres;
3828.    75Bg0223SA      PURPOSE = Hand spec;
3829.    75Bg0223SA      DESCRIPTION = Sed, met;
3830.    75Bg0223SA      LITH = Meta-turbidite;
3831.    75Bg0223SA      FORM = Bedded;
3832.    75Bg0223SA
3833.    75Bg0223T  TEXT = Thinly (< 1 meter) interbedded phytc sandstone and argillite.  Pyritic sandstone weath orng-brown--
3834.    75Bg0223T        argill is black concretionary.  Concretions, distinctive brown otcp hues are distinctive.
3835.    75Bg0223T        Rx are turbiditic.  Is this a Mesozoic unit?  If so, is it Tr or KJ?  Loc unit is simlr
3836.    75Bg0223T        (struct + lith) to uTr at Driest Pt (Annette Isl).
3837.    75Bg0223T        Argill-clast grit, pebbly graywacke---rip-up layers---grading (tops indeterminate).;
3838.    75Bg0223  ------------------------------------------------------------------------------------------------
3839.    #
3840.    75Bg0224            STATION = 75ABg0224;
3841.    75Bg0224            DATE = 8/10/75;
3842.    75Bg0224            QUAD = KC B-5;
3843.    75Bg0224            LAT = 55/28/25;
3844.    75Bg0224            LONG = 131/32/11;
3845.    75Bg0224            PURPOSE = Geol;
3846.    75Bg0224
3847.    75Bg0224   TEXT-TOPIC = Lith, strat;
3848.    75Bg0224
3849.    75Bg0224   STRUCTURE;
3850.    75Bg0224        FOL-SCH = 285/32;
3851.    75Bg0224
3852.    75Bg0224T  TEXT = Thinly interbedded phytc sltstn and argill and thick beds of phytc graywacke.  These beds recall
3853.    75Bg0224T        the Buchia beds of W. Etolin Island.
3854.    75Bg0224T        Rx cont concretions and disseminated Py xls to a mm or so in size.
3855.    75Bg0224T        The bedded rocks are intruded by numerous commnly feldspar porphyritic ("i"-type) dikes.
3856.    75Bg0224T        No sample.;
3857.    75Bg0224  ------------------------------------------------------------------------------------------------
3858.    #
3859.    75Bg0225            STATION = 75ABg0225;
3860.    75Bg0225            DATE = 8/10/75;
3861.    75Bg0225            QUAD = KC B-5;
3862.    75Bg0225            LAT = 55/28/33;
3863.    75Bg0225            LONG = 131/31/48;
3864.    75Bg0225            PURPOSE = Geol;
3865.    75Bg0225
3866.    75Bg0225   TEXT-TOPIC = Lith, strat;
3867.    75Bg0225
3868.    75Bg0225   STRUCTURE;
3869.    75Bg0225        FOL-SCH = 268/35;
3870.    75Bg0225
3871.    75Bg0225SA SAMPLE NUMBER = 75ABg0225A;
3872.    75Bg0225SA      UNIT = Pz?v;
3873.    75Bg0225SA      SOURCE = OTC;
3874.    75Bg0225SA      TYPE = Repres;
3875.    75Bg0225SA      PURPOSE = Hand spec, T. S.;
3876.    75Bg0225SA      DESCRIPTION = Extr, sed, met;
3877.    75Bg0225SA      LITH = Metatuff;
3878.    75Bg0225SA      FORM = Bedded;
3879.    75Bg0225SA      MINS = Plag, Hbl, Bio;
3880.    75Bg0225SA      TEXTURE = Relict fragmental;
3881.    75Bg0225SA      CONDITION = Fresh;
3882.    75Bg0225SA
3883.    75Bg0225T  TEXT = Phytc turb--struct olain by gnsh-gray phyllitic grit, pebbly gwk, metatuff and agglomerate.
```

```
75Bg0225T        Agg contains frags of Hbl porp, and light ylsh gn weath aphanite that I believe are fragments of
75Bg0225T        once-glassy mafic volcanic rock.  The fragments genly are angular but some are rounded---
75Bg0225T        avg a few cm in max dimens.  Fragmental rk grades thru pebbly grit and "gwk" to fine grained
75Bg0225T        rk that might have been lava.  I believe rk composition is andesitic.
75Bg0225T        Turb here is quite fissile-phyllitic, which may be due to nearby faults and (or) intrsed dikes.
75Bg0225T        Agglom struct (strat?) olias turb.  I wonder what surprises await me further up section?
75Bg0225T        Condon's compilation shows uPz? limestone about 1/4 mile to north!
75Bg0225T        If agg struct ulias uPz lst, prob should be mapped as Pz?v, w/ fault sep it from Mz?s.;
75Bg0225  ----------------------------------------------------------------------------------------------
#
75Bg0226             STATION = 75ABg0226;
75Bg0226             DATE = 8/10/75;
75Bg0226             QUAD = KC B-5;
75Bg0226             LAT = 55/28/48;
75Bg0226             LONG = 131/31/47;
75Bg0226             PURPOSE = Geol;
75Bg0226
75Bg0226   TEXT-TOPIC = Lith;
75Bg0226
75Bg0226   STRUCTURE;
75Bg0226        FOL-SCH = 315/50;
75Bg0226
75Bg0226SA SAMPLE NUMBER = 75ABg0226A;
75Bg0226SA      UNIT = Pz?;
75Bg0226SA      SOURCE = OTC;
75Bg0226SA      TYPE = Repres;
75Bg0226SA      PURPOSE = Hand spec;
75Bg0226SA      DESCRIPTION = Intr, met;
75Bg0226SA      LITH = Qtz Dio;
75Bg0226SA      FORM = Pluton;
75Bg0226SA      MINS = Qtz, Plag, Garn;
75Bg0226SA      TEXTURE = Microgranular;
75Bg0226SA      CONDITION = Fresh;
75Bg0226SA
75Bg0226T  TEXT = Garnet-bearing fn gn Qtz Dio intrudes greenish-gray phyllite evid der fr gritty graywacke or
75Bg0226T        tuffac sst. and minor argill.
75Bg0226T        Phyll also is intruded by "i" or "m" dikes.;
75Bg0226  ----------------------------------------------------------------------------------------------
#
75Bg0227             STATION = 75ABg0227;
75Bg0227             DATE = 8/10/75;
75Bg0227             QUAD = KC B-5;
75Bg0227             LAT = 55/28/58;
75Bg0227             LONG = 131/31/40;
75Bg0227             PURPOSE = Geol;
75Bg0227
75Bg0227   TEXT-TOPIC = Lith, struct;
75Bg0227
75Bg0227   STRUCTURE;
75Bg0227        FOL-SCH = 292/28;
75Bg0227        OTHER-LIN = 045/15 str;
75Bg0227        OTHER = Striae 360/5;
75Bg0227
75Bg0227SA SAMPLE NUMBER = 75ABg0227A;
75Bg0227SA      UNIT = Pz?;
75Bg0227SA      SOURCE = OTC;
75Bg0227SA      TYPE = Repres;
75Bg0227SA      PURPOSE = Hand spec;
75Bg0227SA      DESCRIPTION = Intr, met;
75Bg0227SA      LITH = Felsic porphyroaphanite;
75Bg0227SA      FORM = Sill;
```

```
75Bg0227SA      MINS = Qtz, Plag, Musc;
75Bg0227SA      TEXTURE = Foliated;
75Bg0227SA      CONDITION = Fresh;
75Bg0227SA
75Bg0227T  TEXT = Phyllitic and semischistose graywacke and gritty to pebbly graywacke cont either lensas or
75Bg0227T        disrupted beds of dark gray phyllitic mudstone.  "Bedding" not parallel to fol--crossing
75Bg0227T        lineations.  The only fragments I can identify in the grit are dark gray phytc mdstn.  There are
75Bg0227T        also small masses of brn weath carbonate, a little dissem Py, and a few Qz-carb vns (some para,
75Bg0227T        some cross foln).  Only met miml I can ident is MU.  See no lst or mble, not even in float.
75Bg0227T        Excpt for a meter or so thick sill-like layer of foliated felsic porphyromaphanite, unit is pretty
75Bg0227T        nondescript and I don't know where in "section" to assign it.;
75Bg0227  ----------------------------------------------------------------------------------------------------
#
75Bg0228            STATION = 75ABg0228;
75Bg0228            DATE = 8/10/75;
75Bg0228            QUAD = KC B-5;
75Bg0228            LAT = 55/29/16;
75Bg0228            LONG = 131/31/31;
75Bg0228            PURPOSE = Geol;
75Bg0228
75Bg0228   TEXT-TOPIC = Lith, strat, foss;
75Bg0228
75Bg0228   STRUCTURE;
75Bg0228        FOL-SCH = 290/35;
75Bg0228
75Bg0228SA SAMPLE NUMBER = 75ABg0228A;
75Bg0228SA      UNIT = Pzl;
75Bg0228SA      SOURCE = Float;
75Bg0228SA      TYPE = Repres;
75Bg0228SA      PURPOSE = Hand spec, foss deter;
75Bg0228SA      DESCRIPTION = Sed, met;
75Bg0228SA      LITH = Marble;
75Bg0228SA      FORM = Bedded;
75Bg0228SA      MINS = Carb;
75Bg0228SA      TEXTURE = Microgranular, foliated;
75Bg0228SA      CONDITION = Fresh;
75Bg0228SA
75Bg0228T  TEXT = Thinly laminated blue-gray/white and massive marble containing sparse crinoid stems and disks.
75Bg0228T        Consid deg of rexln (rk is fine gn sugary marble), the fossils are surprisingly well preserved.
75Bg0228T        The marble is struct ulain by silvery fine-grain Musc schist that prob is same unit as at 227.
75Bg0228T        Mbe crops out almost continuously to head of small cove just N. of station.;
75Bg0228T        REVISIT STATION AT LOW TIDE.
75Bg0228T        Crinoidal marble struct overlies phyll (dark gray, silvery gray), apparently w/o sig struct
75Bg0228T        discordance.  However, there prob is some fltg along mbe-phyl ctct, based on small faults
75Bg0228T        parallel to the fol in mbe, nr "base".  Foliation in both units parallel.
75Bg0228T        Both phyl and mb are intruded by mafic to ultramafic (gabbro & hbdte), including plutonic breccia,
75Bg0228T        as at 75Bg230.  More I think about these rocks, more I suspect they are related to some
75Bg0228T        phase of "Coast Range Event".;
75Bg0228  ----------------------------------------------------------------------------------------------------
#
75Bg0229            STATION = 75ABg0229;
75Bg0229            DATE = 8/10/75;
75Bg0229            QUAD = KC B-5;
75Bg0229            LAT = 55/29/18;
75Bg0229            LONG = 131/30/17;
75Bg0229            PURPOSE = Geol, geochem;
75Bg0229
75Bg0229   TEXT-TOPIC = Lith;
75Bg0229
75Bg0229   STRUCTURE;
75Bg0229        FOL-SCH = 282/60;
```

```
4006.   75Bg0229        AXIAL-PLANE = 020/v;
4007.   75Bg0229        FOLD-AXIS = 70/20-40;
4008.   75Bg0229        OTHER-LIN = 50/55 (str);
4009.   75Bg0229
4010.   75Bg0229SA SAMPLE NUMBER = 75ABg0229A;
4011.   75Bg0229SA      UNIT = Pz?s;
4012.   75Bg0229SA      SOURCE = OTC;
4013.   75Bg0229SA      TYPE = Repres;
4014.   75Bg0229SA      PURPOSE = Hand spec, spec;
4015.   75Bg0229SA      DESCRIPTION = Sed, met;
4016.   75Bg0229SA      LITH = Phyllite + qtz;
4017.   75Bg0229SA      MINS = Qtz, Py, Musc;
4018.   75Bg0229SA      CONDITION = Alter, rusty wx;
4019.   75Bg0229SA      REMARKS = 5 cm Qtz vein + adjacent country rock.;
4020.   75Bg0229SA
4021.   75Bg0229T  TEXT = BULL ISLAND
4022.   75Bg0229T        Rsty-wx dk gy and silvery green phyll cont fairly abndnt Qtz vns, pods, etc.--most are para foln
4023.   75Bg0229T        and commonly track with fold hinges.;
4024.   75Bg0229  ------------------------------------------------------------------------------------------------------
4025.   #
4026.   75Bg0230            STATION = 75ABg0230;
4027.   75Bg0230            DATE = 8/11/75;
4028.   75Bg0230            QUAD = KC B-5;
4029.   75Bg0230            LAT = 55/28/26;
4030.   75Bg0230            LONG = 131/31/39;
4031.   75Bg0230            PURPOSE = Geol;
4032.   75Bg0230
4033.   75Bg0230   TEXT-TOPIC = Lith, struct, strat;
4034.   75Bg0230
4036.   75Bg0230   SKETCH = Island at mouth of White R.;
4037.   75Bg0230
4038.   75Bg0230SA SAMPLE NUMBER = 75ABg0230A;
4039.   75Bg0230SA      UNIT = ?;
4040.   75Bg0230SA      SOURCE = OTC;
4041.   75Bg0230SA      TYPE = Repres;
4042.   75Bg0230SA      PURPOSE = Hand spec;
4043.   75Bg0230SA      DESCRIPTION = Intr;
4044.   75Bg0230SA      LITH = Gabbro and hbdite;
4045.   75Bg0230SA      FORM = Dikes?;
4046.   75Bg0230SA      MINS = Plag, Hbl, Bio;
4047.   75Bg0230SA      CONDITION = Fresh;
4048.   75Bg0230SA      REMARKS = Spls coll from flt zone between hornblendite (H.W.) and metaseds (F.W.);
4049.   75Bg0230SA
4050.   75Bg0230SA SAMPLE NUMBER = 75ABg0230B;
4051.   75Bg0230SA      UNIT = ?;
4052.   75Bg0230SA      SOURCE = OTC;
4053.   75Bg0230SA      TYPE = Repres;
4054.   75Bg0230SA      PURPOSE = Hand spec;
4055.   75Bg0230SA      DESCRIPTION = Intr;
4056.   75Bg0230SA      LITH = Gabbro and diabase;
4057.   75Bg0230SA      FORM = Dikes;
4058.   75Bg0230SA      MINS = Plag, Hbl, Bio;
4059.   75Bg0230SA      CONDITION = Fresh;
4060.   75Bg0230SA      REMARKS = Dikes are up to 25 cm thick--intrude phyllite.;
4061.   75Bg0230SA
4062.   75Bg0230T  TEXT = Sketch of largest island at mouth of White River.
4063.   75Bg0230T        Phyll & semisch evid der from so called Mz?s (turb, gritty to pebbly gwk w/ concretions) is
4064.   75Bg0230T        intruded, thermally met, and in flt ctct w/, mafic (gabbro) to ultramafic (hbdte) plutonic rocks.
4065.   75Bg0230T        Don't yet know sig of these plutonic rk.  Would be nice to interp them as "basement" except that
4066.   75Bg0230T        they almost cert intrude and take the bedded rx.  On the other hand, if the dikes are not related
4067.   75Bg0230T        to M-UM rx, they could be bsmt, perhaps a window or outlier.
```

```
4068.   75Bg0230T        On the other hand, these plutonic rx may be assoc w/ CRB or w/ Q basaltic volcanism.;
4069.   75Bg0230  ----------------------------------------------------------------------------------------
4070.   #
4071.   75Bg0231            STATION = 75ABg0231;
4072.   75Bg0231            DATE = 8/11/75;
4073.   75Bg0231            QUAD = KC B-5;
4074.   75Bg0231            LAT = 55/29/31;
4075.   75Bg0231            LONG = 131/31/24;
4076.   75Bg0231            PURPOSE = Geol;
4077.   75Bg0231
4078.   75Bg0231   TEXT-TOPIC = Lith, strat;
4079.   75Bg0231
4080.   75Bg0231   STRUCTURE;
4081.   75Bg0231        FOL-SCH = 320/45;
4082.   75Bg0231        OTHER-LIN = 046/35 (str);
4083.   75Bg0231        OTHER = STR 030/30;
4084.   75Bg0231
4085.   75Bg0231SA SAMPLE NUMBER = 75ABg0231A;
4086.   75Bg0231SA      UNIT = ?;
4087.   75Bg0231SA      SOURCE = Float;
4088.   75Bg0231SA      TYPE = Repres;
4089.   75Bg0231SA      PURPOSE = Hand spec;
4090.   75Bg0231SA      DESCRIPTION = Sed, met;
4091.   75Bg0231SA      LITH = Phyllitic grit;
4092.   75Bg0231SA      CONDITION = Fresh;
4093.   75Bg0231SA
4094.   75Bg0231T  TEXT = Phyllite and semischist der fr mdstn (dk gy), sltstn (brnsh gy), graywacke, pebbly gwk, and grit
4095.   75Bg0231T        (light gray).  The gwk contains sparse dk brown Calc sst/sltst concretions.
4096.   75Bg0231T        Felict clasts are mainly vars of phyllite--see no lst clasts.
4097.   75Bg0231T        The rx are pyritic, but only in certain beds are Py xls as much as a cm in size.
4098.   75Bg0231T        Toward marble ctct (which is not xposed), unit is somewhat more pyritic turbidite, and see few,
4099.   75Bg0231T        if any concretions.  See no reason, however, not to map all as one unit.
4100.   75Bg0231T        Phyll intruded by a few dikes to 1 meter thick of light brnsh gy weath microgranular Qtz Dio.
4101.   75Bg0231T        Sparse Qtz vns to a meter thick.
4102.   75Bg0231T        The concretion-bearg beds certainly look like those S. of White River, which I called Mz?s.;
4103.   75Bg0231  ----------------------------------------------------------------------------------------
4104.   #
4105.   75Bg0232            STATION = 75ABg0232;
4106.   75Bg0232            DATE = 8/11/75;
4107.   75Bg0232            QUAD = KC C-5;
4108.   75Bg0232            LAT = 55/30/08;
4109.   75Bg0232            LONG = 131/30/49;
4110.   75Bg0232            PURPOSE = Geol;
4111.   75Bg0232
4112.   75Bg0232   TEXT-TOPIC = Lith;
4113.   75Bg0232
4114.   75Bg0232   STRUCTURE;
4115.   75Bg0232        FOL-SCH = 285/60;
4116.   75Bg0232        JOINT = 104/75;
4117.   75Bg0232        OTHER-LIN = 046/45 (Bound);
4118.   75Bg0232
4119.   75Bg0232SA SAMPLE NUMBER = 75ABg0232A;
4120.   75Bg0232SA      UNIT = Pz?s;
4121.   75Bg0232SA      SOURCE = OTC;
4122.   75Bg0232SA      TYPE = Repres;
4123.   75Bg0232SA      PURPOSE = Hand spec;
4124.   75Bg0232SA      DESCRIPTION = Sed, met;
4125.   75Bg0232SA      LITH = Hornfels;
4126.   75Bg0232SA      FORM = Bedded;
4127.   75Bg0232SA      MINS = Bio, Act;
4128.   75Bg0232SA      TEXTURE = Phyllitic;
```

```
4129.     75Bg0232SA      CONDITION = Fresh;
4130.     75Bg0232SA      REMARKS = Act not confirmed in spl.;
4131.     75Bg0232SA
4132.     75Bg0232T  TEXT = "Hardened" argillite, phyllite, gwk semischist.  Numerous mafic ("m") dikes to a half meter or
4133.     75Bg0232T        so thick.  Bedded rx are pyritic, w/ some xls (or voids) to 1 cm.  Some layers cont tiny Bio xls
4134.     75Bg0232T        alined parallel to the boudins.  "Hardening" is irregular:  Bks range from soft fissile phyllite
4135.     75Bg0232T        to "ringing" gneissic hornfels.
4136.     75Bg0232T        Comp layers commonly are boudinaged, wrinkled.  A few rusty-wx Qtz vns--some layers in bld rx
4137.     75Bg0232T        also are rusty wx.
4138.     75Bg0232T        Protolith prob thinly interbed sltstn, mdstn, gwk--some pebbly gwk or grit.  See nothing to distinq
4139.     75Bg0232T        this unit from metased rx intercal w/, and s. of, crinoidal marble.;
4140.     75Bg0232  ----------------------------------------------------------------------------------------------------
4141.     *
4142.     75Bg0233             STATION = 75ABg0233;
4143.     75Bg0233             DATE = 8/11/75;
4144.     75Bg0233             QUAD = KC C-5;
4145.     75Bg0233             LAT = 55/30/24;
4146.     75Bg0233             LONG = 131/30/51;
4147.     75Bg0233
4148.     75Bg0233   STRUCTURE;
4149.     75Bg0233        FOL-SCH = 096/65;
4150.     75Bg0233
4151.     75Bg0233SA SAMPLE NUMBER = 75ABg0233A;
4152.     75Bg0233SA      UNIT = Gabbro;
4153.     75Bg0233SA      SOURCE = OTC;
4154.     75Bg0233SA      TYPE = Repres;
4155.     75Bg0233SA      PURPOSE = Hand spec;
4156.     75Bg0233SA      DESCRIPTION = Intr, met;
4157.     75Bg0233SA      LITH = Hornblende gabbro;
4158.     75Bg0233SA      FORM = Pluton;
4159.     75Bg0233SA      MINS = Plag, Act, Chl, Ep/Clz;
4160.     75Bg0233SA      TEXTURE = Foliated;
4161.     75Bg0233SA      CONDITION = Fresh;
4162.     75Bg0233SA
4163.     75Bg0233T  TEXT = Wkly fol to gneissic Hbl gabbro and minor hornblendite intrude +- hardened metaseds.
4164.     75Bg0233T        A few Qtz vns to 1 meter thick.;
4165.     75Bg0233  ----------------------------------------------------------------------------------------------------
4166.     *
4167.     75Bg0234             STATION = 75ABg0234;
4168.     75Bg0234             DATE = 8/11/75;
4169.     75Bg0234             QUAD = KC C-5;
4170.     75Bg0234             LAT = 55/30/29;
4171.     75Bg0234             LONG = 131/30/35;
4171.1    75Bg0234        SKETCH = (By Koch) of "flame structure" in metaseds;
4172.     75Bg0234             PURPOSE = Geol;
4173.     75Bg0234
4174.     75Bg0234   TEXT-TOPIC = Lith, strat;
4175.     75Bg0234
4176.     75Bg0234   STRUCTURE;
4177.     75Bg0234        BEDDING = 270/60;
4178.     75Bg0234        FOL-SCH = 270/60;
4179.     75Bg0234
4180.     75Bg0234SA SAMPLE NUMBER = 75ABg0234A;
4181.     75Bg0234SA      UNIT = Mz?s;
4182.     75Bg0234SA      SOURCE = OTC, Float;
4183.     75Bg0234SA      TYPE = Repres;
4184.     75Bg0234SA      PURPOSE = Hand spec, I. S.;
4185.     75Bg0234SA      DESCRIPTION = Sed, met;
4186.     75Bg0234SA      LITH = Fexld turbidite;
4187.     75Bg0234SA      FORM = Bedded;
4188.     75Bg0234SA      MINS = Bio, andalusite?;
```

```
4189.   75Bg0234SA      TEXTURE = Schistose, microgranular;
4190.   75Bg0234SA      CONDITION = Fresh;
4191.   75Bg0234SA      REMARKS = And not confirmed;
4192.   75Bg0234SA
4193.   75Bg0234T  TEXT = Recrystallized (hardened, but not fissile) dark brown wx sedimentary rocks injected by, and poss
4194.   75Bg0234T        partly mobilized into, mafic igneous rock.  Locally well developed angular agmatite, other types
4195.   75Bg0234T        of migmatite.
4196.   75Bg0234T        Despite rxln, it is easy to determine that the protolith was turbidite and that some of
4197.   75Bg0234T        the beds contained concretions.  Some of the beds are more massive gwk than any I have seen to the
4198.   75Bg0234T        south.  Sure look like Buchia Beds!
4199.   75Bg0234T        Return 8/12 w/ Koch, Carten.  They have mapped this unit as "HS" (hardened seds) in Sea Cove
4200.   75Bg0234T        area, but have called concretions "boudins".  Unit struct underlies Pzl N. of Sea Cove.
4201.   75Bg0234T        When we reconned those rx, we tent assig them to Grav Isl Pm.;
4202.   75Bg0234  ----------------------------------------------------------------------------------------------------
4203.   #
4204.   75Bg0235            STATION = 75ABg0235;
4205.   75Bg0235            DATE = 8/11/75;
4206.   75Bg0235            QUAD = KC C-5;
4207.   75Bg0235            LAT = 55/30/33;
4208.   75Bg0235            LONG = 131/29/27;
4209.   75Bg0235            PURPOSE = Geol;
4210.   75Bg0235
4211.   75Bg0235   TEXT-TOPIC = Lith;
4212.   75Bg0235
4213.   75Bg0235   STRUCTURE;
4214.   75Bg0235        FOL-SCH = 280/30;
4215.   75Bg0235        OTHER = Fol in Dio 315/25;
4216.   75Bg0235
4217.   75Bg0235SA SAMPLE NUMBER = 75ABg0235A;
4218.   75Bg0235SA      UNIT = Mz?s;
4219.   75Bg0235SA      SOURCE = Float;
4220.   75Bg0235SA      TYPE = Repres;
4221.   75Bg0235SA      PURPOSE = Hand spec;
4222.   75Bg0235SA      DESCRIPTION = Sed, met;
4223.   75Bg0235SA      LITH = Hornfels;
4224.   75Bg0235SA      FORM = Bedded;
4225.   75Bg0235SA      CONDITION = Alter, rusty-wx;
4226.   75Bg0235SA
4227.   75Bg0235T  TEXT = Hardened turbidite w/ Calc concretns/lenses intruded by gneissic Hbl diorite, some of which is
4228.   75Bg0235T        feldspar-porphyritic.  I think the bdd rx are more abndnt than the intrsv rx.;
4229.   75Bg0235  ----------------------------------------------------------------------------------------------------
4230.   #
4231.   75Bg0236            STATION = 75ABg0236;
4232.   75Bg0236            DATE = 8/11/75;
4233.   75Bg0236            QUAD = KC C-5;
4234.   75Bg0236            LAT = 55/30/22;
4235.   75Bg0236            LONG = 131/29/10;
4236.   75Bg0236            PURPOSE = Geol;
4237.   75Bg0236
4238.   75Bg0236   TEXT-TOPIC = Lith;
4239.   75Bg0236
4240.   75Bg0236   STRUCTURE;
4241.   75Bg0236        FOL-SCH = 263/55;
4242.   75Bg0236        OTHER-LIN = 055/35 (B/C);
4243.   75Bg0236        OTHER = STR,M 333/55;
4244.   75Bg0236
4245.   75Bg0236SA SAMPLE NUMBER = 75ABg0236A;
4246.   75Bg0236SA      UNIT = ?;
4247.   75Bg0236SA      SOURCE = Float;
4248.   75Bg0236SA      TYPE = Repres;
4249.   75Bg0236SA      PURPOSE = Hand spec;
```

```
4250.    75Bg0236SA      DESCRIPTION = Sed, met;
4251.    75Bg0236SA      LITH = Metapelite;
4252.    75Bg0236SA      FORM = Bedded;
4253.    75Bg0236SA      MINS = Act, Musc;
4254.    75Bg0236SA      TEXTURE = Schistose;
4255.    75Bg0236SA      CONDITION = Fresh;
4256.    75Bg0236SA
4257.    75Bg0236T  TEXT = Phyllitic-fissile metapelite (=turbidite)--a few relict Calc concretions.
4258.    75Bg0236T        Some layers = Mu-Act schist ("microgarbenschiefer").;
4259.    75Bg0236  ----------------------------------------------------------------------------------
4260.    *
4261.    75Bg0237             STATION = 75ABg0237;
4262.    75Bg0237             DATE = 8/11/75;
4263.    75Bg0237             QUAD = KC C-5;
4264.    75Bg0237             LAT = 55/30/46;
4265.    75Bg0237             LONG = 131/28/01;
4266.    75Bg0237             PURPOSE = Geol;
4267.    75Bg0237
4268.    75Bg0237   TEXT-TOPIC = Lith;
4269.    75Bg0237
4270.    75Bg0237   STRUCTURE;
4271.    75Bg0237        FOL-SCH = 018/70;
4272.    75Bg0237        JOINT = 130/80;
4273.    75Bg0237
4274.    75Bg0237T  TEXT = Fissile phyllite derived from interbedded siltstone, mudstone, graywacke (turbidite)--
4275.    75Bg0237T        a few relict concretions.  Some of the gwk is gritty.
4276.    75Bg0237T        No sample.
4277.    75Bg0237T        Topog NW of station follows foliation closely.;
4278.    75Bg0237  ----------------------------------------------------------------------------------
4279.    *
4280.    75Bg0238             STATION = 75ABg0238;
4281.    75Bg0238             DATE = 8/11/75;
4282.    75Bg0238             QUAD = KC C-5
4283.    75Bg0238             LAT = 55/31/07;
4284.    75Bg0238             LONG = 131/27/15;
4285.    75Bg0238             PURPOSE = Geol;
4286.    75Bg0238
4287.    75Bg0238   TEXT-TOPIC = Lith;
4288.    75Bg0238
4289.    75Bg0238   STRUCTURE;
4290.    75Bg0238        FOL-SCH = 280/30;
4291.    75Bg0238
4292.    75Bg0238SA SAMPLE NUMBER = 75ABg0238A;
4292.1   75Bg0238SA      UNIT = HPS;
4293.    75Bg0238SA      SOURCE = OTC;
4294.    75Bg0238SA      TYPE = Repres;
4295.    75Bg0238SA      PURPOSE = Hand spec;
4296.    75Bg0238SA      DESCRIPTION = Sed, met;
4297.    75Bg0238SA      LITH = Hornfels;
4298.    75Bg0238SA      FORM = Bedded;
4299.    75Bg0238SA      MINS = Qtz, Bio, Garn;
4300.    75Bg0238SA      TEXTURE = Microgranular;
4301.    75Bg0238SA      CONDITION = Fresh;
4302.    75Bg0238SA      REMARKS = Garn not confirmed in specimen.;
4303.    75Bg0238SA
4304.    75Bg0238T  TEXT = "Hardened" garnet-bearing argillite, cut by lampro & dio dikes.;
4305.    75Bg0238  ----------------------------------------------------------------------------------
4306.    *
4307.    75Bg0239             STATION = 75ABg0239;
4308.    75Bg0239             DATE = 8/12/75;
4309.    75Bg0239             QUAD = KC C-5;
```

```
75Bg0239              LAT = 55/30/23;
75Bg0239              LONG = 131/27/57;
75Bg0239              PURPOSE = Geol;
75Bg0239
75Bg0239   TEXT-TOPIC = Lith;
75Bg0239
75Bg0239   STRUCTURE;
75Bg0239        FOL-SCH = 185/48;
75Bg0239        OTHER-LIN = 036/25 B/C;
75Bg0239        OTHER = Contact 185/48;
75Bg0239
75Bg0239SA SAMPLE NUMBER = 75ABg0239A;
75Bg0239SA      UNIT = HPS;
75Bg0239SA      SOURCE = OTC;
75Bg0239SA      TYPE = Repres;
75Bg0239SA      PURPOSE = Hand spec;
75Bg0239SA      DESCRIPTION = Sed, met;
75Bg0239SA      LITH = Pyritic argillite;
75Bg0239SA      FORM = Bedded;
75Bg0239SA      MINS = Py, Graphite;
75Bg0239SA      CONDITION = Alter, rusty-wx;
75Bg0239SA
75Bg0239SA SAMPLE NUMBER = 75ABg0239B;
75Bg0239SA      UNIT = Qtz Dio;
75Bg0239SA      SOURCE = Float;
75Bg0239SA      TYPE = Repres;
75Bg0239SA      PURPOSE = Hand spec;
75Bg0239SA      DESCRIPTION = Intr;
75Bg0239SA      LITH = Microgran Qtz Dio;
75Bg0239SA      FORM = Pluton;
75Bg0239SA      MINS = Qtz, Plag, Py;
75Bg0239SA      TEXTURE = Microgranular;
75Bg0239SA      CONDITION = Fresh;
75Bg0239SA
75Bg0239T  TEXT = Contact betw rusty-wx pytc, carbonac argill and light ylsh brn weath microgranular Qtz Dio.
75Bg0239T         The argill is thin--crops out intermittently--alternates w/ pluton, which crops out mainly to east.
75Bg0239T         Argill is "hardened" (HPS)--see no coarsening of grain sz adj plut ctct.  Plut loc is gneissic
75Bg0239T         and feldspar-porphyritic.  Ctct is struct concordant w/ fol/sch in argill.;
75Bg0239  ----------------------------------------------------------------------------------------------
#
75Bg0240              STATION = 75ABg0240;
75Bg0240              DATE = 8/12/75;
75Bg0240              QUAD = KC C-5;
75Bg0240              LAT = 55/30/18;
75Bg0240              LONG = 131/28/19;
75Bg0240              PURPOSE = Geol, geochem;
75Bg0240
75Bg0240   TEXT-TOPIC = Lith;
75Bg0240
75Bg0240   STRUCTURE;
75Bg0240        OTHER-LIN = 040/10 (alined inclns);
75Bg0240
75Bg0240SA SAMPLE NUMBER = 75ABg0240A;
75Bg0240SA      UNIT = HPS;
75Bg0240SA      SOURCE = OTC;
75Bg0240SA      TYPE = Repres;
75Bg0240SA      PURPOSE = Hand spec, T. S., Spec;
75Bg0240SA      DESCRIPTION = Intr;
75Bg0240SA      LITH = Flsc semisch;
75Bg0240SA      FORM = Sil or bed;
75Bg0240SA      MINS = Qtz, Plag, Py, Musc;
```

```
75Bg0240SA      TEXTURE = Wkly fol;
75Bg0240SA      CONDITION = Fresh;
75Bg0240SA
75Bg0240T  TEXT = "Peculiar" lighy brownish-gray weath wkly fol pyritic-Qz-Pc-Mu rock cont alined "inclusions" of
75Bg0240T        darker-hued pyritic rock.  The inclusions are elongate, range from a few cm to 15 or 20 cm long.
75Bg0240T        Unit forms a zone about 20 m wide parallel to the fol/sch in adjoing rusty-wx pyritic argill
75Bg0240T        country rk.  This rk could be a contam phase of Qtz Dio plut or some sort of welded tuff,
75Bg0240T        interb, or ptly intrsv into, the argill.  I suspect it is related to some of the tan/orange-
75Bg0240T        wx flsc sch that occurs elsewhere in argill.;
75Bg0240  ------------------------------------------------------------------------------------------------
#
75Bg0241             STATION = 75ABg0241;
75Bg0241             DATE = 8/12/75;
75Bg0241             QUAD = KC C-5;
75Bg0241             LAT = 55/30/05;
75Bg0241             LONG = 131/28/38;
75Bg0241             PURPOSE = Geol;
75Bg0241
75Bg0241   TEXT-TOPIC = Lith;
75Bg0241
75Bg0241   STRUCTURE:
75Bg0241        JOINT = 342/v;
75Bg0241
75Bg0241SA SAMPLE NUMBER = 75ABg0241A;
75Bg0241SA      UNIT = GDio;
75Bg0241SA      SOURCE = OTC;
75Bg0241SA      TYPE = Repres;
75Bg0241SA      PURPOSE = Hand spec;
75Bg0241SA      DESCRIPTION = Intr;
75Bg0241SA      LITH = GDio;
75Bg0241SA      FORM = Pluton;
75Bg0241SA      MINS = Qtz, Plag, Bio;
75Bg0241SA      TEXTURE = Hypidio gran;
75Bg0241SA      CONDITION = Fresh;
75Bg0241SA
75Bg0241T  TEXT = Homogeneous med. hypidio. gran. granodiorite.  A few Qtz vns to 1/2 meter.;
75Bg0241  ------------------------------------------------------------------------------------------------
#
75Bg0242             STATION = 75ABg0242;
75Bg0242             DATE = 8/12/75;
75Bg0242             QUAD = KC B-5;
75Bg0242             LAT = 55/29/57;
75Bg0242             LONG = 131/28/55;
75Bg0242
75Bg0242   STRUCTURE;
75Bg0242        FOL-SCH = 300/30;
75Bg0242        JOINT = 060/75;
75Bg0242        OTHER-LIN = 018/28 (str);
75Bg0242
75Bg0242SA SAMPLE NUMBER = 75ABg0242A;
75Bg0242SA      UNIT = HPS;
75Bg0242SA      SOURCE = OTC;
75Bg0242SA      TYPE = Repres;
75Bg0242SA      PURPOSE = Hand spec;
75Bg0242SA      DESCRIPTION = Sed, met;
75Bg0242SA      LITH = Pyritic argill;
75Bg0242SA      FORM = Bedded;
75Bg0242SA      MINS = Py;
75Bg0242SA      TEXTURE = Fol;
75Bg0242SA      CONDITION = Fresh;
75Bg0242SA
```

```
75Bg0242T  TEXT = Loc rusty-wx dk gy pytc argill (HPS).  Intruded by several light brown wx dikes of microgran
75Bg0242T        Qtz Dio & felsic aplite-aphanite.;
75Bg0242  ----------------------------------------------------------------------------------------------------
#
75Bg0243              STATION = 75ABg0243;
75Bg0243              DATE = 8/12/75;
75Bg0243              QUAD = KC B-5;
75Bg0243              LAT = 55/29/28;
75Bg0243              LONG = 131/29/31;
75Bg0243              PURPOSE = Geol;
75Bg0243
75Bg0243   TEXT-TOPIC = Lith;
75Bg0243
75Bg0243   STRUCTURE;
75Bg0243        FOL-SCH = 305/35;
75Bg0243        OTHER-LIN = 040/30 (str);
75Bg0243
75Bg0243SA SAMPLE NUMBER = 75ABg0243A;
75Bg0243SA      UNIT = HPS;
75Bg0243SA      SOURCE = Float;
75Bg0243SA      TYPE = Repres;
75Bg0243SA      PURPOSE = Hand spec;
75Bg0243SA      DESCRIPTION = Sed, met;
75Bg0243SA      LITH = Metapelite;
75Bg0243SA      MINS = Qtz, Py, Musc;
75Bg0243SA      TEXTURE = Phyllitic;
75Bg0243SA      CONDITION = Fresh;
75Bg0243SA
75Bg0243SA SAMPLE NUMBER = 75ABg0243B;
75Bg0243SA      UNIT = HPS;
75Bg0243SA      SOURCE = OTC;
75Bg0243SA      TYPE = Repres;
75Bg0243SA      PURPOSE = Hand spec;
75Bg0243SA      DESCRIPTION = Sed, met;
75Bg0243SA      LITH = BI-CL schist;
75Bg0243SA      FORM = Layers;
75Bg0243SA      MINS = Qtz, Bio, Act, Chl;
75Bg0243SA      TEXTURE = Schistose;
75Bg0243SA      CONDITION = Alter;
75Bg0243SA      REMARKS = Rusty-wx.  Act not confirmed.;
75Bg0243SA
75Bg0243T  TEXT = Hardened (mostly) rsty-wx dk gy pyritic metapelite and subord green to rusty-wx BI-CL sch poss
75Bg0243T        der fr volcanogenic sed. rx.  Metapel cont abundant Qtz augen, lenses para fol as well as a few
75Bg0243T        Qtz pods to 1 m that cross fol.  There are also numerous light brown to cream-wx sills & dikes
75Bg0243T        of leuco ign rk, prob mainly  microgran QDio, aplite, and fisc aphanite, Finally, there are a
75Bg0243T        few dk greenish gray intermed dikes, and a few zones of rusty-wx flsr schist.
75Bg0243T        Rk are strikingly lineated phyllite and fine-grained schist.;
75Bg0243  ----------------------------------------------------------------------------------------------------
#
75Bg0244              STATION = 75ABg0244;
75Bg0244              DATE = 8/12/75;
75Bg0244              QUAD = KC B-5;
75Bg0244              LAT = 55/29/48;
75Bg0244              LONG = 131/29/24;
75Bg0244              PURPOSE = Geol;
75Bg0244
75Bg0244   TEXT-TOPIC = Lith;
75Bg0244
75Bg0244   STRUCTURE;
75Bg0244        JOINT = 275/85;
75Bg0244
```

```
75Bg0244SA SAMPLE NUMBER = 75ABg0244A;
75Bg0244SA      UNIT = GDio;
75Bg0244SA      SOURCE = OTC;
75Bg0244SA      TYPE = Repres;
75Bg0244SA      PURPOSE = Hand spec;
75Bg0244SA      DESCRIPTION = Intr;
75Bg0244SA      LITH = Granodiorite;
75Bg0244SA      FORM = Pluton;
75Bg0244SA      MINS = Qtz, Plag, Bio, Garn, Musc;
75Bg0244SA      TEXTURE = Hypid gran;
75Bg0244SA      CONDITION = Fresh;
75Bg0244SA      REMARKS = Garn not confirmed.;
75Bg0244SA
75Bg0244T  TEXT = Homogeneous med grain hypidio granular granodiorite.  Poss garnet-bearg Qtz vns to 2-3 cm tk in
75Bg0244T        meas joint set.;
75Bg0244  ------------------------------------------------------------------------------------------------------
#
75Bg0245            STATION = 75ABg0245;
75Bg0245            DATE = 8/12/75;
75Bg0245            QUAD = KC B-5;
75Bg0245            LAT = 55/29/10;
75Bg0245            LONG = 131/30/30;
75Bg0245            PURPOSE = Geol;
75Bg0245
75Bg0245   TEXT-TOPIC = Lith;
75Bg0245
75Bg0245   STRUCTURE:
75Bg0245        FOL-SCH = 256/55;
75Bg0245        OTHER-LIN = 055/35 (Rods, B/C);
75Bg0245
75Bg0245SA SAMPLE NUMBER = 75ABg0245A;
75Bg0245SA      UNIT = PS;
75Bg0245SA      SOURCE = OTC;
75Bg0245SA      TYPE = Repres;
75Bg0245SA      PURPOSE = Hand spec;
75Bg0245SA      DESCRIPTION = Sed, met;
75Bg0245SA      LITH = Pxld lst;
75Bg0245SA      FORM = 10 cm bed;
75Bg0245SA      MINS = Carb;
75Bg0245SA      TEXTURE = Fragmental;
75Bg0245SA      CONDITION = Fresh;
75Bg0245SA      REMARKS = Argill pebble-bearg rxld lst.;
75Bg0245SA
75Bg0245T  TEXT = Greenish gray and subord dk gy phyll and fn gn sch derived from conglomerate, grit, gwk, mdstn,
75Bg0245T        and (locally argill pebble-bearg) limestone.  Gwk most abndt, lst least abndnt.
75Bg0245T        Rlct clsts in metacgl are very elongate and flattened.  Size ranges from 2-3 cm to 30 or so cm long
75Bg0245T        Clast protoliths incl: metavolc?, lst, gwk, sltstn, mdstn--poss some green tuffac sed?
75Bg0245T        Matrix app was partly volcanic (green), partly pelitic.  See no granitic clasts.
75Bg0245T        Meta minls: Chlor, Bi, Musc, Act?
75Bg0245T        Rx mostly are phyllitic-fissile--little "hardening".  This unit may be a facies of rusty-wx
75Bg0245T        pytc argill (metapelite) unit, which adjoins them to east, but there could be a fault between
75Bg0245T        peninsula on which it crops out and the argill unit.;
75Bg0245  ------------------------------------------------------------------------------------------------------
#
75Bg0246            STATION = 75ABg0246;
75Bg0246            DATE = 8/12/75;
75Bg0246            QUAD = KC B-5;
75Bg0246            LAT = 55/28/48;
75Bg0246            LONG = 131/30/25;
75Bg0246            PURPOSE = Geol;
75Bg0246
```

```
75Bg0246   TEXT-TOPIC = Lith;
75Bg0246
75Bg0246   PHOTOS = Koch: Roll B6, No. 14;
75Bg0246
75Bg0246   STRUCTURE;
75Bg0246        FOL-SCH = 315/45;
75Bg0246        OTHER-LIN = 050/35 (Str):
75Bg0246
75Bg0246SA SAMPLE NUMBER = 75ABg0246A;
75Bg0246SA      UNIT = HPS;
75Bg0246SA      SOURCE = OTC;
75Bg0246SA      TYPE = Repres;
75Bg0246SA      PURPOSE = Hand spec;
75Bg0246SA      DESCRIPTION = Sed, met;
75Bg0246SA      LITH = Metapelite;
75Bg0246SA      FORM = Bedded;
75Bg0246SA      MINS = Bio, Py;
75Bg0246SA      TEXTURE = Foliated, "hardened";
75Bg0246SA      CONDITION = Fresh;
75Bg0246SA
75Bg0246T  TEXT = Irreg "hardened" dk gy and loc rusty-wx argill (metapelite) cont thin, discont layers & lenses
75Bg0246T        of fn gn rxld lst.  Unit is intruded by at least one sill-like body of HO metadiorite.
75Bg0246T        Mny Qtz vns, etc, para fol.  Metapel adjac to Qtz is coarse musc schist.
75Bg0246T        Rxld lst weath dk olive brown--erodes faster than enclg argill--some = silty lst or Calc sltstn.
75Bg0246T        See no conspic Py xls.;
75Bg0246   ----------------------------------------------------------------------------------------------------
#
75Bg0247             STATION = 75ABg0247;
75Bg0247             DATE = 8/15/75;
75Bg0247             QUAD = KC B-5;
75Bg0247             LAT = 55/17/55;
75Bg0247             LONG = 131/28/44;
75Bg0247             PURPOSE = Geol;
75Bg0247
75Bg0247   TEXT-TOPIC = Lith;
75Bg0247
75Bg0247   STRUCTURE;
75Bg0247        JOINT = 352/75;
75Bg0247        JOINT = 80/v;
75Bg0247        OTHER = Dike 358/60;
75Bg0247
75Bg0247SA SAMPLE NUMBER = 75ABg0247A;
75Bg0247SA      UNIT = GDio;
75Bg0247SA      SOURCE = OTC;
75Bg0247SA      TYPE = Repres;
75Bg0247SA      PURPOSE = Hand spec;
75Bg0247SA      DESCRIPTION = Intr;
75Bg0247SA      LITH = GDio or QDio;
75Bg0247SA      FORM = Pluton;
75Bg0247SA      MINS = Qtz, Plag, Bio, Ep/Clz, Garn;
75Bg0247SA      TEXTURE = Hypid gran;
75Bg0247SA      CONDITION = Fresh;
75Bg0247SA      REMARKS = Hbl not confirmed,  Garn not confirmed.;
75Bg0247SA
75Bg0247SA SAMPLE NUMBER = 75ABg0247B;
75Bg0247SA      UNIT = GDio;
75Bg0247SA      SOURCE = OTC;
75Bg0247SA      TYPE = Repres;
75Bg0247SA      PURPOSE = Hand spec;
75Bg0247SA      DESCRIPTION = Intr;
75Bg0247SA      LITH = Basalt;
```

```
75Bg0247SA      FORM = Dike;
75Bg0247SA      TEXTURE = Holoxln;
75Bg0247SA      CONDITION = Fresh;
75Bg0247SA
75Bg0247T  TEXT = Med hypid gran GDio or QDio cont Qz, Pc, Bi, poss trace garnet.
75Bg0247T        Cut by 1.5 m dike of dk brown mafic (m) ign rk, either basalt or lampro.
75Bg0247T        The GDio is jointed and massive--see no cntry rk xenoliths--it is crossed by numerous small
75Bg0247T        veins and dikes to 10 cm or so tk of GDio slightly lighter in hue than host.;
75Bg0247  ------------------------------------------------------------------------------------------------
#
75Bg0248            STATION = 75ABg0248;
75Bg0248            DATE = 8/15/75;
75Bg0248            QUAD = KC B-5;
75Bg0248            LAT = 55/18/08;
75Bg0248            LONG = 131/28/31;
75Bg0248            PURPOSE = Geol, geochem;
75Bg0248
75Bg0248   TEXT-TOPIC = Lith;
75Bg0248
75Bg0248   STRUCTURE:
75Bg0248        FOL-SCH = 294/75;
75Bg0248        JOINT = 005/75;
75Bg0248
75Bg0248SA SAMPLE NUMBER = 75ABg0248A;
75Bg0248SA      UNIT = HMP;
75Bg0248SA      SOURCE = OTC;
75Bg0248SA      TYPE = Repres;
75Bg0248SA      PURPOSE = Hand spec, spec;
75Bg0248SA      DESCRIPTION = Sed, met;
75Bg0248SA      LITH = Metapelite;
75Bg0248SA      FORM = Bedded;
75Bg0248SA      MINS = Bio, garn;
75Bg0248SA      TEXTURE = Schistose--hardened;
75Bg0248SA      CONDITION = Fresh;
75Bg0248SA      REMARKS = Two spls:
75Bg0248SA      REMARKS = One coll abt 10 m fr ctct w/ GDio pluton--one coll from mouth of tiny S-trending
75Bg0248SA      REMARKS = cove abt 1/4 mi E. of station.;
75Bg0248SA
75Bg0248SA SAMPLE NUMBER = 75ABg0248B;
75Bg0248SA      UNIT = GDio;
75Bg0248SA      SOURCE = OTC;
75Bg0248SA      TYPE = Repres;
75Bg0248SA      PURPOSE = Hand spec, spec;
75Bg0248SA      DESCRIPTION = Intr;
75Bg0248SA      LITH = GDio;
75Bg0248SA      FORM = Pluton;
75Bg0248SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0248SA      TEXTURE = Hypid gran;
75Bg0248SA      CONDITION = Fresh;
75Bg0248SA      REMARKS = Spl coll abt 3 m fr ctct w/ metased country rx.;
75Bg0248SA
75Bg0248T  TEXT = Dk gy Bi-rich schist cont thin (< 10 cm) layers and lenses of dk olive brown calcareous schist.
75Bg0248T        Protolith = pelitic sed rx cont minor calcareous siltstone.  Some of the rk is fissile-phyllitic,
75Bg0248T        but most is "hardened" metapelite (HMP).
75Bg0248T        There are a few Qtz pods and small rsty-wx zones, but Py is not conspicuous.
75Bg0248T        GDio pluton is med grain, leucocratic, veined by light-gray aplite.  Loc it has an obscure
75Bg0248T        gneissic structure, but is not conspic foliated.  Few country rk xenoliths. Cut by several
75Bg0248T        mafic dikes.;
75Bg0248  ------------------------------------------------------------------------------------------------
#
75Bg0249            STATION = 75ABg0249;
```

```
4676.   75Bg0249              DATE = 8/15/75;
4677.   75Bg0249              QUAD = KC B-5;
4678.   75Bg0249              LAT = 55/18/23;
4679.   75Bg0249              LONG = 131/28/05;
4680.   75Bg0249              PURPOSE = Geol, geochem;
4681.   75Bg0249
4682.   75Bg0249   TEXT-TOPIC = Lith;
4683.   75Bg0249
4684.   75Bg0249   STRUCTURE;
4685.   75Bg0249        FOL-SCH = 220/40;
4686.   75Bg0249        OTHER = Ctct 220/40;
4687.   75Bg0249
4688.   75Bg0249SA SAMPLE NUMBER = 75ABg0249A;
4689.   75Bg0249SA      UNIT = HMP;
4690.   75Bg0249SA      PURPOSE = Hand spec, spec;
4691.   75Bg0249SA      DESCRIPTION = Sed, met;
4692.   75Bg0249SA      LITH = Metapelite or argillite;
4693.   75Bg0249SA      FORM = Bedded;
4694.   75Bg0249SA      MINS = Py;
4695.   75Bg0249SA      TEXTURE = Schistose, hardened;
4696.   75Bg0249SA      CONDITION = Alter rusty-wx;
4697.   75Bg0249SA      REMARKS = Spl coll abt 10 m struct below ctct w/ GDio pluton.;
4698.   75Bg0249SA
4699.   75Bg0249T  TEXT = Rusty-wx metaseds struct ulie GDio plut.  Plut ctct is concordant with fol/sch in country rx--
4700.   75Bg0249T        such concordancy is comson at plut ctcts in Carroll Inlet, and suggests high-level intrusions.
4701.   75Bg0249T        The metaseds are pyritic and lith ident to "rusty-wx pytc argillite" I mapped on w. shore of
4702.   75Bg0249T        George Inlet N. of Herring Cove.;
4703.   75Bg0249  ----------------------------------------------------------------------------------------------
4704.   *
4717.   75Bg0250              STATION = 75ABg0250;
4718.   75Bg0250              DATE = 8/15/75;
4719.   75Bg0250              QUAD = KC B-5;
4720.   75Bg0250              LAT = 55/19/00;
4721.   75Bg0250              LONG = 131/27/29;
4722.   75Bg0250              PURPOSE = Geol, geochem;
4723.   75Bg0250
4724.   75Bg0250   TEXT-TOPIC = Lith;
4725.   75Bg0250
4726.   75Bg0250   STRUCTURE;
4727.   75Bg0250        FOL-SCH = 258/v;
4728.   75Bg0250
4729.   75Bg0250SA SAMPLE NUMBER = 75ABg0250A;
4730.   75Bg0250SA      UNIT = GDio;
4731.   75Bg0250SA      SOURCE = OTC;
4732.   75Bg0250SA      TYPE = Repres;
4733.   75Bg0250SA      PURPOSE = Hand spec, spec;
4734.   75Bg0250SA      DESCRIPTION = Intr;
4735.   75Bg0250SA      LITH = GDio;
4736.   75Bg0250SA      FORM = Pluton;
4737.   75Bg0250SA      MINS = Qtz, Plag, Bio, Garn, Musc;
4738.   75Bg0250SA      TEXTURE = Porphytc;
4739.   75Bg0250SA      CONDITION = Fresh;
4740.   75Bg0250SA
4741.   75Bg0250T  TEXT = Feldspar-porphyritic granodiorite cont a few tiny red garnets.  Rk is msv, irreg veined w/ thin
4742.   75Bg0250T        aplite or micropeg stringers.  A few zones of gneissose GDio might be mainly assim ctry rk
4743.   75Bg0250T        xenoliths.  Fol/sch meas on one of these.  But I don't think they indic regular internal
4744.   75Bg0250T        structure.  If rk is fol, I cannot see it in otcp.  Phenos weath in relief, rng 1/2 cm--1.5 cm.;
4745.   75Bg0250  ----------------------------------------------------------------------------------------------
4746.   *
4747.   75Bg0251              STATION = 75ABg0251;
4748.   75Bg0251              DATE = 8/15/75;
```

```
75Bg0251              QUAD = KC B-5;
75Bg0251              LAT = 55/19/15;
75Bg0251              LONG = 131/26/23;
75Bg0251              PURPOSE = Geol;
75Bg0251
75Bg0251   TEXT-TOPIC = Lith, struct;
75Bg0251
75Bg0251   STRUCTURE;
75Bg0251        FOL-SCH = 328/20;
75Bg0251
75Bg0251SA SAMPLE NUMBER = 75ABg0251A;
75Bg0251SA      UNIT = GDio;
75Bg0251SA      SOURCE = OTC;
75Bg0251SA      TYPE = Repres;
75Bg0251SA      PURPOSE = Hand spec;
75Bg0251SA      DESCRIPTION = Intr;
75Bg0251SA      LITH = GDio;
75Bg0251SA      FORM = Pluton;
75Bg0251SA      MINS = Qtz, Plag, Bio, Chl, Ep/Clz;
75Bg0251SA      TEXTURE = Hypid gran;
75Bg0251SA      CONDITION = Fresh;
75Bg0251SA
75Bg0251T  TEXT = Foliated (or flow-banded) wkly fspr-porphtc granodio.  The layering is on a scale of a few cm to
75Bg0251T        a meter--intervening rock is hypidio gran, not perceptively fol, but does cont Ep/Clz.
75Bg0251T        Can struct be interp as magmatic flow struct rather than met fol?
75Bg0251T        Sparse Qz-fspr micropeg dikes to 10 cm tk.;
75Bg0251  ------------------------------------------------------------------------------------------------
*
75Bg0252              STATION = 75ABg0252;
75Bg0252              DATE = 8/15/75;
75Bg0252              QUAD = KC B-5;
75Bg0252              LAT = 55/19/28;
75Bg0252              LONG = 131/25/51;
75Bg0252              PURPOSE = Geol, geochem;
75Bg0252
75Bg0252   TEXT-TOPIC = Lith;
75Bg0252
75Bg0252   STRUCTURE;
75Bg0252        FOL-SCH = 338/55;
75Bg0252        FOLD-AXIS = 076/45 (open wrnks);
75Bg0252        OTHER-LIN = 076/45 (str);
75Bg0252
75Bg0252SA SAMPLE NUMBER = 75ABg0252A;
75Bg0252SA      UNIT = BMP;
75Bg0252SA      SOURCE = OTC;
75Bg0252SA      TYPE = Repres;
75Bg0252SA      PURPOSE = Hand spec, spec;
75Bg0252SA      DESCRIPTION = Sed, met;
75Bg0252SA      LITH = Metapelite;
75Bg0252SA      MINS = Qtz, Plag, Bio, Py;
75Bg0252SA      TEXTURE = Semischistose;
75Bg0252SA      CONDITION = Alter, rusty-wx;
75Bg0252SA
75Bg0252SA SAMPLE NUMBER = 75ABg0252B;
75Bg0252SA      UNIT = BMP;
75Bg0252SA      SOURCE = OTC;
75Bg0252SA      TYPE = Repres;
75Bg0252SA      PURPOSE = Hand spec, spec;
75Bg0252SA      DESCRIPTION = Sed, met;
75Bg0252SA      LITH = Calc siltstone;
75Bg0252SA      MINS = Py, Carb;
```

```
4810.   75Bg0252SA      TEXTURE = Semischistose;
4811.   75Bg0252SA      CONDITION = Fresh;
4812.   75Bg0252SA
4813.   75Bg0252T  TEXT = Rsty-wx dk gy hardened metaseds cont a few Qtz augen para fol.  Subord Calc sltstn layers,
4814.   75Bg0252T        lenses wx olive gray.
4815.   75Bg0252T        Pel & Calc layers both cont conspic finely dissem Py, but no mega Py xls.
4816.   75Bg0252T        Couple of light brn wx fine grain GDio dikes.;
4817.   75Bg0252  ----------------------------------------------------------------------------------------------
4818.   #
4819.   75Bg0253             STATION = 75ABg0253;
4820.   75Bg0253             DATE = 8/15/75;
4821.   75Bg0253             QUAD = KC B-5;
4822.   75Bg0253             LAT = 55/19/48;
4823.   75Bg0253             LONG = 131/25/13;
4824.   75Bg0253             PURPOSE = Geol;
4825.   75Bg0253
4826.   75Bg0253   TEXT-TOPIC = Lith;
4827.   75Bg0253
4828.   75Bg0253   STRUCTURE;
4829.   75Bg0253        FOL-SCH = 350/50;
4830.   75Bg0253
4831.   75Bg0253SA SAMPLE NUMBER = 75ABg0253A;
4832.   75Bg0253SA      UNIT = HMP;
4833.   75Bg0253SA      SOURCE = OTC;
4834.   75Bg0253SA      TYPE = Repres;
4835.   75Bg0253SA      PURPOSE = Hand spec;
4836.   75Bg0253SA      DESCRIPTION = Intr, met;
4837.   75Bg0253SA      LITH = Metadiabase?;
4838.   75Bg0253SA      FORM = 5 meter sill?;
4839.   75Bg0253SA      MINS = Plag, Act, Chl, Ep/Clz;
4840.   75Bg0253SA      TEXTURE = Schistose;
4841.   75Bg0253SA      CONDITION = Fresh;
4842.   75Bg0253SA
4843.   75Bg0253T  TEXT = Dk green fn gn schist composed mainly of Fspr and mafics.  Could be sill-like intrsv or volc.
4844.   75Bg0253T        layer in metapelite sequence.  Prob best interp as fol pre-or synmetamorphic mafic intrsv.
4845.   75Bg0253T        Foln is folded.
4846.   75Bg0253T        Rk cont numerous Qtz +- Carb vns, any of wh are folded para foln in host rock.
4847.   75Bg0253T        Rocks either side of station are rsty-wx metapelite containing numerous conspicuous ovoid
4848.   75Bg0253T        pits and holes where calcareous material has weathered more rapidly than argillic host.
4849.   75Bg0253T        We call these features "eyes" and the enclosing rx "eyebeds".  The pits range from golfball
4850.   75Bg0253T        size to a meter or so in max dimens.;
4851.   75Bg0253  ----------------------------------------------------------------------------------------------
4852.   #
4853.   75Bg0254             STATION = 75ABg0254;
4854.   75Bg0254             DATE = 8/15/75;
4855.   75Bg0254             QUAD = KC B-5;
4856.   75Bg0254             LAT = 55/19/75;
4857.   75Bg0254             LONG = 131/24/52;
4858.   75Bg0254             PURPOSE = Geol;
4859.   75Bg0254
4860.   75Bg0254   TEXT-TOPIC = Lith;
4861.   75Bg0254
4862.   75Bg0254   STRUCTURE;
4863.   75Bg0254        FOL-SCH = 050/35 (in HMP underlyg eye schist);
4864.   75Bg0254        OTHER = Alined pits 130/22;
4865.   75Bg0254
4866.   75Bg0254SA SAMPLE NUMBER = 75ABg0254A;
4867.   75Bg0254SA      UNIT = ?;
4868.   75Bg0254SA      SOURCE = OTC;
4869.   75Bg0254SA      TYPE = Repres;
4870.   75Bg0254SA      PURPOSE = Hand spec, T. S.;
```

```
75Bg0254SA      LITH = Schist;
75Bg0254SA      MINS = Qtz, Plag, Bio, Act, Garn;
75Bg0254SA      TEXTURE = Schistose;
75Bg0254SA      CONDITION = Fresh;
75Bg0254SA
75Bg0254T  TEXT = Dk bn, fn gn Bi-Qz-Ga-Ac schist containing numerous and conspicuous circular to elliptical pits
75Bg0254T        and a few projections of somewhat coarser-grained metamorphic plag-mafic? rock.
75Bg0254T        This unit superfic resembles the "eyebed" metapelite, but it is massive and nonbedded, and the
75Bg0254T        pits and projections are not calcareous meta-siltstone.
75Bg0254T        Rk looks more like metamorphd intrusive than metaseds.  The eyes, which have aureoles of
75Bg0254T        Pc-Ac-Bi rock prob are of metamorphic origin.  Many are alined & concent zoned.  Size
75Bg0254T        ranges from 2-3 cm to 1/2 meter in max dimens.
75Bg0254T        Are these structs relict "eyes" in thoroly rxld metased rx--or relict orbicules in meta-igneous
75Bg0254T        rk?
75Bg0254T        Rk struct?  adjoins rsty-wx eyebed metapelite.;
75Bg0254  ----------------------------------------------------------------------------------------------
#
75Bg0255            STATION = 75ABg0255;
75Bg0255            DATE = 8/15/75;
75Bg0255            QUAD = KC B-5;
75Bg0255            LAT = 55/20/17;
75Bg0255            LONG = 131/23/48;
75Bg0255            PURPOSE = Geol, geochem;
75Bg0255
75Bg0255   TEXT-TOPIC = Lith;
75Bg0255
75Bg0255   STRUCTURE;
75Bg0255        FOL-SCH = 110/50;
75Bg0255
75Bg0255SA SAMPLE NUMBER = 75ABg0255A;
75Bg0255SA      UNIT = SMS;
75Bg0255SA      SOURCE = OTC;
75Bg0255SA      TYPE = Repres;
75Bg0255SA      PURPOSE = Rand spec, spec;
75Bg0255SA      DESCRIPTION = Sed, met;
75Bg0255SA      LITH = Metased rk;
75Bg0255SA      FORM = Bedded;
75Bg0255SA      MINS = Qtz, Bio, Act, Garn, Musc;
75Bg0255SA      TEXTURE = Schistose;
75Bg0255SA      CONDITION = Fresh;
75Bg0255SA      REMARKS = 3 spls to illus var in rk types.;
75Bg0255SA
75Bg0255T  TEXT = "New" unit: "schistose metaseds" (SMS), to distinguish from "hardened" (H) and "phyllitic" (P) units.
75Bg0255T        Ac-Ga-Mu schist app derived from eyebed-type metaseds.  Some of the sch is coarse, w/ Act xls
75Bg0255T        to 2-3 cm long.  I blv these rk are der fr sed or volc protolith--they seem to pass gradationally
75Bg0255T        into the massive eye-bearing schist mapped at 254, and which makes up most of otcp betw
75Bg0255T        254 and 255.;
75Bg0255  ----------------------------------------------------------------------------------------------
#
75Bg0256            STATION = 75ABg0256;
75Bg0256            DATE = 8/15/75;
75Bg0256            QUAD = KC B-5;
75Bg0256            LAT = 55/20/36;
75Bg0256            LONG = 131/22/55;
75Bg0256            PURPOSE = Geol, geochem;
75Bg0256
75Bg0256   TEXT-TOPIC = Lith;
75Bg0256
75Bg0256   STRUCTURE;
75Bg0256        BEDDING = 050/75;
75Bg0256        FOL-SCH = 065/80;
```

```
75Bg0256        OTHER-LIN = 240/5 (str):
75Bg0256
75Bg0256SA SAMPLE NUMBER = 75ABg0256A:
75Bg0256SA      UNIT = SMS;
75Bg0256SA      SOURCE = OTC:
75Bg0256SA      TYPE = Repres;
75Bg0256SA      PURPOSE = Hand spec, spec;
75Bg0256SA      DESCRIPTION = Sed, met;
75Bg0256SA      LITH = Metased:
75Bg0256SA      MINS = Qtz, Py, Act, Chl, Musc;
75Bg0256SA      TEXTURE = Schistose;
75Bg0256SA      CONDITION = Fresh:
75Bg0256SA
75Bg0256T  TEXT = Fairly crs schist der fr fn gn sed rx.  Met minls seem to be mainly Mu-Ac-Cl--finely dissem Py
75Bg0256T         in some layers.  Some of the beds weath mottled green & ylsh-orng--some weather dk olive,
75Bg0256T         and prob are rel calcareous.
75Bg0256T         Unit prob derived from pelitic sed rx.  See no "eyes".
75Bg0256T         Sparse Qtz +- Carb vns--some PTYG.;
75Bg0256  ----------------------------------------------------------------------------------------------
•
75Bg0257             STATION = 75ABg0257;
75Bg0257             DATE = 8/15/75;
75Bg0257             QUAD = KC B-5;
75Bg0257             LAT = 55/20/45;
75Bg0257             LONG = 131/22/55;
75Bg0257             PURPOSE = Geol, geochem;
75Bg0257
75Bg0257   TEXT-TOPIC = Lith, strat, foss;
75Bg0257
75Bg0257   STRUCTURE:
75Bg0257        FOL-SCR = 055/25;
75Bg0257        OTHER-LIN = 080/5 str;
75Bg0257
75Bg0257SA SAMPLE NUMBER = 75ABg0257A;
75Bg0257SA      UNIT = HMP;
75Bg0257SA      SOURCE = OTC;
75Bg0257SA      TYPE = Repres;
75Bg0257SA      PURPOSE = Hand spec, spec;
75Bg0257SA      DESCRIPTION = Sed, met;
75Bg0257SA      LITH = Calcareous metapelite:
75Bg0257SA      MINS = Py;
75Bg0257SA      TEXTURE = Phyllitic, hardened;
75Bg0257SA      CONDITION = Fresh;
75Bg0257SA
75Bg0257SA SAMPLE NUMBER = 75ABg0257B:
75Bg0257SA      UNIT = HMP;
75Bg0257SA      SOURCE = OTC;
75Bg0257SA      TYPE = Repres;
75Bg0257SA      PURPOSE = Hand spec;
75Bg0257SA      DESCRIPTION = Sed, met;
75Bg0257SA      LITH = Phyllite;
75Bg0257SA      FORM = Bedded;
75Bg0257SA      MINS = Py;
75Bg0257SA      TEXTURE = Hardened, phyllitic;
75Bg0257SA      CONDITION = Fresh;
75Bg0257SA      REMARKS = Poss. Receptaculites?;
75Bg0257SA
75Bg0257T  TEXT = Rx from 256 to and beyond this station are pyritic metapelite containing lenses of dark olive & gray
75Bg0257T         vfg sublithographic rxld lst, and Py xls to 1 cm.
75Bg0257T         Rx do not look "right" for Mz.  In one place there are two or three 10-15 cm diam clusters of met?
75Bg0257T         minls that look amazingly like flattened Receptaculites.  In fact, this unit does remind me of
```

```
4992.   75Bg0257T        Recept beds west of Annette Point on Annette Isl!
4993.   75Bg0257T        Pytc microgran QDio dike 25 cm tk.;
4994.   75Bg0257  ----------------------------------------------------------------------------------------
4995.   #
4996.   75Bg0258            STATION = 75ABg0258;
4997.   75Bg0258            DATE = 8/15/75;
4998.   75Bg0258            QUAD = KC B-5;
4999.   75Bg0258            LAT = 55/21/02;
5000.   75Bg0258            LONG = 131/22/58;
5001.   75Bg0258            PURPOSE = Geol, geochem;
5002.   75Bg0258
5003.   75Bg0258   TEXT-TOPIC = Lith, struct, strat;
5004.   75Bg0258
5005.   75Bg0258   STRUCTURE;
5006.   75Bg0258        JOINT = 175/75;
5007.   75Bg0258        AXIAL-PLANE = 085/v;
5008.   75Bg0258        FOLD-AXIS = 085/10;
5009.   75Bg0258
5010.   75Bg0258SA SAMPLE NUMBER = 75ABg0258A;
5011.   75Bg0258SA      UNIT = HMS;
5012.   75Bg0258SA      SOURCE = OTC;
5013.   75Bg0258SA      TYPE = Repres;
5014.   75Bg0258SA      PURPOSE = Hand spec, spec;
5015.   75Bg0258SA      DESCRIPTION = Sed, met;
5016.   75Bg0258SA      LITH = Rxld lst;
5017.   75Bg0258SA      FORM = Bed;
5018.   75Bg0258SA      MINS = Carb;
5019.   75Bg0258SA      TEXTURE = Microgranular;
5020.   75Bg0258SA      CONDITION = Fresh;
5021.   75Bg0258SA
5022.   75Bg0258T  TEXT = "Black and tan" semischist, schist, and phyllite derived from thinly interbedded, fine grain, partly
5023.   75Bg0258T        calcareous, pelitic, and arenaceous? sedimentary rocks.  Py xls to 2 cm.  Some beds = sublithogr
5024.   75Bg0258T        olive rxld lst.  I can think of nothing in the Mz in KTN quad that resembles these rx.
5025.   75Bg0258T        Black pytc metapelite lith like rusty-wx pytc argill n. of Herring Cove in George Inlet.
5026.   75Bg0258T        Rocks are deformed into numerous open folds w/ nearly vert axial planes.  Folds have wavelngths
5027.   75Bg0258T        of a few cm to a few m.  Poss upper plate of decollement?  Could this unit become marble-musc
5028.   75Bg0258T        sch-black argill of N. Carroll Inlet?
5029.   75Bg0258T        Outcrop Lithol:  Loc rsty-wx dk gy and subord dk green pytc argill, 50%
5030.   75Bg0258T                         Tan semisch, 35%
5031.   75Bg0258T                         Dk olive rxld lst, 15%
5032.   75Bg0258T                         Miscel Qtz vns, plutonic dikes;
5033.   75Bg0258  ----------------------------------------------------------------------------------------
5034.   #
5035.   75Bg0259            STATION = 75ABg0259;
5036.   75Bg0259            DATE = 8/15/75;
5037.   75Bg0259            QUAD = KC B-5;
5038.   75Bg0259            LAT = 55/21/28;
5039.   75Bg0259            LONG = 131/23/10;
5040.   75Bg0259            PURPOSE = Geol;
5041.   75Bg0259
5042.   75Bg0259   TEXT-TOPIC = Lith, struct;
5043.   75Bg0259
5044.   75Bg0259   SKETCH = Small folds showing vergence;
5045.   75Bg0259
5046.   75Bg0259   STRUCTURE;
5047.   75Bg0259        AXIAL-PLANE = 085/64;
5048.   75Bg0259        FOLD-AXIS = 080/30;
5049.   75Bg0259
5050.   75Bg0259T  TEXT = Sketch of small folds showing vergence.  Country rocks are loc rusty wx "black and tan" (but mostly
5051.   75Bg0259T        black) unit.
5052.   75Bg0259T        50 m N of station, unit is hornfels w/ "eyes" (relict calcareous lenses).;
```

```
5053.   75Bg0259 ----------------------------------------------------------------------------------------------
5054.   #
5055.   75Bg0260            STATION = 75ABg0260;
5056.   75Bg0260            DATE = 8/15/75;
5057.   75Bg0260            QUAD = KC B-5;
5058.   75Bg0260            LAT = 55/22/03;
5059.   75Bg0260            LONG = 131/23/17;
5060.   75Bg0260            PURPOSE = Geol;
5061.   75Bg0260
5062.   75Bg0260   TEXT-TOPIC = Lith;
5063.   75Bg0260
5064.   75Bg0260   STRUCTURE;
5065.   75Bg0260        FOL-SCH = 305/25;
5066.   75Bg0260        OTHER-LIN = 052/25 (str);
5067.   75Bg0260
5068.   75Bg0260SA SAMPLE NUMBER = 75ABg0260A;
5069.   75Bg0260SA      UNIT = HMP;
5070.   75Bg0260SA      SOURCE = OTC;
5071.   75Bg0260SA      TYPE = Repres;
5072.   75Bg0260SA      PURPOSE = Hand spec;
5073.   75Bg0260SA      DESCRIPTION = Sed, met;
5074.   75Bg0260SA      LITH = Metagraywacke;
5075.   75Bg0260SA      FORM = Bedded;
5076.   75Bg0260SA      MINS = Qtz, Plag, Py, Act, Chl, Ep/Clz;
5077.   75Bg0260SA      TEXTURE = Schistose;
5078.   75Bg0260SA      CONDITION = Fresh;
5079.   75Bg0260SA
5080.   75Bg0260T  TEXT = Hardened pelitic sedimentary rx apparently intruded by mafic pluton.  Pluton does not crop out
5081.   75Bg0260T        at station, but large, locally derived, float blocks of mafic plutonic breccia are abundant.
5082.   75Bg0260T        The metaseds seem to be mostly dk gnsh gy metagraywacke and subord dk gy argillite.
5083.   75Bg0260T        Probably called this unit "cooked flysch" in 1973 (cf. 3B152, etc)
5084.   75Bg0260T        For about 1/2 mile S of station 260, rx have been more like graywacke
5085.   75Bg0260T        metaturbidite than like rsty-wx black argill.or "black and tan" units.;
5086.   75Bg0260 ----------------------------------------------------------------------------------------------
5087.   #
5088.   75Bg0261            STATION = 75ABg0261;
5089.   75Bg0261            DATE = 8/15/75;
5090.   75Bg0261            QUAD = KC B-5;
5091.   75Bg0261            LAT = 55/22/40;
5092.   75Bg0261            LONG = 131/21/50;
5093.   75Bg0261            PURPOSE = Geol;
5094.   75Bg0261
5095.   75Bg0261   TEXT-TOPIC = Lith, strat;
5096.   75Bg0261
5097.   75Bg0261   STRUCTURE;
5098.   75Bg0261        FOL-SCH = 310/40;
5099.   75Bg0261
5100.   75Bg0261SA SAMPLE NUMBER = 75ABg0261A;
5101.   75Bg0261SA      UNIT = Pz Marble;
5102.   75Bg0261SA      SOURCE = OTC;
5103.   75Bg0261SA      TYPE = Repres;
5104.   75Bg0261SA      PURPOSE = Hand spec;
5105.   75Bg0261SA      DESCRIPTION = Sed, met;
5106.   75Bg0261SA      LITH = Marble;
5107.   75Bg0261SA      FORM = Bedded;
5108.   75Bg0261SA      MINS = Carb;
5109.   75Bg0261SA      TEXTURE = Microgranular-schistose;
5110.   75Bg0261SA      CONDITION = Fresh;
5111.   75Bg0261SA
5112.   75Bg0261SA SAMPLE NUMBER = 75ABg0261B;
5113.   75Bg0261SA      UNIT = Pz Marble;
```

```
75Bg0261SA      SOURCE = OTC;
75Bg0261SA      TYPE = Repres;
75Bg0261SA      PURPOSE = Hand spec;
75Bg0261SA      DESCRIPTION = Extr, sed, met;
75Bg0261SA      LITH = Talc schist;
75Bg0261SA      FORM = Bedded;
75Bg0261SA      MINS = Carb, Talc, Act, Chl;
75Bg0261SA      TEXTURE = Schistose;
75Bg0261SA      CONDITION = Fresh;
75Bg0261SA
75Bg0261T  TEXT = Laminated light brown and gray-wx marble and subord to minor intercalated talc-cl-act schist.
75Bg0261T         There is also a little tremolite or wollastonite in some of the schistose marble, which also contains
75Bg0261T         tiny granules of qz? and flakes of talc-like micaceous mineral.
75Bg0261T         Look for fossils but not even a scrap (yet!).
75Bg0261T         I blv talc, etc, schist intercal w/ mbe are derived from tuffaceous metavolcs and could signific
75Bg0261T         a volcanic arc depositional setting for unit.
75Bg0261T         On southernmost edge of island, marble struct overlies phyllite derived from thinly interbedded
75Bg0261T         mudstone and siltstone (i.e., turbidite).  These rx con Py and possibly Act porphblsts.
75Bg0261T         See no struct discont betw mbe and phyll.:
75Bg0261  ------------------------------------------------------------------------------------------------
#
75Bg0262             STATION = 75ABg0262;
75Bg0262             DATE = 8/16/75;
75Bg0262             QUAD = KC B-5;
75Bg0262             LAT = 55/22/40;
75Bg0262             LONG = 131/21/28;
75Bg0262             PURPOSE = Geol;
75Bg0262
75Bg0262   TEXT-TOPIC = Lith, strat;
75Bg0262
75Bg0262   STRUCTURE:
75Bg0262        FOL-SCH = Horiz;
75Bg0262
75Bg0262SA SAMPLE NUMBER = 75ABg0262A;
75Bg0262SA      UNIT = Cz  (Cenozoic);
75Bg0262SA      SOURCE = OTC;
75Bg0262SA      TYPE = Repres;
75Bg0262SA      PURPOSE = Hand spec, T. S.;
75Bg0262SA      DESCRIPTION = Sed;
75Bg0262SA      LITH = Gritty volcanic siltstone;
75Bg0262SA      FORM = Bed;
75Bg0262SA      CONDITION = Fresh;
75Bg0262SA
75Bg0262T  TEXT = Crinoidal marble, which crops out more or less cont for a hund meters or so s. of sta,
75Bg0262T         is struct olain by olive-weath volc? sste, grit, & cgl cont pebbles of what appear to be
75Bg0262T         Qz, phyll, and felsic rock. Suspect this is Quaternary (Ketchikan Volcanics) basaltic tuff.
75Bg0262T         Otcps of this rk are vy scarce and very poor, but it seems to be
75Bg0262T         substantially less metd than ulyg marble.
75Bg0262T         Ctct w/ mbe not exposed.
75Bg0262  ------------------------------------------------------------------------------------------------
#
75Bg0263             STATION = 75ABg0263;
75Bg0263             DATE = 8/16/75;
75Bg0263             QUAD = KC B-5;
75Bg0263             LAT = 55/22/52;
75Bg0263             LONG = 131/20/40;
75Bg0263             PURPOSE = Geol;
75Bg0263
75Bg0263   TEXT-TOPIC = Lith;
75Bg0263
75Bg0263   STRUCTURE;
```

```
75Bg0263          FOL-SCH = 312/20;
75Bg0263
75Bg0263T  TEXT = Roundstone metaconglomerate of Gnat Cove.
75Bg0263T          For description, see 1973 fieldnotes (3B145-7).
75Bg0263T          Clasts: Flsc-intermed granitic rx--lt ylsh gy aphan ig?
75Bg0263T          rk--orng-wx meta ck--metapelite?  See no mbe.
75Bg0263T          Ctct w/ volcanics at 262 not exposed.
75Bg0263T          There is virtually no otcp along shoreline betw 262 & 263.  Unless R & R find it
75Bg0263T          on west shore of Carroll Inlet, strat relns of rndstn cgl may not be determinable in
75Bg0263T          Carroll Inlet.
75Bg0263T          Unit grades struct downward to pebbly gwk semisch and phyllitic metapelite by decrease in size
75Bg0263T          and number of clasts.  Rounded granitic clasts still are most numerous type, however.;
75Bg0263  ----------------------------------------------------------------------------------------------------
$
75Bg0264               STATION = 75ABg0264;
75Bg0264               DATE = 8/16/75;
75Bg0264               QUAD = KC B-4;
75Bg0264               LAT = 55/22/25;
75Bg0264               LONG = 131/19/51;
75Bg0264               PURPOSE = Geol;
75Bg0264   TEXT-TOPIC = Lith, strat;
75Bg0264
75Bg0264   STRUCTURE;
75Bg0264          FOL-SCH = 292/28;
75Bg0264
75Bg0264SA SAMPLE NUMBER = 75ABg0264A;
75Bg0264SA        UNIT = PMP;
75Bg0264SA        SOURCE = OTC;
75Bg0264SA        TYPE = Repres;
75Bg0264SA        PURPOSE = Hand spec, spec;
75Bg0264SA        DESCRIPTION = Sed, met;
75Bg0264SA        LITH = Metapelite;
75Bg0264SA        FORM = Bedded;
75Bg0264SA        MINS = Py;
75Bg0264SA        TEXTURE = Phyllitic;
75Bg0264SA        CONDITION = Fresh;
75Bg0264SA        REMARKS = Gx spl coll for background.;
75Bg0264SA
75Bg0264T  TEXT = Olive, dk gy, and dk brn phyllitic to somewhat hardened metapelite.  Rusty-wx Qtz vns para fol.
75Bg0264T          Orange-wx semisch prob is nearly concordant dike (15-20 cm tk).  See no pebbles.
75Bg0264T          Unit is struct concordant w/ overlying pebbly beds and I believe they are gradational.
75Bg0264T          I have impression that rndstn cgl simply is a lens in the metapelite, and thus may not be the
75Bg0264T          "base" of any strat unit (see notes regarding origin/sig of cgl on Back Island).;
75Bg0264  ----------------------------------------------------------------------------------------------------
$
75Bg0265               STATION = 75ABg0265;
75Bg0265               DATE = 8/16/75;
75Bg0265               QUAD = KC B-4;
75Bg0265               LAT = 55/22/52;
75Bg0265               LONG = 131/19/20;
75Bg0265               PURPOSE = Geol, geochem;
75Bg0265
75Bg0265   TEXT-TOPIC = Lith;
75Bg0265
75Bg0265   STRUCTURE;
75Bg0265          FOL-SCH = 272/35;
75Bg0265          OTHER = Dike 295/30;
75Bg0265
75Bg0265SA SAMPLE NUMBER = 75ABg0265A;
75Bg0265SA        UNIT = PMP;
75Bg0265SA        SOURCE = OTC;
```

```
5241.    75Bg0265SA       TYPE = Repres;
5242.    75Bg0265SA       PURPOSE = Hand spec, spec;
5243.    75Bg0265SA       DESCRIPTION = Sed, met;
5244.    75Bg0265SA       LITH = Metapelite + Qz;
5245.    75Bg0265SA       FORM = Vein;
5246.    75Bg0265SA       MINS = Qtz, Garn, Musc;
5247.    75Bg0265SA       TEXTURE = Phyllitic;
5248.    75Bg0265SA       CONDITION = Fresh;
5249.    75Bg0265SA       REMARKS = Qtz vein + adjacent country rock.;
5250.    75Bg0265SA
5251.    75Bg0265T  TEXT = Phyllitic metapelite.  See no clasts.  Intruded by 1/2 meter thick microgran QDio dike.
5252.    75Bg0265T        Qtz vns loc at ctct and para fol in PMP.
5253.    75Bg0265T        Unit struct overlies rndstn cgl.  Prob gradational.
5254.    75Bg0265T        Tiny Garn pblsts in some beds.;
5255.    75Bg0265  ----------------------------------------------------------------------------------------------
5256.    *
5257.    75Bg0266              STATION = 75ABg0266;
5258.    75Bg0266              DATE = 8/16/75;
5259.    75Bg0266              QUAD = KC B-4;
5260.    75Bg0266              LAT = 55/23/24;
5261.    75Bg0266              LONG = 131/19/30;
5262.    75Bg0266              PURPOSE = Geol, geochem;
5263.    75Bg0266
5264.    75Bg0266   TEXT-TOPIC = Lith;
5265.    75Bg0266
5266.    75Bg0266   STRUCTURE;
5267.    75Bg0266        FOL-SCH = 280/25;
5268.    75Bg0266        OTHER-LIN = 025/20 (M, Str);
5269.    75Bg0266
5270.    75Bg0266SA SAMPLE NUMBER = 75ABg0266A;
5271.    75Bg0266SA       UNIT = PMP;
5272.    75Bg0266SA       SOURCE = OTC;
5273.    75Bg0266SA       TYPE = Repres;
5274.    75Bg0266SA       PURPOSE = Hand spec, spec;
5275.    75Bg0266SA       DESCRIPTION = Sed, met;
5276.    75Bg0266SA       LITH = Metapelite;
5277.    75Bg0266SA       MINS = Garn, Musc;
5278.    75Bg0266SA       TEXTURE = Phyllitic;
5279.    75Bg0266SA       CONDITION = Fresh;
5280.    75Bg0266SA       REMARKS = Gx spl coll for background.;
5281.    75Bg0266SA
5282.    75Bg0266T  TEXT = Phyllitic metapelite (PMP) cont tiny Garn metacrysts.  Qtz veins, seams para fol.;
5283.    75Bg0266  ----------------------------------------------------------------------------------------------
5284.    *
5285.    75Bg0267              STATION = 75ABg0267;
5286.    75Bg0267              DATE = 8/16/75;
5287.    75Bg0267              QUAD = KC B-4;
5288.    75Bg0267              LAT = 55/24/06;
5289.    75Bg0267              LONG = 131/18/47;
5290.    75Bg0267              PURPOSE = Geol, geochem;
5291.    75Bg0267
5292.    75Bg0267   TEXT-TOPIC = Lith;
5293.    75Bg0267
5294.    75Bg0267   STRUCTURE;
5295.    75Bg0267        FOL-SCH = 308/12;
5296.    75Bg0267
5297.    75Bg0267SA SAMPLE NUMBER = 75ABg0267A;
5298.    75Bg0267SA       UNIT = SMS + BB;
5299.    75Bg0267SA       SOURCE = OTC;
5300.    75Bg0267SA       TYPE = Repres;
5301.    75Bg0267SA       PURPOSE = Hand spec, spec;
```

```
5302.   75Bg0267SA      DESCRIPTION = Sed, met;
5303.   75Bg0267SA      LITH = Schist;
5304.   75Bg0267SA      MINS = Carb, Act, Chl, Garn, Musc;
5305.   75Bg0267SA      TEXTURE = Schistose;
5306.   75Bg0267SA      CONDITION = Fresh;
5307.   75Bg0267SA      REMARKS = Gx spl coll for background.;
5308.   75Bg0267SA
5309.   75Bg0267T  TEXT = Intercalated Ac-Mu-Ga?-Cl schist and marble.  Abndnt Qz-carb vns.  Mafic dikes.
5310.   75Bg0267T        Is this diff unit from metapel?  Does it correl w/ marble-schist unit to north?
5311.   75Bg0267T        Px in small cove east of station are mainly fine grain schist and hardened phyllite derived
5312.   75Bg0267T        from thinly interbedded sandstone, siltstone & mudstone.  Looks like metapelite to me.  See no
5313.   75Bg0267T        marble, only Carb vnlts, etc.;
5314.   75Bg0267  ----------------------------------------------------------------------------------------------
5315.   #
5316.   75Bg0268            STATION = 75ABg0268;
5317.   75Bg0268            DATE = 8/16/75;
5318.   75Bg0268            QUAD = KC B-4;
5319.   75Bg0268            LAT = 55/24/24;
5320.   75Bg0268            LONG = 131/19/20;
5321.   75Bg0268            PURPOSE = Geol, geochem;
5322.   75Bg0268
5323.   75Bg0268   TEXT-TOPIC = Lith;
5324.   75Bg0268
5325.   75Bg0268   STRUCTURE;
5326.   75Bg0268        FOL-SCH = 300/20;
5327.   75Bg0268
5328.   75Bg0268SA SAMPLE NUMBER = 75ABg0268A;
5329.   75Bg0268SA      UNIT = HMP;
5330.   75Bg0268SA      SOURCE = OTC;
5331.   75Bg0268SA      TYPE = Repres;
5332.   75Bg0268SA      PURPOSE = Hand spec, spec;
5333.   75Bg0268SA      DESCRIPTION = Sed, met;
5334.   75Bg0268SA      LITH = Metapelite;
5335.   75Bg0268SA      FORM = Bedded;
5336.   75Bg0268SA      MINS = Qtz, Bio, Act, Garn, Musc;
5337.   75Bg0268SA      TEXTURE = Schistose;
5338.   75Bg0268SA      CONDITION = Fresh;
5339.   75Bg0268SA      REMARKS = Gx spl coll for backgr;
5340.   75Bg0268SA
5341.   75Bg0268SA SAMPLE NUMBER = 75ABg0268B;
5342.   75Bg0268SA      UNIT = HMV;
5343.   75Bg0268SA      SOURCE = OTC;
5344.   75Bg0268SA      TYPE = Repres;
5345.   75Bg0268SA      PURPOSE = Hand spec;
5346.   75Bg0268SA      DESCRIPTION = Extr, met;
5347.   75Bg0268SA      LITH = Metavolcanic;
5348.   75Bg0268SA      FORM = Bedded;
5349.   75Bg0268SA      MINS = Plag, Hbl, Bio, Act;
5350.   75Bg0268SA      TEXTURE = Schistose;
5351.   75Bg0268SA      CONDITION = Fresh;
5352.   75Bg0268SA      REMARKS = Spl coll about 250 meters N. of station.;
5353.   75Bg0268SA
5354.   75Bg0268T  TEXT = OSTEN ISLAND. Hardened to schistose metapelite.  Qtz veins, augen parallel fol.
5355.   75Bg0268T        Many layers are Ac-Bi-Mu-Ga? schist (garbensch).
5356.   75Bg0268T        North of station for about a half mile, metapelite otcps alternate w/ green metavolcs
5357.   75Bg0268T        (Ac-Cl-Pc-Bi schist).  Otcp widths of each rk type range up to 100 meters or so.
5358.   75Bg0268T        About a half mile N. of station the bedded units are intruded by numerous semiconcordant microgran
5359.   75Bg0268T        QD or GD dikes, then by a GDio pluton.  See no Garn in dikes.;
5360.   75Bg0268  ----------------------------------------------------------------------------------------------
5361.   #
5362.   75Bg0269            STATION = 75ABg0269;
```

```
5363.   75Bg0269            DATE = 8/16/75;
5364.   75Bg0269            QUAD = KC B-4;
5365.   75Bg0269            LAT = 55/24/43;
5366.   75Bg0269            LONG = 131/19/15;
5367.   75Bg0269            PURPOSE = Geol, geochem;
5368.   75Bg0269
5369.   75Bg0269   TEXT-TOPIC = Lith;
5370.   75Bg0269
5371.   75Bg0269   STRUCTURE;
5372.   75Bg0269        FOL-SCH = 300/42 (approx);
5373.   75Bg0269
5374.   75Bg0269SA SAMPLE NUMBER = 75ABg0269A;
5375.   75Bg0269SA      UNIT = GDio;
5376.   75Bg0269SA      SOURCE = OTC;
5377.   75Bg0269SA      TYPE = Repres;
5378.   75Bg0269SA      PURPOSE = Hand spec, spec;
5379.   75Bg0269SA      DESCRIPTION = Intr, met;
5380.   75Bg0269SA      LITH = Granodiorite;
5381.   75Bg0269SA      FORM = Pluton;
5382.   75Bg0269SA      MINS = Qtz, Plag, Bio, Chl, Ep/Clz, Garn, Musc;
5383.   75Bg0269SA      TEXTURE = Foliated;
5384.   75Bg0269SA      CONDITION = Fresh;
5385.   75Bg0269SA      REMARKS = Gx spl taken for backgr;
5386.   75Bg0269SA
5387.   75Bg0269T  TEXT = Foliated garn-bearg GDio (classif. as GDio because see no HD).  Contact w/ metapelite to S. is
5388.   75Bg0269T       struct concordant w/ fol in MP.
5389.   75Bg0269T       Plut conts sparse rndd inclusions of dk brown GDio that may be assim xenoliths.
5390.   75Bg0269T       A few lite gy aplite or micropeg dikes.;
5391.   75Bg0269  ----------------------------------------------------------------------------------------------
5392.   #
5393.   75Bg0270            STATION = 75ABg0270;
5394.   75Bg0270            DATE = 8/16/75;
5395.   75Bg0270            QUAD = KC B-4;
5396.   75Bg0270            LAT = 55/25/06;
5397.   75Bg0270            LONG = 131/18/56;
5398.   75Bg0270            PURPOSE = Geol, geochem;
5399.   75Bg0270
5400.   75Bg0270   TEXT-TOPIC = Lith;
5401.   75Bg0270
5402.   75Bg0270   SKETCH = Met texture in mvolc;
5403.   75Bg0270
5404.   75Bg0270   STRUCTURE;
5405.   75Bg0270        FOL-SCH = 290/40;
5406.   75Bg0270
5407.   75Bg0270SA SAMPLE NUMBER = 75ABg0270A;
5408.   75Bg0270SA      UNIT = SMV;
5409.   75Bg0270SA      SOURCE = OTC;
5410.   75Bg0270SA      TYPE = Repres;
5411.   75Bg0270SA      PURPOSE = Hand spec, spec;
5412.   75Bg0270SA      DESCRIPTION = Extr, met;
5413.   75Bg0270SA      LITH = Mafic metavolcanic;
5414.   75Bg0270SA      FORM = Layered;
5415.   75Bg0270SA      MINS = Plag, Bio, Act, Chl;
5416.   75Bg0270SA      TEXTURE = Schistose;
5417.   75Bg0270SA      CONDITION = Fresh;
5418.   75Bg0270SA      REMARKS = Bio not confirmed.  Gx spl for background.;
5419.   75Bg0270SA
5420.   75Bg0270T  TEXT = Med to crs grain dk green schist containing Ac-Cl-Pc.  I believe this rk is best interp as schistose (mafic)

5421.   75Bg0270T       metavolcanic (SMV).  From a distance, rock might be interp as mafic intrusive such as
5422.   75Bg0270T       metagabbro or HO diorite.
```

```
5423.    75Bg0270T        Weath surf has interesting "augen texture" consisting of packed lenticles of rel crs schist sep
5424.    75Bg0270T        by interstitial finer schist & phyllite.;
5425.    75Bg0270 ----------------------------------------------------------------------------------------------------
5426.    *
5427.    75Bg0271             STATION = 75ABg0271;
5428.    75Bg0271             DATE = 8/16/75;
5429.    75Bg0271             QUAD = KC B-4;
5430.    75Bg0271             LAT = 55/24/31;
5431.    75Bg0271             LONG = 131/18/18;
5432.    75Bg0271             PURPOSE = Geol;
5433.    75Bg0271
5434.    75Bg0271   TEXT-TOPIC = Lith;
5435.    75Bg0271
5436.    75Bg0271   STRUCTURE;
5437.    75Bg0271        JOINT = 240/75;
5438.    75Bg0271
5439.    75Bg0271SA SAMPLE NUMBER = 75ABg0271A;
5440.    75Bg0271SA      UNIT = GDio;
5441.    75Bg0271SA      SOURCE = OTC;
5442.    75Bg0271SA      TYPE = Repres;
5443.    75Bg0271SA      PURPOSE = Hand spec;
5444.    75Bg0271SA      DESCRIPTION = Intr;
5445.    75Bg0271SA      LITH = Granodiorites;
5446.    75Bg0271SA      FORM = Pluton;
5447.    75Bg0271SA      MINS = Qtz, Plag, Bio;
5448.    75Bg0271SA      TEXTURE = Hypid gran;
5449.    75Bg0271SA      CONDITION = Fresh;
5450.    75Bg0271SA
5451.    75Bg0271T  TEXT = Msv, homogeneous granodiorite, near roof pendants or large xenoliths of country rock metapelite,
5452.    75Bg0271T        the pluton is gneissic.;
5453.    75Bg0271 ----------------------------------------------------------------------------------------------------
5454.    *
5455.    75Bg0272             STATION = 75ABg0272;
5456.    75Bg0272             DATE = 8/16/75;
5457.    75Bg0272             QUAD = KC B-4;
5458.    75Bg0272             LAT = 55/25/00;
5459.    75Bg0272             LONG = 131/17/55;
5460.    75Bg0272             PURPOSE = Geol;
5461.    75Bg0272
5462.    75Bg0272   TEXT-TOPIC = Lith;
5463.    75Bg0272
5464.    75Bg0272   STRUCTURE;
5465.    75Bg0272        FOL-SCH = 020/55;
5466.    75Bg0272
5467.    75Bg0272SA SAMPLE NUMBER = 75ABg0272A;
5468.    75Bg0272SA      UNIT = GDio;
5469.    75Bg0272SA      SOURCE = OTC;
5470.    75Bg0272SA      TYPE = Repres;
5471.    75Bg0272SA      PURPOSE = Hand spec;
5472.    75Bg0272SA      DESCRIPTION = Intr;
5473.    75Bg0272SA      LITH = Qtz Dio;
5474.    75Bg0272SA      FORM = Pluton;
5475.    75Bg0272SA      MINS = Qtz, Plag, Hbl, Bio, Act, Chl, Ep/Clz, Garn;
5476.    75Bg0272SA      TEXTURE = Porphyritic;
5477.    75Bg0272SA      CONDITION = Fresh;
5478.    75Bg0272SA
5479.    75Bg0272SA SAMPLE NUMBER = 75ABg0272B;
5480.    75Bg0272SA      UNIT = GDio;
5481.    75Bg0272SA      SOURCE = OTC;
5482.    75Bg0272SA      TYPE = Repres;
5483.    75Bg0272SA      PURPOSE = Hand spec;
```

```
5484.   75Bg0272SA      DESCRIPTION = Sed, met;
5485.   75Bg0272SA      LITH = Metapelite;
5486.   75Bg0272SA      FORM = Xenoliths;
5487.   75Bg0272SA      MINS = Qtz, Plag, Bio;
5488.   75Bg0272SA      TEXTURE = Foliated;
5489.   75Bg0272SA      CONDITION = Fresh;
5490.   75Bg0272SA
5491.   75Bg0272T  TEXT = Feldspar-porphyritic, garnet-bearing Qtz diorite and hardened metapelite.  The two units are
5492.   75Bg0272T        intricately mixed at outcrop scale.  I believe plut is sig more abndnt than the meta rx.
5493.   75Bg0272T        The Qtz Dio (so classified because it contains Bio + AM) ranges from microgran sills w/
5494.   75Bg0272T        intervening blocks of metapel, to more or less homogeneous rock that might be granodio.
5495.   75Bg0272T        Feldspar phenos avg 1/2 cm.
5496.   75Bg0272T        Metapelite ranges from hardened to gneissic--most of it is biotite hornfels.;
5497.   75Bg0272  ----------------------------------------------------------------------------------------------
5498.   *
5499.   75Bg0273            STATION = 75ABg0273;
5500.   75Bg0273            DATE = 8/16/75;
5501.   75Bg0273            QUAD = KC B-4;
5502.   75Bg0273            LAT = 55/25/28;
5503.   75Bg0273            LONG = 131/17/29;
5504.   75Bg0273            PURPOSE = Geol, geochem;
5505.   75Bg0273
5506.   75Bg0273   TEXT-TOPIC = Lith;
5507.   75Bg0273
5508.   75Bg0273   STRUCTURE;
5509.   75Bg0273        FOL-SCH = 280/40;
5510.   75Bg0273        OTHER-LIN = 040/15 (str);
5511.   75Bg0273
5512.   75Bg0273SA SAMPLE NUMBER = 75ABg0273A;
5513.   75Bg0273SA      UNIT = HBP;
5514.   75Bg0273SA      SOURCE = OTC;
5515.   75Bg0273SA      TYPE = Repres;
5516.   75Bg0273SA      PURPOSE = Hand spec, spec;
5517.   75Bg0273SA      DESCRIPTION = Sed, met;
5518.   75Bg0273SA      LITH = Metapelite;
5519.   75Bg0273SA      FORM = Bedded;
5520.   75Bg0273SA      MINS = Py;
5521.   75Bg0273SA      TEXTURE = Hardened, phyllitic;
5522.   75Bg0273SA      CONDITION = Fresh;
5523.   75Bg0273SA      REMARKS = Gx spl coll for background.;
5524.   75Bg0273SA
5525.   75Bg0273T  TEXT = Hardened metapelite cont numerous Qtz veins para fol.  Contact with granodio pluton, marked by sills
5526.   75Bg0273T        and dikes of microgranular plut rk, is about 50 meters s. of station.;
5527.   75Bg0273  ----------------------------------------------------------------------------------------------
5528.   *
5529.   75Bg0274            STATION = 75ABg0274;
5530.   75Bg0274            DATE = 8/16/75;
5531.   75Bg0274            QUAD = KC B-4;
5532.   75Bg0274            LAT = 55/25/43;
5533.   75Bg0274            LONG = 131/18/23;
5534.   75Bg0274            PURPOSE = Geol;
5535.   75Bg0274
5536.   75Bg0274   TEXT-TOPIC = Lith;
5537.   75Bg0274
5538.   75Bg0274   STRUCTURE;
5539.   75Bg0274        FOL-SCH = 300/35;
5540.   75Bg0274        OTHER-LIN = 010/30 (M);
5541.   75Bg0274
5542.   75Bg0274SA SAMPLE NUMBER = 75ABg0274A;
5543.   75Bg0274SA      UNIT = SMP;
5544.   75Bg0274SA      SOURCE = Float;
```

```
5545.    75Bg0274SA        TYPE = Repres;
5546.    75Bg0274SA        PURPOSE = Hand spec;
5547.    75Bg0274SA        DESCRIPTION = Sed, met;
5548.    75Bg0274SA        LITH = Metapelite;
5549.    75Bg0274SA        FORM = Bedded;
5550.    75Bg0274SA        MINS = Qtz, Bio, Act, Garn, Musc;
5551.    75Bg0274SA        TEXTURE = Phyllitic-schistose;
5552.    75Bg0274SA        CONDITION = Fresh;
5553.    75Bg0274SA        REMARKS = Garn, Act not confirmed.;
5554.    75Bg0274SA
5555.    75Bg0274T   TEXT = Schistose metapelite.  Certain layers contain garnet metacrysts to 1 cm--others contain alined
5556.    75Bg0274T          Act? metacrysts to 1 cm long.  Still others are coarse garbenschiefer (Act-Musc-Garn sch).
5557.    75Bg0274T          Muscovite schist seems more abndnt than other metapelite on e. shore of Carroll Inlet.
5558.    75Bg0274T          10 meter zone of tan-rusty-wx Qtz mica sch might be schistose "sill".
5559.    75Bg0274T          Qtz vns--some cross fol.;
5560.    75Pg0274   ------------------------------------------------------------------------------------------------
5561.    *
5562.    75Bg0275                STATION = 75ABg0275;
5563.    75Bg0275                DATE = 8/16/75;
5564.    75Bg0275                QUAD = KC B-4;
5565.    75Bg0275                LAT = 55/25/53;
5566.    75Bg0275                LONG = 131/17/16;
5567.    75Bg0275                PURPOSE = Geol, geochem;
5568.    75Bg0275
5569.    75Bg0275    TEXT-TOPIC = Lith;
5570.    75Bg0275
5571.    75Bg0275    STRUCTURE;
5572.    75Bg0275         FOL-SCH = 288/30;
5573.    75Bg0275         OTHER-LIN = 035/15 (str);
5574.    75Bg0275         OTHER = Metagabb Dike 270/65;
5575.    75Bg0275
5576.    75Bg0275SA SAMPLE NUMBER = 75ABg0275A;
5577.    75Bg0275SA       UNIT = HMP/SMP;
5578.    75Bg0275SA       SOURCE = OTC;
5579.    75Bg0275SA       TYPE = Repres;
5580.    75Bg0275SA       PURPOSE = Hand spec, spec;
5581.    75Bg0275SA       DESCRIPTION = Sed, met;
5582.    75Bg0275SA       LITH = Metapelite;
5583.    75Bg0275SA       FORM = Layered;
5584.    75Bg0275SA       MINS = Bio, Garn, Musc;
5585.    75Bg0275SA       TEXTURE = Schistose;
5586.    75Bg0275SA       CONDITION = Alter, rusty-wx;
5587.    75Bg0275SA       REMARKS = Gx spl coll for background.  Garn, Bio not confirmed.;
5588.    75Bg0275SA
5589.    75Bg0275SA SAMPLE NUMBER = 75ABg0275B;
5590.    75Bg0275SA       UNIT = HMP/SMP;
5591.    75Bg0275SA       SOURCE = OTC;
5592.    75Bg0275SA       TYPE = Repres;
5593.    75Bg0275SA       PURPOSE = Hand spec;
5594.    75Bg0275SA       DESCRIPTION = Intr;
5595.    75Bg0275SA       LITH = Metagabbro;
5596.    75Bg0275SA       FORM = Pluton (dike?);
5597.    75Bg0275SA       MINS = Plag, Px, Act;
5598.    75Bg0275SA       TEXTURE = Wkly fol;
5599.    75Bg0275SA       CONDITION = Fresh;
5600.    75Bg0275SA
5601.    75Bg0275T   TEXT = Hardened and schistose, loc rsty-wx, metapelite and dark green pyroxene-act-plag rock that looks
5602.    75Bg0275T          like metagabbro or HO metadiorite.  Could be nearly concordant dike or less? likely, mafic
5603.    75Bg0275T          metavolcanic (compare with 75ABg270).  Some layers of metapel cont Garn metaxts to 1/2 cm.
5604.    75Bg0275T          Some musc-rich-sch.
5605.    75Bg0275T          Qtz vns para fol.;
```

```
5606.   75Bg0275  ----------------------------------------------------------------------------------------
5607.   #
5608.   75Bg0276              STATION = 75ABg0276;
5609.   75Bg0276              DATE = 8/17/75;
5610.   75Bg0276              QUAD = KC B-4;
5611.   75Bg0276              LAT = 55/26/44;
5612.   75Bg0276              LONG = 131/17/27;
5613.   75Bg0276              PURPOSE = Geol;
5614.   75Bg0276
5615.   75Bg0276   TEXT-TOPIC = Lith;
5616.   75Bg0276
5617.   75Bg0276   STRUCTURE;
5618.   75Bg0276        FOL-SCH = 336/20;
5619.   75Bg0276        OTHER-LIN = 40/15 (str);
5620.   75Bg0276
5621.   75Bg0276SA SAMPLE NUMBER = 75ABg0276A;
5622.   75Bg0276SA      UNIT = HMP;
5623.   75Bg0276SA      SOURCE = OTC;
5624.   75Bg0276SA      TYPE = Repres;
5625.   75Bg0276SA      PURPOSE = Hand spec, T. S.;
5626.   75Bg0276SA      DESCRIPTION = Sed, met;
5627.   75Bg0276SA      LITH = Metapelite;
5628.   75Bg0276SA      FORM = Bedded;
5629.   75Bg0276SA      MINS = Qtz, Plag, Bio, Garn;
5630.   75Bg0276SA      TEXTURE = Schistose;
5631.   75Bg0276SA      CONDITION = Fresh;
5632.   75Bg0276SA
5633.   75Bg0276T  TEXT = Hardened metapelite.  Tiny Garn metaxts.  Qtz vns, lenses, para fol.  Protolith = thinly interb
5634.   75Bg0276T        (laminated) sltstn, mlstn, minor Calc sltstn.
5635.   75Bg0276T        Rocks betw 275 and 276 are mostly rsty-wx metapelite.  There is much QDio or GDio in talus but
5636.   75Bg0276T        little in otcp.;
5637.   75Bg0276T        For about 1/8 mile n. of 276, beach consists largely of dk brown basaltic volcanic ash, prob
5638.   75Bg0276T        derived from nearby Quaternary volcanoes such as Painted Peak.  See no basaltic rocks,
5639.   75Bg0276T        otcp or float.;
5640.   75Bg0276  ----------------------------------------------------------------------------------------
5641.   #
5642.   75Bg0277              STATION = 75ABg0277;
5643.   75Bg0277              DATE = 8/17/75;
5644.   75Bg0277              QUAD = KC B-4;
5645.   75Bg0277              LAT = 55/27/20;
5646.   75Bg0277              LONG = 131/17/26;
5647.   75Bg0277              PURPOSE = Geol, geochem;
5648.   75Bg0277
5649.   75Bg0277   TEXT-TOPIC = Lith;
5650.   75Bg0277
5651.   75Bg0277   STRUCTURE:
5652.   75Bg0277        FOL-SCH = 290/30 (HMP);
5653.   75Bg0277        JOINT = 090/80 (alteration);
5654.   75Bg0277        OTHER = GDio sills 290/20;
5655.   75Bg0277
5656.   75Bg0277SA SAMPLE NUMBER = 75ABg0277A;
5657.   75Bg0277SA      UNIT = GDio;
5658.   75Bg0277SA      SOURCE = OTC;
5659.   75Bg0277SA      TYPE = Repres;
5660.   75Bg0277SA      PURPOSE = Hand spec, spec;
5661.   75Bg0277SA      DESCRIPTION = Intr;
5662.   75Bg0277SA      LITH = GDio;
5663.   75Bg0277SA      MINS = Qtz, Plag, Bio;
5664.   75Bg0277SA      TEXTURE = Porphyritic;
5665.   75Bg0277SA      CONDITION = Fresh;
5666.   75Bg0277SA      REMARKS = Gx spl coll for background;
```

```
5667.    75Bg0277SA
5668.    75Bg0277SA SAMPLE NUMBER = 75ABg0277B;
5669.    75Bg0277SA      UNIT = GDio;
5670.    75Bg0277SA      SOURCE = OTC;
5671.    75Bg0277SA      TYPE = Repres;
5672.    75Bg0277SA      PURPOSE = Hand spec, spec;
5673.    75Bg0277SA      DESCRIPTION = Intr;
5674.    75Bg0277SA      LITH = GDio;
5675.    75Bg0277SA      MINS = Qtz, Plag;
5676.    75Bg0277SA      TEXTURE = Aphanitic;
5677.    75Bg0277SA      CONDITION = Fresh;
5678.    75Bg0277SA      REMARKS = Gx spl coll for background.;
5679.    75Bg0277SA
5680.    75Bg0277T  TEXT = Feldspar porphyritic and microgranular granodiorite and minor hardened metapelite.
5681.    75Bg0277T        In part, the GDio forms tabular, semiconcordant dikes with intervening slivers of metapelite.
5682.    75Bg0277T        An interesting feat is that the fol in meta is undisturbed and continuous from sliver to sliver,
5683.    75Bg0277T        regardless of their size.  What kind of intrusive mechanism can acct for this?
5684.    75Bg0277T        Ctcts are sharp--see no chilled borders in GDio and meta is no more hardened or altered at ctct
5685.    75Bg0277T        than it is distant from it.
5686.    75Bg0277T        GDio is altd and finer-grained (aphan) along joints.
5687.    75Bg0277T        Qtz veins to 1 m thick.;
5688.    75Bg0277  ----------------------------------------------------------------------------------------------
5689.    #
5690.    75Bg0278            STATION = 75ABg0278;
5691.    75Bg0278            DATE = 8/17/75;
5692.    75Bg0278            QUAD = KC B-4;
5693.    75Bg0278            LAT = 55/27/52;
5694.    75Bg0278            LONG = 131/17/35;
5695.    75Bg0278            PURPOSE = Geol;
5696.    75Bg0278
5697.    75Bg0278   TEXT-TOPIC = Lith;
5698.    75Bg0278
5699.    75Bg0278   STRUCTURE;
5700.    75Bg0278        JOINT = 170/75;
5701.    75Bg0278
5702.    75Bg0278SA SAMPLE NUMBER = 75ABg0278A;
5703.    75Bg0278SA      UNIT = GDio;
5704.    75Bg0278SA      SOURCE = OTC;
5705.    75Bg0278SA      TYPE = Repres;
5706.    75Bg0278SA      PURPOSE = Hand spec;
5707.    75Bg0278SA      DESCRIPTION = Intr;
5708.    75Bg0278SA      LITH = GDio;
5709.    75Bg0278SA      FORM = Pluton;
5710.    75Bg0278SA      MINS = Qtz, Plag, Bio;
5711.    75Bg0278SA      TEXTURE = Hypid gran-to fol;
5712.    75Bg0278SA      CONDITION = Fresh;
5713.    75Bg0278SA
5714.    75Bg0278T  TEXT = Nonporp GDio cont sparse rounded inclusions, poss of assim country rk.  Cut by a few Qtz and
5715.    75Bg0278T        qz+pc peg? vns.  GDio at s. tip of island is sheared/milled.  A few meters n. of station,
5716.    75Bg0278T        plut contains several subparallel xenoliths a m or so wide of metapelite.;
5717.    75Bg0278  ----------------------------------------------------------------------------------------------
5718.    #
5719.    75Bg0279            STATION = 75ABg0279;
5720.    75Bg0279            DATE = 8/17/75;
5721.    75Bg0279            QUAD = KC B-4;
5722.    75Bg0279            LAT = 55/28/23;
5723.    75Bg0279            LONG = 131/17/40;
5724.    75Bg0279            PURPOSE = Geol, geochem;
5725.    75Bg0279
5726.    75Bg0279   TEXT-TOPIC = Lith;
5727.    75Bg0279
```

```
5728.   75Bg0279   STRUCTURE:
5729.   75Bg0279        FOL-SCH = 347/80;
5730.   75Bg0279        JOINT = 075/65;
5731.   75Bg0279        JOINT = 055/30;
5732.   75Bg0279        FAULT-SHEAR = 305/65 (100 m S. of station);
5733.   75Bg0279
5734.   75Bg0279SA SAMPLE NUMBER = 75ABg0279A;
5735.   75Bg0279SA      UNIT = SMV;
5736.   75Bg0279SA      SOURCE = OTC;
5737.   75Bg0279SA      TYPE = Repres;
5738.   75Bg0279SA      PURPOSE = Hand spec, T. S., Spec;
5739.   75Bg0279SA      DESCRIPTION = Extr, met;
5740.   75Bg0279SA      LITH = Amphibole schist;
5741.   75Bg0279SA      MINS = Plag, Hbl, Ep/Clz;
5742.   75Bg0279SA      TEXTURE = Schistose;
5743.   75Bg0279SA      CONDITION = Fresh;
5744.   75Bg0279SA      REMARKS = Gx spl coll for background.;
5745.   75Bg0279SA
5746.   75Bg0279T  TEXT = Dk green med grain amphibole-plag schist (subamphibolite) that prob is derived from mafic
5747.   75Bg0279T        volcanic protolith.  From attitude of fol, there may be struct discont betw this unit and
5748.   75Bg0279T        hardened metapelite to south.  100 m S. of station the two rk types are sep by a flt--
5749.   75Bg0279T        fol in both units is parallel to flt.  Displ of flt not known, but it appears to be the ctct
5750.   75Bg0279T        betw hardened phyll & fine schist to s. and coarse schist to n. (= Buddingtons ph/sph ctct).
5751.   75Bg0279T        Qtz vns esp nr flt zone s. of station.;
5752.   75Bg0279  ----------------------------------------------------------------------------------------------
5753.   *
5754.   75Bg0280            STATION = 75ABg0280;
5755.   75Bg0280            DATE = 8/17/75;
5756.   75Bg0280            QUAD = KC B-4;
5757.   75Bg0280            LAT = 55/28/40;
5758.   75Bg0280            LONG = 131/17/53;
5759.   75Bg0280            PURPOSE = Geol;
5760.   75Bg0280
5761.   75Bg0280   TEXT-TOPIC = Lith, foss;
5762.   75Bg0280
5763.   75Bg0280   STRUCTURE:
5764.   75Bg0280        FOL-SCH = 338/65;
5765.   75Bg0280        OTHER = Dikes 060/v (average);
5766.   75Bg0280
5767.   75Bg0280SA SAMPLE NUMBER = 75ABg0280A;
5768.   75Bg0280SA      UNIT = Pzm;
5769.   75Bg0280SA      SOURCE = OTC;
5770.   75Bg0280SA      TYPE = Repres;
5771.   75Bg0280SA      PURPOSE = Hand spec, foss deter;
5772.   75Bg0280SA      DESCRIPTION = Sed, met;
5773.   75Bg0280SA      LITH = Marble;
5774.   75Bg0280SA      FORM = Bed;
5775.   75Bg0280SA      MINS = Qtz, Carb;
5776.   75Bg0280SA      TEXTURE = Sugary;
5777.   75Bg0280SA      CONDITION = Fresh;
5778.   75Bg0280SA      REMARKS = Contains crinoid stem, discs.;
5779.   75Bg0280SA
5780.   75Bg0280SA SAMPLE NUMBER = 75ABg0280B;
5781.   75Bg0280SA      UNIT = SMSV;
5782.   75Bg0280SA      SOURCE = OTC;
5783.   75Bg0280SA      TYPE = Repres;
5784.   75Bg0280SA      PURPOSE = Hand spec, T. S;
5785.   75Bg0280SA      DESCRIPTION = Sed, met;
5786.   75Bg0280SA      LITH = Metavolc?;
5787.   75Bg0280SA      FORM = Bed;
5788.   75Bg0280SA      MINS = Bio, Act, Garn, Musc;
```

```
5789.    75Bg0280SA        TEXTURE = Schistose;
5790.    75Bg0280SA        CONDITION = Fresh;
5791.    75Bg0280SA
5792.    75Bg0280SA  SAMPLE NUMBER = 75ABg0280C;
5793.    75Bg0280SA        UNIT = SMSV;
5794.    75Bg0280SA        SOURCE = OTC;
5795.    75Bg0280SA        TYPE = Repres;
5796.    75Bg0280SA        PURPOSE = Hand spec;
5797.    75Bg0280SA        DESCRIPTION = Intr;
5798.    75Bg0280SA        LITH = Lamprophyre or basalt;
5799.    75Bg0280SA        FORM = Dike;
5800.    75Bg0280SA        TEXTURE = Aphan;
5801.    75Bg0280SA        CONDITION = Fresh;
5802.    75Bg0280SA
5810.    75Bg0280SA  SAMPLE NUMBER = 75ABg0280D;
5811.    75Bg0280SA        UNIT = SMSV;
5812.    75Bg0280SA        SOURCE = OTC;
5813.    75Bg0280SA        TYPE = Repres;
5814.    75Bg0280SA        PURPOSE = Hand spec, T. S.;
5815.    75Bg0280SA        DESCRIPTION = Sed, Met;
5816.    75Bg0280SA        LITH = Metased;
5817.    75Bg0280SA        MINS = Qtz, Hbl, Garn, Musc;
5818.    75Bg0280SA        TEXTURE = Schistose;
5819.    75Bg0280SA        CONDITION = Fresh;
5820.    75Bg0280SA        REMARKS = Spl Coll abt 50 m. n. of station.;
5821.    75Bg0280SA
5822.    75Bg0280T   TEXT = Coarse HO (or ACI)-MU-GA schist and crinoidal marble cut by a swarm of subparallel mafic dikes.
5823.    75Bg0280T          The dikes are slightly sinuous, zoned from chilled borders to rel crs cores, and average about
5824.    75Bg0280T          15-20 cm thick.
5825.    75Bg0280T                 The schist does not seem any different adj to dikes, and they probably post-date the metamorphism.

5826.    75Bg0280T          Dikes prob rel to lamprophyre dike swarms of CRB.;
5827.    75Bg0280           ----------------------------------------------------------------------------------------------
5828.    *
5829.    75Bg0281               STATION = 75ABg0281;
5830.    75Bg0281               DATE = 8/17/75;
5831.    75Bg0281               QUAD = KC B-4;
5832.    75Bg0281               LAT = 55/29/02;
5833.    75Bg0281               LONG = 131/18/01;
5834.    75Bg0281               PURPOSE = Geol, geochem;
5835.    75Bg0281
5836.    75Bg0281    TEXT-TOPIC = Lith, metamorphic petrol.;
5837.    75Bg0281
5838.    75Bg0281    STRUCTURE;
5839.    75Bg0281          FOL-SCH = 385/v;
5840.    75Bg0281          OTHER = Dikes 385/v;
5841.    75Bg0281
5842.    75Bg0281SA  SAMPLE NUMBER = 75ABg0281A;
5843.    75Bg0281SA        UNIT = SMV;
5844.    75Bg0281SA        SOURCE = OTC;
5845.    75Bg0281SA        TYPE = Repres;
5846.    75Bg0281SA        PURPOSE = Hand spec, spec;
5847.    75Bg0281SA        DESCRIPTION = Extr, met;
5848.    75Bg0281SA        LITH = Metavolcanic;
5849.    75Bg0281SA        MINS = Hbl, Bio, Chl, Ep/Clz;
5850.    75Bg0281SA        TEXTURE = Schistose;
5851.    75Bg0281SA        CONDITION = Fresh;
5852.    75Bg0281SA        REMARKS = Gx spl coll for background;
5853.    75Bg0281SA
5854.    75Bg0281SA  SAMPLE NUMBER = 75ABg0281B;
5855.    75Bg0291SA        UNIT = SMV;
```

```
75Bg0281SA        SOURCE = OTC;
75Bg0281SA        TYPE = Repres;
75Bg0281SA        PURPOSE = Rand spec, spec;
75Bg0281SA        DESCRIPTION = Intr;
75Bg0281SA        LITH = Granodio;
75Bg0281SA        FORM = Dike;
75Bg0281SA        MINS = Qtz, Plag, Bio, Garn;
75Bg0281SA        TEXTURE = Porphyritic;
75Bg0281SA        CONDITION = Fresh;
75Bg0281SA        REMARKS = Gx spl coll for background;
75Bg0281SA
75Bg0281T   TEXT = Dark green HO-BI schist (subamphibolite) intruded by numerous subparallel dikes of fspr-porphytc
75Bg0281T          Ga-bearing GDio.
75Bg0281T          The Hbl schist is thinly laminated and studded w/ Hbl metaxts to 2 cm in diam.  Coarse schist
75Bg0281T          alternates w/ layers of fine schist.  Dikes are virt. concordant, tabular, 20 cm to > 1 m thick.
75Bg0281T          From abt 50 meters n of sta 280 rx have been dk green and subord tan to rusty-wx schists prob
75Bg0281T          derived mainly from intermed to mafic volcanic rocks.  According to our system of lithol
75Bg0281T          abbrevns, unit is mapped as SMV (schistose metavolcanic rocks).
75Bg0281T          The amphibole in the schist has 2 habits:  stubby-equant crystals to a cm or so that weath in
75Bg0281T          relief, and single crystals to clusters of radiatiating needlelike prisms that lie in the fol.
75Bg0281T          Are these 2 gens of met HO, or due to orig comp or textural inhomogeneity (such as femag pxts)?;
75Bg0281   ------------------------------------------------------------------------------------------------------
*
75Bg0282                STATION = 75ABg0282;
75Bg0282                DATE = 8/17/75;
75Bg0282                QUAD = KC B-4;
75Bg0282                LAT = 55/29/02;
75Bg0282                LONG = 131/17/59;
75Bg0282                PURPOSE = Geol;
75Bg0282
75Bg0282    TEXT-TOPIC = Lith;
75Bg0282
75Bg0282    STRUCTURE;
75Bg0282          FOL-SCH = 190/70;
75Bg0282
75Bg0282SA  SAMPLE NUMBER = 75ABg0282A;
75Bg0282SA        UNIT = SMP;
75Bg0282SA        SOURCE = OTC;
75Bg0282SA        TYPE = Repres;
75Bg0282SA        PURPOSE = T. S.;
75Bg0282SA        DESCRIPTION = Sed, met;
75Bg0282SA        LITH = Metapelite;
75Bg0282SA        MINS = Qtz, Plag, Bio, Act, Garn;
75Bg0282SA        TEXTURE = Schistose;
75Bg0282SA        CONDITION = Fresh;
75Bg0282SA
75Bg0282SA  SAMPLE NUMBER = 75ABg0282B;
75Bg0282SA        UNIT = SMP;
75Bg0282SA        SOURCE = OTC;
75Bg0282SA        TYPE = Repres;
75Bg0282SA        PURPOSE = T. S.;
75Bg0282SA        DESCRIPTION = Sed, met;
75Bg0282SA        LITH = Metapelite;
75Bg0282SA        MINS = Qtz, Plag, Bio, Garn;
75Bg0282SA        TEXTURE = Schistose;
75Bg0282SA        CONDITION = Fresh;
75Bg0282SA
75Bg0282T   TEXT = Schistose metapelite about 30 meters east of GDio plut ctct.
75Bg0282T          Station estab to spl pelitic ctry rx for meta facies.
75Bg0282T          Metapel contains thin layers (laminae) of brn weath carb, and a few qz-carb veins.
75Bg0282T          Structural attitudes indic that metapelite unit (SMP) lies inland of metavolc unit (SMV) of
```

```
5917.    75Bg0282T        station 281.;
5918.    75Bg0282  ----------------------------------------------------------------------------------------
5919.    *
5920.    75Bg0283              STATION = 75ABg0283;
5921.    75Bg0283              DATE = 8/17/75;
5922.    75Bg0283              QUAD = KC B-4;
5923.    75Bg0283              LAT = 55/29/40;
5924.    75Bg0283              LONG = 131/18/01;
5925.    75Bg0283              PURPOSE = Geol;
5926.    75Bg0283
5927.    75Bg0283   TEXT-TOPIC = Lith;
5928.    75Bg0283
5929.    75Bg0283   STRUCTURE;
5930.    75Bg0283        FOL-SCH = 185/v;
5931.    75Bg0283        OTHER = Sills 185/v;
5932.    75Bg0283
5933.    75Bg0283SA SAMPLE NUMBER = 75ABg0283A;
5934.    75Bg0283SA      UNIT = SMP;
5935.    75Bg0283SA      SOURCE = OTC;
5936.    75Bg0283SA      TYPE = Repres;
5937.    75Bg0283SA      PURPOSE = Hand spec, T. S.;
5938.    75Bg0283SA      DESCRIPTION = Sed, met;
5939.    75Bg0283SA      LITH = Metapelite;
5940.    75Bg0283SA      MINS = Qtz, Plag, Bio;
5941.    75Bg0283SA      TEXTURE = Schist;
5942.    75Bg0283SA      CONDITION = Fresh;
5943.    75Bg0283SA      REMARKS = Hand specimen cons of metapel + Qtz vein--TS has a few Qtz stringers.;
5944.    75Bg0283SA
5945.    75Bg0283SA SAMPLE NUMBER = 75ABg0283B;
5946.    75Bg0283SA      UNIT = GDio;
5947.    75Bg0283SA      SOURCE = OTC;
5948.    75Bg0283SA      TYPE = Repres;
5949.    75Bg0283SA      PURPOSE = Hand spec, T. S.;
5950.    75Bg0283SA      DESCRIPTION = Intr;
5951.    75Bg0283SA      LITH = Granodio;
5952.    75Bg0283SA      FORM = 20 cm sill;
5953.    75Bg0283SA      MINS = Qtz, Plag, Bio, Garn;
5954.    75Bg0283SA      TEXTURE = Schistose, poss relict fspr-porphyritic;
5955.    75Bg0283SA      CONDITION = Fresh;
5955.1   75Bg0283SA      REMARKS = TS: Prob rexld cataclasite.  Spongy Garn.  Zoned Plag relict phenos;
5956.    75Bg0283SA
5957.    75Bg0283T  TEXT = Schistose metapelite and subparallel GDio concordant dikes and sills, some of which are schistose.
5958.    75Bg0283T        Foln in meta and sills are parallel. Sil sampled for TS contains garnet and seems to be relict
5959.    75Bg0283T        feldspar porphyritic.  Fldspr phenos, however, are nearly entirely destroyed by met.;
5960.    75Bg0283  ----------------------------------------------------------------------------------------
5961.    *
5962.    75Bg0284              STATION = 75ABg0284;
5963.    75Bg0284              DATE = 8/17/75;
5964.    75Bg0284              QUAD = KC C-4;
5965.    75Bg0284              LAT = 55/30/12;
5966.    75Bg0284              LONG = 131/18/29;
5967.    75Bg0284              PURPOSE = Geol, geochem;
5968.    75Bg0284
5969.    75Bg0284   TEXT-TOPIC = Lith;
5970.    75Bg0284
5971.    75Bg0284   STRUCTURE;
5972.    75Bg0284        JOINT = 350/v;
5973.    75Bg0284        JOINT = 265/70;
5974.    75Bg0284
5975.    75Bg0284SA SAMPLE NUMBER = 75ABg0284A;
5976.    75Bg0284SA      UNIT = CMonz;
```

```
5977.    75Bg0284SA      PURPOSE = Hand spec, spec;
5978.    75Bg0284SA      DESCRIPTION = Intr;
5979.    75Bg0284SA      LITH = Qtz Monzonite;
5980.    75Bg0284SA      FORM = Pluton;
5981.    75Bg0284SA      MINS = Qtz, Plag, Bio;
5982.    75Bg0284SA      TEXTURE = Hyp gran;
5983.    75Bg0284SA      CONDITION = Fresh;
5984.    75Bg0284SA      REMARKS = Gx spl coll for background.;
5985.    75Bg0284SA
5986.    75Bg0284T  TEXT = Homogeneous light ylsh gy wx Qtz monz.  Rk is med hyp gran, loc wkly Fspr porp.
5987.    75Bg0284T        There is a vy faint planar struct para 350/v joint set that might be foliation, but rk seems
5988.    75Bg0284T        unmetamorphd.
5989.    75Bg0284T        Weath surfs dotted w/ circular rusty spots, indicative of weath sulfides, prob Py.
5990.    75Bg0284T        See no meta inclns or xenos at sta, but they do occur in pluton at intervals of about 100 metars
5991.    75Bg0284T        or so along shoreline.  They weath rusty and appear to be mainly metapel.  Most are only a few metres square.

5992.    75Bg0284T        Float at mouth of Marble Creek does not contain much QMonz, so I assume it does not occur in
5993.    75Bg0284T        significant amts in that drainage.;
5994.    75Bg0284  ----------------------------------------------------------------------------------------------
5995.    *
5996.    75Bg0285             STATION = 75ABg0285;
5997.    75Bg0285             DATE = 8/17/75;
5998.    75Bg0285             QUAD = KC C-4;
5999.    75Bg0285             LAT = 55/30/50;
6000.    75Bg0285             LONG = 131/18/40;
6001.    75Bg0285             PURPOSE = Geol, geochem;
6002.    75Bg0285
6003.    75Bg0285   TEXT-TOPIC = Lith, metamorphism;
6004.    75Bg0285
6005.    75Bg0285   STRUCTURE;
6006.    75Bg0285        FOL-SCH = 160/v;
6007.    75Bg0285        JOINT = 280/75;
6008.    75Bg0285
6009.    75Bg0285SA SAMPLE NUMBER = 75ABg0285A;
6010.    75Bg0285SA      UNIT = HMP;
6011.    75Bg0285SA      SOURCE = OTC;
6012.    75Bg0285SA      TYPE = Repres;
6013.    75Bg0285SA      PURPOSE = Hand spec, T. S., Spec;
6014.    75Bg0285SA      DESCRIPTION = Sed, met;
6015.    75Bg0285SA      LITH = Metapelite;
6016.    75Bg0285SA      FORM = Bedded;
6017.    75Bg0285SA      MINS = Qtz, Bio, Py, Garn;
6018.    75Bg0285SA      TEXTURE = Hardened;
6019.    75Bg0285SA      CONDITION = Fresh;
6019.1   75Bg0285SA      REMARKS = TS: Fn gn Abl, Plag, Qtz, Calc, Garn sch.  NOT metapel. Garn metaxts are spongy-app postdate foln.

6020.    75Bg0285SA
6021.    75Bg0285SA SAMPLE NUMBER = 75ABg0285B;
6022.    75Bg0285SA      UNIT = QMonz;
6023.    75Bg0285SA      SOURCE = OTC;
6024.    75Bg0285SA      TYPE = Repres;
6025.    75Bg0285SA      PURPOSE = Hand spec;
6026.    75Bg0285SA      DESCRIPTION = Sed, met;
6027.    75Bg0285SA      LITH = Metapelite;
6028.    75Bg0285SA      MINS = Qtz, Plag, Bio, Garn;
6029.    75Bg0285SA      TEXTURE = Hardened-Phyllitic;
6030.    75Bg0285SA      CONDITION = Alter, rusty-wx;
6031.    75Bg0285SA      REMARKS = Spl coll from xenolith in QMonz at small point abt 3/4 mi s. of station.;
6032.    75Bg0285SA
6033.    75Bg0285T  TEXT = Hardened, not schistose, metapelite.  Met texture, and poss minlgy, of unit at this station seems to
6034.    75Bg0285T        contrast markedly with that in metapelite at and south of Marble Creek, but see T.S. description below.
```

```
75Bg0285T        Meta xenoliths in QM pluton n. of Marble Creek also are hardened metapelite (spl 285B).
75Bg0285T        T.S. shows no sig diff in met style and grade between 285A and 283A.  Only difference I
75Bg0285T        can see is compositional.;
75Bg0285 ----------------------------------------------------------------------------------------------
*
75Bg0286              STATION = 75ABg0286;
75Bg0286              DATE = 8/17/75;
75Bg0286              QUAD = KC C-4;
75Bg0286              LAT = 55/31/27;
75Bg0286              LONG = 131/19/05;
75Bg0286              PURPOSE = Geol;
75Bg0286
75Bg0286   TEXT-TOPIC = Lith;
75Bg0286
75Bg0286   STRUCTURE;
75Bg0286        FOL-SCH = 342/v (doubtful);
75Bg0286        JOINT = 318/v;
75Bg0286        JOINT = 250/70;
75Bg0286
75Bg0286SA SAMPLE NUMBER = 75ABg0286A;
75Bg0286SA      UNIT = QDio;
75Bg0286SA      SOURCE = OTC;
75Bg0286SA      TYPE = Repres;
75Bg0286SA      PURPOSE = Hand spec;
75Bg0286SA      DESCRIPTION = Intr;
75Bg0286SA      LITH = Qtz Dio;
75Bg0286SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
75Bg0286SA      TEXTURE = Porphyritic;
75Bg0286SA      CONDITION = Fresh;
75Bg0286SA
75Bg0286T  TEXT = GA-bearing feldspar-porphyritic Qtz Dio.
75Bg0286T        Fldspr phenos are plag, sub-anhedral, avg abt 1 cm in diam, and make up about 10-15% of rock.
75Bg0286T        There may be vy weak fol, but almost too obscure to measure.
75Bg0286T        Sparse ellipsoidal dk inclusions to 5 or 6 cm in max dimens.;
75Bg0286 ----------------------------------------------------------------------------------------------
*
75Bg0287              STATION = 75ABg0287;
75Bg0287              DATE = 8/17/75;
75Bg0287              QUAD = KC C-4;
75Bg0287              LAT = 55/31/45;
75Bg0287              LONG = 131/19/23;
75Bg0287              PURPOSE = Geol;
75Bg0287
75Bg0287   TEXT-TOPIC = Lith;
75Bg0287
75Bg0287   STRUCTURE;
75Bg0287        FOL-SCH = 335/v;
75Bg0287        OTHER-LIN = 335/60 (M);
75Bg0287
75Bg0287SA SAMPLE NUMBER = 75ABg0287A;
75Bg0287SA      UNIT = SMVS;
75Bg0287SA      SOURCE = OTC;
75Bg0287SA      TYPE = Repres;
75Bg0287SA      PURPOSE = Hand spec;
75Bg0287SA      DESCRIPTION = Extr, met;
75Bg0287SA      LITH = Metavolcanic;
75Bg0287SA      MINS = Hbl, Bio, Py, Carb, Act, Zp/Clz;
75Bg0287SA      TEXTURE = Schistose, porphyroblastic;
75Bg0287SA      CONDITION = Fresh;
75Bg0287SA
75Bg0287T  TEXT = Intercalated dark green and tan-brown weathering schist prob der fr interbedded calc
```

```
75Bg0287T        volcanic and subordinate +- calcareous sed rx (SMVS).
75Bg0287T        Rx clsly resemble those at 280-281.
75Bg0287T        Some layers in green schist contain amphibole metacrysts to 2 or 3 cm that wx in relief.
75Bg0287T        Unit contains concordant dikes of schistose microgran or aplitic QDio or GDio.;
75Bg0287 ----------------------------------------------------------------------------------------------
#
75Bg0288             STATION = 75ABg0288;
75Bg0288             DATE = 8/17/75;
75Bg0288             QUAD = KC C-4;
75Bg0288             LAT = 55/32/09;
75Bg0288             LONG = 131/19/50;
75Bg0288             PURPOSE = Geol, geochem;
75Bg0288
75Bg0288   TEXT-TOPIC = Lith;
75Bg0288
75Bg0288   STRUCTURE;
75Bg0288        FOL-SCH = 325/v;
75Bg0288
75Bg0288SA SAMPLE NUMBER = 75ABg0288A;
75Bg0288SA      UNIT = SMSV;
75Bg0288SA      SOURCE = OTC;
75Bg0288SA      TYPE = Repres;
75Bg0288SA      PURPOSE = T. S., Spec;
75Bg0288SA      DESCRIPTION = Sed, met;
75Bg0288SA      LITH = Metapelite;
75Bg0288SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0288SA      TEXTURE = Schistose;
75Bg0288SA      CONDITION = Fresh;
75Bg0288SA      REMARKS = Gx spl coll for background.;
75Bg0288SA
75Bg0288T  TEXT = Fine grain dark greenish or olive brown wx pelitic schist containing Qz, Pc, Bi, Ho.;
75Bg0288 ----------------------------------------------------------------------------------------------
#
75Bg0289             STATION = 75ABg0289;
75Bg0289             DATE = 8/18/75;
75Bg0289             QUAD = KC C-5;
75Bg0289             LAT = 55/32/35;
75Bg0289             LONG = 131/20/05;
75Bg0289             PURPOSE = Geol, geochem;
75Bg0289
75Bg0289   TEXT-TOPIC = Lith;
75Bg0289
75Bg0289   STRUCTURE;
75Bg0289        FOL-SCH = 324/v;
75Bg0289        OTHER-LIN = 324/60 (M-HO-BI);
75Bg0289
75Bg0289SA SAMPLE NUMBER = 75ABg0289A;
75Bg0289SA      UNIT = SMVS;
75Bg0289SA      SOURCE = OTC;
75Bg0289SA      TYPE = Repres;
75Bg0289SA      PURPOSE = Hand spec, spec;
75Bg0289SA      DESCRIPTION = Extr, sed, met;
75Bg0289SA      LITH = Metavolc + metased;
75Bg0289SA      FORM = Bedded;
75Bg0289SA      MINS = Qtz, Plag, Hbl, Bio, Py, Musc;
75Bg0289SA      TEXTURE = Schistose;
75Bg0289SA      CONDITION = Fresh;
75Bg0289SA      REMARKS = 4 spls to illustr variety of rk types.  Gx spl coll for background
75Bg0289SA      REMARKS = (tan-wx pyritic fn gn qz-mu schist).;
75Bg0289SA
75Bg0289T  TEXT = Intercalated dark green, olive, and tan-wx schist cont varying props of HO, BI, MU, QZ, PC, and PY.
```

```
75Bg0289T        Dark green, Hbl rich schist seems to be most abundant.  Rx prob derived from protolith of
75Bg0289T        interbedded interm to mafic volc or volcclstc and pelitic sed rx.  From abndnce of Hbl sch,
75Bg0289T        volc prob sl more abndant than sed, at least at this otcp.;
75Bg0289 ------------------------------------------------------------------------------------------------
#
75Bg0290             STATION = 75ABg0290;
75Bg0290             DATE = 8/18/75;
75Bg0290             QUAD = KC C-5;
75Bg0290             LAT = 55/33/23;
75Bg0290             LONG = 131/20/03;
75Bg0290             PURPOSE = Geol;
75Bg0290
75Bg0290   TEXT-TOPIC = Lith, struct;
75Bg0290
75Bg0290   STRUCTURE;
75Bg0290        FOL-SCH = 055/75;
75Bg0290        FOLD-AXIS = 302/65 (+str);
75Bg0290
75Bg0290SA SAMPLE NUMBER = 75ABg0290A;
75Bg0290SA      UNIT = SMPV;
75Bg0290SA      SOURCE = OTC;
75Bg0290SA      TYPE = Repres;
75Bg0290SA      PURPOSE = Hand spec, T. S.;
75Bg0290SA      DESCRIPTION = Sed, met;
75Bg0290SA      LITH = Metapelite;
75Bg0290SA      MINS = Qtz, Plag, Hbl, Bio, Sill, Garn;
75Bg0290SA      TEXTURE = Schistose;
75Bg0290SA      CONDITION = Fresh;
75Bg0290SA      REMARKS = Sill, Hbl not conf.;
75Bg0290SA
75Bg0290SA SAMPLE NUMBER = 75ABg0290B;
75Bg0290SA      UNIT = GDio;
75Bg0290SA      SOURCE = Float;
75Bg0290SA      TYPE = Repres;
75Bg0290SA      PURPOSE = Hand spec;
75Bg0290SA      DESCRIPTION = Intr, met;
75Bg0290SA      LITH = GDio;
75Bg0290SA      FORM = Pluton;
75Bg0290SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
75Bg0290SA      TEXTURE = Fol;
75Bg0290SA      CONDITION = Fresh;
75Bg0290SA
75Bg0290T  TEXT = Intercalated schistose metapelite (Bio + Garn + Sill??) and subord metavolc (green, HO-rich), and
75Bg0290T        tan-wx light-gray coarse sugary marble.  Some of the sbe contains vy sparse circular Calc xls
75Bg0290T        1/2 to 1 cm in diam that could be rxld crinoid disks, but these are very doubtful.
75Bg0290T        Weath surfs of some of the metapelite are studded w/ Garn metaxts to 1/2 cm.
75Bg0290T        Qtz + Qz-Carb vns.
75Bg0290T        Rk on n. side of Licking Creek is foliated Ga-bearing GDio (290B).
75Bg0290T        Licking Creek evid folls ctct betw pluton and metas.  Linear NE-trending gorge sugg fault.;
75Bg0290 ------------------------------------------------------------------------------------------------
#
75Bg0291             STATION = 75ABg0291;
75Bg0291             DATE = 8/18/75;
75Bg0291             QUAD = KC C-5;
75Bg0291             LAT = 55/33/55;
75Bg0291             LONG = 131/20/07;
75Bg0291             PURPOSE = Geol, geochem;
75Bg0291
75Bg0291   TEXT-TOPIC = Lith, metamorphism;
75Bg0291
75Bg0291   STRUCTURE;
```

```
75Bg0291          FOL-SCH = 158/70;
75Bg0291          OTHER-LIN = 340/55 (M, Str);
75Bg0291
75Bg0291SA SAMPLE NUMBER = 75ABg0291A;
75Bg0291SA        UNIT = SMS;
75Bg0291SA        SOURCE = OTC;
75Bg0291SA        TYPE = Repres;
75Bg0291SA        PURPOSE = Hand spec, T. S., Spec;
75Bg0291SA        DESCRIPTION = Sed, met;
75Bg0291SA        LITH = Calcsil marble;
75Bg0291SA        FORM = 2 meter bed;
75Bg0291SA        MINS = Py, Carb, Tremolite, Musc;
75Bg0291SA        TEXTURE = Coarsely porphyroblastic;
75Bg0291SA        CONDITION = Fresh;
75Bg0291SA        REMARKS = Gx spl taken for background.;
75Bg0291SA
75Bg0291T  TEXT = Intercalated schistose metaseds and subord metavolcs and calcsilicate (tremolite) marble.
75Bg0291T         The meta rx are cut by several veins of white Qtz as much as 2 meters thick.
75Bg0291T         The marble, which I will try to map separately, is dark gray, fine grained and sugary, and
75Bg0291T         contains abund prisms and radiating clusters of trem that weath in relief.  The trem xls are
75Bg0291T         as much as 2 or 3 cm long and commonly lie in the plane of foln in mbe
75Bg0291T         (= Calc garbenschiefer).  If this met texture is due to thermal met of prev fol rx (T & V, P.458),
75Bg0291T         then latest met event almost cert is contact, not regional, metamorphism.  There is no evid
75Bg0291T         whatever for post-thermal regional met.  Also see 75Bg293.
75Bg0291T         The metavolcs weath dk green and are disting by abndnt HC.
75Bg0291T         Est lith % at otcp:  Metaseds, 50%--Mbe, 30%--Qz, 10%--Metavolcs, 10%.;
75Bg0291  ------------------------------------------------------------------------------------------
#
75Bg0292              STATION = 75ABg0292;
75Bg0292              DATE = 8/18/75;
75Bg0292              QUAD = KC C-5;
75Bg0292              LAT = 55/34/08;
75Bg0292              LONG = 131/20/19;
75Bg0292              PURPOSE = Geol, geochem;
75Bg0292
75Bg0292   TEXT-TOPIC = Lith;
75Bg0292
75Bg0292   STRUCTURE:
75Bg0292          OTHER = Ctct 205/65;
75Bg0292
75Bg0292SA SAMPLE NUMBER = 75ABg0292A;
75Bg0292SA        UNIT = HBDTE;
75Bg0292SA        SOURCE = OTC;
75Bg0292SA        TYPE = Repres;
75Bg0292SA        PURPOSE = Hand spec, spec;
75Bg0292SA        DESCRIPTION = Intr, met;
75Bg0292SA        LITH = Hornblendite;
75Bg0292SA        MINS = Hbl, Bio, Py;
75Bg0292SA        TEXTURE = Coarsely porphyroblastic;
75Bg0292SA        CONDITION = Fresh;
75Bg0292SA
75Bg0292T  TEXT = Rusty-wx dk green hornblendite cont dissem Py, Po?.
75Bg0292T         On south, it is in ctct w/ marble and poss rusty-wx metased.
75Bg0292T         Hbdte could be rexld GB, GM or least likely, mafic volcanic rk.  If intrsv, is it "Bsmt" or
75Bg0292T         contam (CaO) Coast Range Bath?
75Bg0292T         Rk is msv to loc gneissose.;
75Bg0292  ------------------------------------------------------------------------------------------
#
75Bg0293              STATION = 75ABg0293;
75Bg0293              DATE = 8/18/75;
75Bg0293              QUAD = KC C-5;
```

```
6282.     75Bg0293            LAT = 55/34/25;
6283.     75Bg0293            LONG = 131/20/16;
6283.1                        SKETCH = Thin section (293A).  Garn metacrysts showing partial retrograde met. to Chl;
6284.     75Bg0293            PURPOSE = Geol, geochem;
6285.     75Bg0293
6286.     75Bg0293   TEXT-TOPIC = Lith, metamorphism;
6287.     75Bg0293
6288.     75Bg0293   STRUCTURE;
6289.     75Bg0293        FOL-SCH = 145/75;
6290.     75Bg0293        OTHER = Contact 145/75;
6291.     75Bg0293
6292.     75Bg0293SA SAMPLE NUMBER = 75ABg0293A;
6293.     75Bg0293SA      UNIT = SMSV;
6294.     75Bg0293SA      SOURCE = OTC;
6295.     75Bg0293SA      TYPE = Repres;
6296.     75Bg0293SA      PURPOSE = Hand spec, T. S.;
6297.     75Bg0293SA      DESCRIPTION = Sed, met;
6298.     75Bg0293SA      LITH = Metased;
6299.     75Bg0293SA      FORM = Bedded;
6300.     75Bg0293SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
6301.     75Bg0293SA      TEXTURE = Idioblastic, schistose;
6302.     75Bg0293SA      CONDITION = Fresh;
6303.     75Bg0293SA      REMARKS = Spl coll w/in 1 meter of ctct w/ Q. Monz.;
6304.     75Bg0293SA
6305.     75Bg0293SA SAMPLE NUMBER = 75ABg0293B;
6306.     75Bg0293SA      UNIT = SMSV;
6307.     75Bg0293SA      SOURCE = Float;
6308.     75Bg0293SA      TYPE = Repres, Grab;
6309.     75Bg0293SA      PURPOSE = Hand spec, spec;
6310.     75Bg0293SA      DESCRIPTION = Sed, met, minlzd;
6311.     75Bg0293SA      LITH = Metamorphic rock;
6312.     75Bg0293SA      MINS = Qtz, Plag, Bio, Py;
6313.     75Bg0293SA      CONDITION = Alter, rusty-wx;
6314.     75Bg0293SA      REMARKS = Gx spl coll to test sulfide minln.;
6315.     75Bg0293SA
6316.     75Bg0293T  TEXT = Contact between metaseds on S., and leucocratic Qtz monz on N.
6317.     75Bg0293T        The metaseds at and w/in 10 or 20 meters of contact, contain garnet idioblasts about 1/2 cm in diam.
6318.     75Bg0293T        These xls almost cert overprint an earlier foliation and prob are result of thermal met by
6319.     75Bg0293T        adjacent Qtz Monz.
6320.     75Bg0293T        Metaseds adjacent to calcsil mbe are rusty wx and pyritic (293B)--the rusty zone is 10 meters or so wide

6321.     75Bg0293T        and may be in ctct w/ an apophysis of the Q.Monz pluton.
6322.     75Bg0293T        Metaseds are dk gnsh and olive gray--are rich in muscovite, but most are BI-HO-GA rock that
6323.     75Bg0293T        might be der from volc gwk.
6324.     75Bg0293T        If QM is > 45-50 m.y. old it was accomp only by thermal met that overprinted an earlier foliation,
6325.     75Bg0293T        and which apparently was latest prograde met event to affect the country rx in this area (also see 75ABg291).

6326.     75Bg0293  ----------------------------------------------------------------------------------------------
6327.     #
6328.     75Bg0295            STATION = 75ABg0295;
6329.     75Bg0295            DATE = 8/18/75;
6330.     75Bg0295            QUAD = KC C-5;
6331.     75Bg0295            LAT = 55/35/10;
6332.     75Bg0295            LONG = 131/20/34;
6333.     75Bg0295            PURPOSE = Geol;
6334.     75Bg0295   TEXT-TOPIC = Lith;
6335.     75Bg0295
6336.     75Bg0295   STRUCTURE;
6337.     75Bg0295        FOL-SCH = 145/v;
6338.     75Bg0295
6339.     75Bg0295SA SAMPLE NUMBER = 75ABg0295A;
```

```
75Bg0295SA      UNIT = SMS;
75Bg0295SA      SOURCE = Float;
75Bg0295SA      TYPE = Repres;
75Bg0295SA      PURPOSE = Hand spec;
75Bg0295SA      DESCRIPTION = Sed, met;
75Bg0295SA      LITH = Metased;
75Bg0295SA      FORM = Layered/laminated;
75Bg0295SA      MINS = Qtz, Plag, Hbl, Carb, Act, Garn, Musc;
75Bg0295SA      TEXTURE = Schistose;
75Bg0295SA      CONDITION = Fresh;
75Bg0295SA      REMARKS = Several specimens to illustrate variety of lithol in unit.;
75Bg0295SA
75Bg0295T  TEXT = Cream, silvery, and dark gray wx schist containing muscovite, qz, and varying amounts of actinolite,
75Bg0295T         garnet, plagioclase, and calcite.
75Bg0295T         The muscovite-rich schist, which adjoins calcsilicate marble on s. and rusty-wx Mu-Act-Ga
75Bg0295T         metaseds on n., forms very conspicuous outcrops.  Fine to coarse garbenschiefer is abundant.
75Bg0295T         Some of the unit is pale silver green and contains rod- or lath-shaped white-weath material
75Bg0295T         that could be relict clasts (Pumice??).
75Bg0295T         I see no calcsil mbe in stream alluvium at station, so assume that it lies
75Bg0295T         to west of mu-sch unit and does not crop out nearby upstream.;
75Bg0295  ----------------------------------------------------------------------------------------------------
#
75Bg0296            STATION = 75ABg0296;
75Bg0296            DATE = 8/18/75;
75Bg0296            QUAD = KC C-5;
75Bg0296            LAT = 55/35/21;
75Bg0296            LONG = 131/20/44;
75Bg0296            PURPOSE = Geol, geochem;
75Bg0296
75Bg0296   TEXT-TOPIC = Lith, alteration;
75Bg0296
75Bg0296   STRUCTURE;
75Bg0296        FOL-SCH = 145/75;
75Bg0296
75Bg0296SA SAMPLE NUMBER = 75ABg0296A;
75Bg0296SA      UNIT = SMS;
75Bg0296SA      SOURCE = OTC;
75Bg0296SA      TYPE = Repres;
75Bg0296SA      PURPOSE = Hand spec, spec;
75Bg0296SA      DESCRIPTION = Sed, met;
75Bg0296SA      LITH = Musco schist;
75Bg0296SA      MINS = Qtz, Bio, Act, Garn, Musc;
75Bg0296SA      CONDITION = Alter, rusty-wx;
75Bg0296SA
75Bg0296SA SAMPLE NUMBER = 75ABg0296B;
75Bg0296SA      UNIT = SMS;
75Bg0296SA      SOURCE = OTC;
75Bg0296SA      TYPE = Repres;
75Bg0296SA      PURPOSE = Hand spec, spec;
75Bg0296SA      DESCRIPTION = Sed, met;
75Bg0296SA      LITH = Coarse Hbl schist;
75Bg0296SA      MINS = Hbl, Act, Musc;
75Bg0296SA      CONDITION = Alter, rusty-wx;
75Bg0296SA
75Bg0296T  TEXT = Rust-and cream-wx Mu, Mu-Act, and Act-Ho schist (in est ord of abndnce).  Some of the Act-HO
75Bg0296T         sch is very coarse (xls to 2-3 cm long) garbenschiefer and amphibolite.
75Bg0296T         Station estab mainly to spl rusty-wx zones for gx.
75Bg0296T         Despite intense Fe-ox alteration, rx do not seem partic rich in sulfide.  In this respect, they
75Bg0296T         remind me of altered zones in GPWSA.  I wonder how much, if any, of the muscovite schist is
75Bg0296T         "bleached" and possibly silicified rock that formerly was rich in biotite??;
75Bg0296  ----------------------------------------------------------------------------------------------------
```

```
6401.   #
6402.   75Bg0297            STATION = 75ABg0297;
6403.   75Bg0297            DATE = 8/18/75;
6404.   75Bg0297            QUAD = KC C-5;
6405.   75Bg0297            LAT = 55/35/24;
6406.   75Bg0297            LONG = 131/20/42;
6407.   75Bg0297            PURPOSE = Geol;
6408.   75Bg0297
6409.   75Bg0297   TEXT-TOPIC = Lith, strat, foss;
6410.   75Bg0297
6411.   75Bg0297   PHOTOS = 3 Kodas of coarse garbenschiefer abt 100 m. n. of station;
6412.   75Bg0297
6413.   75Bg0297   STRUCTURE;
6414.   75Bg0297        FOL-SCH = 145/75;
6415.   75Bg0297        FAULT-SHEAR = 065 ?;
6416.   75Bg0297
6417.   75Bg0297SA SAMPLE NUMBER = 75ABg0297A;
6418.   75Bg0297SA      UNIT = Pzm;
6419.   75Bg0297SA      SOURCE = Float;
6420.   75Bg0297SA      TYPE = Repres;
6421.   75Bg0297SA      PURPOSE = Hand spec, T. S., Foss deter;
6422.   75Bg0297SA      DESCRIPTION = Sed, met;
6423.   75Bg0297SA      LITH = Crinoidal marble;
6424.   75Bg0297SA      FORM = Bedded/brecciated;
6425.   75Bg0297SA      MINS = Qtz, Carb, Wo or trem;
6426.   75Bg0297SA      TEXTURE = Sugary;
6427.   75Bg0297SA      CONDITION = Fresh;
6428.   75Bg0297SA
6429.   75Bg0297SA SAMPLE NUMBER = 75ABg0297B;
6430.   75Bg0297SA      UNIT = Pzm;
6431.   75Bg0297SA      SOURCE = Float;
6432.   75Bg0297SA      TYPE = Repres;
6433.   75Bg0297SA      PURPOSE = Hand spec;
6434.   75Bg0297SA      LITH = Wo or Trem;
6435.   75Bg0297SA      FORM = Vein;
6436.   75Bg0297SA      MINS = Wo or trem;
6437.   75Bg0297SA      TEXTURE = Coarse prismatic;
6438.   75Bg0297SA      CONDITION = Fresh;
6439.   75Bg0297SA
6440.   75Bg0297T  TEXT = Brecciated, wollastonite (Wo) or tremolite-bearing sandy marble containing sparse, but recognizable
6441.   75Bg0297T       crinoid columnals.
6442.   75Bg0297T       The marble is fetid, weathers mottled tan and gray, and in places comprises at least 50% Wo.
6443.   75Bg0297T       The brecciation prob is rslt of fltg, but I cannot see a fault zone to map.  Some of the bx zones
6444.   75Bg0297T       trend 065.
6445.   75Bg0297T       Bx n. of station include musco, musco-Act-Ga schist, and very coarse garbenschiefer cont Act xls
6446.   75Bg0297T       to 20 cm long and Garn xls to 3 cm in diam.  3 photos of this spectacular rock.;
6447.   75Bg0297  ----------------------------------------------------------------------------------------------
6448.   #
6449.   75Bg0298            STATION = 75ABg0298;
6450.   75Bg0298            DATE = 8/18/75;
6451.   75Bg0298            QUAD = KC C-5;
6452.   75Bg0298            LAT = 55/35/40;
6453.   75Bg0298            LONG = 131/20/46;
6454.   75Bg0298            PURPOSE = Geol;
6455.   75Bg0298
6456.   75Bg0298   TEXT-TOPIC = Lith;
6457.   75Bg0298
6458.   75Bg0298   STRUCTURE;
6459.   75Bg0298        FOL-SCH = 158/75 (In country rx and leuco aplite dike);
6460.   75Bg0298        OTHER = 140/v;
6461.   75Bg0298
```

```
6462.     75Bg0298SA SAMPLE NUMBER = 75ABg0298A;
6463.     75Bg0298SA      UNIT = SMS;
6464.     75Bg0298SA      SOURCE = OTC;
6465.     75Bg0298SA      TYPE = Repres;
6466.     75Bg0298SA      PURPOSE = Hand spec, T. S.;
6467.     75Bg0298SA      DESCRIPTION = Intr, met;
6468.     75Bg0298SA      LITH = Leucoaplite;
6469.     75Bg0298SA      FORM = Dike 3 meters wide;
6470.     75Bg0298SA      MINS = Qtz, Plag, Garn;
6471.     75Bg0298SA      TEXTURE = Schistose;
6472.     75Bg0298SA      CONDITION = Fresh;
6472.1    75Bg0298SA      REMARKS = Thin section shows poikiloblastic calcite;
6473.     75Bg0298SA
6474.     75Bg0298SA SAMPLE NUMBER = 75ABg0298B;
6475.     75Bg0298SA      UNIT = SMS;
6476.     75Bg0298SA      SOURCE = OTC;
6477.     75Bg0298SA      TYPE = Repres;
6478.     75Bg0298SA      PURPOSE = Hand spec;
6479.     75Bg0298SA      DESCRIPTION = Sed, met;
6480.     75Bg0298SA      LITH = Metased;
6481.     75Bg0298SA      FORM = Bedded;
6482.     75Bg0298SA      MINS = Qtz, Plag, Hbl, Bio, Garn;
6483.     75Bg0298SA      TEXTURE = Schistose;
6484.     75Bg0298SA      CONDITION = Fresh;
6485.     75Bg0298SA      REMARKS = Spl coll abt 100 m. n. of station.;
6486.     75Bg0298SA
6487.     75Bg0298T  TEXT = Light and dark gray muscovite schist and a nearly concordant light tan wx dike of schistose,
6488.     75Bg0298T        Ga-bearing leucoaplite.  The leucoaplite could easily be classified as quartzite, but sl discordncy
6489.     75Bg0298T        of ctct w/ foliation in Musc sch indicates that it is a premetamorphic
6490.     75Bg0298T        intrusive.  In addn to musco, the country rx cont Py, Ga, and Act? or Bi?
6491.     75Bg0298T        Much garbenschiefer and black phyllite in float, but see no mbe or granitic rk.;
6492.     75Bg0298  ------------------------------------------------------------------------------------------
6493.     #
6494.     75Bg0299            STATION = 75ABg0299;
6495.     75Bg0299            DATE = 8/18/75;
6496.     75Bg0299            QUAD = KC C-5;
6497.     75Bg0299            LAT = 55/35/48;
6498.     75Bg0299            LONG = 131/21/00;
6499.     75Bg0299            PURPOSE = Geol;
6500.     75Bg0299
6501.     75Bg0299   TEXT-TOPIC = Lith;
6502.     75Bg0299
6503.     75Bg0299   STRUCTURE;
6504.     75Bg0299        FOL-SCH = 220/65;
6505.     75Bg0299        OTHER-LIN = 310/45 Str. in argillite;
6506.     75Bg0299        OTHER = Ctct 175/70;
6507.     75Bg0299
6508.     75Bg0299SA SAMPLE NUMBER = 75ABg0299A;
6509.     75Bg0299SA      UNIT = SMS + HMP;
6510.     75Bg0299SA      SOURCE = OTC;
6511.     75Bg0299SA      TYPE = Repres;
6512.     75Bg0299SA      PURPOSE = Hand spec;
6513.     75Bg0299SA      DESCRIPTION = Sed, met;
6514.     75Bg0299SA      LITH = Argillite;
6515.     75Bg0299SA      MINS = Py, Musc;
6516.     75Bg0299SA      TEXTURE = Phyllitic, hardened;
6517.     75Bg0299SA      CONDITION = Fresh;
6518.     75Bg0299SA
6519.     75Bg0299SA SAMPLE NUMBER = 75ABg0299B;
6520.     75Bg0299SA      UNIT = Qtz Monz;
6521.     75Bg0299SA      SOURCE = OTC;
```

```
75Bg0299SA      TYPE = Repres;
75Bg0299SA      PURPOSE = Hand spec;
75Bg0299SA      DESCRIPTION = Intr;
75Bg0299SA      LITH = Qtz Monz;
75Bg0299SA      FORM = Pluton;
75Bg0299SA      MINS = Qtz, Plag, Bio, Chl, Musc;
75Bg0299SA      TEXTURE = Microgranular;
75Bg0299SA      CONDITION = Fresh;
75Bg0299SA
75Bg0299T  TEXT = Contact betw microgranular Qtz monzonite and a sequence of (from ctct "down"):  Black phyllite
75BgC299T        (20 cm), rsty-wx sc & mbe w/ vein Qtz (1/2 meter), gray-tan wx sugary bedded mbe (10 m),
75Bg0299T        Black "hardened" phyllitic argillite (2-3 meters) that seems to be enclosed by tan dolomitic-
75Bg0299T        hackly marble (10 meters), creek, SMS-type schists as at 298.
75Bg0299T        The occurrence of argillite in a terrain of coarse schistose
75Bg0299T        rx mystifies me.  It and encl mbe might be flt ctct w/ the coarser rx, or (less likely)
75Bg0299T        the enclosing mbe insulated it somehow from the reg met.;
75Bg0299  ----------------------------------------------------------------------------------------------
#
75Bg0300            STATION = 75ABg0300;
75Bg0300            DATE = 8/19/75;
75Bg0300            QUAD = KC C-5;
75Bg0300            LAT = 55/36/25;
75Bg0300            LONG = 131/21/18;
75Bg0300            PURPOSE = Geol, geochem;
75Bg0300
75Bg0300   TEXT-TOPIC = Lith;
75Bg0300
75Bg0300   STRUCTURE;
75Bg0300        FOL-SCH = 200/60;
75Bg0300        JOINT = C05/30;
75Bg0300
75Bg0300SA SAMPLE NUMBER = 75ABg0300A;
75Bg0300SA      UNIT = SMS;
75Bg0300SA      SOURCE = OTC;
75Bg0300SA      TYPE = Repres;
75Bg0300SA      PURPOSE = Hand spec, spec;
75Bg0300SA      DESCRIPTION = Sed, met;
75Bg0300SA      LITH = Metased;
75Bg0300SA      MINS = Qtz, Carb, Musc;
75Bg0300SA      TEXTURE = Schistose;
75Bg0300SA      CONDITION = Alter, rusty-wx;
75Bg0300SA      REMARKS = Gx spl coll to test rusty-wx rock.  It is a composite of chips taken at 3 places
75Bg0300SA      REMARKS = across a 3-meter wide zone perp. to fol.;
75Bg0300SA
75Bg0300T  TEXT = Rusty, cream, yellow, and brownish-gray wx schist der fr interb sed rx.  Schist cons mainly of
75Bg0300T        Mu, Qz, Calc.  Thin veins, pods of glassy Qtz para and cross fol.
75Bg0300T        Unit also contains minor yellow-wx sugary marble, and rusty-wx dolomite veins.;
75Bg0300  ----------------------------------------------------------------------------------------------
#
75Bg0301            STATION = 75ABg0301;
75Bg0301            DATE = 8/19/75;
75Bg0301            QUAD = KC C-5;
75Bg0301            LAT = 55/36/15;
75Bg0301            LONG = 131/21/20;
75Bg0301            PURPOSE = Geol;
75Bg0301
75Bg0301   TEXT-TOPIC = Lith;
75Bg0301
75Bg0301   STRUCTURE;
75Bg0301        FOL-SCH = 200/50;
75Bg0301        AXIAL-PLANE = 200/50;
```

```
75Bg0301        FOLD-AXIS = 355/50;
75Bg0301
75Bg0301SA SAMPLE NUMBER = 75ABg0301A;
75Bg0301SA      UNIT = SMS;
75Bg0301SA      SOURCE = OTC;
75Bg0301SA      TYPE = Repres;
75Bg0301SA      PURPOSE = Hand spec;
75Bg0301SA      DESCRIPTION = Sed, met;
75Bg0301SA      LITH = Metased;
75Bg0301SA      MINS = Qtz, Plag, Bio, Carb, Garn;
75Bg0301SA      TEXTURE = Schistose;
75Bg0301SA      CONDITION = Fresh;
75Bg0301SA
75Bg0301T  TEXT = Tan-wx marble lens or infolded bed 2-3 meters across in rusty, tan, and brownish gray schist.
75Bg0301T        The schist unit contains abt 10% marble in beds too thin (< 3 M) or discontinuous to map separately.
75Bg0301T        The schist, derived from calcareous sed (pelitic) rocks, contains Mu, Bi, Ga, Qz.  The Bio xls seem
75Bg0301T        to overprint an earlier foliation.  Garbenschiefer in float and prob in unit.;
75Bg0301  ----------------------------------------------------------------------------------------------------
*
75Bg0302            STATION = 75ABg0302;
75Bg0302            DATE = 8/19/75;
75Bg0302            QUAD = KC C-5;
75Bg0302            LAT = 55/37/00;
75Bg0302            LONG = 131/21/20;
75Bg0302            PURPOSE = Geol;
75Bg0302
75Bg0302   TEXT-TOPIC = Lith, metamorphism;
75Bg0302
75Bg0302   STRUCTURE;
75Bg0302        FOL-SCH = 168/55;
75Bg0302        OTHER-LIN = 205/45 (Wrink);
75Bg0302        OTHER = M, Str 308/18;
75Bg0302
75Bg0302SA SAMPLE NUMBER = 75ABg0302A;
75Bg0302SA      UNIT = SMS;
75Bg0302SA      SOURCE = OTC;
75Bg0302SA      TYPE = Repres;
75Bg0302SA      PURPOSE = Hand spec;
75Bg0302SA      DESCRIPTION = Sed, met;
75Bg0302SA      LITH = Schist + vein;
75Bg0302SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0302SA      TEXTURE = Schistose, Granitoid;
75Bg0302SA      CONDITION = Fresh;
75Bg0302SA
75Bg0302T  TEXT = Dk brown/gray wx schist cont Mu, Qz, Bi, Ho. As in SMS unit to south, muscovite is very conspicuous
75Bg0302T        although I doubt that it is more abund than Qz+Pc.  Unit prob der fr pelitic protolith.
75Bg0302T        Qtz vns, pods mostly parallel fol.  Some of the veins para fol cons of Qz-Pc-Bi rock (302A) and
75Bg0302T        may signal at least local anatexis.
75Bg0302T        Unit is soft, weathered--diffic to coll spl xcept adjacent to rel resistant Qz, etc, vns.
75Bg0302T        Minor rusty-wx dolo Carb vns.;
75Bg0302  ----------------------------------------------------------------------------------------------------
*
75Bg0303            STATION = 75ABg0303;
75Bg0303            DATE = 8/19/75;
75Bg0303            QUAD = KC C-5;
75Bg0303            LAT = 55/37/44;
75Bg0303            LONG = 131/21/15;
75Bg0303            PURPOSE = Geol;
75Bg0303
75Bg0303   TEXT-TOPIC = Lith;
75Bg0303
```

```
75Bg0303   STRUCTURE;
75Bg0303        FOL-SCH = 165/75;
75Bg0303        OTHER = Ctct 165/85;
75Bg0303
75Bg0303SA SAMPLE NUMBER = 75ABg0303A;
75Bg0303SA      UNIT = SMVS;
75Bg0303SA      SOURCE = OTC;
75Bg0303SA      TYPE = Repres;
75Bg0303SA      PURPOSE = Hand spec, spec;
75Bg0303SA      DESCRIPTION = Extr, sed, met;
75Bg0303SA      LITH = Amphibolite;
75Bg0303SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0303SA      TEXTURE = Schistose;
75Bg0303SA      CONDITION = Fresh;
75Bg0303SA      REMARKS = Gx spl coll for background;
75Bg0303SA
75Bg0303SA SAMPLE NUMBER = 75ABg0303B;
75Bg0303SA      UNIT = Qtz Monz;
75Bg0303SA      SOURCE = Float;
75Bg0303SA      TYPE = Repres;
75Bg0303SA      PURPOSE = Hand spec;
75Bg0303SA      DESCRIPTION = Intr;
75Bg0303SA      LITH = Qtz Monz;
75Bg0303SA      FORM = Pluton;
75Bg0303SA      MINS = Qtz, Plag, Kspr, Bio, Musc;
75Bg0303SA      TEXTURE = Hypid gran;
75Bg0303SA      CONDITION = Fresh;
75Bg0303SA      REMARKS = Gx spl coll for background;
75Bg0303SA
75Bg0303T  TEXT = Semiconcordant contact betw QM or GDio and med-crs gr amphibole-Pc-Qz-Bio schist (amphibolite).
75Bg0303T        The QM is msv, seems nonfol--see no Ga.  The schist wx dk gnsh brown and its meta fabric ranges
75Bg0303T        from planar to unoriented--prismatic/porphyroblastic.  The amph schist contains subord layers of
75Bg0303T        Bi-rich schist.
75Bg0303T        Meta rx prob der from interbedded volc gwk and pelite.
75Bg0303T        Betw 302 & 303, rx are mostly somber-wx bio-amphibole rich schists, w/ a few zones of rusty and
75Bg0303T        yellow-wx muscovite-rich schist and poss a little marble.;
75Bg0303  ------------------------------------------------------------------------------------------------------
#
75Bg0304             STATION = 75ABg0304;
75Bg0304             DATE = 8/19/75;
75Bg0304             QUAD = KC C-5;
75Bg0304             LAT = 55/38/24;
75Bg0304             LONG = 131/21/05;
75Bg0304             PURPOSE = Geol;
75Bg0304
75Bg0304   TEXT-TOPIC = Lith;
75Bg0304
75Bg0304   STRUCTURE;
75Bg0304        FOL-SCH = 185/50;
75Bg0304
75Bg0304SA SAMPLE NUMBER = 75ABg0304A;
75Bg0304SA      UNIT = SMVS;
75Bg0304SA      SOURCE = OTC;
75Bg0304SA      TYPE = Repres;
75Bg0304SA      PURPOSE = Hand spec;
75Bg0304SA      DESCRIPTION = Extr, sed, met;
75Bg0304SA      LITH = Volc? metagwk;
75Bg0304SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0304SA      TEXTURE = Schistose;
75Bg0304SA      CONDITION = Fresh;
75Bg0304SA
```

```
75Bg0304T  TEXT = Dark greenish and brsh gy-wx fn gn sch cont Ho, Pc, Qz, and prob Bi.
75Bg0304T        From minlgy, rk prob der fr +- volc gwk.
75Bg0304T        Abundance of Hbl sugg that parts of unit prob are amphibolite.;
75Bg0304  ------------------------------------------------------------------------------------------
#
75Bg0305              STATION = 75ABg0305;
75Bg0305              DATE = 8/19/75;
75Bg0305              QUAD = KC C-5;
75Bg0305              LAT = 55/38/19;
75Bg0305              LONG = 131/21/59;
75Bg0305              PURPOSE = Geol, geochem;
75Bg0305
75Bg0305   TEXT-TOPIC = Lith;
75Bg0305
75Bg0305   STRUCTURE:
75Bg0305        FOL-SCH = 173/75;
75Bg0305
75Bg0305SA SAMPLE NUMBER = 75ABg0305A;
75Bg0305SA      UNIT = SMP;
75Bg0305SA      SOURCE = OTC;
75Bg0305SA      TYPE = Repres;
75Bg0305SA      PURPOSE = Hand spec, spec;
75Bg0305SA      DESCRIPTION = Sed, met;
75Bg0305SA      LITH = Metapelite;
75Bg0305SA      FORM = Layered;
75Bg0305SA      MINS = Qtz, Plag, Bio, Musc;
75Bg0305SA      TEXTURE = Schistose;
75Bg0305SA      CONDITION = Fresh;
75Bg0305SA      REMARKS = Gx spl coll for bckgr.;
75Bg0305SA
75Bg0305T  TEXT = Rusty and dark brownish-gray wx fine grain schist containing Qz, Pc, Bi, musc.
75Bg0305T        Relative props of components varies but avg met minl assbge sugg that unit is derived from pelitic
75Bg0305T        sed rx.  Numerous Qtz lenses, augen para fol.
75Bg0305T        Some layers are vy fissile, some are rel dense, tough, and break across fol.  Tkns rngs
75Bg0305T        from 2-3 mm to 8-10 cm.
75Bg0305T        Surprised to find schist so fine grained w/in a few meters of Qtz Monz
75Bg0305T        platon.;
75Bg0305  ------------------------------------------------------------------------------------------
#
75Bg0306              STATION = 75ABg0306;
75Bg0306              DATE = 8/20/75;
75Bg0306              QUAD = KC B-5;
75Bg0306              LAT = 55/17/52;
75Bg0306              LONG = 131/28/35;
75Bg0306              PURPOSE = Geol;
75Bg0306
75Bg0306   TEXT-TOPIC = Lith;
75Bg0306
75Bg0306   STRUCTURE:
75Bg0306        FOLD-AXIS = 068/10;
75Bg0306        OTHER = QDio Dike 290/45;
75Bg0306
75Bg0306SA SAMPLE NUMBER = 75ABg0306A;
75Bg0306SA      UNIT = SMVS (GIF?);
75Bg0306SA      SOURCE = OTC;
75Bg0306SA      TYPE = Repres;
75Bg0306SA      PURPOSE = Hand spec, T. S.;
75Bg0306SA      DESCRIPTION = Extr, Sed, Met;
75Bg0306SA      LITH = Metavolc?;
75Bg0306SA      MINS = Qtz, Plag, Bio, Ep/Clz;
75Bg0306SA      TEXTURE = Schistose, relict porph?;
```

```
75Bg0306SA        CONDITION = Fresh;
75Bg0306SA
75Bg0306SA SAMPLE NUMBER = 75ABg0306B;
75Bg0306SA        UNIT = SMVS;
75Bg0306SA        SOURCE = OTC;
75Bg0306SA        TYPE = Repres;
75Bg0306SA        PURPOSE = Hand spec;
75Bg0306SA        DESCRIPTION = Intr, met;
75Bg0306SA        LITH = Qtz Dio;
75Bg0306SA        FORM = Dike;
75Bg0306SA        MINS = Qtz, Plag, Bio, Act, Chl, Ep/Clz, Garn;
75Bg0306SA        TEXTURE = Holoxln-Granoblastic;
75Bg0306SA        CONDITION = Fresh;
75Bg0306SA
75Bg0306SA SAMPLE NUMBER = 75ABg0306C;
75Bg0306SA        UNIT = SMVS;
75Bg0306SA        SOURCE = OTC;
75Bg0306SA        TYPE = Repres;
75Bg0306SA        PURPOSE = Hand spec, T. S.;
75Bg0306SA        DESCRIPTION = Extr, Sed;
75Bg0306SA        LITH = Metavolcanic Rock;
75Bg0306SA        FORM = Bedded;
75Bg0306SA        MINS = Plag, Bio, Act, Chl, Ep/Clz;
75Bg0306SA        TEXTURE = Schistose, relict femag porphyritic;
75Bg0306SA        CONDITION = Fresh;
75Bg0306SA
75Bg0306T  TEXT = Station is on rock exposed at mod tide.
75Bg0306T         Dark green, olive, brown, and loc rsty-wx.  Fn gn schist cont Bi, Ep/Cz, Qz, Pc, poss Ga.
75Bg0306T         The island s.w. of sta is approx 50% QDio & 50% mottled/streaked dk gn & cream-wx Cl-Act-Bi-Ep
75Bg0306T         sch & hfls cont relict femag pxts.  Much of the schist is studded with light ylsh gy Plag grains to
75Bg0306T         1 cm diam that wx in rlf.  These could be rlct phenos (but see 75ABg310).
75Bg0306T         Rx are cut by dikes of QDio every 20 or 30 meters.  The dikes avg 2 or 3 meters thick,
75Bg0306T         range from feldspar porphyritic to aphanitic, and foliated to nonfol.  At least some are
75Bg0306T         Ga-bearing.  The QDio in turn is intruded by rel undef mafic (lampro?) dikes.
75Bg0306T         Meta bdd rx do not resemble metapelite or argillite units of outer George and Carroll Inlets.;
75Bg0306  ------------------------------------------------------------------------------------------------
$
75Bg0307              STATION = 75ABg0307;
75Bg0307              DATE = 8/20/75;
75Bg0307              QUAD = KC B-5;
75Bg0307              LAT = 55/17//39;
75Bg0307              LONG = 131/28/08;
75Bg0307              PURPOSE = Geol, geochem;
75Bg0307
75Bg0307   TEXT-TOPIC = Lith;
75Bg0307
75Bg0307   STRUCTURE:
75Bg0307        FOL-SCH = 330/20;
75Bg0307        OTHER-LIN = 075/20 Str, rods;
75Bg0307
75Bg0307SA SAMPLE NUMBER = 75ABg0307A;
75Bg0307SA        UNIT = SMVS;
75Bg0307SA        SOURCE = OTC;
75Bg0307SA        TYPE = Repres;
75Bg0307SA        PURPOSE = Hand spec, spec;
75Bg0307SA        DESCRIPTION = Extr, sed, met;
75Bg0307SA        LITH = Metavolc rk;
75Bg0307SA        MINS = Hbl, Bio, Py, Act, Ep/Clz, Garn;
75Bg0307SA        TEXTURE = Schistose;
75Bg0307SA        CONDITION = Fresh;
75Bg0307SA        REMARKS = Gx spl coll for background.;
```

```
75Bg0307SA
75Bg0307SA SAMPLE NUMBER = 75ABg0307B;
75Bg0307SA      UNIT = SMVS;
75Bg0307SA      SOURCE = Float;
75Bg0307SA      TYPE = Repres;
75Bg0307SA      PURPOSE = Hand spec;
75Bg0307SA      DESCRIPTION = Intr, extr, sed, met;
75Bg0307SA      LITH = Gneissic plut + met;
75Bg0307SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0307SA      TEXTURE = Gneissic;
75Bg0307SA      CONDITION = Fresh;
75Bg0307SA
75Bg0307SA SAMPLE NUMBER = 75ABg0307C;
75Bg0307SA      UNIT = SMVS;
75Bg0307SA      SOURCE = OTC;
75Bg0307SA      TYPE = Repres;
75Bg0307SA      PURPOSE = Hand spec;
75Bg0307SA      DESCRIPTION = Sed, met;
75Bg0307SA      LITH = Metased rk;
75Bg0307SA      MINS = Qtz, Hbl, Bio;
75Bg0307SA      TEXTURE = Hardened-schistose;
75Bg0307SA      CONDITION = Fresh;
75Bg0307SA
75Bg0307T  TEXT = Hardened-schistose to gneissic greenish & yellowish gray-wx meta bedded rx cont BI, CI, EP/CZ,
75Bg0307T        Hbl or ACT, GA.  30 Hbl or Act metaxts to 1 cm stud some wx surfs--sparse circular clots to 3-4 cm
75Bg0307T        diam of Garn + ACT(?).
75Bg0307T        Sills, dikes, veins Qtz Bio.
75Bg0307T        Meta unit prob der from volcanic-sed parent rx.
75Bg0307T        Much of the meta unit in inlet n. of station is hardened-schistose argillic or pelitic rock (307C).;
75Bg0307  ------------------------------------------------------------------------------------------------------
#
75Bg0308            STATION = 75ABg0308;
75Bg0308            DATE = 8/20/75;
75Bg0308            QUAD = KC B-5;
75Bg0308            LAT = 55/17/15;
75Bg0308            LONG = 131/27/50;
75Bg0308            PURPOSE = Geol;
75Bg0308
75Bg0308   TEXT-TOPIC = Lith;
75Bg0308
75Bg0308   STRUCTURE;
75Bg0308        BEDDING = 355/30 (overturned);
75Bg0308        FOL-SCH = 355/30;
75Bg0308
75Bg0308SA SAMPLE NUMBER = 75ABg0308A;
75Bg0308SA      UNIT = HMP;
75Bg0308SA      SOURCE = OTC;
75Bg0308SA      TYPE = Repres;
75Bg0308SA      PURPOSE = Hand spec, spec;
75Bg0308SA      DESCRIPTION = Sed, met;
75Bg0308SA      LITH = Metapelite;
75Bg0308SA      FORM = Bedded;
75Bg0308SA      MINS = Qtz, Bio;
75Bg0308SA      TEXTURE = Vfg schistose, hardened;
75Bg0308SA      CONDITION = Fresh;
75Bg0308SA      REMARKS = Gx spl coll for bckgr;
75Bg0308SA
75Bg0308SA SAMPLE NUMBER = 75ABg0308B;
75Bg0308SA      UNIT = HMP;
75Bg0308SA      SOURCE = OTC;
75Bg0308SA      TYPE = Repres;
```

```
75Bg0308SA      PURPOSE = Hand spec, spec;
75Bg0308SA      DESCRIPTION = Intr;
75Bg0308SA      LITH = Qtz Monz;
75Bg0308SA      FORM = Diapir;
75Bg0308SA      MINS = Qtz, Plag, Kspr, Bio, Garn;
75Bg0308SA      TEXTURE = Porphyritic;
75Bg0308SA      CONDITION = Fresh;
75Bg0308SA      REMARKS = Gx spl coll for bckgr;
75Bg0308SA
75Bg0308T  TEXT = Garn-bearg Qtz monz diapir intrudes hardened metapelite (turbidite--not argillite type).
75Bg0308T         Diapir is about 20 meters wide at maximum and tapers downward to about 5 or 10 meters.  Metapelite
75Bg0308T         is dragged upward at margin of intrusion.
75Bg0308T         Core of diapir is med gn Fspr porphtc--margin has zone 20 cm or so wide of qz-fspr peg.
75Bg0308T         There is a faint flow foln parallel to ctct.  Turb is hardened fn gn Bio semisch but not
75Bg0308T         penetr fol--relict grading app shows that some beds are overturned.;
75Bg0308  ------------------------------------------------------------------------------------------------
#
75Bg0309             STATION = 75ABg0309;
75Bg0309             DATE = 8/20/75;
75Bg0309             QUAD = KC B-5;
75Bg0309             LAT = 55/17/11;
75Bg0309             LONG = 131/28/09;
75Bg0309             PURPOSE = Geol;
75Bg0309
75Bg0309   TEXT-TOPIC = Lith;
75Bg0309
75Bg0309   STRUCTURE;
75Bg0309        JOINT = 055/v;
75Bg0309        JOINT = 155/45-v;
75Bg0309
75Bg0309SA SAMPLE NUMBER = 75ABg0309A;
75Bg0309SA      UNIT = Q Monz;
75Bg0309SA      SOURCE = OTC;
75Bg0309SA      TYPE = Repres;
75Bg0309SA      PURPOSE = Hand spec;
75Bg0309SA      DESCRIPTION = Intr;
75Bg0309SA      LITH = Qtz Monzonite;
75Bg0309SA      MINS = Qtz, Plag, Kspr, Bio, Chl, Garn;
75Bg0309SA      TEXTURE = Hypid gran--wkly porphtc;
75Bg0309SA      CONDITION = Fresh;
75Bg0309SA
75Bg0309T  TEXT = Msv, homogeneous garnet bearg slightly feldspar-porphyritic Qz Monz or GDio.
75Bg0309T         Mafics (Bio) seem mainly altd to chlorite.  Rk does not seem foliated and is free of inclns or
75Bg0309T         xenoliths.  Circling Island, I see a few small otcps of meta seds and a few small leuco veins
75Bg0309T         in QM.  No mafic dikes.  Pluton is gneissic, prob GDio/QDio nr cntry rck ctcts.;
75Bg0309  ------------------------------------------------------------------------------------------------
#
75Bg0310             STATION = 75ABg0310;
75Bg0310             DATE = 8/20/75;
75Bg0310             QUAD = KC B-5;
75Bg0310             LAT = 55/16/56;
75Bg0310             LONG = 131/27/52;
75Bg0310             PURPOSE = Geol;
75Bg0310
75Bg0310   TEXT-TOPIC = Lith, struct, strat, reg geol/tect;
75Bg0310
75Bg0310   STRUCTURE;
75Bg0310        FOL-SCH = 280/30;
75Bg0310
75Bg0310SA SAMPLE NUMBER = 75ABg0310A;
75Bg0310SA      UNIT = GDio;
```

```
75Bg0310SA      SOURCE = OTC;
75Bg0310SA      TYPE = Repres;
75Bg0310SA      PURPOSE = Hand spec, T. S.;
75Bg0310SA      DESCRIPTION = Intr, met;
75Bg0310SA      LITH = Mylonite?;
75Bg0310SA      MINS = Qtz, Plag, Bio, Chl, Garn;
75Bg0310SA      TEXTURE = Schistose, cataclastic;
75Bg0310SA      CONDITION = Fresh;
75Bg0310SA
75Bg0310T  TEXT = Dark olive, gray and brown wx schist cont light ylsh-gy grains of Plag or plag+qz.' Rk is similar
75Bg0310T         to rlct fdspr-porph schist at 306.  Qtz vns para fol.
75Bg0310T         At this station many of these "grains" are augen to 2 cm long, around which the foliation bends.
75Bg0310T         I wonder if this rock is recrystallized mylonite, derived from granodio or some other igneous
75Bg0310T         rock that might have been feldspar porphyritic.
75Bg0310T         If this rk is mylonite, does it signal a major fault zone and/or terrane boundary?  Could it mark
75Bg0310T         NE margin of G-N belt?  Has it been rxld by "CR Event"?
75Bg0310T         This rk makes up virtually all of NW end of peninsula.;
75Bg0310  ----------------------------------------------------------------------------------------------------
#
75Bg0311              STATION = 75ABg0311;
75Bg0311              DATE = 8/20/75;
75Bg0311              QUAD = KC B-5;
75Bg0311              LAT = 55/16/38;
75Bg0311              LONG = 131/27/10;
75Bg0311              PURPOSE = Geol, geochem;
75Bg0311
75Bg0311   TEXT-TOPIC = Lith, reg geol/tect;
75Bg0311
75Bg0311   STRUCTURE;
75Bg0311        FOL-SCH = 295/32;
75Bg0311
75Bg0311SA SAMPLE NUMBER = 75ABg0311A;
75Bg0311SA      UNIT = GDio;
75Bg0311SA      SOURCE = OTC;
75Bg0311SA      TYPE = Repres;
75Bg0311SA      PURPOSE = Hand spec, T. S.;
75Bg0311SA      DESCRIPTION = Intr, met;
75Bg0311SA      LITH = Mylonite;
75Bg0311SA      MINS = Qtz, Plag, Bio, Chl;
75Bg0311SA      TEXTURE = Schistose, fragmental;
75Bg0311SA      CONDITION = Fresh;
75Bg0311SA      REMARKS = Coarse cataclasite;
75Bg0311SA
75Bg0311SA SAMPLE NUMBER = 75ABg0311B;
75Bg0311SA      UNIT = GDio;
75Bg0311SA      SOURCE = OTC;
75Bg0311SA      TYPE = Repres;
75Bg0311SA      PURPOSE = Hand spec, T. S., Spec;
75Bg0311SA      DESCRIPTION = Intr, met;
75Bg0311SA      LITH = Mylonite;
75Bg0311SA      MINS = Qtz, Plag, Chl (T.S. shows Bio, Act, Ep/Clz, Garn, Musc also);
75Bg0311SA      TEXTURE = Schistose, fragmental;
75Bg0311SA      CONDITION = Fresh;
75Bg0311SA      REMARKS = Fine grain cataclasite.  Gx spl coll for bckgr.;
75Bg0311SA
75Bg0311T  TEXT = Coarsely fragmental rock that looks like schistose GDio-clast conglomerate, but almost certainly
75Bg0311T         is cataclastic, not sedimentary, in origin.  Probably an important criterion is that all the
75Bg0311T         clasts are GDio, and the rock seems to consist of progressively milled granitic rock down to an
75Bg0311T         aphanitic-schistose base.  Largest clasts/augen are 5 x 15 cm.  Rx betw 310 & 311 seem to be
75Bg0311T         mainly rxld cataclasite derived from granitic rock, plus some small otcps of what might be
75Bg0311T         metased country rx.  Locally, there are numerous thin (< 1 m) tabular bodies of QDio or GDio that
```

```
7010.   75Bg0311T        might be sills or semiconcordant dikes in the cataclasite--other sill-like masses appear to be
7011.   75Bg0311T        simply less-sheared parts of the mylonite.
7012.   75Bg0311T        Question: Is rxld (schistose) granite clast "rndstn cgl" nr pipeline on Ward Lake road actually
7013.   75Bg0311T        rxld cataclasite??;
7014.   75Bg0311  ------------------------------------------------------------------------------------------------------
7015.   *
7016.   75Bg0312             STATION = 75ABg0312;
7017.   75Bg0312             DATE = 8/20/75;
7018.   75Bg0312             QUAD = KC B-5;
7019.   75Bg0312             LAT = 55/16/18;
7020.   75Bg0312             LONG = 131/26/19;
7021.   75Bg0312             PURPOSE = Geol;
7022.   75Bg0312
7023.   75Bg0312   TEXT-TOPIC = Lith;
7024.   75Bg0312
7025.   75Bg0312   STRUCTURE;
7026.   75Bg0312        FOL-SCH = 005/40 (inferred);
7027.   75Bg0312        OTHER = Veins 005/40;
7028.   75Bg0312
7029.   75Bg0312SA SAMPLE NUMBER = 75ABg0312A;
7030.   75Bg0312SA      UNIT = GDio;
7031.   75Bg0312SA      SOURCE = OTC;
7032.   75Bg0312SA      TYPE = Repres;
7033.   75Bg0312SA      PURPOSE = Hand spec, T. S.;
7034.   75Bg0312SA      DESCRIPTION = Intr;
7035.   75Bg0312SA      LITH = Granodio;
7036.   75Bg0312SA      FORM = Pluton;
7037.   75Bg0312SA      MINS = Qtz, Plag, Kspr, Bio, Ep/Clz;
7038.   75Bg0312SA      TEXTURE = Porphyritic;
7039.   75Bg0312SA      CONDITION = Alter, saussuritized;
7040.   75Bg0312SA
7041.   75Bg0312T  TEXT = Feldspar-porphtc GDio cut by locally subparallel veins of fldspr-porphtc Qtz monzonite.
7042.   75Bg0312T        Mafics and Plag in GDio are at least ptly altd to Chl + EP/CZ.
7043.   75Bg0312T        Station estab mainly to spl pluton to test for cataclasis.
7044.   75Bg0312T        NW trending inlet W. of station evid is bndry betw mylon on peninsula and less (or non)
7045.   75Bg0312T        cataclastically def plut rx to NE.;
7046.   75Bg0312  ------------------------------------------------------------------------------------------------------
7047.   *
7048.   75Bg0313             STATION = 75ABg0313;
7049.   75Bg0313             DATE = 8/20/75;
7050.   75Bg0313             QUAD = KC B-5;
7051.   75Bg0313             LAT = 55/16/18;
7052.   75Bg0313             LONG = 131/26/19;
7053.   75Bg0313             PURPOSE = Geol;
7054.   75Bg0313
7055.   75Bg0313   TEXT-TOPIC = Lith;
7056.   75Bg0313
7057.   75Bg0313   STRUCTURE;
7058.   75Bg0313        FAULT-SHEAR = 280/45 (10 cm zone in massive HO Dio);
7059.   75Bg0313
7060.   75Bg0313SA SAMPLE NUMBER = 75ABg0313A;
7061.   75Bg0313SA      UNIT = HO Dio;
7062.   75Bg0313SA      SOURCE = OTC;
7063.   75Bg0313SA      TYPE = Repres;
7064.   75Bg0313SA      PURPOSE = Hand spec;
7065.   75Bg0313SA      DESCRIPTION = Intr;
7066.   75Bg0313SA      LITH = HO Dio;
7067.   75Bg0313SA      FORM = Pluton?;
7068.   75Bg0313SA      MINS = Plag, Hbl, Act, Chl, Ep/Clz;
7069.   75Bg0313SA      TEXTURE = Porphyritic?;
7070.   75Bg0313SA      CONDITION = Fresh;
```

```
7071.    75Bg0313SA
7072.    75Bg0313SA SAMPLE NUMBER = 75ABg0313B;
7073.    75Bg0313SA       UNIT = GDio;
7074.    75Bg0313SA       SOURCE = OTC;
7075.    75Bg0313SA       TYPE = Repres;
7076.    75Bg0313SA       PURPOSE = Hand spec;
7077.    75Bg0313SA       DESCRIPTION = Intr, met;
7078.    75Bg0313SA       LITH = GDio;
7079.    75Bg0313SA       MINS = Qtz, Plag, Bio, Chl, Ep/Clz;
7080.    75Bg0313SA       TEXTURE = Schistose;
7081.    75Bg0313SA       CONDITION = Fresh;
7082.    75Bg0313SA       REMARKS = Spl of rxld mylonite GDio from shore NE of station.;
7083.    75Bg0313SA
7084.    75Bg0313T  TEXT = Med coarse grain dark greenish black rock cons of subhed Am xls up to 1 cm in size and interstitial
7085.    75Bg0313T         microgranular feldspar, Cz/Ep, and prob other secondary minls.  There are a few thin sheared
7086.    75Bg0313T         (schist + Qtz vns) zones, but rk is not a cataclasite.
7087.    75Bg0313T         Might be altd HC Dio or Hbl porp.;
7088.    75Bg0313  ----------------------------------------------------------------------------------------------
7089.    #
7090.    75Bg0314              STATION = 75ABg0314;
7091.    75Bg0314              DATE = 8/20/75;
7092.    75Bg0314              QUAD = KC B-5;
7093.    75Bg0314              LAT = 55/16/17;
7094.    75Bg0314              LONG = 131/25/50;
7095.    75Bg0314              PURPOSE = Geol;
7096.    75Bg0314
7097.    75Bg0314   TEXT-TOPIC = Lith, strat;
7098.    75Bg0314
7099.    75Bg0314   STRUCTURE;
7100.    75Bg0314         FOL-SCH = 274/35;
7101.    75Bg0314
7102.    75Bg0314SA SAMPLE NUMBER = 75ABg0314A;
7103.    75Bg0314SA       UNIT = SMS;
7104.    75Bg0314SA       SOURCE = OTC;
7105.    75Bg0314SA       TYPE = Repres;
7106.    75Bg0314SA       PURPOSE = Hand spec, T. S.;
7107.    75Bg0314SA       DESCRIPTION = T.S. shows f.g. Musc, Bio, Qtz, Plag sch cont sparse augenlike masses of Plag. Some Chl
7107.1   75Bg0314SA                     pseudos after Bio. Accessory Calc, Opaq, Clz/Ep. Prob rexld cataclasite
7107.2   75Bg0314SA                     der fr flsc/interm ign rk;
7108.    75Bg0314SA       LITH = Metachert?;
7109.    75Bg0314SA       MINS = Qtz, Plag, Chl, Musc;
7110.    75Bg0314SA       TEXTURE = Schistose;
7111.    75Bg0314SA       CONDITION = Fresh;
7112.    75Bg0314SA       REMARKS = Test for cataclastic structures.;
7113.    75Bg0314SA
7114.    75Bg0314T  TEXT = This otcp, which is struct upsection from catacl def GDio (which crops out 100 M to NW and low
7115.    75Bg0314T         in tide zone here), is mainly light gray very silicic mica schist and subordinate dark green,
7116.    75Bg0314T         dark brown, and rusty-wx schist.
7117.    75Bg0314T         The silicic schist could be derived from impure (silty or argillac) chert, or it could be rxld
7118.    75Bg0314T         mylonite, der by extreme milling of a flsc to intermed ign rk.  Thin section shows feldspar
7119.    75Bg0314T         augen and porphyroclasts, so latter interp is correct.
7120.    75Bg0314T         If this rock is part of SMS ("coastal schist") unit, then at least some SMS = mylonite;
7122.    75Bg0314  ----------------------------------------------------------------------------------------------
7123.    #
7124.    75Bg0315              STATION = 75ABg0315;
7125.    75Bg0315              DATE = 8/20/75;
7126.    75Bg0315              QUAD = KC B-5;
7127.    75Bg0315              LAT = 55/16/04;
7128.    75Bg0315              LONG = 131/25/20;
7129.    75Bg0315              PURPOSE = Geol;
7130.    75Bg0315
```

```
7131.     75Bg0315   TEXT-TOPIC = Lith;
7132.     75Bg0315
7133.     75Bg0315   STRUCTURE;
7134.     75Bg0315        FOL-SCH = 295/50;
7135.     75Bg0315
7136.     75Bg0315SA SAMPLE NUMBER = 75ABg0315A;
7137.     75Bg0315SA      UNIT = SMSV;
7138.     75Bg0315SA      SOURCE = OTC;
7139.     75Bg0315SA      TYPE = Repres;
7140.     75Bg0315SA      PURPOSE = Hand spec;
7141.     75Bg0315SA      DESCRIPTION = Extr, sed, met;
7142.     75Bg0315SA      LITH = Metavolc;
7143.     75Bg0315SA      MINS = Plag, Kspr, Act, Ep/Clz;
7144.     75Bg0315SA      TEXTURE = Schistose, porphyroblastic;
7145.     75Bg0315SA      CONDITION = Fresh;
7146.     75Bg0315SA      REMARKS = Act needles;
7147.     75Bg0315SA
7148.     75Bg0315T  TEXT = Rx at this sta consist of more or less sheared, thinly interbedded rexl volcanic? and sedimentary
7149.     75Bg0315T         units mixed with porphyritic to schistose quartz dio or granodio.
7150.     75Bg0315T         From amount of shearing, I judge this locality to be near (poss in xsitl zone) the zone of mylonite
7151.     75Bg0315T         mapped to NW.
7152.     75Bg0315T         Some of the meta rx are bio-rich metapelite and some cont conspic Act
7153.     75Bg0315T         needles and are rel rich in mafics (dark green), wh sugg they may be derived from interm-mafic
7154.     75Bg0315T         volcanic protolith.
7155.     75Bg0315T         I est abt = amts of sed & volc protolith.
7156.     75Bg0315T         Qtz vns x fol.;
7157.     75Bg0315  ----------------------------------------------------------------------------------------------------
7158.     #
7159.     75Bg0316             STATION = 75ABg0316;
7160.     75Bg0316             DATE = 8/20/75;
7161.     75Bg0316             QUAD = KC B-5;
7162.     75Bg0316             LAT = 55/16/00;
7163.     75Bg0316             LONG = 131/24/52;
7164.     75Bg0316             PURPOSE = Geol;
7165.     75Bg0316
7166.     75Bg0316   TEXT-TOPIC = Lith, struct;
7167.     75Bg0316
7168.     75Bg0316   STRUCTURE;
7169.     75Bg0316        FOL-SCH = 338/35;
7170.     75Bg0316
7171.     75Bg0316SA SAMPLE NUMBER = 75ABg0316A;
7172.     75Bg0316SA      UNIT = GDio?;
7173.     75Bg0316SA      SOURCE = OTC;
7174.     75Bg0316SA      TYPE = Repres;
7175.     75Bg0316SA      PURPOSE = Hand spec;
7176.     75Bg0316SA      DESCRIPTION = Intr, met;
7177.     75Bg0316SA      LITH = Mylonite;
7178.     75Bg0316SA      MINS = Qtz, Plag, Py, Musc;
7179.     75Bg0316SA      TEXTURE = Schistose, porphyroclastic;
7180.     75Bg0316SA      CONDITION = Fresh;
7181.     75Bg0316SA
7182.     75Bg0316T  TEXT = "Blue quartz eye" schist and other varieties(?) of greenish gray, rusty, and light brown-wx schist.
7183.     75Bg0316T         The blue Qtz grains look like augen or porphyroclasts in a cataclastic schist.  In addn to qz,
7184.     75Bg0316T         which makes up most of rk, sch cont musco, py, prob ep/cz.
7185.     75Bg0316T         Perhaps I'm simply "seeing mylonite" today, but I'm pretty sure this is best classificn for this
7185.1    75Bg0316T         schist.  Protolith prob was flsc/intermed ign (plut?) rk;
7186.     75Bg0316  ----------------------------------------------------------------------------------------------------
7187.     #
7188.     75Bg0317             STATION = 75ABg0317;
7189.     75Bg0317             DATE = 8/21/75;
7190.     75Bg0317             QUAD = KC B-5;
```

```
7191.    75Bg0317              LAT = 55/15/32;
7192.    75Bg0317              LONG = 131/23/58;
7193.    75Bg0317              PURPOSE = Geol;
7194.    75Bg0317
7195.    75Bg0317   TEXT-TOPIC = Lith;
7196.    75Bg0317
7197.    75Bg0317   STRUCTURE;
7198.    75Bg0317        FOL-SCH = 322/v (local);
7199.    75Bg0317
7200.    75Bg0317SA SAMPLE NUMBER = 75ABg0317A;
7201.    75Bg0317SA      SOURCE = OTC;
7202.    75Bg0317SA      TYPE = Repres;
7203.    75Bg0317SA      PURPOSE = Hand spec;
7204.    75Bg0317SA      DESCRIPTION = Met;
7205.    75Bg0317SA      LITH = Meta-igneous rk;
7206.    75Bg0317SA      MINS = Plag, Act, Chl, Ep/Clz;
7207.    75Bg0317SA      TEXTURE = Schistose;
7208.    75Bg0317SA      CONDITION = Fresh;
7209.    75Bg0317SA
7210.    75Bg0317T  TEXT = Mastic Rock.
7211.    75Bg0317T       Dark green Act-Cl-Ep/Cz-Pc schist of uncertain, but prob mafic igneous, origin.;
7212.    75Bg0317  ------------------------------------------------------------------------------------------
7213.    #
7214.    75Bg0318              STATION = 75ABg0318;
7215.    75Bg0318              DATE = 8/21/75;
7216.    75Bg0318              QUAD = KC B-5;
7217.    75Bg0318              LAT = 55/15/45;
7218.    75Bg0318              LONG = 131/24/01;
7219.    75Bg0318              PURPOSE = Geol;
7220.    75Bg0318
7221.    75Bg0318   TEXT-TOPIC = Lith, struct;
7222.    75Bg0318
7223.    75Bg0318   STRUCTURE;
7224.    75Bg0318        FOL-SCH = 280/60 (Average);
7225.    75Bg0318
7226.    75Bg0318SA SAMPLE NUMBER = 75ABg0318A;
7227.    75Bg0318SA      UNIT = GDio;
7228.    75Bg0318SA      SOURCE = Float;
7229.    75Bg0318SA      TYPE = Repres;
7230.    75Bg0318SA      PURPOSE = Hand spec;
7231.    75Bg0318SA      DESCRIPTION = Intr, met;
7232.    75Bg0318SA      LITH = Cataclastic GDio;
7233.    75Bg0318SA      MINS = Qtz, Plag, Bio, Chl, Musc;
7234.    75Bg0318SA      TEXTURE = Schist;
7235.    75Bg0318SA      CONDITION = Fresh;
7236.    75Bg0318SA
7237.    75Bg0318T  TEXT = Cataclastically deformed plutonic rock (GDio) ranging from coarse angular breccia to aphanitic
7238.    75Bg0318T       schist.
7239.    75Bg0318T       The breccia consists of angular to rounded clasts of GDio as much as 10 or 15 cm long and
7240.    75Bg0318T       interstital Qz-Mu-Pc schist that commonly is studded with Qzo-fdspthc grains.  The finer-grained
7241.    75Bg0318T       cataclasite commonly is Qz-Mu-Pc schist w/ Qtz-Fspr augen, but some of it is too finely milled to
7242.    75Bg0318T       disting individ minls.  Some of these fine-grained zones are tabular and closely resemble
7243.    75Bg0318T       metasediments, or, possibly, mylonitic dike rock.;
7244.    75Bg0318  ------------------------------------------------------------------------------------------
7245.    #
7246.    75Bg0319              STATION = 75ABg0319;
7247.    75Bg0319              DATE = 8/21/75;
7248.    75Bg0319              QUAD = KC B-5;
7249.    75Bg0319              LAT = 55/15/55;
7250.    75Bg0319              LONG = 131/22/51;
7251.    75Bg0319              PURPOSE = Geol;
```

```
7252.    75Bg0319
7253.    75Bg0319   TEXT-TOPIC = Lith, reg geol/tect, metamorphism;
7254.    75Bg0319
7255.    75Bg0319   STRUCTURE;
7256.    75Bg0319        FOL-SCH = 330/20-40;
7257.    75Bg0319        OTHER-LIN = 075/20;
7258.    75Bg0319
7259.    75Bg0319SA SAMPLE NUMBER = 75ABg0319A;
7260.    75Bg0319SA      UNIT = GDio;
7261.    75Bg0319SA      SOURCE = Float;
7262.    75Bg0319SA      TYPE = Repres;
7263.    75Bg0319SA      PURPOSE = Hand spec;
7264.    75Bg0319SA      DESCRIPTION = Intr, met;
7265.    75Bg0319SA      LITH = Cataclastic GDio;
7266.    75Bg0319SA      MINS = Qtz, Plag, Act, Chl, Musc;
7267.    75Bg0319SA      TEXTURE = Schistose;
7268.    75Bg0319SA      CONDITION = Fresh;
7269.    75Bg0319SA
7270.    75Bg0319T  TEXT = Greenish and silvery gray Qz-Pc-Mu-Cl-Act schist derived mainly by cataclasis, then thermal met,
7271.    75Bg0319T        of GDio and possib subord metased and(or) mafic metavolc rx.
7272.    75Bg0319T        Some fol surfs contain Act needles to 2 cm long rndmly oriented in the plane of the fol.
7273.    75Bg0319T        Here's a thought:  Could this cataclastic pluton actually be very old, say Lower/Mid Pz, and
7274.    75Bg0319T        thus correl w/ Annette pluton?  If so, then cataclastic zone could be NE boundary of Alexander
7275.    75Bg0319T        Terrane.  This idea came up because some of the schistose GDio and esp some of the possib meta
7276.    75Bg0319T        rx are lith simlr to parts of Annette pluton and "Wales-type" country rx on Annette Isl.;
7277.    75Bg0319  ----------------------------------------------------------------------------------------------
7278.    *
7279.    75Bg0320            STATION = 75ABg0320;
7280.    75Bg0320            DATE = 8/21/75;
7281.    75Bg0320            QUAD = KC B-5;
7282.    75Bg0320            LAT = 55/15/53;
7283.    75Bg0320            LONG = 131/22/19;
7284.    75Bg0320            PURPOSE = Geol;
7285.    75Bg0320
7286.    75Bg0320   TEXT-TOPIC = Lith, struct;
7287.    75Bg0320
7288.    75Bg0320   STRUCTURE;
7289.    75Bg0320        FOL-SCH = 340/50;
7290.    75Bg0320        AXIAL-PLANE = 015/65;
7291.    75Bg0320        FOLD-AXIS = 058/40-70;
7292.    75Bg0320
7293.    75Bg0320SA SAMPLE NUMBER = 75ABg0320A;
7294.    75Bg0320SA      UNIT = SMVS;
7295.    75Bg0320SA      SOURCE = OTC;
7296.    75Bg0320SA      TYPE = Repres;
7297.    75Bg0320SA      PURPOSE = Hand spec;
7298.    75Bg0320SA      DESCRIPTION = Extr, sed, met;
7299.    75Bg0320SA      MINS = Qtz, Plag, Bio, Act, Chl, Ep/Clz, Garn, Musc;
7300.    75Bg0320SA      REMARKS = Sack of several samples to illustr rock types.;
7301.    75Bg0320SA
7302.    75Bg0320T  TEXT = Intricately small-folded dark green and dark brown fine grain schist cont abndnt Qtz vns that both
7303.    75Bg0320T        para and cross fol.  Otcp contains some of the best chevron folds I have ever seen.  Avg size is
7304.    75Bg0320T        25 x 25 cm (wavelength x amplitude).
7305.    75Bg0320T        A two-meter tk zone of ylsh gy wx mb crops out on NW side of island.  The schists, which contain
7306.    75Bg0320T        Qz, Pc, Bi, Cl, Ga, Ep/Clz, Act, and Carb, are derived from apparently thinly interbdd sed & volc rx.
7307.    75Bg0320T        Some of the unit consists of vy silicic, (meta) chertlike material that could be flsc metatuff.
7308.    75Bg0320T        There is also some Cl-Act-Ep sch that prob is metavolc.  I est that volc > sed protolith.
7309.    75Bg0320T        The meta rx evid are tect mixed w/ schistose plutonic rock as at 319, etc, which crops out
7310.    75Bg0320T        irregularly on island.;
7311.    75Bg0320  ----------------------------------------------------------------------------------------------
7312.    *
```

```
75Bg0321              STATION = 75ABg0321;
75Bg0321              DATE = 8/21/75;
75Bg0321              QUAD = KC B-5;
75Bg0321              LAT = 55/16/06;
75Bg0321              LONG = 131/22/31;
75Bg0321              PURPOSE = Geol, geochem;
75Bg0321    TEXT-TOPIC = Lith;
75Bg0321
75Bg0321    STRUCTURE;
75Bg0321         FOL-SCH = 280/30;
75Bg0321
75Bg0321SA  SAMPLE NUMBER = 75ABg0321A;
75Bg0321SA       UNIT = SMVS;
75Bg0321SA       SOURCE = OTC;
75Bg0321SA       TYPE = Repres;
75Bg0321SA       PURPOSE = Hand spec, spec;
75Bg0321SA       CONDITION = Fresh;
75Bg0321SA       REMARKS = Several spls (2 bags) to illust variety of rk types at and near station.
75Bg0321SA       REMARKS = Gx spl coll fr rusty-wx zone in meta.;
75Bg0321SA
75Bg0321T   TEXT = Fine to medium grain schist and hornfels derived from interbedded volcanic and sedimentary rocks.
75Bg0321T         There is also schistose Hbl Dio (which may be mafic metavolc) and flispr-porphytc granodio
75Bg0321T         (which evid ocurs mainly as thin, semiconcordant dikes).
75Bg0321T         See no mbe, or cataclastic GDio.
75Bg0321T         The bedded meta rx cont varyg props of Qz, Pc, Bi, Ga, Cl, Act, Mu, and Ep/cz.  Some of them
75Bg0321T         are vy finely banded silicic rx that might be flsc metavolc.
75Bg0321T         I still don't know which, if any, of the meta units I have seen elsewhere on s.w. Revillo Isl
75Bg0321T         correlates with these.;
75Bg0321    ------------------------------------------------------------------------------------------------
#
75Bg0322              STATION = 75ABg0322;
75Bg0322              DATE = 8/21/75;
75Bg0322              QUAD = KC B-5;
75Bg0322              LAT = 55/16/22;
75Bg0322              LONG = 131/22/09;
75Bg0322              PURPOSE = Geol, geochem;
75Bg0322
75Bg0322    TEXT-TOPIC = Lith;
75Bg0322
75Bg0322    STRUCTURE;
75Bg0322         FOL-SCH = 350/25;
75Bg0322         OTHER-LIN = 042/20 (M, Str);
75Bg0322
75Bg0322SA  SAMPLE NUMBER = 75ABg0322A;
75Bg0322SA       UNIT = SMP;
75Bg0322SA       SOURCE = OTC;
75Bg0322SA       TYPE = Repres;
75Bg0322SA       PURPOSE = Hand spec, spec;
75Bg0322SA       DESCRIPTION = Sed, met;
75Bg0322SA       LITH = Metapelite;
75Bg0322SA       FORM = Bedded;
75Bg0322SA       MINS = Qtz, Plag, Bio, Act, Garn, Musc;
75Bg0322SA       TEXTURE = Schistose;
75Bg0322SA       CONDITION = Fresh;
75Bg0322SA       REMARKS = Gx spl coll from rusty-wx zone in metapelite.;
75Bg0322SA
75Bg0322SA  SAMPLE NUMBER = 75ABg0322B;
75Bg0322SA       UNIT = SMP;
75Bg0322SA       SOURCE = OTC;
75Bg0322SA       TYPE = Repres;
75Bg0322SA       PURPOSE = Hand spec;
```

```
75Bg0322SA      DESCRIPTION = Sed, met;
75Bg0322SA      LITH = Metapelite;
75Bg0322SA      FORM = Bedded;
75Bg0322SA      MINS = Qtz, Plag, Hbl, Bio;
75Bg0322SA      TEXTURE = Schistose;
75Bg0322SA      CONDITION = Fresh;
75Bg0322SA      REMARKS = Spl coll from small point due east of station.;
75Bg0322SA
75Bg0322T  TEXT = Loc rsty-wx dk gy and olive fine grain schist derived mainly from thinly interbedded pelitic
75Bg0322T         sedimentary rocks.  Most of the layers are tough, dense--Qz augen para fol.  This unit looks
75Bg0322T         like rusty-wx pyritic black argillite of W. Geo. Inlet.
75Bg0322T         Garn metaxts, Act, Musco most abndnt meta minls.
75Bg0322T         Unit intruded by one or two ylsh-bn-wx GDio dikes.
75Bg0322T         Nearly all stream gravel in creek s. of station is granodio, sugg that pluton crops out not far
75Bg0322T         upstream.  See no cata GDio in this float, or elsewhere at this locality.
75Bg0322T         Smll point due E. of sta. is HO-BI-QZ-PC schist derived from pelite and prob volc gwk (Spl 322B).;
75Bg0322  ------------------------------------------------------------------------------------------------
#
75Bg0323             STATION = 75ABg0323;
75Bg0323             DATE = 8/21/75;
75Bg0323             QUAD = KC B-5;
75Bg0323             LAT = 55/17/50;
75Bg0323             LONG = 131/20/30;
75Bg0323
75Bg0323   TEXT-TOPIC = Econ geol;
75Bg0323
75Bg0323SA SAMPLE NUMBER = 75ABg0323A;
75Bg0323SA      REMARKS = Samples of ore and country rocks, Moth Bay Zn-Cu deposit.;
75Bg0323SA
75Bg0323T  TEXT = Moth Bay Zn-Cu Deposit;
75Bg0323T         Looks like a stratabound msv, Zn, Cu, Fe sulfide deposit in a roof pendant of pyritic black
75Bg0323T         argillite simlr to high zinc background argillite unit in George Inlet.  The principal sulfide
75Bg0323T         bearing unit at the mine seems to be schistose leucoaplite, a leucocratic Qz-Plag-Mu rock that evil
75Bg0323T         was chemically and structurally favorable for accumulation of sulfides, presumably derived from
75Bg0323T         the argill country rx.  It is this rock that has been called "muscovite schist" by earlier workers.
75Bg0323T         We believe it is a sheared intrusive, simlr to the main ore horizon on Hump Island.  The "biotite
75Bg0323T         schist" of earlier workers appears to be mainly Qz-Bi-Pc-Ga schistose granodiorite, probably
75Bg0323T         derived from the msv, nonfol GDio pluton surrounding the argill roof pendant.  If this schist
75Bg0323T         is cataclastic, there may also be some connection between the cataclasis and the mineralization.
75Bg0323T         But I doubt this, mainly bec the cataclasite (GDio) elsewhere is not mineralized, even when it
75Bg0323T         is mixed w/ argill country rx.  This leaves the leucoaplite as the "ore engine" I think---
75Bg0323T         exactly how it functioned we do not yet know, but the fact that it is main host for sulfs at
75Bg0323T         Moth Bay and Hump Island, and occurs at Londevan Mine, certainly makes it a prime component in
75Bg0323T         ore genesis on s.w. Revilla Island, and perhaps elsewhere in belt of high Zn background argillite.;
75Bg0323  ------------------------------------------------------------------------------------------------
#
75Bg0324             STATION = 75ABg0324;
75Bg0324             DATE = 8/25/75;
75Bg0324             QUAD = KC B-4;
75Bg0324             LAT = 55/20/26;
75Bg0324             LONG = 131/15/35;
75Bg0324             PURPOSE = Geol, geochem;
75Bg0324
75Bg0324   TEXT-TOPIC = Lith;
75Bg0324
75Bg0324   STRUCTURE;
75Bg0324        FOL-SCH = 265/68;
75Bg0324        OTHER-LIN = 022/40 (M);
75Bg0324        OTHER = 1/2 Meter Lampro Dike 260/70;
75Bg0324
75Bg0324SA SAMPLE NUMBER = 75ABg0324A;
```

```
75Bg0324SA      UNIT = SMV;
75Bg0324SA      SOURCE = OTC;
75Bg0324SA      TYPE = Repres;
75Bg0324SA      PURPOSE = Hand spec, spec;
75Bg0324SA      DESCRIPTION = Extr, Sed, met;
75Bg0324SA      LITH = Schistose metavolcanic;
75Bg0324SA      MINS = Act, Chl, Musc;
75Bg0324SA      TEXTURE = Schistose;
75Bg0324SA      CONDITION = Fresh;
75Bg0324SA      REMARKS = Gx spl coll for backgr;
75Bg0324SA
75Bg0324SA SAMPLE NUMBER = 75ABg0324B;
75Bg0324SA      UNIT = SMV;
75Bg0324SA      SOURCE = OTC;
75Bg0324SA      TYPE = Repres;
75Bg0324SA      PURPOSE = Hand spec, spec;
75Bg0324SA      DESCRIPTION = Intr, met;
75Bg0324SA      LITH = Leucoaplite;
75Bg0324SA      FORM = "Dill";
75Bg0324SA      MINS = Qtz, Plag, Py;
75Bg0324SA      TEXTURE = Microgranular;
75Bg0324SA      CONDITION = Alter, rusty-wx;
75Bg0324SA      REMARKS = Gx spl coll for bckgr;
75Bg0324SA
75Bg0324SA SAMPLE NUMBER = 75ABg0324C;
75Bg0324SA      UNIT = HMP;
75Bg0324SA      SOURCE = OTC;
75Bg0324SA      TYPE = Repres;
75Bg0324SA      PURPOSE = Hand spec, spec;
75Bg0324SA      DESCRIPTION = Sed, met;
75Bg0324SA      LITH = Pyritic argillite;
75Bg0324SA      FORM = Bedded;
75Bg0324SA      MINS = Py, Graph;
75Bg0324SA      TEXTURE = Hardened phyllitic;
75Bg0324SA      CONDITION = Alter, loc rusty wx;
75Bg0324SA      REMARKS = Gx spl coll for backgr;
75Bg0324SA
75Bg0324T  TEXT = Greenish-gray Act-Cl-Mu schist probably derived from volcanic sedimentary rocks.  Some of the Act
75Bg0324T         is alined, some is randomly oriented (in the plane of the fol).
75Bg0324T         Subord layers up to a few cm tk of Bio schist sugg interbedded pelitic rock.
75Bg0324T         Loc rusty-wx Qtz vns to 1 meter thick--some parallel, some xcut fol.
75Bg0324T         The schist is in contact w/ a 10 meter zone of tan to rusty wx schistose (margin) to msv (core)
75Bg0324T         light greenish gray rock cont Qz, Pc, Py.  Foliation is parallel to that in schist.  Rk prob is a
75Bg0324T         Sil or semiconcordant dike ("Dill") of leucoaplite simlr to others we hsve mapped on s.w. Revilla
75Bg0324T         Isl.  Betw sta & creek to n. rx are mainly rusty-wx Pytc argillite (HMP), + subord tan-wx schistose
75Bg0324T         leucoaplite, Qtz vns, and v. crse Act-Bi-Musc schist.;
75Bg0324  ------------------------------------------------------------------------------------------------------
#
75Bg0325            STATION = 75ABg0325;
75Bg0325            DATE = 8/25/75;
75Bg0325            QUAD = KC B-4;
75Bg0325            LAT = 55/20/34;
75Bg0325            LONG = 131/15/40;
75Bg0325            PURPOSE = Geol;
75Bg0325
75Bg0325   TEXT-TOPIC = Lith, strat, foss;
75Bg0325
75Bg0325   STRUCTURE:
75Bg0325        FOL-SCH = 278/v;
75Bg0325        AXIAL-PLANE = 045/v;
75Bg0325        FOLD-AXIS = 045/80;
```

```
7496.    75Bg0325
7497.    75Bg0325SA SAMPLE NUMBER = 75ABg0325A;
7498.    75Bg0325SA      UNIT = Pzm;
7499.    75Bg0325SA      SOURCE = Float;
7500.    75Bg0325SA      TYPE = Repres;
7501.    75Bg0325SA      PURPOSE = Hand spec, foss deter;
7502.    75Bg0325SA      DESCRIPTION = Sed, met;
7503.    75Bg0325SA      LITH = Crinoidal marble;
7504.    75Bg0325SA      FORM = Bedded;
7505.    75Bg0325SA      MINS = Carb;
7506.    75Bg0325SA      TEXTURE = Granoblastic-schistose;
7507.    75Bg0325SA      CONDITION = Fresh;
7508.    75Bg0325SA      REMARKS = Very sparse crinoid columnals to 1 cm in diam.  Occur mainly (exclusively?) in
7509.    75Bg0325SA      REMARKS = med dk gy beds, which seem less rxld than ylsh gy-wx beds.;
7510.    75Bg0325SA
7511.    75Bg0325T  TEXT = Crinoidal marble.  Intensely and complexly folded at all scales.  On s. side of mbe otcp,
7512.    75Bg0325T         it is infolded with dk gy pytc argillite.  Units are struct conf, but no way to confirm whether
7513.    75Bg0325T         they are in strat sequence.  However, argil & marble evid are interbedded at ctct, which indics
7514.    75Bg0325T         that they are in strat sequence.
7515.    75Bg0325T         Marble is mostly coarse sugary textured--mm size grains are common.  Dk gy/brn-wx layers alt w/
7516.    75Bg0325T         light ylsh gy layers.  Tkns rngs from 1/2 cm to 10 cm or so.  Numerous Qtz vns para fol.;
7517.    75Bg0325  ----------------------------------------------------------------------------------------------
7518.    *
7519.    75Bg0326             STATION = 75ABg0326;
7520.    75Bg0326             DATE = 8/25/75;
7521.    75Bg0326             QUAD = KC B-4;
7522.    75Bg0326             LAT = 55/20/40;
7523.    75Bg0326             LONG = 131/25/38;
7524.    75Bg0326
7525.    75Bg0326   STRUCTURE;
7526.    75Bg0326        FOLD-AXIS = 060/45;
7527.    75Bg0326        OTHER = Qb? Dike 042/v;
7528.    75Bg0326
7529.    75Bg0326SA SAMPLE NUMBER = 75ABg0326A;
7530.    75Bg0326SA      UNIT = Pzm;
7531.    75Bg0326SA      SOURCE = Float;
7532.    75Bg0326SA      TYPE = Repres;
7533.    75Bg0326SA      PURPOSE = Hand spec;
7534.    75Bg0326SA      DESCRIPTION = Sed, met;
7535.    75Bg0326SA      LITH = Marble;
7536.    75Bg0326SA      MINS = Qtz, Carb, Tremolite;
7537.    75Bg0326SA      TEXTURE = Porphyroblastic;
7538.    75Bg0326SA      CONDITION = Fresh;
7539.    75Bg0326SA
7540.    75Bg0326T  TEXT = Thinly (3-30 cm) interbedded light gray rxld silty lst and dark gy to olive gray Calc sltstn.
7541.    75Bg0326T         Some layers cont abndnt tremolite.  These beds are lith unlike marble at 325 and evid are not
7542.    75Bg0326T         fossiliferous.  They are intercalated with dk green Act-Cl schist (SMV) and w/ tan-wx flsc sch
7543.    75Bg0326T         that could be rxld leucoaplite.  There also are some basaltic dikes, and abundant float of
7544.    75Bg0326T         Ho-Pc rk that prob is hbdte, Hbl gabb/dio.  The Hbl rich rk prob crops out not far inland.
7545.    75Bg0326T         W/o foss, I can't det age of bdd rx.  They could be Triassic because they lith resmble some uTr
7546.    75Bg0326T         units in A-3 area.  However, they seem to be struct concordant w/ uPz marble and I have no evidence
7547.    75Bg0326T         that they aren't uPz.
7548.    75Bg0326T         About halfway betw 325 & 326 unit contains increasg no. of gray mbe beds and some of them contain
7549.    75Bg0326T         poss crinoids.  They also cont increasg amt of tremolite.;
7550.    75Bg0326  ----------------------------------------------------------------------------------------------
7551.    *
7652.    75Bg0327             STATION = 75ABg0327;
7653.    75Bg0327             DATE = 8/25/75;
7654.    75Bg0327             QUAD = KC B-4;
7655.    75Bg0327             LAT = 55/20/51;
7656.    75Bg0327             LONG = 131/15/51;
```

```
75Bg0327              PURPOSE = Geol;
75Bg0327
75Bg0327   TEXT-TOPIC = Lith;
75Bg0327
75Bg0327   STRUCTURE:
75Bg0327        FOL-SCH = 330/48;
75Bg0327
75Bg0327SA SAMPLE NUMBER = 75ABg0327A;
75Bg0327SA      UNIT = SMV;
75Bg0327SA      SOURCE = OTC;
75Bg0327SA      TYPE = Repres;
75Bg0327SA      PURPOSE = Hand spec;
75Bg0327SA      DESCRIPTION = Extr, met;
75Bg0327SA      LITH = Metavolcanic;
75Bg0327SA      FORM = Flow?;
75Bg0327SA      MINS = Carb, Act, Chl, Ep/Clz;
75Bg0327SA      TEXTURE = Microgranular, relict amygd;
75Bg0327SA      CONDITION = Fresh;
75Bg0327SA
75Bg0327T  TEXT = Dark green schist and semischist derived from mafic volcanic rocks.  This unit seems to intertongue
75Bg0327T        with rxld lst-calc sltstn unit.  At least, the two are intercalated on a scale of cms just south
75Bg0327T        of station.  In genl, metavolc unit struct dlies Carb unit, which crops out at treeline.
75Bg0327T        Some of the mvolc is vesicular--rel unsheared parts cons of ovoid masses to 1/2 m x 1 m that are
75Bg0327T        sep by Cl-Act schist and subord lite ylsh gy wx marble. Relict structs sugg that unit is at
75Bg0327T        least partly derived from pillow flows.  These are intercal w/ aphanitic green phyllite/semischist
75Bg0327T        prob der from bsltc tuff.
75Bg0327T        Qtz vns x - fol.;
75Bg0327  ----------------------------------------------------------------------------------------------------
#
75Bg0328              STATION = 75ABg0328;
75Bg0328              DATE = 8/25/75;
75Bg0328              QUAD = KC B-4;
75Bg0328              LAT = 55/21/02;
75Bg0328              LONG = 131/16/25;
75Bg0328              PURPOSE = Geol;
75Bg0328
75Bg0328   TEXT-TOPIC = Lith, strat, foss;
75Bg0328
75Bg0328   STRUCTURE:
75Bg0328        FOL-SCH = 285/45;
75Bg0328        OTHER-LIN = 070/40 (B/C);
75Bg0328
75Bg0328SA SAMPLE NUMBER = 75ABg0328A;
75Bg0328SA      UNIT = Pzm;
75Bg0328SA      SOURCE = Float;
75Bg0328SA      TYPE = Foss;
75Bg0328SA      PURPOSE = Hand spec;
75Bg0328SA      DESCRIPTION = Sed, met;
75Bg0328SA      LITH = Marble;
75Bg0328SA      MINS = Qtz, Carb;
75Bg0328SA      TEXTURE = Granoblastic;
75Bg0328SA      CONDITION = Fresh;
75Bg0328SA      REMARKS = Marble contains objects that resemble fusulinids.;
75Bg0328SA
75Bg0328T  TEXT = Float at mouth of creek contains abundant gray marble that contains sparse dark brown cm-long
75Bg0328T        ellipsoidal objects that resemble fusulinids.  This and other float, such as pyritic phyllite,
75Bg0328T        remind me of rx in Londevan Mine dump in George Inlet.
75Bg0328T        Some of the MB also conts apprec tremolite.  From abndnce, size of MB float, I hlv it must crop
75Bg0328T        out in creek drainage not far from beach.
75Bg0328T        Rx in otcp on beach are more or less calcareous mixed schistose pelitic seds (BI) and green
75Bg0328T        (chlor-Act) metavolcs (volc gwk?).  Some of the sc mvolcs contain lenses to 3 x 12 cm of rel msv
```

```
75Bg0328T        amygdaloidal (CA) aphanite that prob are relict volcanic (pillow?) clasts.  See no granitic clasts,
75Bg0328T        but there are some Qz-Ca lumps (rndd pebbles or disrupted veins?).  The volc-clast sch loc is interb w/
75Bg0328T        msv volc bx that almost certainly is aquagene tuff.;
75Bg0328  ------------------------------------------------------------------------------------------------------
*
75Bg0329             STATION = 75ABg0329;
75Bg0329             DATE = 8/25/75;
75Bg0329             QUAD = KC B-4;
75Bg0329             LAT = 55/21/12;
75Bg0329             LONG = 131/16/27;
75Bg0329             PURPOSE = Geol;
75Bg0329
75Bg0329   TEXT-TOPIC = Lith;
75Bg0329
75Bg0329   STRUCTURE;
75Bg0329        FOL-SCH = 285/70;
75Bg0329
75Bg0329SA SAMPLE NUMBER = 75ABg0329A;
75Bg0329SA      UNIT = SMV;
75Bg0329SA      SOURCE = OTC;
75Bg0329SA      TYPE = Repres;
75Bg0329SA      PURPOSE = Hand spec, spec;
75Bg0329SA      DESCRIPTION = Intr, met;
75Bg0329SA      LITH = Hbl Gabbro;
75Bg0329SA      FORM = Pluton;
75Bg0329SA      MINS = Plag, Hbl;
75Bg0329SA      TEXTURE = Coarse hypidiomorphic;
75Bg0329SA      CONDITION = Fresh;
75Bg0329SA      REMARKS = Gx spl coll for background;
75Bg0329SA
75Bg0329T  TEXT = Schistose metavolc (SMV) inclusion? 2 or 3 meters wide in coarse msv to schistose Hbl gabbro.;
75Bg0329  ------------------------------------------------------------------------------------------------------
*
75Bg0330             STATION = 75ABg0330;
75Bg0330             DATE = 8/25/75;
75Bg0330             QUAD = KC B-4;
75Bg0330             LAT = 55/21/29;
75Bg0330             LONG = 131/17/00;
75Bg0330             PURPOSE = Geol;
75Bg0330
75Bg0330   TEXT-TOPIC = Lith;
75Bg0330
75Bg0330   STRUCTURE;
75Bg0330        FOL-SCH = 316/55;
75Bg0330
75Bg0330SA SAMPLE NUMBER = 75ABg0330A;
75Bg0330SA      UNIT = SMVS;
75Bg0330SA      SOURCE = OTC;
75Bg0330SA      TYPE = Repres;
75Bg0330SA      PURPOSE = Hand spec;
75Bg0330SA      DESCRIPTION = Sed, met;
75Bg0330SA      LITH = Metapelite;
75Bg0330SA      MINS = Qtz, Plag, Bio, Carb;
75Bg0330SA      TEXTURE = Schistose, relict amygdaloidal?;
75Bg0330SA      CONDITION = Fresh;
75Bg0330SA      REMARKS = Spl coll 30 m from s. bank of creek abt 1/8 mi n. of sta.
75Bg0330SA      REMARKS = Coll fr one 8 cm bed of Bio sch cont tan-wx flattened rods of calcite
75Bg0330SA      REMARKS = up to 1 cm in diam and several cm long.;
75Bg0330SA
75Bg0330T  TEXT = Outcrops alternate mainly between green-wx Act-chlor schist & semischist cont discont layers,
75Bg0330T        laminae of bn-wx mbs (SMV-type metavolcs), and dk gy/brn/olive-wx schist der from thinly
```

```
7779.   75Bg0330T        interbedded Calc sltstn & silty lst (SMS-type unit).  There are also mafic dikes (prob Qb feeders),
7780.   75Bg0330T        and msv-schistose femag-plag rock that might be rxld HO Dio intrsv.
7781.   75Bg0330T        Prom 2-3 cm diam rosettes of Act on some fol surfs in SMV.
7782.   75Bg0330T        Loc prom Qz-carb vns.
7783.   75Bg0330T        Float at mouth of creek 1/4 mi n. of station cons mainly of green schistose metavolc rx.
7784.   75Bg0330T        See no mbe, rndstn cgl, granitic material.;
7785.   75Bg0330  ----------------------------------------------------------------------------------------------------
7786.   *
7787.   75Bg0331             STATION = 75ABg0331;
7788.   75Bg0331             DATE = 8/25/75;
7789.   75Bg0331             QUAD = KC B-4;
7790.   75Bg0331             LAT = 55/21/43;
7791.   75Bg0331             LONG = 131/17/10;
7792.   75Bg0331             PURPOSE = Geol;
7793.   75Bg0331
7794.   75Bg0331   TEXT-TOPIC = Lith, strat;
7795.   75Bg0331
7796.   75Bg0331   STRUCTURE;
7797.   75Bg0331        FOL-SCH = 330/64;
7798.   75Bg0331        OTHER = Ctct 330/69;
7799.   75Bg0331
7800.   75Bg0331SA SAMPLE NUMBER = 75ABg0331A;
7801.   75Bg0331SA      UNIT = SMS (Metacgl);
7802.   75Bg0331SA      SOURCE = OTC;
7803.   75Bg0331SA      TYPE = Repres;
7804.   75Bg0331SA      PURPOSE = Hand spec;
7805.   75Bg0331SA      DESCRIPTION = Sed, met;
7806.   75Bg0331SA      LITH = Metaconglomerate;
7807.   75Bg0331SA      FORM = Bedded;
7808.   75Bg0331SA      MINS = Qtz, Plag, Bio, Act, Chl;
7809.   75Bg0331SA      TEXTURE = Schistose;
7810.   75Bg0331SA      CONDITION = Fresh;
7811.   75Bg0331SA      REMARKS = Granitoid clast and adjacent matrix.;
7812.   75Bg0331SA
7813.   75Bg0331T  TEXT = Ctct betw SMV or SMVS-type Act-Cl-Mu schist on S. and roundstone metaconglomerate on N. Units are
7814.   75Bg0331T        struct concordant.  There is a little Qtz at ctct, but nothing to sugg a major strat or struct break.
7815.   75Bg0331T        Clasts in metacgl range from very thin & elongate to nearly perfectly spherical.  Most of the
7816.   75Bg0331T        elongate ones seem to be fine grained aphan sch prob der from fn gn sed and (or) volc rx.
7817.   75Bg0331T        Most of the spher. ones are leucocratic aphanitic, microgran, and granitic rocks comp mainly of Qtz
7818.   75Bg0331T        and fspr.  Flattened clasts range up to 2x12 cm--spher clasts range from 1 cm to 15-20 cm in
7819.   75Bg0331T        max dimens.
7820.   75Bg0331T        Matrix of cgl is BI-ACT-CHLOR-MUSC schist.
7821.   75Bg0331T        W/in a few meters of ctct, metacgl grades struct upward into thinly lam metapelite cont sparse
7822.   75Bg0331T        pebbles of leucoplut rock.
7823.   75Bg0331T        100 m N. of station, cgl unit is struct plain (concord) by Act-Cl-Ca (MB) schist
7824.   75Bg0331T        (SMV-type metavolcs). Ctct not exposed.;
7825.   75Bg0331  ----------------------------------------------------------------------------------------------------
7826.   *
7827.   75Bg0332             STATION = 75ABg0332;
7828.   75Bg0332             DATE = 8/25/75;
7829.   75Bg0332             QUAD = KC B-4;
7830.   75Bg0332             LAT = 55/21/55;
7831.   75Bg0332             LONG = 131/17/05;
7832.   75Bg0332             PURPOSE = Geol;
7833.   75Bg0332
7834.   75Bg0332   TEXT-TOPIC = Lith;
7835.   75Bg0332
7836.   75Bg0332   STRUCTURE;
7837.   75Bg0332        FOL-SCH = 316/50;
7838.   75Bg0332        OTHER = 316/50;
7839.   75Bg0332
```

```
7840.      75Bg0332SA SAMPLE NUMBER = 75ABg0332A;
7841.      75Bg0332SA      UNIT = SMS (Metacgl);
7842.      75Bg0332SA      PURPOSE = Hand spec, T. S., Chem;
7843.      75Bg0332SA      DESCRIPTION = Sed, met;
7844.      75Bg0332SA      LITH = Leucocratic plut rk;
7845.      75Bg0332SA      FORM = Clast from cgl;
7846.      75Bg0332SA      MINS = Qtz, Plag, Bio, Py, Garn;
7847.      75Bg0332SA      TEXTURE = Granitic/granoblastic;
7848.      75Bg0332SA      CONDITION = Fresh;
7849.      75Bg0332SA
7850.      75Bg0332SA SAMPLE NUMBER = 75ABg0332B;
7851.      75Bg0332SA      UNIT = SMS (Metacgl);
7852.      75Bg0332SA      SOURCE = OTC;
7853.      75Bg0332SA      TYPE = Repres;
7854.      75Bg0332SA      PURPOSE = Hand spec, T. S., Chem;
7855.      75Bg0332SA      DESCRIPTION = Sed, met;
7856.      75Bg0332SA      LITH = Leucocrat plut rk;
7857.      75Bg0332SA      FORM = Clast fr cgl;
7858.      75Bg0332SA      MINS = Qtz, Plag, Bio, Py;
7859.      75Bg0332SA      TEXTURE = Granitic/granoblastic;
7860.      75Bg0332SA      CONDITION = Fresh;
7861.      75Bg0332SA
7862.      75Bg0332SA SAMPLE NUMBER = 75ABg0332C;
7863.      75Bg0332SA      UNIT = SMS (Metacgl);
7864.      75Bg0332SA      SOURCE = Float;
7865.      75Bg0332SA      TYPE = Repres;
7866.      75Bg0332SA      PURPOSE = Hand spec, T. S.;
7867.      75Bg0332SA      DESCRIPTION = Sed, met;
7868.      75Bg0332SA      LITH = Metaconglomerate;
7869.      75Bg0332SA      MINS = Qtz, Plag, Bio, Act;
7870.      75Bg0332SA      TEXTURE = Schistose, relict fragmental;
7871.      75Bg0332SA      CONDITION = Fresh;
7872.      75Bg0332SA
7873.      75Bg0332T  TEXT = Ctct betw rndstn metacgl as at 331 and schistose metavolcs cont thin, discont layers and lenses
7874.      75Bg0332T        of tan-wx mbe.
7875.      75Bg0332T        Unit ranges from pebbly metapelite with few, widely sep clasts, to rexld rndstn grit & cgl cont
7876.      75Bg0332T        nearly touching clasts.  There are also a little dk gy silty lst or calc sltstn in discont
7877.      75Bg0332T        layers, lenses to 10 cm thick and a meter or two long.  Sporadic Qtz vns to 1/2 meter.
7878.      75Bg0332T        See 331 for descr of cgl lith and texture.;
7879.      75Bg0332  ----------------------------------------------------------------------------------------------
7880.      *
7880.01    75Bg0333            STATION = 75ABg0333;
7880.02    75Bg0333            DATE = 8/25/75;
7880.03    75Bg0333            QUAD = KC B-4;
7880.04    75Bg0333            LAT = 55/22/07;
7880.05    75Bg0333            LONG = 131/16/58;
7880.06    75Bg0333            PURPOSE = Geol, geochem;
7880.07    75Bg0333
7880.08    75Bg0333   TEXT-TOPIC = Lith;
7880.09    75Bg0333
7880.1     75Bg0333   STRUCTURE;
7880.11    75Bg0333        FOL-SCH = 335/40;
7880.12    75Bg0333
7880.13    75Bg0333SA SAMPLE NUMBER = 75ABg0333A;
7880.14    75Bg0333SA      UNIT = SMS;
7880.15    75Bg0333SA      SOURCE = OTC;
7880.16    75Bg0333SA      TYPE = Repres;
7880.17    75Bg0333SA      PURPOSE = Hand spec, spec;
7880.18    75Bg0333SA      LITH = Metapelite;
7880.19    75Bg0333SA      MINS = Qtz, Plag, Bio, Act, Garn;
7880.2     75Bg0333SA      TEXTURE = Schistose;
```

```
7880.21   75Bg0333SA      CONDITION = Fresh;
7880.22   75Bg0333SA      REMARKS = Gx spl coll for background;
7880.23   75Bg0333SA
7880.24   75Bg0333T  TEXT = Schistose metapelite (GA-BI-ACT?) derived from thinly interbedded sltstn, graywacke, and mistn.
7880.25   75Bg0333T        Traces of dissem Py.  See no rxld lst layers--no pebbles at station, but they do occur in unit
7880.26   75Bg0333T        a short dist struct upsection.  This pebbly metapelite, however, contains rel few rndstones of felsic
7880.27   75Bg0333T        or granitic rock.  Instead, most of the relict clasts are schist and semischist derived from pelitic
7880.28   75Bg0333T        (gray) and prob volc or volcclstc (green) rocks.  Many of these clasts are wafer thin and split
7880.29   75Bg0333T        parallel to the foliation of the matrix.;
7880.3    75Bg0333  ------------------------------------------------------------------------------------------------
7880.31   *
7881.     75Bg0334             STATION = 75ABg0334;
7882.     75Bg0334             DATE = 8/26/75;
7883.     75Bg0334             QUAD = KC B-4;
7884.     75Bg0334             LAT = 55/16/58;
7885.     75Bg0334             LONG = 131/17/20;
7886.     75Bg0334             PURPOSE = Geol;
7887.     75Bg0334
7888.     75Bg0334   TEXT-TOPIC = Lith;
7889.     75Bg0334
7890.     75Bg0334   STRUCTURE;
7891.     75Bg0334        JOINT = 140/v;
7892.     75Bg0334        JOINT = 40/v;
7893.     75Bg0334
7894.     75Bg0334SA SAMPLE NUMBER = 75ABg0334A;
7895.     75Bg0334SA      UNIT = Granodiorite (GDIO);
7896.     75Bg0334SA      SOURCE = OTC;
7897.     75Bg0334SA      TYPE = Repres;
7898.     75Bg0334SA      PURPOSE = Hand spec;
7899.     75Bg0334SA      DESCRIPTION = Intr;
7900.     75Bg0334SA      LITH = Granodio;
7901.     75Bg0334SA      FORM = Pluton;
7902.     75Bg0334SA      MINS = Qtz, Plag, Kspr, Hbl, Bio, Ep/Clz;
7903.     75Bg0334SA      TEXTURE = Hypid gran;
7904.     75Bg0334SA      CONDITION = Fresh;
7905.     75Bg0334SA
7906.     75Bg0334T  TEXT = Msv homogeneous fine grain granodio.  Not noticeably foliated and virt free of inclusions.;
7907.     75Bg0334  ------------------------------------------------------------------------------------------------
7908.     *
7909.     75Bg0335             STATION = 75ABg0335;
7910.     75Bg0335             DATE = 8/26/75;
7911.     75Bg0335             QUAD = KC B-4;
7912.     75Bg0335             LAT = 55/17/36;
7913.     75Bg0335             LONG = 131/16/50;
7914.     75Bg0335             PURPOSE = Geol, geochem;
7915.     75Bg0335
7916.     75Bg0335   TEXT-TOPIC = Lith;
7917.     75Bg0335
7918.     75Bg0335   STRUCTURE;
7919.     75Bg0335        FOL-SCR = 335/60;
7920.     75Bg0335
7921.     75Bg0335SA SAMPLE NUMBER = 75ABg0335A;
7922.     75Bg0335SA      UNIT = SMP?;
7923.     75Bg0335SA      SOURCE = OTC;
7924.     75Bg0335SA      TYPE = Repres;
7925.     75Bg0335SA      PURPOSE = Hand spec, spec;
7926.     75Bg0335SA      DESCRIPTION = Intr, met;
7927.     75Bg0335SA      LITH = Metapelite?;
7928.     75Bg0335SA      MINS = Qtz, Plag, Bio, Garn, Musc;
7929.     75Bg0335SA      TEXTURE = Fissile;
7930.     75Bg0335SA      CONDITION = Alter, rusty-wx;
```

```
7931.   75Bg0335SA      REMARKS = Gx spl coll to test rusty-wx zone in flsc schist.;
7932.   75Bg0335SA
7933.   75Bg0335SA SAMPLE NUMBER = 75ABg0335B;
7934.   75Bg0335SA      UNIT = HMP;
7935.   75Bg0335SA      SOURCE = OTC;
7936.   75Bg0335SA      TYPE = Repres;
7937.   75Bg0335SA      PURPOSE = Hand spec;
7938.   75Bg0335SA      DESCRIPTION = Sed, met;
7939.   75Bg0335SA      LITH = Metapelite;
7940.   75Bg0335SA      MINS = Qtz, Plag, Bio, Garn;
7941.   75Bg0335SA      TEXTURE = Granoblastic;
7942.   75Bg0335SA      CONDITION = Fresh;
7943.   75Bg0335SA
7944.   75Bg0335SA SAMPLE NUMBER = 75ABg0335C;
7945.   75Bg0335SA      SOURCE = OTC;
7946.   75Bg0335SA      TYPE = Repres;
7947.   75Bg0335SA      PURPOSE = Hand spec, spec;
7948.   75Bg0335SA      DESCRIPTION = Intr, met;
7949.   75Bg0335SA      LITH = Schistose leucoaplite;
7950.   75Bg0335SA      FORM = Intrusive (Dike?);
7951.   75Bg0335SA      MINS = Qtz, Plag, Py;
7952.   75Bg0335SA      TEXTURE = Schistose-aphanitic;
7953.   75Bg0335SA      CONDITION = Alter, rusty-wx;
7954.   75Bg0335SA      REMARKS = Gx spl coll for bckgr;
7955.   75Bg0335SA
7956.   75Bg0335SA SAMPLE NUMBER = 75ABg0335D;
7957.   75Bg0335SA      UNIT = HMP;
7958.   75Bg0335SA      SOURCE = OTC;
7959.   75Bg0335SA      TYPE = Repres;
7960.   75Bg0335SA      PURPOSE = Hand spec;
7961.   75Bg0335SA      DESCRIPTION = Sed, met;
7962.   75Bg0335SA      LITH = Garnet metapelite;
7963.   75Bg0335SA      MINS = Qtz, Plag, Bio, Garn;
7964.   75Bg0335SA      TEXTURE = Porphyroblastic;
7965.   75Bg0335SA      CONDITION = Fresh;
7966.   75Bg0335SA      REMARKS = Spl coll abt 1/4 mi n. of station.;
7967.   75Bg0335SA
7968.   75Bg0335T  TEXT = Margin of GDio pluton is characterized by a variety of hornfels and schistose metased and
7969.   75Bg0335T        intrusive rocks.
7970.   75Bg0335T        At this station there is schistose dk brsh gy metapelite (biotite-rich), and light ylsh gy to
7971.   75Bg0335T        rusty-wx felsic schist cont Qz, Pc, & traces of Py.  Wx surfs of metapelite are studded w/
7972.   75Bg0335T        eu Garn metaxts to 3 cm in diam.
7973.   75Bg0335T        About 1/4 mi NE of station hornfelsed metapelite is crowded with garnet metacrysts averaging
7974.   75Bg0335T        a cm in diam.  In places the metaxts coalesce into bands and lenses.  One such lens is 4 x 20 cm.;
7975.   75Bg0335  ----------------------------------------------------------------------------------------------------
7976.   #
7977.   75Bg0336            STATION = 75ABg0336;
7978.   75Bg0336            DATE = 8/26/75;
7979.   75Bg0336            QUAD = KC B-4;
7980.   75Bg0336            LAT = 55/18/00;
7981.   75Bg0336            LONG = 131/16/42;
7982.   75Bg0336            PURPOSE = Geol;
7983.   75Bg0336
7984.   75Bg0336   TEXT-TOPIC = Lith;
7985.   75Bg0336
7986.   75Bg0336   STRUCTURE:
7987.   75Bg0336        FOL-SCH = 284/70-v (Gdio + HMP xeno);
7988.   75Bg0336
7989.   75Bg0336SA SAMPLE NUMBER = 75ABg0336A;
7990.   75Bg0336SA      UNIT = QMonz;
7991.   75Bg0336SA      SOURCE = OTC;
```

```
7992.   75Bg0336SA      TYPE = Repres;
7993.   75Bg0336SA      PURPOSE = Hand spec;
7994.   75Bg0336SA      DESCRIPTION = Intr, sed, met;
7995.   75Bg0336SA      LITH = Leucoaplite and Pelitic schist;
7996.   75Bg0336SA      MINS = Qtz, Plag, Bio, Act, Garn, Musc;
7997.   75Bg0336SA      TEXTURE = Microgranular, porphyroblastic, schistose;
7998.   75Bg0336SA      CONDITION = Fresh;
7999.   75Bg0336SA      REMARKS = Leucoaplite dike and adjacent meta country rock;
8000.   75Bg0336SA
8001.   75Bg0336SA SAMPLE NUMBER = 75ABg0336B;
8002.   75Bg0336SA      UNIT = QMonz;
8003.   75Bg0336SA      SOURCE = OTC;
8004.   75Bg0336SA      TYPE = Repres;
8005.   75Bg0336SA      PURPOSE = Hand spec;
8006.   75Bg0336SA      DESCRIPTION = Intr, Met;
8007.   75Bg0336SA      LITH = QMonz;
8008.   75Bg0336SA      FORM = Pluton;
8009.   75Bg0336SA      MINS = Qtz, Plag, Kspr, Bio, Garn;
8010.   75Bg0336SA      TEXTURE = Wkly fol;
8011.   75Bg0336SA      CONDITION = Fresh;
8012.   75Bg0336SA
8013.   75Bg0336T  TEXT = Contact betw gneissic to schistose QM/GD and hornfelsed Garn+Act+Musc metaseds.  Leucoaplite
8014.   75Bg0336T        dikes in metaseds cont pink Garn and dissem Py.
8015.   75Bg0336T        The gneissic QM is very felsic, leucocratic, and contains garnet and a percent or so of Bio.
8016.   75Bg0336T        Gnc bandg is rel faint, discont, and on < meter scale.  Dark bands = Bio-rich rock.
8017.   75Bg0336T        The schistose QM is in a 3 meter wide zone between the gnc QM and GA-bearg HMP + QM dills.;
8018.   75Bg0336  ----------------------------------------------------------------------------------------------
8019.   #
8020.   75Bg0337             STATION = 75ABg0337;
8021.   75Bg0337             DATE = 8/26/75;
8022.   75Bg0337             QUAD = KC B-4;
8023.   75Bg0337             LAT = 55/18/21;
8024.   75Bg0337             LONG = 131/16/24;
8025.   75Bg0337             PURPOSE = Geol, geochem;
8026.   75Bg0337
8027.   75Bg0337   TEXT-TOPIC = Lith;
8028.   75Bg0337
8029.   75Bg0337   STRUCTURE;
8030.   75Bg0337        FOL-SCH = 006/60;
8031.   75Bg0337
8032.   75Bg0337SA SAMPLE NUMBER = 75ABg0337A;
8033.   75Bg0337SA      UNIT = GDio;
8034.   75Bg0337SA      SOURCE = OTC;
8035.   75Bg0337SA      TYPE = Repres;
8036.   75Bg0337SA      PURPOSE = Hand spec, spec;
8037.   75Bg0337SA      DESCRIPTION = Intr;
8038.   75Bg0337SA      LITH = Granodio;
8039.   75Bg0337SA      FORM = Plut;
8040.   75Bg0337SA      MINS = Qtz, Plag, Kspr, Hbl, Bio;
8041.   75Bg0337SA      TEXTURE = Hyp. Gran.;
8042.   75Bg0337SA      CONDITION = Fresh;
8043.   75Bg0337SA      REMARKS = Gx spl coll for bckgr;
8044.   75Bg0337SA
8045.   75Bg0337T  TEXT = Gneissic granodiorite.
8046.   75Bg0337T        Gnc struct is def by rel flsc layers 3-4 cm tk and a meter or so apart.  Some of the rock is
8047.   75Bg0337T        homogeneous and does not show this structure.;
8048.   75Bg0337  ----------------------------------------------------------------------------------------------
8049.   #
8050.   75Bg0338             STATION = 75ABg0338;
8051.   75Bg0338             DATE = 8/26/75;
8052.   75Bg0338             QUAD = KC B-4;
```

```
75Bg0338            LAT = 55/19/00;
75Bg0338            LONG = 131/16/00;
75Bg0338            PURPOSE = Geol, geochem;
75Bg0338
75Bg0338   TEXT-TOPIC = Lith, reg geol/tect, metamorphism;
75Bg0338
75Bg0338   STRUCTURE;
75Bg0338        FOL-SCH = 295/35;
75Bg0338        OTHER = Fspr Porp Sills 295/35;
75Bg0338
75Bg0338SA SAMPLE NUMBER = 75ABg0338A;
75Bg0338SA      UNIT = SMP;
75Bg0338SA      SOURCE = OTC;
75Bg0338SA      TYPE = Repres;
75Bg0338SA      PURPOSE = Hand spec;
75Bg0338SA      DESCRIPTION = Sed, met;
75Bg0338SA      LITH = Metapelite;
75Bg0338SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0338SA      TEXTURE = Fine schistose;
75Bg0338SA      CONDITION = Fresh;
75Bg0338SA
75Bg0338SA SAMPLE NUMBER = 75ABg0338B;
75Bg0338SA      UNIT = SMP;
75Bg0338SA      SOURCE = OTC;
75Bg0338SA      TYPE = Repres;
75Bg0338SA      PURPOSE = Hand spec;
75Bg0338SA      DESCRIPTION = Extr, sed, met;
75Bg0338SA      LITH = Intercal metapel & metavolc;
75Bg0338SA      MINS = Qtz, Plag, Hbl, Bio, Act, Garn;
75Bg0338SA      TEXTURE = Schistose;
75Bg0338SA      CONDITION = Fresh;
75Bg0338SA
75Bg0338SA SAMPLE NUMBER = 75ABg0338C;
75Bg0338SA      UNIT = SMP;
75Bg0338SA      SOURCE = OTC;
75Bg0338SA      TYPE = Repres;
75Bg0338SA      PURPOSE = Hand spec, T. S., Spec;
75Bg0338SA      DESCRIPTION = Intr, met;
75Bg0338SA      LITH = Felsic intrusive?;
75Bg0338SA      FORM = Dill;
75Bg0338SA      MINS = Qtz, Plag, Bio, Musc;
75Bg0338SA      TEXTURE = Schistose--microporphyritic;
75Bg0338SA      CONDITION = Fresh;
75Bg0338SA      REMARKS = Gx spl coll for bckgr;
75Bg0338SA
75Bg0338SA SAMPLE NUMBER = 75ABg0338D;
75Bg0338SA      UNIT = SMP;
75Bg0338SA      SOURCE = OTC;
75Bg0338SA      TYPE = Repres;
75Bg0338SA      PURPOSE = Hand spec;
75Bg0338SA      DESCRIPTION = Intr;
75Bg0338SA      LITH = Ga-bearg fldspr porphyry;
75Bg0338SA      FORM = 1 m sill;
75Bg0338SA      MINS = Qtz, Plag, Bio, Garn;
75Bg0338SA      TEXTURE = Porphyritic;
75Bg0338SA      CONDITION = Fresh;
75Bg0338SA      REMARKS = Spl coll from northern of 2 parallel sills about 100 m s. of station.;
75Bg0338SA
75Bg0338T  TEXT = Metapelite (Fn gn BI-GA Sc: SMP) and subord metavolcs or volc seds (ACT-CL Sc).
75Bg0338T        GA-bearing feldspar porph sills 100 m south of station.  Loc, metapel & metavolc are intercal
75Bg0338T        on a scale of a few cm to a meter or so, but well over half the otcp is metapel, some of which
```

```
8114.   75Bg0338T        is studded w/ garnet metaxts to a cm or so in diam.
8115.   75Bg0338T        Some of the metavolc is good going fine-grain amphibolite.
8116.   75Bg0338T        Schistose texture of rx prob due to coarsening of pre-existing phyllite by thermal met at/nr
8117.   75Bg0338T        ctct w/ GDio plut.  Struct concordant w/ metapel is zone 10 meters or so thick of lt gy felsic
8118.   75Bg0338T        schist cont Qz, Fc, Mu, Bi.  Part of it is so rich in Qtz that it might be interp as metachert--
8119.   75Bg0338T        most, however, contains Plag & Bio and prob best interp is that it is schistose intrusive.
8120.   75Bg0338T        Rk conts tiny (1 mm) PXTS of qz.  Reminds me of schistose felsic aphanite/porphyroaphanite dikes
8121.   75Bg0338T        that cut Annette pluton.;
8122.   75Bg0338  ----------------------------------------------------------------------------------------------
8123.   #
8124.   75Bg0339            STATION = 75ABg0339;
8125.   75Bg0339            DATE = 8/26/75;
8126.   75Bg0339            QUAD = KC B-4;
8127.   75Bg0339            LAT = 55/19/07;
8128.   75Bg0339            LONG = 131/15/27;
8129.   75Bg0339            PURPOSE = Geol, geochem;
8130.   75Bg0339
8131.   75Bg0339   TEXT-TOPIC = Lith, reg geol/tect;
8132.   75Bg0339
8133.   75Bg0339   STRUCTURE;
8134.   75Bg0339        FOL-SCH = 315/35;
8135.   75Bg0339        OTHER = Sil 315/35;
8136.   75Bg0339
8137.   75Bg0339SA SAMPLE NUMBER = 75ABg0339A;
8138.   75Bg0339SA      UNIT = SMS;
8139.   75Bg0339SA      SOURCE = OTC;
8140.   75Bg0339SA      TYPE = Repres;
8141.   75Bg0339SA      PURPOSE = Hand spec, T. S., Spec;
8142.   75Bg0339SA      DESCRIPTION = Intr, met;
8143.   75Bg0339SA      LITH = Felsic porphyroaphanite;
8144.   75Bg0339SA      MINS = Qtz, Plag, Py, Musc, Bio, Chl, Garn;
8145.   75Bg0339SA      TEXTURE = Quartz-porphyritic to schistose;
8146.   75Bg0339SA      CONDITION = Fresh;
8147.   75Bg0339SA      REMARKS = Gx spl coll for bckgr;
8148.   75Bg0339SA
8149.   75Bg0339T  TEXT = Porphyritic to schistose quartz-pxt felsic porphyroaphanite sill 10 m thick in Ga-bearing
8150.   75Bg0339T        schistose metaseds (mainly metapelite).
8151.   75Bg0339T        I believe the schistose felsic intrusive, (incl the porphyroaph, aph, and prob some of the
8152.   75Bg0339T        leucoaplite dikes & sills of sw Revilla Island) differ in age and genesis from the +- feldspar-
8153.   75Bg0339T        porphyritic Ga-bearing QDio-GDio-QMonz dikes and sills.
8154.   75Bg0339T        Betw 338 & 339 there are several "Dills" of each type.  The felsic ones are schistose and the
8155.   75Bg0339T        others are not.  Unless the schistosity is controlled by composition, the felsic intrsvs must be
8156.   75Bg0339T        pre-or syn-regional metamorphic and the others post-regional met.
8157.   75Bg0339T        Resemblance betw sch flsc intrsvs and flsc aph & porphaph dikes of Annette Island is striking.
8158.   75Bg0339T        Rein betwn sch flsc aph and Qz-Mu schist in "coastal schist" unit?;
8159.   75Bg0339  ----------------------------------------------------------------------------------------------
8160.   #
8161.   75Bg0340            STATION = 75ABg0340;
8162.   75Bg0340            DATE = 8/26/75;
8163.   75Bg0340            QUAD = KC B-4;
8164.   75Bg0340            LAT = 55/19/35;
8165.   75Bg0340            LONG = 131/15/11;
8166.   75Bg0340            PURPOSE = Geol;
8167.   75Bg0340
8168.   75Bg0340   TEXT-TOPIC = Lith;
8169.   75Bg0340
8170.   75Bg0340   STRUCTURE;
8171.   75Bg0340        FOL-SCH = 170/30;
8172.   75Bg0340        FOL-SCH = 080/v;
8173.   75Bg0340
8174.   75Bg0340SA SAMPLE NUMBER = 75ABg0340A;
```

```
75Bg0340SA        UNIT = SMSV;
75Bg0340SA        SOURCE = OTC;
75Bg0340SA        TYPE = Repres;
75Bg0340SA        PURPOSE = Hand spec;
75Bg0340SA        DESCRIPTION = Sed, met;
75Bg0340SA        LITH = Metapelite;
75Bg0340SA        MINS = Qtz, Plag, Bio, Act;
75Bg0340SA        TEXTURE = Schistose;
75Bg0340SA        CONDITION = Fresh;
75Bg0340SA
75Bg0340SA SAMPLE NUMBER = 75ABg0340B;
75Bg0340SA        UNIT = SMSV;
75Bg0340SA        SOURCE = OTC;
75Bg0340SA        TYPE = Repres;
75Bg0340SA        PURPOSE = Hand spec;
75Bg0340SA        DESCRIPTION = Extr, sed, met;
75Bg0340SA        LITH = Metavolc?;
75Bg0340SA        MINS = Qtz, Plag, Bio, Act;
75Bg0340SA        TEXTURE = Schistose;
75Bg0340SA        CONDITION = Fresh;
75Bg0340SA
75Bg0340T  TEXT = Dark gnsh/bnsh gy sc comprising alt zones or layers a few cm or tens of cm thick of rel
75Bg0340T          BI- and Act-rich rock.
75Bg0340T          Some of the unit contains what appear to be relict clasts (or disrupted layers?) to 20 or so
75Bg0340T          cm in max dimens of indaterm meta rock that might be volcanic in origin. In any case, unit
75Bg0340T          bears no resemblance to rndstn metacgl.
75Bg0340T          Wx surfs of otcp are pitted, poss by erosion of calcareous material.  Resembles "eyebeds" of
75Bg0340T          Carroll Inlet.;
75Bg0340  ----------------------------------------------------------------------------------------------------
#
75Bg0341              STATION = 75ABg0341;
75Bg0341              DATE = 8/26/75;
75Bg0341              QUAD = KC B-4;
75Bg0341              LAT = 55/19/48;
75Bg0341              LONG = 131/15/08;
75Bg0341              PURPOSE = Geol, geochem;
75Bg0341
75Bg0341   TEXT-TOPIC = Lith;
75Bg0341
75Bg0341SA SAMPLE NUMBER = 75ABg0341A;
75Bg0341SA        SOURCE = OTC;
75Bg0341SA        TYPE = Repres;
75Bg0341SA        PURPOSE = Spec;
75Bg0341SA        DESCRIPTION = Intr, met, minlzd;
75Bg0341SA        LITH = Granodiorite;
75Bg0341SA        MINS = Qtz, Plag, Bio, Py;
75Bg0341SA        TEXTURE = Hypid gran;
75Bg0341SA        CONDITION = Alter, rsty-wx;
75Bg0341SA
75Bg0341SA SAMPLE NUMBER = 75ABg0341B;
75Bg0341SA        SOURCE = OTC;
75Bg0341SA        TYPE = Repres;
75Bg0341SA        PURPOSE = Hand spec, spec;
75Bg0341SA        DESCRIPTION = Intr, met, minlzd;
75Bg0341SA        LITH = Altered intrusive;
75Bg0341SA        MINS = Plag, Hbl, Bio, Py;
75Bg0341SA        TEXTURE = Schistose;
75Bg0341SA        CONDITION = Alter, rusty wx;
75Bg0341SA        REMARKS = Probably = altd GDio at ctct w/ hbdte;
75Bg0341SA
75Bg0341SA SAMPLE NUMBER = 75ABg0341C;
```

```
8236.    75Bg0341SA        UNIT = #
8237.    75Bg0341SA        SOURCE = OTC;
8238.    75Bg0341SA        TYPE = Repres;
8239.    75Bg0341SA        PURPOSE = Hand spec;
8240.    75Bg0341SA        DESCRIPTION = Intr, met;
8241.    75Bg0341SA        LITH = Felsic aphanite;
8242.    75Bg0341SA        MINS = Qtz, Plag, Py;
8243.    75Bg0341SA        TEXTURE = Schistose;
8244.    75Bg0341SA        CONDITION = Alter, rusty wx;
8245.    75Bg0341SA
8246.    75Bg0341SA SAMPLE NUMBER = 75ABg0341D;
8247.    75Bg0341SA        SOURCE = OTC;
8248.    75Bg0341SA        TYPE = Repres;
8249.    75Bg0341SA        PURPOSE = Hand spec;
8250.    75Bg0341SA        REMARKS = Several spls to illustr variety of rock types at station.;
8251.    75Bg0341SA
8252.    75Bg0341T  TEXT = Chaotically mixed intrusive and (I think) metamorphic rocks.  This and nearby outcrops for
8253.    75Bg0341T         about a 1/4 mile to n & s may be explained by proximity to ctct of a major GDio pluton,
8254.    75Bg0341T         but I believe main reason for hetereogenity is intrusion of small(?) maf-ultramafic (HO-PX)
8255.    75Bg0341T         pluton and its thermal and metasomatic effects.  In addn to this pluton, which seems to be mainly
8256.    75Bg0341T         hbdte & pxenite, there are dikes of granitic to microgran granodio, and at least one body of
8257.    75Bg0341T         schistose felsic aphanite.  Most of the rx contain dissem Py and wx rusty.
8258.    75Bg0341T         Country rx prob are SMS unit, but they are difficult to recognize.
8259.    75Bg0341T         From contact relns, ultramafic is intruded by granodio, and granodio by microgranular GDio.
8260.    75Bg0341T         Uncertain about rel age of flsc aph but I blv it predates the GDio.;
8261.    75Bg0341  ----------------------------------------------------------------------------------------------
8262.    #
8263.    75Bg0342             STATION = 75ABg0342;
8264.    75Bg0342             DATE = 8/25/75;
8265.    75Bg0342             QUAD = KC B-4;
8266.    75Bg0342             LAT = 55/19/58;
8267.    75Bg0342             LONG = 131/15/08;
8268.    75Bg0342             PURPOSE = Geol, geochem;
8269.    75Bg0342
8270.    75Bg0342   STRUCTURE;
8271.    75Bg0342        FOL-SCH = 274/60-v;
8272.    75Bg0342        OTHER = Mafic Dike 272/v;
8273.    75Bg0342
8274.    75Bg0342SA SAMPLE NUMBER = 75ABg0342A;
8275.    75Bg0342SA        SOURCE = OTC;
8276.    75Bg0342SA        TYPE = Repres;
8277.    75Bg0342SA        PURPOSE = Hand spec, spec;
8278.    75Bg0342SA        DESCRIPTION = Intr, met, minlzd;
8279.    75Bg0342SA        LITH = Felsic aphanite;
8280.    75Bg0342SA        MINS = Qtz, Plag, Py, Musc;
8281.    75Bg0342SA        TEXTURE = Schistose;
8282.    75Bg0342SA        CONDITION = Alter, rusty wx;
8283.    75Bg0342SA
8284.    75Bg0342T  TEXT = Rusty-wx schistose felsic aphanite intrusive 100 or so meters in otcp width.
8285.    75Bg0342T         Station estab mainly to coll gx spl.;
8286.    75Bg0342  ----------------------------------------------------------------------------------------------
8287.    #
8288.    75Bg0343             STATION = 75ABg0343;
8289.    75Bg0343             DATE = 8/26/75;
8290.    75Bg0343             QUAD = KC B-4;
8291.    75Bg0343             LAT = 55/20/04;
8292.    75Bg0343             LONG = 131/15/18;
8293.    75Bg0343             PURPOSE = Geol, geochem;
8294.    75Bg0343
8295.    75Bg0343   TEXT-TOPIC = Lith;
8296.    75Bg0343
```

```
75Bg0343SA SAMPLE NUMBER = 75ABg0343A;
75Bg0343SA      UNIT = HMP;
75Bg0343SA      SOURCE = OTC;
75Bg0343SA      TYPE = Repres;
75Bg0343SA      PURPOSE = Hand spec, spec;
75Bg0343SA      DESCRIPTION = Sed, met, mnlzd;
75Bg0343SA      LITH = Metapelite;
75Bg0343SA      MINS = Qtz, Plag, Hbl, Bio, Py;
75Bg0343SA      TEXTURE = Granoblastic;
75Bg0343SA      CONDITION = Alter rusty-wx;
75Bg0343SA      REMARKS = Gx spl coll to test sulfide bearing zone in HMP at ctct w/ hbdte.;
75Bg0343SA
75Bg0343T  TEXT = Rusty-wx hornblendite and rusty-wx metased (pelite) inclusions.  Rx cont a few % dissem sulf,
75Bg0343T        prob mainly Py and Po?;
75Bg0343T        Station estab to coll gx spl of pyritic hornfels at ctct w/ hbdte.;
75Bg0343  ------------------------------------------------------------------------------------------------------
#
75Bg0344              STATION = 75ABg0344;
75Bg0344              DATE = 8/26/75;
75Bg0344              QUAD = KC B-4;
75Bg0344              LAT = 55/21/08;
75Bg0344              LONG = 131/15/10;
75Bg0344              PURPOSE = Geol, geochem;
75Bg0344
75Bg0344   TEXT-TOPIC = Lith, struct, metamorphism;
75Bg0344
75Bg0344   STRUCTURE;
75Bg0344        FOL-SCH = 318/70;
75Bg0344        JOINT = 040/55;
75Bg0344        AXIAL-PLANE = 318/70;
75Bg0344        FOLD-AXIS = 345/40;
75Bg0344
75Bg0344SA SAMPLE NUMBER = 75ABg0344A;
75Bg0344SA      UNIT = PMP;
75Bg0344SA      SOURCE = OTC;
75Bg0344SA      TYPE = Repres;
75Bg0344SA      PURPOSE = Hand spec, spec;
75Bg0344SA      DESCRIPTION = Sed, met;
75Bg0344SA      LITH = Metapelite;
75Bg0344SA      FORM = Bedded;
75Bg0344SA      MINS = Qtz, Bio, Chl, Garn, Musc;
75Bg0344SA      TEXTURE = Schistose;
75Bg0344SA      CONDITION = Fresh;
75Bg0344SA      REMARKS = Gx spl coll for bckgr.  Garnet is at least partly retrograded to chlorite.;
75Bg0344SA
75Bg0344SA SAMPLE NUMBER = 75ABg0344B;
75Bg0344SA      UNIT = HMP;
75Bg0344SA      SOURCE = OTC;
75Bg0344SA      TYPE = Repres;
75Bg0344SA      PURPOSE = Spec;
75Bg0344SA      LITH = Qz-Carb;
75Bg0344SA      FORM = 5 cm vein;
75Bg0344SA      MINS = Qtz, Carb;
75Bg0344SA      CONDITION = Fresh;
75Bg0344SA      REMARKS = Spl incl a little metapelite country rock.;
75Bg0344SA
75Bg0344T  TEXT = Dk brn/olive/gray fine grain schist and phyllite derived from thinly (cm-m) interbedded siltstone,
75Bg0344T         gwx mudstone, and silty limestone.  Good going metaturbidite (metapelite).
75Bg0344T         Qtz veins para and cross fol.
75Bg0344T         Rock contains muscovite, garnet, calcite, prob bio.  Garnet appears largely retrograded to
75Bg0344T         chlorite.  Some beds contain cubic voids to 1 cm after Py, but it commonly is not conspic
```

```
75Bg0344T        and unit does not wx rusty.
75Bg0344T        Some fol surfs show striation that crosses fold axis--indics composite folds.;
75Bg0344 ----------------------------------------------------------------------------------------------
#
75Bg0345             STATION = 75ABg0345;
75Bg0345             DATE = 8/26/75;
75Bg0345             QUAD = KC B-4;
75Bg0345             LAT = 55/21/50;
75Bg0345             LONG = 131/15/26;
75Bg0345             PURPOSE = Geol;
75Bg0345
75Bg0345   TEXT-TOPIC = Lith, metamorphism;
75Bg0345
75Bg0345   STRUCTURE;
75Bg0345        FOL-SCH = 305/50;
75Bg0345        CLEAVAGE = 005/v;
75Bg0345        OTHER-LIN = 012/45 (Str);
75Bg0345
75Bg0345SA SAMPLE NUMBER = 75ABg0345A;
75Bg0345SA      UNIT = PMP;
75Bg0345SA      SOURCE = OTC;
75Bg0345SA      TYPE = Repres;
75Bg0345SA      PURPOSE = Hand spec, spec;
75Bg0345SA      DESCRIPTION = Sed, met;
75Bg0345SA      LITH = Metapelite;
75Bg0345SA      FORM = Bedded;
75Bg0345SA      MINS = Qtz, Py, Chl, Garn, Musc;
75Bg0345SA      TEXTURE = Phyllitic;
75Bg0345SA      CONDITION = Fresh;
75Bg0345SA      REMARKS = Gx spl coll for bckgr;
75Bg0345SA
75Bg0345T  TEXT = SNIPE ISLAND.
75Bg0345T        Dark gray phyllite cont muscovite and tiny garnets that are mostly replaced by chlorite.
75Bg0345T        Rk conts trace of finely dissem Py, now largely oxid.
75Bg0345T        Problem:  What has caused retro. met. of garnet?;
75Bg0345 ----------------------------------------------------------------------------------------------
#
75Bg0346             STATION = 75ABg0346;
75Bg0346             DATE = 8/26/75;
75Bg0346             QUAD = KC B-4;
75Bg0346             LAT = 55/22/11;
75Bg0346             LONG = 131/16/48;
75Bg0346             PURPOSE = Geol, geochem;
75Bg0346
75Bg0346   TEXT-TOPIC = Lith;
75Bg0346
75Bg0346   STRUCTURE;
75Bg0346        BEDDING = 320/05 (top of flow);
75Bg0346
75Bg0346SA SAMPLE NUMBER = 75ABg0346A;
75Bg0346SA      UNIT = Qb;
75Bg0346SA      SOURCE = OTC;
75Bg0346SA      TYPE = Repres;
75Bg0346SA      PURPOSE = Hand spec, T. S.;
75Bg0346SA      DESCRIPTION = Extr;
75Bg0346SA      LITH = Basalt;
75Bg0346SA      FORM = Lava flow;
75Bg0346SA      MINS = Px, Olivine?;
75Bg0346SA      TEXTURE = Microporphyritic;
75Bg0346SA      CONDITION = Fresh;
75Bg0346SA      REMARKS = Gx spl coll for bckgr;
```

```
8419.   75Bg0346SA
8420.   75Bg0346SA SAMPLE NUMBER = 75ABg0346B;
8421.   75Bg0346SA      UNIT = Qb;
8422.   75Bg0346SA      SOURCE = Float;
8423.   75Bg0346SA      TYPE = Repres;
8424.   75Bg0346SA      PURPOSE = Hand spec;
8425.   75Bg0346SA      DESCRIPTION = Extr;
8426.   75Bg0346SA      LITH = Basalt;
8427.   75Bg0346SA      FORM = Lava flow;
8428.   75Bg0346SA      TEXTURE = Porphyritic, amygdaloidal;
8429.   75Bg0346SA      CONDITION = Fresh;
8430.   75Bg0346SA      REMARKS = Spl coll from otcp 1/2 mi n nw of station.;
8431.   75Bg0346SA
8432.   75Bg0346T  TEXT = QUATERNARY BASALT.
8433.   75Bg0346T       Dark brownish gray wx greenish black subhoriz lava flow uncon overlies metapelite.  Volcanic rock
8434.   75Bg0346T       contains abundant sand-to-cobble-size subang to rndd clasts of basalt and subordinate granitic
8435.   75Bg0346T       and metamorphic rocks.
8436.   75Bg0346T       Basalt is minutely vesicular and prob amygdaloidal and consists of microphenoxts of olivine
8437.   75Bg0346T       and (or) pxene in a dark, devit glass matrix too fine grain to resolve w/ a hand lens.;
8438.   75Bg0346  ----------------------------------------------------------------------------------------------
8439.   #
8440.   75Bg0347            STATION = 75ABg0347;
8441.   75Bg0347            DATE = 8/27/75;
8442.   75Bg0347            QUAD = KC B-4;
8443.   75Bg0347            LAT = 55/23/08;
8444.   75Bg0347            LONG = 131/17/14;
8445.   75Bg0347            PURPOSE = Geol;
8446.   75Bg0347
8447.   75Bg0347   TEXT-TOPIC = Lith;
8448.   75Bg0347
8449.   75Bg0347   STRUCTURE;
8450.   75Bg0347        FOL-SCR = 310/35;
8451.   75Bg0347        JOINT = 065/65;
8452.   75Bg0347        OTHER-LIN = 090/15 (B/C);
8453.   75Bg0347        OTHER = Sil 285/40;
8454.   75Bg0347
8455.   75Bg0347SA SAMPLE NUMBER = 75ABg0347A;
8456.   75Bg0347SA      UNIT = PMP;
8457.   75Bg0347SA      SOURCE = Float;
8458.   75Bg0347SA      TYPE = Repres;
8459.   75Bg0347SA      PURPOSE = Hand spec;
8460.   75Bg0347SA      DESCRIPTION = Sed, met;
8461.   75Bg0347SA      LITH = Metapelite;
8462.   75Bg0347SA      FORM = Bedded;
8463.   75Bg0347SA      MINS = Qtz, Py, Garn, Musc;
8464.   75Bg0347SA      TEXTURE = Schistose;
8465.   75Bg0347SA      CONDITION = Fresh;
8466.   75Bg0347SA
8467.   75Bg0347SA SAMPLE NUMBER = 75ABg0347B;
8468.   75Bg0347SA      UNIT = PMP;
8469.   75Bg0347SA      SOURCE = OTC;
8470.   75Bg0347SA      TYPE = Repres;
8471.   75Bg0347SA      PURPOSE = Hand spec;
8472.   75Bg0347SA      DESCRIPTION = Intr;
8473.   75Bg0347SA      LITH = Quartz Dio;
8474.   75Bg0347SA      FORM = 1 m sill;
8475.   75Bg0347SA      MINS = Qtz, Plag, Bio, Chl, Ep/Clz;
8476.   75Bg0347SA      TEXTURE = Microgranular;
8477.   75Bg0347SA      CONDITION = Fresh;
8478.   75Bg0347SA
8479.   75Bg0347T  TEXT = Phyllitic and fine grain schistose (GA-MU) metapelite containing sparse pebble-to-cobble
```

```
8480.   75Bg0347T        roundstones of felsic igneous (aphan. to granitic) rocks---some beds of phyllitic grit.
8481.   75Bg0347T        Protolith was turbidite: interbedded +- Calc siltstone, silty limestone, graywacke---
8482.   75Bg0347T        some of the beds were pebbly to gritty.  Some wx surfs pitted w/ 1/2 cm cubic voids after Py.
8483.   75Bg0347T        Sparse Qtz +- Ca seams cross (some para) fol.
8484.   75Bg0347T        Look for fossils (buch, ino, bel), but not a smell!;
8485.   75Bg0347  ----------------------------------------------------------------------------------------------
8486.   *
8487.   75Bg0348            STATION = 75ABg0348;
8488.   75Bg0348            DATE = 8/25/75;
8489.   75Bg0348            QUAD = KC B-4;
8490.   75Bg0348            LAT = 55/23/08;
8491.   75Bg0348            LONG = 131/15/47;
8492.   75Bg0348            PURPOSE = Geol, geochem;
8493.   75Bg0348
8494.   75Bg0348   TEXT-TOPIC = Lith;
8495.   75Bg0348
8496.   75Bg0348   STRUCTURE;
8497.   75Bg0348        FOL-SCH = 315/60;
8498.   75Bg0348        AXIAL-PLANE = 315/60;
8499.   75Bg0348        FOLD-AXIS = 315/0;
8500.   75Bg0348        OTHER-LIN = 012/20 (Str);
8501.   75Bg0348
8502.   75Bg0348SA SAMPLE NUMBER = 75ABg0348A;
8503.   75Bg0348SA      UNIT = SMP;
8504.   75Bg0348SA      SOURCE = OTC;
8505.   75Bg0348SA      TYPE = Repres;
8506.   75Bg0348SA      PURPOSE = Hand spec, spec;
8507.   75Bg0348SA      DESCRIPTION = Sed, met;
8508.   75Bg0348SA      LITH = Metapelite;
8509.   75Bg0348SA      MINS = Qtz, Py, Musc;
8510.   75Bg0348SA      TEXTURE = Schistose;
8511.   75Bg0348SA      CONDITION = Fresh;
8512.   75Bg0348SA      REMARKS = Abundant Py euhedra;
8513.   75Bg0348SA
8514.   75Bg0348SA SAMPLE NUMBER = 75ABg0348B;
8515.   75Bg0348SA      UNIT = SMP;
8516.   75Bg0348SA      SOURCE = OTC;
8517.   75Bg0348SA      TYPE = Comp;
8518.   75Bg0348SA      PURPOSE = Spec;
8519.   75Bg0348SA      LITH = Quartz + a little schist;
8520.   75Bg0348SA      FORM = Veins;
8521.   75Bg0348SA      MINS = Qtz;
8522.   75Bg0348SA      CONDITION = Alter, sl rsty-wx;
8523.   75Bg0348SA      REMARKS = Composite spl: Chips from 3 Qtz vns.;
8524.   75Bg0348SA
8525.   75Bg0348SA SAMPLE NUMBER = 75ABg0348C;
8526.   75Bg0348SA      UNIT = SMP;
8527.   75Bg0348SA      SOURCE = OTC;
8528.   75Bg0348SA      TYPE = Repres;
8529.   75Bg0348SA      PURPOSE = Hand spec, spec;
8530.   75Bg0348SA      DESCRIPTION = Intr, met, minlzd;
8531.   75Bg0348SA      LITH = Felsic aphanite;
8532.   75Bg0348SA      FORM = Intrusive?;
8533.   75Bg0348SA      MINS = Qtz, Plag, Py;
8534.   75Bg0348SA      TEXTURE = Schistose;
8535.   75Bg0348SA      CONDITION = Alter, rusty-wx;
8536.   75Bg0348SA      REMARKS = Abund Py;
8537.   75Bg0348SA
8538.   75Bg0348SA SAMPLE NUMBER = 75ABg0348D;
8539.   75Bg0348SA      UNIT = SMP;
8540.   75Bg0348SA      SOURCE = OTC;
```

```
8541.    75Bg0348SA        TYPE = Repres;
8542.    75Bg0348SA        PURPOSE = Hand spec, spec;
8543.    75Bg0348SA        DESCRIPTION = Minlzd;
8544.    75Bg0348SA        LITH = Quartz;
8545.    75Bg0348SA        FORM = Vein;
8546.    75Bg0348SA        MINS = Qtz, Py;
8547.    75Bg0348SA        CONDITION = Alter, rusty-wx;
8548.    75Bg0348SA        REMARKS = Vein cuts flsc aph.;
8549.    75Bg0348SA
8550.    75Bg0348SA  SAMPLE NUMBER = 75ABg0348B;
8551.    75Bg0348SA        UNIT = SMP;
8552.    75Bg0348SA        SOURCE = OTC;
8553.    75Bg0348SA        TYPE = Repres;
8554.    75Bg0348SA        PURPOSE = Hand spec, spec;
8555.    75Bg0348SA        DESCRIPTION = Minlzd;
8556.    75Bg0348SA        LITH = Pyrite;
8557.    75Bg0348SA        FORM = 3 cm vein;
8558.    75Bg0348SA        MINS = Py;
8559.    75Bg0348SA        TEXTURE = Msv, crsly xline;
8560.    75Bg0348SA        CONDITION = Alter rusty wx;
8561.    75Bg0348SA        REMARKS = Vein adjoins Qtz vn and flsc aph.;
8562.    75Bg0348SA
8563.    75Bg0348T   TEXT = Pyritic schistose metapelite.  Dark gray, loc rusty-wx fine grain schist cont abundant Py
8564.    75Bg0348T          euhedra, some of which are 3 cm in size.  I est that some layers contain as much as 10% Py.
8565.    75Bg0348T          Qtz vns to 20 cm--most para fol.
8566.    75Bg0348T          The metapel is (prob) intruded by a body several meters thick of rusty-wx schistose felsic
8567.    75Bg0348T          aphanite that contains abundant Py, numerous Qtz vns, and, locally, stringers of msv Py as much
8568.    75Bg0348T          as 3 cm thick.;
8569.    75Bg0348  ------------------------------------------------------------------------------------------------
8570.    *
8571.    75Bg0349              STATION = 75ABg0349;
8572.    75Bg0349              DATE = 8/27/75;
8573.    75Bg0349              QUAD = KC B-4;
8574.    75Bg0349              LAT = 55/23/13;
8575.    75Bg0349              LONG = 131/15/32;
8576.    75Bg0349              PURPOSE = Geol, geochem;
8577.    75Bg0349
8578.    75Bg0349    TEXT-TOPIC = Lith;
8579.    75Bg0349
8580.    75Bg0349    STRUCTURE:
8581.    75Bg0349         FOL-SCH = 340/40;
8582.    75Bg0349
8583.    75Bg0349SA  SAMPLE NUMBER = 75ABg0349A;
8584.    75Bg0349SA        UNIT = SMPS;
8585.    75Bg0349SA        SOURCE = OTC;
8586.    75Bg0349SA        TYPE = Repres;
8587.    75Bg0349SA        PURPOSE = Hand spec, spec;
8588.    75Bg0349SA        DESCRIPTION = Extr, sed, met;
8589.    75Bg0349SA        LITH = Tuffac metagwk;
8590.    75Bg0349SA        FORM = Bedded;
8591.    75Bg0349SA        MINS = Bio, Py, Act, Garn;
8592.    75Bg0349SA        TEXTURE = Schistose;
8593.    75Bg0349SA        CONDITION = Fresh;
8594.    75Bg0349SA        REMARKS = Gx spl coll for bckgr and to compare w/ metapelite.;
8595.    75Bg0349SA
8596.    75Bg0349T   TEXT = Dk gn and dk bn fn gn Act-Ga-Bi schist prob derived from volcanic (tuffac) -gwk or simlr
8597.    75Bg0349T          epiclastic volcclstc rocks.  Some wx surfs show faint fragtl texture---prob = disrupted beds.
8598.    75Bg0349T          Bk conts sparsely dissem Py.
8599.    75Bg0349T          Sparse Qtz vns--x-fol--loc rusty-wx.;
8600.    75Bg0349  ------------------------------------------------------------------------------------------------
8601.    *
```

```
8602.    75Bg0350            STATION = 75ABg0350;
8603.    75Bg0350            DATE = 8/27/75;
8604.    75Bg0350            QUAD = KC B-4;
8605.    75Bg0350            LAT = 55/23/32;
8606.    75Bg0350            LONG = 131/15/29;
8607.    75Bg0350            PURPOSE = Geol, geochem;
8608.    75Bg0350
8609.    75Bg0350   TEXT-TOPIC = Lith, strat;
8610.    75Bg0350
8611.    75Bg0350   STRUCTURE;
8612.    75Bg0350        FOL-SCH = 310/30;
8613.    75Bg0350        OTHER = 10 meter mafic dike  260/v;
8614.    75Bg0350
8615.    75Bg0350SA SAMPLE NUMBER = 75ABg0350A;
8616.    75Bg0350SA      UNIT = SMS;
8617.    75Bg0350SA      SOURCE = OTC;
8618.    75Bg0350SA      TYPE = Repres;
8619.    75Bg0350SA      PURPOSE = Hand spec, spec;
8620.    75Bg0350SA      DESCRIPTION = Extr, sed, met;
8621.    75Bg0350SA      LITH = Calcareous metased;
8622.    75Bg0350SA      FORM = Bedded;
8623.    75Bg0350SA      MINS = Qtz, Plag, Py, Carb, Chl, Musc;
8624.    75Bg0350SA      TEXTURE = Schistose;
8625.    75Bg0350SA      CONDITION = Fresh;
8626.    75Bg0350SA      REMARKS = Gx spl col for bckgr;
8627.    75Bg0350SA
8628.    75Bg0350T  TEXT = Light gray to tan and rusty-wx fine grain schist cont Qz, Pl, Mu, Cl, Py, and calc.
8629.    75Bg0350T        Qz-carb vns x fol.
8630.    75Bg0350T        This unit prob is derived from calcareous sed or tuffac rx, but is unlike the metapelite and
8631.    75Bg0350T        metavolc units.
8632.    75Bg0350T        Some of the rock resembles schistose felsic aphanite.
8633.    75Bg0350T        About 1/4 mi NE of station, this unit contains tan-wx beds up to a meter thick of schistose (mu)
8634.    75Bg0350T        marble.  Rx are lith almost ident to calcareous ("coastal") schist unit betw Lucky Cove and
8635.    75Bg0350T        Alava Point.;
8636.    75Bg0350  ------------------------------------------------------------------------------------------------
8637.    #
8638.    75Bg0351            STATION = 75ABg0351;
8639.    75Bg0351            DATE = 8/27/75;
8640.    75Bg0351            QUAD = KC B-4;
8641.    75Bg0351            LAT = 55/23/49;
8642.    75Bg0351            LONG = 131/15/11;
8643.    75Bg0351            PURPOSE = Geol, geochem;
8644.    75Bg0351
8645.    75Bg0351   TEXT-TOPIC = Lith;
8646.    75Bg0351
8647.    75Bg0351   STRUCTURE;
8648.    75Bg0351        FOL-SCH = Horiz;
8649.    75Bg0351        OTHER-LIN = 282/0 (B/C);
8650.    75Bg0351        OTHER-LIN = 346/0 (Wrink);
8651.    75Bg0351
8652.    75Bg0351SA SAMPLE NUMBER = 75ABg0351A;
8653.    75Bg0351SA      UNIT = SMS;
8654.    75Bg0351SA      SOURCE = OTC;
8655.    75Bg0351SA      TYPE = Repres;
8656.    75Bg0351SA      PURPOSE = Hand spec, spec;
8657.    75Bg0351SA      DESCRIPTION = Sed, met;
8658.    75Bg0351SA      LITH = Metased;
8659.    75Bg0351SA      MINS = Py, Musc;
8660.    75Bg0351SA      TEXTURE = Schistose;
8661.    75Bg0351SA      CONDITION = Fresh;
8662.    75Bg0351SA      REMARKS = Py euhedra to 1 cm.  Gx spl coll for bckgr.;
```

```
75Bg0351SA
75Bg0351T  TEXT = Dome a few meters in area in fine-grain pyritic musco schist.  Py euhedra to 2 cm.
75Bg0351T        Several otcps of fol microdio?  100 m s. and w. of station.;
75Bg0351  ----------------------------------------------------------------------------------------
#
75Bg0352              STATION = 75ABg0352;
75Bg0352              DATE = 8/27/75;
75Bg0352              QUAD = KC B-4;
75Bg0352              LAT = 55/23/40;
75Bg0352              LONG = 131/15/00;
75Bg0352              PURPOSE = Geol, geochem;
75Bg0352
75Bg0352   TEXT-TOPIC = Lith, econ geol;
75Bg0352
75Bg0352   STRUCTURE:
75Bg0352        FOL-SCH = 324/20;
75Bg0352
75Bg0352SA SAMPLE NUMBER = 75ABg0352A;
75Bg0352SA      UNIT = SMVS;
75Bg0352SA      SOURCE = OTC;
75Bg0352SA      TYPE = Repres;
75Bg0352SA      PURPOSE = Hand spec, spec;
75Bg0352SA      DESCRIPTION = Extr, sed, met, minlzd;
75Bg0352SA      MINS = Qtz, Plag, Py, Chl, Musc;
75Bg0352SA      CONDITION = Alter, rusty-wx;
75Bg0352SA      REMARKS = Spl coll from msv pyritic layer 4 cm thick.;
75Bg0352SA
75Bg0352SA SAMPLE NUMBER = 75ABg0352B;
75Bg0352SA      UNIT = SMVS;
75Bg0352SA      SOURCE = OTC;
75Bg0352SA      TYPE = Repres;
75Bg0352SA      PURPOSE = Hand spec, spec;
75Bg0352SA      DESCRIPTION = Intr, met;
75Bg0352SA      LITH = Microdio;
75Bg0352SA      FORM = Pluton;
75Bg0352SA      MINS = Qtz, Plag, Bio, Chl, Ep/Clz;
75Bg0352SA      TEXTURE = Foliated;
75Bg0352SA      CONDITION = Fresh;
75Bg0352SA      REMARKS = Gx spl coll for bckgr;
75Bg0352SA
75Bg0352SA SAMPLE NUMBER = 75ABg0352C;
75Bg0352SA      UNIT = SMVS;
75Bg0352SA      SOURCE = OTC;
75Bg0352SA      TYPE = Repres;
75Bg0352SA      PURPOSE = Hand spec;
75Bg0352SA      REMARKS = Several spls to illust rock types in unit at station.;
75Bg0352SA
75Bg0352T  TEXT = Prominent rusty-wx zone several tens of meters in area that marks a sulfide-rich, rather
75Bg0352T         heterogeneous assemblage of metamorphosed bedded and possibly intrusive rocks.
75Bg0352T         Pyrite is ubiq, but is esp abndnt in certain layers, where it makes up 50% or more of the rock
75Bg0352T         in zones 3 or 4 cm thick that app accumulate to thickness of a meter or so.
75Bg0352T         Difficult to ident protolith.  Rx are pyritic schists cont varying amts of Qz, Pc, Chl, Mu,
75Bg0352T         and calc.  There is a little MB, but much less than in struct ulyg MB+CALC Qz-Mu-Py schist unit.
75Bg0352T         Met minlgy + sulfs suggest that these units are derived mainly from marine intermed to felsic
75Bg0352T         volcanic or volcclstc rx.  Concent of sulfs in certain beds suggs stratabound volcanogenic origin
75Bg0352T         for mineralization.  Strata are intruded by fol microdiorite pluton, and by mafic dikes
75Bg0352T         that are feeders for Quaternary basalt flows.;
75Bg0352  ----------------------------------------------------------------------------------------
#
75Bg0353              STATION = 75ABg0353;
75Bg0353              DATE = 8/27/75;
```

```
75Bg0353              QUAD = KC B-4;
75Bg0353              LAT = 55/23/26;
75Bg0353              LONG = 131/14/35;
75Bg0353              PURPOSE = Geol;
75Bg0353
75Bg0353   TEXT-TOPIC = Lith, struct, strat;
75Bg0353
75Bg0353   STRUCTURE;
75Bg0353        FOL-SCH = 350/25;
75Bg0353
75Bg0353SA SAMPLE NUMBER = 75ABg0353A;
75Bg0353SA      UNIT = SMVL;
75Bg0353SA      SOURCE = OTC;
75Bg0353SA      TYPE = Repres;
75Bg0353SA      PURPOSE = Hand spec;
75Bg0353SA      DESCRIPTION = Extr, met;
75Bg0353SA      LITH = Metavolcanic;
75Bg0353SA      MINS = Qtz, Rbl, Bio, Py, Carb, Chl;
75Bg0353SA      TEXTURE = Schistose;
75Bg0353SA      CONDITION = Fresh;
75Bg0353SA
75Bg0353T  TEXT = Dark green/olive wx fn gn sc der fr intermafic volc/volcclstc rx cont minor interbedded lst.
75Bg0353T         Unit resembls rx at 75Bg328.
75Bg0353T         Metavolc conts a little finely dissem Py.
75Bg0353T         PROBLEMS:
75Bg0353T         (1) Is there a fund diff in lithol bet rx at 352 and 353?
75Bg0353T         (2) How much of this apparent difference is stratigraphic?  Related to
75Bg0353T             distrib of felsic aphanite?
75Bg0353T         (3) Is there a N-S fault that passes just east of 352?;
75Bg0353  ----------------------------------------------------------------------------------------------
#
75Bg0354              STATION = 75ABg0354;
75Bg0354              DATE = 8/27/75;
75Bg0354              QUAD = KC B-4;
75Bg0354              LAT = 55/25/58;
75Bg0354              LONG = 131/14/30;
75Bg0354              PURPOSE = Geol, geochem;
75Bg0354
75Bg0354   TEXT-TOPIC = Lith, metamorphism;
75Bg0354
75Bg0354   STRUCTURE;
75Bg0354        FOL-SCH = 340/40;
75Bg0354        CLEAVAGE = 202/70 (AP);
75Bg0354        JOINT = 078/70;
75Bg0354        AXIAL-PLANE = 0-20/10-30;
75Bg0354        OTHER-LIN = 0/10 (Str);
75Bg0354
75Bg0354SA SAMPLE NUMBER = 75ABg0354A;
75Bg0354SA      UNIT = SMP;
75Bg0354SA      SOURCE = OTC;
75Bg0354SA      PURPOSE = Hand spec, spec;
75Bg0354SA      DESCRIPTION = Sed, met;
75Bg0354SA      LITH = Metapelite;
75Bg0354SA      MINS = Qtz, Plag, Py, Chl, Garn, Musc;
75Bg0354SA      TEXTURE = Schistose;
75Bg0354SA      CONDITION = Fresh;
75Bg0354SA      REMARKS = Garn not confirmed.  Gx spl coll for background.;
75Bg0354SA
75Bg0354T  TEXT = Gray and olive-wx phyto to finely schistose pyritic metapelite.  Fairly abndnt Qtz vns, mostly
75Bg0354T         para fol.
75Bg0354T         Protolith was thinly interbedded siltstone, mudstone, graywacke, and minor silty lst.
```

```
75Bg0354T        Pytc metapel 1/4 mi e. of station cont tiny garnet metacrysts that are almost compl repl by cl.
75Bg0354T        Prob occur at this station, but not observed.;
75Bg0354  ----------------------------------------------------------------------------------------------------
#
75Bg0355             STATION = 75ABg0355;
75Bg0355             DATE = 8/27/75;
75Bg0355             QUAD = KC B-4;
75Bg0355             LAT = 55/23/51;
75Bg0355             LONG = 131/13/56;
75Bg0355             PURPOSE = Geol;
75Bg0355
75Bg0355   TEXT-TOPIC = Lith, strat, reg geol/tect;
75Bg0355
75Bg0355   STRUCTURE;
75Bg0355        FOL-SCH = 335/30-60;
75Bg0355        OTHER = Dike 240/v;
75Bg0355
75Bg0355SA SAMPLE NUMBER = 75ABg0355A;
75Bg0355SA      UNIT = SVL;
75Bg0355SA      SOURCE = OTC;
75Bg0355SA      TYPE = Repres;
75Bg0355SA      PURPOSE = Hand spec;
75Bg0355SA      DESCRIPTION = Extr, met;
75Bg0355SA      LITH = Metavolcanic rock;
75Bg0355SA      MINS = Act, Chl;
75Bg0355SA      TEXTURE = Schistose;
75Bg0355SA      CONDITION = Fresh;
75Bg0355SA
75Bg0355T  TEXT = Intercalated dk gn Cl-Act schist der from interm-mafic volc rk, tan-wx mbe, and tan/rusty-wx
75Bg0355T        Qz-Mu-Ca-Cl-Py schist that looks like flsc aphanite.
75Bg0355T        12 cm mafic dike cuts sinuously across felsic schist.
75Bg0355T        Flsc schist and marble are interlayered on scale of a few cm.  If this is relict bedding, unit
75Bg0355T        could be interp as waterlaid (marine) felsic metatuff.  This tuff, then, intertongues or is in
75Bg0355T        strat sequence with, interm-mafic volc (tuffac?) rx.
75Bg0355T        If these rx were deposited in/near an uPz arc, it must have lain NE of Alexander Terrane.
75Bg0355T        Presumably it was mainly intraoceanic, but could in places have intersected the Alexander Block
75Bg0355T        (to acct for Permian? volcanics vic Windfall Harbor on Admiralty Island).;
75Bg0355  ----------------------------------------------------------------------------------------------------
#
75Bg0356             STATION = 75ABg0356;
75Bg0356             DATE = 8/27/75;
75Bg0356             QUAD = KC B-4;
75Bg0356             LAT = 55/24/22;
75Bg0356             LONG = 131/13/48;
75Bg0356             PURPOSE = Geol;
75Bg0356
75Bg0356   TEXT-TOPIC = Lith;
75Bg0356
75Bg0356   STRUCTURE;
75Bg0356        FOL-SCH = 330/25;
75Bg0356        OTHER = Breccia Zone 330/25;
75Bg0356
75Bg0356SA SAMPLE NUMBER = 75ABg0356A;
75Bg0356SA      UNIT = MVL;
75Bg0356SA      SOURCE = OTC, Float;
75Bg0356SA      TYPE = Repres;
75Bg0356SA      PURPOSE = Hand spec;
75Bg0356SA      DESCRIPTION = Extr, met;
75Bg0356SA      LITH = Breccia;
75Bg0356SA      FORM = 3 meter thick zone;
75Bg0356SA      MINS = Chl, Ep/Clz;
```

```
75Bg0356SA      TEXTURE = Aphanitic;
75Bg0356SA      CONDITION = Fresh;
75Bg0356SA      REMARKS = 2 spls;
75Bg0356SA
75Bg0356SA SAMPLE NUMBER = 75ABg0356B;
75Bg0356SA      UNIT = MVL;
75Bg0356SA      SOURCE = OTC;
75Bg0356SA      TYPE = Repres;
75Bg0356SA      PURPOSE = Hand spec;
75Bg0356SA      DESCRIPTION = Extr, met;
75Bg0356SA      LITH = Metavolc;
75Bg0356SA      FORM = Bedded;
75Bg0356SA      MINS = Carb, Chl, Ep/Clz;
75Bg0356SA      TEXTURE = Aphanitic;
75Bg0356SA      CONDITION = Fresh;
75Bg0356SA
75Bg0356T  TEXT = Abt 1/2 of otcp cons of breccia composed of angular fragments of aphan green metavolc in
75Bg0356T        carbonate matrix.  Other half is thinly (4-20 cm) layered aphan green metavolc rk.
75Bg0356T        Uncertain whether breccia is primary or tectonic.  Looks primary to me, but R/B disagree.
75Bg0356T        If primary, prob is carb-cem flow breccia that may grade into aquagene tuff.
75Bg0356T        Volc rx are rxld, aphanitic, but not schistose.;
75Bg0356  ----------------------------------------------------------------------------------------------
#
75Bg0357            STATION = 75ABg0357;
75Bg0357            DATE = 8/27/75;
75Bg0357            QUAD = KC B-4;
75Bg0357            LAT = 55/23/52;
75Bg0357            LONG = 131/13/19;
75Bg0357            PURPOSE = Geol;
75Bg0357
75Bg0357   TEXT-TOPIC = Lith;
75Bg0357
75Bg0357   STRUCTURE;
75Bg0357        FOL-SCH = 170/75-v;
75Bg0357        JOINT = 055/75;
75Bg0357
75Bg0357SA SAMPLE NUMBER = 75ABg0357A;
75Bg0357SA      UNIT = SMV;
75Bg0357SA      SOURCE = OTC;
75Bg0357SA      TYPE = Repres;
75Bg0357SA      PURPOSE = Hand spec;
75Bg0357SA      DESCRIPTION = Extr, met;
75Bg0357SA      LITH = Metavolc;
75Bg0357SA      MINS = Plag, Py, Carb, Act, Chl;
75Bg0357SA      TEXTURE = Schistose;
75Bg0357SA      CONDITION = Fresh;
75Bg0357SA      REMARKS = Qz-carb vnlt;
75Bg0357SA
75Bg0357T  TEXT = Dark green Act-chlor schist der from interm or mafic volcanic rock.  See no carbonate at this
75Bg0357T        locality.;
75Bg0357  ----------------------------------------------------------------------------------------------
#
75Bg0358            STATION = 75ABg0358;
75Bg0358            DATE = 8/28/75;
75Bg0358            QUAD = KC A-5;
75Bg0358            LAT = 55/14/55;
75Bg0358            LONG = 131/22/57;
75Bg0358            PURPOSE = Geol;
75Bg0358
75Bg0358   TEXT-TOPIC = Lith;
75Bg0358
```

```
8907.   75Bg0358   STRUCTURE;
8908.   75Bg0358        FOL-SCH = 315/45;
8909.   75Bg0358        OTHER = Sil 315/45;
8910.   75Bg0358
8911.   75Bg0358SA SAMPLE NUMBER = 75ABg0358A;
8912.   75Bg0358SA      UNIT = GDio;
8913.   75Bg0358SA      SOURCE = OTC;
8914.   75Bg0358SA      TYPE = Repres;
8915.   75Bg0358SA      PURPOSE = Hand spec;
8916.   75Bg0358SA      DESCRIPTION = Intr, met;
8917.   75Bg0358SA      LITH = GDio;
8918.   75Bg0358SA      FORM = Pluton;
8919.   75Bg0358SA      MINS = Qtz, Plag, Bio, Py;
8920.   75Bg0358SA      TEXTURE = Schistose;
8921.   75Bg0358SA      CONDITION = Fresh;
8922.   75Bg0358SA
8923.   75Bg0358SA SAMPLE NUMBER = 75ABg0358B;
8924.   75Bg0358SA      UNIT = GDio;
8925.   75Bg0358SA      SOURCE = OTC;
8926.   75Bg0358SA      TYPE = Repres;
8927.   75Bg0358SA      PURPOSE = Hand spec;
8928.   75Bg0358SA      DESCRIPTION = Intr;
8929.   75Bg0358SA      LITH = QMonz;
8930.   75Bg0358SA      FORM = Sill?;
8931.   75Bg0358SA      MINS = Qtz, Plag, Xspr, Py;
8932.   75Bg0358SA      TEXTURE = Wkly feldspar-porphyritic--foliated;
8933.   75Bg0358SA      CONDITION = Fresh;
8934.   75Bg0358SA      REMARKS = Spl includes a little adjacent schistose GDio;
8935.   75Bg0358SA
8936.   75Bg0358T  TEXT = Schistose and subordinate massive granodiorite.  Resembles rxld cataclastic granodio SE of
8937.   75Bg0358T         Carroll Pt.
8938.   75Bg0358T         There are tabular, sill-like bodies up to 1.5 m thick of fol, but not schistose,
8939.   75Bg0358T         Q. Monz that is parallel to the foln of the schistose GD.  May be intrusive, or relatively
8940.   75Bg0358T         undeformed zone in cataclasite.;
8941.   75Bg0358  ----------------------------------------------------------------------------------------------
8942.   *
8943.   75Bg0359             STATION = 75ABg0359;
8944.   75Bg0359             DATE = 8/28/75;
8945.   75Bg0359             QUAD = KC B-5;
8946.   75Bg0359             LAT = 55/15/05;
8947.   75Bg0359             LONG = 131/23/00;
8948.   75Bg0359             PURPOSE = Geol, geochem;
8949.   75Bg0359
8950.   75Bg0359   TEXT-TOPIC = Lith, strat;
8951.   75Bg0359
8952.   75Bg0359   STRUCTURE;
8953.   75Bg0359        FOL-SCH = 010/60;
8954.   75Bg0359
8955.   75Bg0359SA SAMPLE NUMBER = 75ABg0359A;
8956.   75Bg0359SA      UNIT = GIF;
8957.   75Bg0359SA      SOURCE = OTC;
8958.   75Bg0359SA      TYPE = Repres;
8959.   75Bg0359SA      PURPOSE = Hand spec, spec;
8960.   75Bg0359SA      DESCRIPTION = Sed, met;
8961.   75Bg0359SA      LITH = Metapelite;
8962.   75Bg0359SA      FORM = Bedded;
8963.   75Bg0359SA      MINS = Musc;
8964.   75Bg0359SA      TEXTURE = Phyllitic;
8965.   75Bg0359SA      CONDITION = Fresh;
8966.   75Bg0359SA      REMARKS = Gk spl coll for bckgr.;
8967.   75Bg0359SA
```

```
75Bg0359SA SAMPLE NUMBER = 75ABg0359B;
75Bg0359SA      UNIT = GIF;
75Bg0359SA      SOURCE = OTC;
75Bg0359SA      TYPE = Repres;
75Bg0359SA      PURPOSE = Hand spec;
75Bg0359SA      DESCRIPTION = Extr, met;
75Bg0359SA      LITH = Hbl porphyry;
75Bg0359SA      FORM = Bedded;
75Bg0359SA      MINS = Act, Chl, Ep/Clz;
75Bg0359SA      TEXTURE = Porphyritic;
75Bg0359SA      CONDITION = Fresh;
75Bg0359SA
75Bg0359SA SAMPLE NUMBER = 75ABg0359C;
75Bg0359SA      UNIT = GDio;
75Bg0359SA      SOURCE = OTC;
75Bg0359SA      TYPE = Repres;
75Bg0359SA      PURPOSE = Hand spec;
75Bg0359SA      DESCRIPTION = Intr, met;
75Bg0359SA      LITH = Granodio;
75Bg0359SA      FORM = Pluton;
75Bg0359SA      MINS = Qtz, Plag;
75Bg0359SA      TEXTURE = Schistose, flinty;
75Bg0359SA      CONDITION = Fresh;
75Bg0359SA      REMARKS = Spl coll fr flt zone at ctct w/ GIF.;
75Bg0359SA
75Bg0359T  TEXT = Ctct betw schistose cataclastic GDio and interbedded phyllitic metapelite and subordinate HO-
75Bg0359T         porphyritic metavolc (andesitic metatuff).
75Bg0359T         The pluton-sed ctct is a fault zone a meter or so thick, marked by Qtz vns, increased schistosity
75Bg0359T         in the metaseds, and flintiness of the pluton.
75Bg0359T         The metaseds are derived from turbidite---thinly interbedded mudstone, +- Calc sltstn,
75Bg0359T         graywacke, and minor grit and pebbly gwk (clasts are flattened, mainly fn gn sed and/or volc rks).
75Bg0359T         Unit is lith ident to Grav. Isl. Fm.;
75Bg0359  ------------------------------------------------------------------------------------------------
#
75Bg0360             STATION = 75ABg0360;
75Bg0360             DATE = 8/28/75;
75Bg0360             QUAD = KC A-5;
75Bg0360             LAT = 55/14/58;
75Bg0360             LONG = 131/23/05;
75Bg0360             PURPOSE = Geol;
75Bg0360
75Bg0360   TEXT-TOPIC = Lith, reg geol/tect;
75Bg0360
75Bg0360   STRUCTURE;
75Bg0360        FOL-SCH = 005/35;
75Bg0360
75Bg0360SA SAMPLE NUMBER = 75ABg0360A;
75Bg0360SA      UNIT = GDio;
75Bg0360SA      SOURCE = OTC;
75Bg0360SA      TYPE = Repres;
75Bg0360SA      PURPOSE = Hand spec;
75Bg0360SA      DESCRIPTION = Intr, met;
75Bg0360SA      LITH = GDio;
75Bg0360SA      FORM = Sill?;
75Bg0360SA      MINS = Qtz, Plag;
75Bg0360SA      TEXTURE = Schistose mylonite-breccia;
75Bg0360SA      CONDITION = Fresh;
75Bg0360SA
75Bg0360SA SAMPLE NUMBER = 75ABg0360B;
75Bg0360SA      UNIT = GDio;
75Bg0360SA      SOURCE = OTC, Float;
```

```
9029.     75Bg0360SA      TYPE = Repres;
9030.     75Bg0360SA      PURPOSE = Hand spec, T. S., K-Ar;
9031.     75Bg0360SA      DESCRIPTION = Intr;
9032.     75Bg0360SA      LITH = Qtz Monz;
9033.     75Bg0360SA      FORM = 1 meter dike;
9034.     75Bg0360SA      MINS = Qtz, Plag, Garn;
9035.     75Bg0360SA      TEXTURE = Porphyroclastic;
9036.     75Bg0360SA      CONDITION = Fresh;
9037.1    75Bg0360SA      REMARKS = T.S. shows marked catacl texture.  Rk may be GDio, not QM.  Does not resemble
9037.2    75Bg0360SA      Spire Island pluton.;
9037.3    75Bg0360SA
9038.     75Bg0360T  TEXT = Cataclastic granodio mylonite-breccia intruded by GA-bearg Qtz monz and lamprophyre dikes
9039.     75Bg0360T        (lampro intrudes Qtz monz).
9040.     75Bg0360T        QMonz is wkly schistose and some contains conspic epid (see sta 361).
9041.     75Bg0360T        If it is 87 m.y. old, and cuts the schistosity of the enclosing GDio mylonite-breccia, the breccia
9042.     75Bg0360T        may mark the elusive Albian or younger, but pre-insular pluton, regional compressive tectonic-metamorphic

9043.     75Bg0360T        event we have been trying to identify and date.
9044.     75Bg0360T        The mechanical/hydrothermal alt of QMonz/GDio then may be Cenozoic and may be assoc w/
9045.     75Bg0360T        regional transcurrent faulting.;
9046.     75Bg0360  ----------------------------------------------------------------------------------------------
9047.     #
9048.     75Bg0361             STATION = 75ABg0361;
9049.     75Bg0361             DATE = 8/28/75;
9050.     75Bg0361             QUAD = KC A-5;
9051.     75Bg0361             LAT = 55/14/44;
9052.     75Bg0361             LONG = 131/23/23;
9053.     75Bg0361             PURPOSE = Geol;
9054.     75Bg0361
9055.     75Bg0361   TEXT-TOPIC = Lith, reg geol/tect;
9056.     75Bg0361
9057.     75Bg0361   STRUCTURE;
9058.     75Bg0361        FAULT-SHEAR = 025/v (others);
9059.     75Bg0361
9060.     75Bg0361SA SAMPLE NUMBER = 75ABg0361A;
9061.     75Bg0361SA      UNIT = GDio;
9062.     75Bg0361SA      SOURCE = OTC;
9063.     75Bg0361SA      TYPE = Repres;
9064.     75Bg0361SA      PURPOSE = Hand spec;
9065.     75Bg0361SA      DESCRIPTION = Intr;
9066.     75Bg0361SA      LITH = Granodio;
9067.     75Bg0361SA      FORM = Pluton;
9068.     75Bg0361SA      MINS = Qtz, Plag, Bio, Py, Ep/Clz;
9069.     75Bg0361SA      CONDITION = Alter, epidote;
9070.     75Bg0361SA
9071.     75Bg0361T  TEXT = Hydro-altd,  fdspr-porphtc GDio.  This light gnsh gy wx pluton conts abund epid
9072.     75Bg0361T        and locally is finely milled along shear zones, but it is entirely different from the rexld
9073.     75Bg0361T        (schistose) GDio mylonite-breccia on Round Island, etc.
9074.     75Bg0361T        I believe this pluton correl w/ QMonz dike that cuts mylonite-breccia at 360.
9075.     75Bg0361T        Compare this GDio w/ Spire Island pluton.
9076.     75Bg0361T        Sparse Qtz vns to 20 cm.
9077.     75Bg0361T        Fdspr phenos wx white, are subhedral, 2-3 mm to 1.5 cm, make up 10-15% of rk.;
9078.     75Bg0361  ----------------------------------------------------------------------------------------------
9079.     #
9080.     75Bg0362             STATION = 75ABg0362;
9081.     75Bg0362             DATE = 8/28/75;
9082.     75Bg0362             QUAD = KC A-5;
9083.     75Bg0362             LAT = 55/14/26;
9084.     75Bg0362             LONG = 131/23/45;
9085.     75Bg0362             PURPOSE = Geol;
9086.     75Bg0362
```

```
75Bg0362   TEXT-TOPIC = Lith;
75Bg0362
75Bg0362   STRUCTURE:
75Bg0362        JOINT = 005/v;
75Bg0362        JOINT = 140/60;
75Bg0362        OTHER = Alt Zone 330;
75Bg0362
75Bg0362SA SAMPLE NUMBER = 75ABg0362A;
75Bg0362SA      UNIT = GDio;
75Bg0362SA      SOURCE = OTC;
75Bg0362SA      TYPE = Repres;
75Bg0362SA      PURPOSE = Hand spec;
75Bg0362SA      DESCRIPTION = Intr;
75Bg0362SA      LITH = GDio;
75Bg0362SA      FORM = Pluton;
75Bg0362SA      MINS = Qtz, Plag, Bio, Py, Chl, Ep/Clz;
75Bg0362SA      TEXTURE = Hyp Gran;
75Bg0362SA      CONDITION = Alter, epidote;
75Bg0362SA
75Bg0362T  TEXT = Msv, homogeneous fn gn granodiorte.  Micropeg and leucoaplite seams.
75Bg0362T       Pluton wx light greenish gray because of abundant chlorite and epidote alteration of primary
75Bg0362T       mafics.  Most intense alteration may be in certain zones a half-meter or less wide.
75Bg0362T       One such zone trends 330.;
75Bg0362  ----------------------------------------------------------------------------------------------------
#
75Bg0363            STATION = 75ABg0363;
75Bg0363            DATE = 8/28/75;
75Bg0363            QUAD = KC B-5;
75Bg0363            LAT = 55/15/19;
75Bg0363            LONG = 131/24/41;
75Bg0363
75Bg0363   STRUCTURE:
75Bg0363        JOINT = 310/50;
75Bg0363        JOINT = 038/v;
75Bg0363
75Bg0363SA SAMPLE NUMBER = 75ABg0363A;
75Bg0363SA      UNIT = GDio;
75Bg0363SA      SOURCE = OTC;
75Bg0363SA      TYPE = Repres;
75Bg0363SA      PURPOSE = Hand spec;
75Bg0363SA      DESCRIPTION = Intr;
75Bg0363SA      LITH = GDio;
75Bg0363SA      MINS = Qtz, Plag, Bio, Py, Chl, Ep/Clz;
75Bg0363SA      TEXTURE = Porphyritic;
75Bg0363SA      CONDITION = Fresh;
75Bg0363SA
75Bg0363T  TEXT = Msv, homogeneous fdspr-porphyritic GDio cont conspic epidote.;
75Bg0363  ----------------------------------------------------------------------------------------------------
#
75Bg0364            STATION = 75ABg0364;
75Bg0364            DATE = 8/28/75;
75Bg0364            QUAD = KC B-5;
75Bg0364            LAT = 55/15/75;
75Bg0364            LONG = 131/25/18;
75Bg0364            PURPOSE = Geol, geochem;
75Bg0364
75Bg0364   TEXT-TOPIC = Lith;
75Bg0364
75Bg0364   STRUCTURE:
75Bg0364        FOL-SCH = 260/65;
75Bg0364        OTHER = 260/65;
```

```
9148.    75Bg0364
9149.    75Bg0364SA SAMPLE NUMBER = 75ABg0364A;
9150.    75Bg0364SA      UNIT = GDio;
9151.    75Bg0364SA      SOURCE = OTC;
9152.    75Bg0364SA      TYPE = Repres;
9153.    75Bg0364SA      PURPOSE = Hand spec;
9154.    75Bg0364SA      DESCRIPTION = Intr;
9155.    75Bg0364SA      LITH = GDio;
9156.    75Bg0364SA      MINS = Qtz, Plag, Bio, Garn;
9157.    75Bg0364SA      TEXTURE = Hyp Gran;
9158.    75Bg0364SA      CONDITION = Fresh;
9159.    75Bg0364SA      REMARKS = Garn not confirmed;
9160.    75Bg0364SA
9161.    75Bg0364SA SAMPLE NUMBER = 75ABg0364B;
9162.    75Bg0364SA      UNIT = GDio;
9163.    75Bg0364SA      SOURCE = OTC;
9164.    75Bg0364SA      TYPE = Repres;
9165.    75Bg0364SA      PURPOSE = Hand spec;
9166.    75Bg0364SA      DESCRIPTION = Intr;
9167.    75Bg0364SA      LITH = Aplitic Q. Monz;
9168.    75Bg0364SA      MINS = Qtz, Plag, Garn;
9169.    75Bg0364SA      TEXTURE = Microgranular;
9170.    75Bg0364SA      CONDITION = Fresh;
9171.    75Bg0364SA      REMARKS = Contact zone of GDio pluton;
9172.    75Bg0364SA
9173.    75Bg0364SA SAMPLE NUMBER = 75ABg0364C;
9174.    75Bg0364SA      UNIT = HMP (GIF);
9175.    75Bg0364SA      SOURCE = OTC;
9176.    75Bg0364SA      TYPE = Repres;
9177.    75Bg0364SA      PURPOSE = Hand spec, spec;
9178.    75Bg0364SA      DESCRIPTION = Sed, met;
9179.    75Bg0364SA      LITH = Metapelite;
9180.    75Bg0364SA      FORM = Bedded;
9181.    75Bg0364SA      MINS = Py, And, Act, Graph;
9182.    75Bg0364SA      TEXTURE = Phyllitic;
9183.    75Bg0364SA      CONDITION = Fresh;
9184.    75Bg0364SA      REMARKS = Gx spl coll for bckgr.  ACT, Andalusite not confirmed;
9185.    75Bg0364SA
9186.    75Bg0364T  TEXT = Ctct betw Ga-bearing Fspr porphtc to aplitic granodio and hardened metapelite.
9187.    75Bg0364T        The pluton is very fine grained to aplitic and (fspr) porphyroaphanitic near ctct w/ cntry rx.
9188.    75Bg0364T        Pluton obviously intrudes and hardens metapelite.  Zone a few meters wide nr ctct is marked by
9189.    75Bg0364T        sill-like apophyses in meta, and meta xenoliths in pluton.
9190.    75Bg0364T        The metapelite, der mainly from mdstn & sltstn, is graphitic, contains finely dissem Py,
9191.    75Bg0364T        and some beds contain tiny fibrous aggregates of actinolite or andalusite, or some other
9192.    75Bg0364T        met minl.;
9193.    75Bg0364  ----------------------------------------------------------------------------------------------
9194.    *
9195.    75Bg0365            STATION = 75ABg0365;
9196.    75Bg0365            DATE = 8/28/75;
9197.    75Bg0365            QUAD = KC B-5;
9198.    75Bg0365            LAT = 55/15/32;
9199.    75Bg0365            LONG = 131/25/55;
9200.    75Bg0365            PURPOSE = Geol, geochem;
9201.    75Bg0365
9202.    75Bg0365   TEXT-TOPIC = Lith;
9203.    75Bg0365
9204.    75Bg0365   STRUCTURE:
9205.    75Bg0365        FOL-SCH = 300/35;
9206.    75Bg0365
9207.    75Bg0365SA SAMPLE NUMBER = 75ABg0365A;
9208.    75Bg0365SA      UNIT = HMP;
```

```
9209.   75Bg0365SA        SOURCE = OTC;
9210.   75Bg0365SA        TYPE = Repres;
9211.   75Bg0365SA        PURPOSE = Hand spec, T. S., Spec;
9212.   75Bg0365SA        DESCRIPTION = Intr, met;
9213.   75Bg0365SA        LITH = Felsic aphanite;
9214.   75Bg0365SA        FORM = Pluton;
9215.   75Bg0365SA        MINS = Qtz, Plag, Py;
9216.   75Bg0365SA        TEXTURE = Aphanitic;
9217.   75Bg0365SA        CONDITION = Alter, rusty-wx;
9218.   75Bg0365SA
9219.   75Bg0365SA  SAMPLE NUMBER = 75ABg0365B;
9220.   75Bg0365SA        UNIT = HMP;
9221.   75Bg0365SA        SOURCE = OTC;
9222.   75Bg0365SA        TYPE = Repres;
9223.   75Bg0365SA        PURPOSE = Hand spec;
9224.   75Bg0365SA        DESCRIPTION = Sed, met;
9225.   75Bg0365SA        LITH = Metapelite;
9226.   75Bg0365SA        MINS = Qtz, Plag, Bio, Py;
9227.   75Bg0365SA        TEXTURE = Hornfelsic;
9228.   75Bg0365SA        CONDITION = Fresh;
9229.   75Bg0365SA
9230.   75Bg0365T   TEXT = Phyllitic graywacke, grit, siltstone, mudstone and minor HO-porphtc
9231.   75Bg0365T         metavolc rk.  Some of the grit is pebbly and contains touching roundstones to 15 cm long
9232.   75Bg0365T         of phytc siltstone.
9233.   75Bg0365T         For abt 100 meters near station, bedded rx are rsty-wx and contain abund qz-carb veins.
9234.   75Bg0365T         Alteration and veining app is related to intrusion of microgranular to aphanitic, msv-xlne to
9235.   75Bg0365T         schistose, igneous rock that wx tan to rusty and in part clsly rsmbles "schistose flsc aph" of
9236.   75Bg0365T         S.W. Revilla Isl.
9237.   75Bg0365T         Contrast effects of this intrsv w/ that of GDio at 364.  Metapelite ctry rx near intrsv are
9238.   75Bg0365T         ctct met to Bio-Qz-Pc-Py hfls.;
9239.   75Bg0365  ----------------------------------------------------------------------------------------------
9240.   |
9241.   75Bg0366              STATION = 75ABg0366;
9242.   75Bg0366              DATE = 8/28/75;
9243.   75Bg0366              QUAD = KC B-5;
9244.   75Bg0366              LAT = 55/15/50;
9245.   75Bg0366              LONG = 131/26/32;
9246.   75Bg0366              PURPOSE = Geol, geochem;
9247.   75Bg0366
9248.   75Bg0366   TEXT-TOPIC = Lith;
9249.   75Bg0366
9250.   75Bg0366   STRUCTURE;
9251.   75Bg0366        FOL-SCH = 305/60;
9252.   75Bg0366        OTHER = Fspr Porp Sil 305/60;
9253.   75Bg0366
9254.   75Bg0366SA  SAMPLE NUMBER = 75ABg0366A;
9255.   75Bg0366SA        UNIT = PMP;
9256.   75Bg0366SA        SOURCE = OTC;
9257.   75Bg0366SA        TYPE = Repres;
9258.   75Bg0366SA        PURPOSE = Hand spec;
9259.   75Bg0366SA        DESCRIPTION = Sed, met;
9260.   75Bg0366SA        LITH = Metagraywacke;
9261.   75Bg0366SA        MINS = Chl, Ep/Clz;
9262.   75Bg0366SA        TEXTURE = Phyllitic;
9263.   75Bg0366SA        CONDITION = Fresh;
9264.   75Bg0366SA
9265.   75Bg0366SA  SAMPLE NUMBER = 75ABg0366B;
9266.   75Bg0366SA        UNIT = PMP;
9267.   75Bg0366SA        SOURCE = OTC;
9268.   75Bg0366SA        TYPE = Repres;
9269.   75Bg0366SA        PURPOSE = Hand spec;
```

```
75Bg0366SA      DESCRIPTION = Intr;
75Bg0366SA      LITH = GDio;
75Bg0366SA      FORM = 1.5 m sill;
75Bg0366SA      MINS = Qtz, Plag, Garn;
75Bg0366SA      TEXTURE = Porphyritic;
75Bg0366SA      CONDITION = Fresh;
75Bg0366SA
75Bg0366SA SAMPLE NUMBER = 75ABg0366C;
75Bg0366SA      UNIT = PMP;
75Bg0366SA      SOURCE = OTC;
75Bg0366SA      TYPE = Repres;
75Bg0366SA      PURPOSE = Hand spec, spec;
75Bg0366SA      DESCRIPTION = Intr, met, minlzd;
75Bg0366SA      LITH = Felsic aphanite;
75Bg0366SA      FORM = 2-meter zone;
75Bg0366SA      MINS = Qtz, Plag, Py;
75Bg0366SA      TEXTURE = Schistose;
75Bg0366SA      CONDITION = Alter, rusty-wx;
75Bg0366SA      REMARKS = Gx spl coll for bckgr;
75Bg0366SA
75Bg0366T  TEXT = Greenish gray phytc gwk & grit and subord interbedded dk gy metapelite intruded by meter-or-so
75Bg0366T         thick sills of fdspr-porphtc GDio.  There is also rusty-wx schistose felsic aphanite
75Bg0366T         intruded(?) parallel to the fol in ctry rx.  I really don't understand the sc flsc aph.
75Bg0366T         It is not a chilled phase of the GDio, which is "normal" GA-bearing fspr-porph right to ctct w/
75Bg0366T         ctry rx.  As usual, the flsc aph is schistose, pytc, and wx tan to rusty.  Prob all tan-to-rusty
75Bg0366T         wx near station is due to flsc aph.
75Bg0366T         Porphtc GDio clearly intrudes ctry rx---I am not sure whether flsc aph is intrusive or part
75Bg0366T         of stratified rx.
75Bg0366T         Metagw cont spher. concretions to 10-15 cm in diam.;
75Bg0366  ------------------------------------------------------------------------------------------------------
#
75Bg0367            STATION = 75ABg0367;
75Bg0367            DATE = 8/31/75;
75Bg0367            QUAD = KC B-5;
75Bg0367            LAT = 55/18/29;
75Bg0367            LONG = 131/34/08;
75Bg0367            PURPOSE = Geol, geochem;
75Bg0367
75Bg0367   TEXT-TOPIC = Lith;
75Bg0367
75Bg0367   STRUCTURE;
75Bg0367        FOL-SCH = 316/44;
75Bg0367        JOINT = 194/61;
75Bg0367        JOINT = 258/66;
75Bg0367        JOINT = 164/72;
75Bg0367
75Bg0367SA SAMPLE NUMBER = 75ABg0367A;
75Bg0367SA      UNIT = HMP;
75Bg0367SA      SOURCE = OTC;
75Bg0367SA      TYPE = Repres;
75Bg0367SA      PURPOSE = Hand spec, Spec;
75Bg0367SA      DESCRIPTION = Sed, Met;
75Bg0367SA      LITH = Metapelite;
75Bg0367SA      FORM = Bedded;
75Bg0367SA      MINS = Graph, Musc;
75Bg0367SA      CONDITION = Fresh;
75Bg0367SA      REMARKS = Gx spl coll for bckgr;
75Bg0367SA
75Bg0367T  TEXT = HOMESTEAD QUARRY (INACTIVE).;
75Bg0367T         Loc rusty-wx metapelite cont abund Py.  Some Py finely dissem para fol.  Some in cubedra as
75Bg0367T         much as 2 cm on edge.
```

```
75Bg0367T        Several subparallel sills to 2 m tk of microgran Qtz dio parn fol.
75Bg0367T        Moderate gz+-carb vns para and cross fol.
75Bg0367T        This is locality where I noted "small bedding-plane thrust" in 1973.  There is such a structure,
75Bg0367T        marked mainly by a graphitic shear zone about a meter wide.  Cannot determ displmt because
75Bg0367T        rx same on both sides.;
75Bg0367  ------------------------------------------------------------------------------------------------------
#
75Bg0368             STATION = 75ABg0368;
75Bg0368             DATE = 8/31/75;
75Bg0368             QUAD = KC B-5;
75Bg0368             LAT = 55/25/51;
75Bg0368             LONG = 131/30/18;
75Bg0368             PURPOSE = Geol;
75Bg0368
75Bg0368   TEXT-TOPIC = Lith;
75Bg0368
75Bg0368   STRUCTURE;
75Bg0368        FOL-SCH = Approx. SW/v;
75Bg0368        JOINT = Horiz.;
75Bg0368
75Bg0368SA SAMPLE NUMBER = 75ABg0368A;
75Bg0368SA      UNIT = GDio;
75Bg0368SA      SOURCE = OTC;
75Bg0368SA      TYPE = Repres;
75Bg0368SA      PURPOSE = Hand spec;
75Bg0368SA      DESCRIPTION = Intr;
75Bg0368SA      LITH = Granodio;
75Bg0368SA      FORM = Pluton;
75Bg0368SA      MINS = Qtz, Plag, Hbl, Bio, Py, Chl, Ep/Clz;
75Bg0368SA      TEXTURE = Hypid gran;
75Bg0368SA      CONDITION = Fresh;
75Bg0368SA      REMARKS = Hbl, Bi, ptly altd to Chl and Ep.;
75Bg0368SA
75Bg0368T  TEXT = Msv-jointed homogeneous granodio or Qtz dio.  Loc foliated, cut by microdio, aplite dikes.
75Bg0368T        Most of the pluton is greenish gray because of slight to prominent alteration of primary
75Bg0368T        Hbl & Bio to Chl and Ep.  See no garnet.  Dissem Py nearly ubiquitous.
75Bg0368T        Sporadic xenoliths to several meters wide of rusty-wx metapelite, but little evid of assimilation
75Bg0368T        and pluton is free of schlieric inclusions.  Metapelite adjacent to ctct w/ GDio is hardened,
75Bg0368T        but see no ctct meta minerals, or unusual concent of sulfides, veins, etc.;
75Bg0368  ------------------------------------------------------------------------------------------------------
#
```