

Route to: ; Initials Date-
Head, Geochronology Section
Age Determination Committee
Chief, R&EG Division

Midway 675132
1040/16
Age det. prog.
or
'Spot age'

Project No.: 740098 Project Officer: Dr. K.M. Dawson Date: 18/19/84

AGE DETERMINATION METHOD:

Isotope system: Rb-Sr - K-Ar - U-Th-Pb - Other: _____
Type: Isochron - Single determination - Concordia Test -
Material: Whole rock Mineral(s) - : Biotite

SAMPLE INFORMATION:

Collected by: K.M. Dawson Field Note Reference: DY 2913: 112.2-112.78m

{ Sample No.: DY 2913 Specimen No.: DY 2913 Thin Section No.: DY 2913
Nos. of related samples submitted for age det. -
OR
{ Sample Nos. submitted for isochron test -

For single samples:

Specimen - Grab - Chip - Mineral - Other: Drill core
Fresh - Altered - Weathered - Any weathered surfaces? _____

If in rock, content of mineral(s) to be dated: biotite, 5%; _____, _____%. Approximate sample weight: _____

LOCATION AND REFERENCE:

UTM: Zone- E- N-
Province: Yukon NTS: 105B/3 Longitude: 131° 20' W; Latitude: 60° 06' N
Topographic location: Headwaters of ^{Goddard} Seagull and Dorsey cks, Swift R area.

If applicable, map-unit No.: _____, & reference: _____

GEOLOGICAL INFORMATION: Geological setting (rock association, structure, etc.):

Mississippian limestone contact with Seagull Bay biotite Sn bearing skarn: VAB B. (Green Sn-rich andradite garnets lime green amphibole in skarn - Cl rich(?) at 107.1m

Macroscopic description (rock name, type, grain size, texture, etc.): Biotite granite. Fresh biotite ~ 5%, pale pink Ksp. white plagioclase. Medium grained equigranular. Granite/skarn contact 111.0-111.2m

Microscopic description (mineral composition, etc., with special reference to the mineral(s) to be dated): Thin section in preparation.

AGE PROBLEM: To date Sn-rich phase of Seagull Bay biotite at contact with Sn skarn deposit.

Comments by Geochronology Section:

Route to: _____ Initials: _____ Date: _____
 Head, Geochronology Section _____ Age det. prog.
 Age Determination Committee _____ or
 Chief, R & EG Division _____ 'Spot age'

Project No.: 740098 Project Officer: Dr K M Dawson Date: 18/09/84

AGE DETERMINATION METHOD:

Isotope system: Rb-Sr - K-Ar - U-Th-Pb - Other: _____
 Type: Isochron - Single determination - Concordia Test -
 Material: Whole rock Mineral(s) -

SAMPLE INFORMATION:

Collected by: K M Dawson Field Note Reference: DDH 83-47: 260.5m

{ Sample No.: DY 2929 Specimen No.: DY 2929 Thin Section No.: DY 2929
 { Nos. of related samples submitted for age det. - }
 OR
 { Sample Nos. submitted for isochron test - }

For single samples:

Specimen - Grab - Chip - Mineral - Other: Drill core
 Fresh - Altered - Weathered - Any weathered surfaces? _____
 If in rock, content of mineral(s) to be dated: _____, %; _____, % Approximate sample weight: _____

LOCATION AND REFERENCE:

Province: BC NTS: 104/16 or UTM: Zone- E- N-
 Longitude: 130°20' W; Latitude: 59°55' N
 Topographic location: Headwaters Tootsee R: Midway PbZn Ag deposit.
DDH 83-47, top of Tour Ridge ^{1.5 km} SE of Silvertip Mtn.
 If applicable, map-unit No.: 5, & reference: 18-1968 Jennings R

GEOLOGICAL INFORMATION: Geological setting (rock association, structure, etc.):

Host McDame Gp limestone cut by dyke from 255.9-282.6m
Dyke altered to sericite-pyrite-clay ± leucosene(?) May be like 2930
greenstone but more altered.

Macroscopic description (rock name, type, grain size, texture, etc.): Felsic-looking
pale grey siliceous dyke with diss. pyrite + Qtz-pyrite-carbonate veins.

Microscopic description (mineral composition, etc., with special reference to the mineral(s) to be dated): Thin section in preparation.

AGE PROBLEM: Dyke may be related to mineralization, although not
spatially related. Try K/Ar whole rock, compared to DY 2925.

Comments by Geochronology Section:

DY 2929

Route to: Head, Geochronology Section Age Determination Committee Chief, R&EG Division

Initials Date

Age det. prog. or 'Spot age'

Project No.: 740098 Project Officer: Dr KM Dawson Date: 18/09/84

AGE DETERMINATION METHOD:

Isotope system: Rb-Sr, K-Ar, U-Th-Pb, Other: Sulphur
Type: Isochron, Single determination, Concordia, Test
Material: Whole rock, Mineral(s)

Make pyrite concentrate, send to Gwendy Hall for S-isotope analysis

SAMPLE INFORMATION:

304 84-70 (120.0-120.35m)

Collected by: KM Dawson Field Note Reference: DY 2925

Sample No.: DY 2925 Specimen No.: DY 2925 Thin Section No.: DY 2925
Nos. of related samples submitted for age det.
OR
Sample Nos. submitted for isochron test

For single samples:

Specimen - Grab - Chip - Mineral - Other: Drill core
Fresh - Altered - Weathered - Any weathered surfaces?
If in rock, content of mineral(s) to be dated: Approximate sample weight:

LOCATION AND REFERENCE:

UTM: Zone E N

Province: BC NTS: 1040/16 or Longitude: 130°20 W; Latitude: 59°55 N

Topographic location: Headwaters Tootsee R. Midway PbZnAg deposit

If applicable, map-unit No.: 5, & reference: 18-1968 Jennings R

GEOLOGICAL INFORMATION: Geological setting (rock association, structure, etc.):

McDame Group limestone cut by altered dyke. Dyke intersected in drill core 87-125.6m. Original dyke composition unknown. Intensely altered.

Macroscopic description (rock name, type, grain size, texture, etc.):

Foliated, sheared, brecciated & quartz-sericite-pyrite ± clay alteration dyke of unknown composition.

Microscopic description (mineral composition, etc., with special reference to the mineral(s) to be dated):

Thin section in preparation.

AGE PROBLEM:

Dyke closely associated with PbZnAg mineralization and may be mineralizer. KAr on sericite will give age of mineralization. Can you run RbSr also to compare to carbonate alteration RbSr isochron? Compare S isotope in pyrite to Ian Jennings data on barite & sulphides.

Comments by Geochronology Section:

DY 2925