

MINISTRY OF ENERGY, MINES AND
PETROLEUM RESOURCES

To: *Tom Schraeter* Date: *Feb 15/90*
From: *Bill McMullan*

- | | |
|---|--|
| <input type="checkbox"/> For your approval. | <input type="checkbox"/> Prepare reply for my signature. |
| <input checked="" type="checkbox"/> For your information. | <input type="checkbox"/> Prepare draft of reply. |
| <input type="checkbox"/> For necessary action. | <input type="checkbox"/> Return to me. |
| <input type="checkbox"/> Send me copy of reply. | <input type="checkbox"/> File. |
| <input type="checkbox"/> For your comments. | <input type="checkbox"/> For signature. |
| <input type="checkbox"/> Wish to discuss. | |

LOG NO: FEB 20 1990	VAN 3
ACTION:	
<i>JGS</i>	
FILE NO:	<i>WILLA</i>

U-Pb

- Mineral analysis
- Concordia interpretation
- Mineral or rock isochron

Sample Number(s) and Reference(s)

Lab No:

Ref:

Record No:

Suite No:

Sample Name:

AYLWIN CREEK MAFIC PLAGIOCLASE PORPHYRY

decay constant

- old: 0.1537/0.9722/0.0499/137.8
- new: 0.155125/0.98485/0.049475/137.88
- other: _____
- not reported

Upper Intercept
 Computed 2213.5 ± 276 2σ error
 Assumed 2330 ± -256 Ma

Lower Intercept
 Computed 184.7 ± 17 2σ error
 Assumed 194 ± -18 Ma

238_U-206_{Pb} date ± Ma

235_U-207_{Pb} date ± Ma

207_{Pb}/206_{Pb} date ± Ma

232_{Th}-208_{Pb} date ± Ma

Number of Points: n = 35

Latitude: (49 ° 53 ' " N,
 Longitude: 117 ° 22 ' " W (±)

(X° Y' Z" or X° Y.Y')
 Elevation: _____

UMT Zone 11 474000 E 5525500N;

Province: B.C.

Sec. _____, T. _____, R. _____;

Co., State _____

(NTS 82 F/8)

Map Area (1:250,000)

Location: EXPLORATION ADIT NORTH OF AYLWIN CREEK
 Source Type: _____
 Rock Types: ALTERED 'QUARTZ LATITE' PORPHYRY
 Geologic Unit: _____
 Geologic Setting: INTRUDES ROSSLAND (?) VOLCANICS + SEDIMENTS IN A ROOF PENDANT
 Material Analysed: ZIRCON w. COMMON XENOCRYSTIC CORES

Comment on Analyses: 3 POINT DISCORDIA DOES'NT GIVE MEANINGFUL RANGE OF INTERCEPT ERRORS. NEED ANALYSIS OF 1 MORE FRACTION FOR BETTER ERROR CONTROL. ANALYSES RECALCULATED FEB/90 TO CONSISTENT COMMON PRAGE. Abraded coarse fraction gives another point on the same line, improves errors.

Interpretation: EARLY JURASSIC INTRUSION. ZIRCONS CONTAIN LARGE AMOUNT OF INHERITED (XENOCRYSTIC) Pb OF EARLY PROTEROZOIC AGE

Collected by: W.J. McMILLAN

Date of listing: _____

Dated by: P. VAN DER HEYDEN

D. Murphy

Sample Name or Number:

Split-Mineral	ppm U	ppm Pb	206	207	208	204	Meas. $\frac{206}{204}$	Mole % Blank Pb	Rad. Pb Rad+ComPb	Common Pb Age	
70-100m NM 2/1 ^o	440.8	22.6	100	9.3794	9.8839	0.0344	2577	0.44	0.976	185	
2.4mg	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ ratio } \pm$	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ date } \pm$					R
	0.04970 ± 0.00020	0.61267 ± 0.0025	0.08941 ± 0.00007	312.7 ± 1.2	485.2 ± 1.6	1412.9 ± 1.2					99
100+200m NM 2/1 ^o	408.0	18.3	100	9.2834	11.5007	0.0713	1150	0.9	0.948	180	
1.0mg	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ ratio } \pm$	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ date } \pm$					R
	0.04252 ± 0.00008	0.48533 ± 0.00076	0.08278 ± 0.00007	268.4 ± 0.5	401.7 ± 0.7	1264.1 ± 1.5					97
200m M 1.8/2 ^o	474.2	22.15	100	9.5703	12.8828	0.1205	716	1.11	0.918	185/20	
0.6mg	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ ratio } \pm$	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ date } \pm$					R
	0.04331 ± 0.00007	0.46960 ± 0.00089	0.07864 ± 0.00007	273.3 ± 0.4	390.9 ± 0.6	1163.1 ± 1.8					96
149+144(100+200m) M 1.8A/2	319.4	11.1	100	7.2003	11.3658	0.0535	786	4.29	0.925	185 ± 20	
0.2mg	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ ratio } \pm$	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ date } \pm$					R
	0.03384 ± 0.00008	0.29496 ± 0.0014	0.06428 ± 0.00022	214.5 ± 0.5	266.4 ± 1.1	751 ± 7.2					92
100m abraded Nm 2A/1 ^o	161.6	7.41	100	8.804	11.0184	0.0238	3102	0.50%	0.981	185/20	
0.8mg	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ ratio } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ ratio } \pm$	$\frac{206 \text{ Pb}}{238 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{235 \text{ U}} \text{ date } \pm$	$\frac{207 \text{ Pb}}{206 \text{ Pb}} \text{ date } \pm$					R
	0.04430 ± 0.00024	0.51740 ± 0.00024	0.08470 ± 0.00007	279.5 ± 1.5	423.4 ± 1.9	1308.7 ± 1.7					99

Statement of Uncertainties: ERRORS ARE 1 σ

Isotopic composition of blank: S-K Modern Pb (6/4:18.7, 7/4:15.63, 8/4:38.63) or Other (6/4:17.757/4:15.5 8/4:37
 Isotopic composition of common Pb based on S-K growth curve /4=11.52, 7/4=12.998, 8/4=31.23 at 3.7Ga with
 238U/204Pb=9.74, 232Th/204Pb=37.19; decay constants 0.155125, 0.98485, 137.88; or Other (6/4: 7/4: 8/4

