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Appendix 1 Descriptions of thin sections in the project area

			Coordination	nation				henc	Phenocryst, crystals	cryst	als		⋖	ccess	Accessory Minerals	nerals		ĺ					lterat	on ar	Me.	атто	Alteration and Metamorphic Minerals	Miner	sls		Į				
Se.	Sample No.	Block			Rock Name Geo	g =	Texture														Sign												sle.	 Remaks	
			S	*			zpenb	Plagioclase	K-feldspar biotite	muscovite	homblende augite	alisqoib	enivilo epitede	Zircon	elitur ejinstif	enerle	allanite magnetite	ətinəmil	pyrite sphalerite	elizenom	opaque miner quartz	biotite	actinolite muscovite	epidote	sericite	chlonte phengite	JIBIC COLUMN	etiqogolitq	chalcopyrite pyrite	əlitun	carbonate	etitem	Ilmenite opaque miner		
_	A2103	Block B	9.22.40	.00.06~25	Granite-gneiss Ap		Granoblastic	0	•										ļ		•				•										
20	D2046	Block B	9"24'37"	57~2338"		함	Grilla Inequigranular	0	<u></u>						•		-				,			·	·			<u> </u>							
æ	E2043	Block B	9°23'57"	57°28'21"	57°28'21 Fine biotite Gru	Grupe Granific	anitic O	0	୍ଚ		<u></u>		•	·	•				_					٠											
4	E2046	Block B	9°23'44"		Diabase		Granoblastic														_		0	0		0									
G.	E2052	Block B	9-2426	57:27:22*	Porphyritic granite	gp Por	Grugp Porphyritic O	0	•				٠										-	•							-				
Ç	E2053	Block B	9-24'03"	57-27'22"	Altered granite	Grupm Granitic	O suffic	0	0 0				•		-																				
7	H1012	Block B	9°24'32"		57°23'43" Biotite monzogranite Grus	Gruph Granitic	anitic O	0	0 0				•	·	·									•						·					
*	J2103	Block B	9°22'16"	57°28'34"	Altered granite	Grillb Granitic	anitic	0	္ ၀				•	·										Ŀ											
6	12225	Block B	9.24'57"	57°23'51"	57°23'51" Ho-bi granite Gril	lla Gra	Grilla Granoblastic	0	•					·							-		-	· .				_							
10	0202¥	Block C	9°30'34"	56-37'14"	56°37'14" Aftered gabbro Di		Gabbroic O	0	С		_	0	$\dashv$	·	0		$\Box$							٠											
=	A2035	Block C	9°29'46"	.05.23.20	56°33'50" Biotite monzogranite Gril	Grillb Granttic	anttic O	0	00				•											•		÷									
12	C2001	Block C	9°31'10"		56°35'02" Ho bi granodiorite Gril	ਜੂ ਦੂ	Grillb Inequigranular	0	•		•		-				_									_									
13	60020	Block C	9°29'43"		56°37'20" Leucocratic granite Ap		tnequigranular O	0	•		$\dashv$				_		$\dashv$									-							•		
14	J2006	Block C	9°31'38"	56°35'28" Gabbro	Gabbro Di		Ophitic	0				0	-				•		•																
15	E2306	Block F	9~58'54*		54°55'50* Bi granite Pxn	ĐE ĐE	Pxmg Inequigranular O	0	0				•	·	·						$\overline{}$												•		
16	A2336	Block F	10°01'55		55°01'33" Two mice schist Pxs	to.	Pxsch Lepidoblastic				-		•		$\overline{}$		-				•	0	0	•		-						-	•		
17	A2338	Block F	10,02,15	55°01'32"	Bi gneiss	Pxgn Gn	Gneissose O	0	0				•		$\neg$	·	$\dashv$				٠.		-			_		_				-			
18	A2346	Block F	9~59'41"	54"57'08"	Aftered andesite Pxv porphyry		Porphyritic	0	-		•				$\dashv$		$\dashv$					_	0		•	0							•		
19	A2350	Block F	10°01'54'	54°59'27"	Bi granite	Pxgg Inex	Inequigranuler O	0	0		$\dashv$		•				$\dashv$						$\neg$	·	$\overline{\cdot}$	•							•		
20	A2351	Block F	10~01.46*	54°57'48* Diabase		Di Opt	Ophitic	0				0							•		•			·		•							•		
21	F0606800	10 Block F	9°58'23"	$\overline{}$	54°59'22* Fine, bi granite Pxg	96 Ine	Pxgg Inequigranular O	0	0	•			•	·	·											•									
22	B2018	Block F	10°01'21"		55°00'43" Talc phiogopite schist Pxs	rch Lep	Pxsch Lepidoblastic				_																0	0					0		
23	B2026	Block F	10-01'18"	55°00'47"	Diorite or gabbro Gb		Ophitic	0			0										0												_		
24	B2041	Block F	10°01'29"		55°00'35" Mica schist Pxs	Pxsch Granutar	ınutar		0														0												
25	B2050	Block F		55°00'56"	10°00'51" 55°00'56" Pink granite Pxg	96 Pot	Pxgg Porphyritic O	0	o				$\square$		·		·							·		•						·	-		
56	D2301	Block F	10~00.55*		55°01'50" Fine, Ho-Bi granite Pxgp		Inequigranular O	0	0 0		0		•		-	·	$\exists$						-	•				•					•		
27	P2010	Block F	9°58′15°	54°58'38"	Gabbro Gb		Ophitic	0			0		•				•																		
28	A2404	Block G	9~53.48"	55°15'07"	Gnelssose bi granite	56 Fi	Pxgg Inequigranular O	0	0		$\dashv$		$\dashv$				-				-		_	•											

### Standing	1	-
Silveging	Hemaks	erals
		nim eupsgo
	Glass (O)	
	Glass (Ø)	•
		<u> </u>
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Appendix 2 Descriptions of polished sections in the project area

			Coord	lination				dent	ified	min	era	s								Gan	igue	М.
Ser. No.	Sample No.	District	s	w	Descriptions	pyrite	pyrrhotite	goethite	hematite	limonite	magnetite	chalcopyrite	chalcocite	coveline	malachite	sphalerite	galena	bismuthinite	gold grain	quartz	titanite	rutile
1	A2136a	Block B	9°22'43"	57°26'42"	Sulphide rich quartz vein	-	_	0	0	0	_											
2	A2136b	Block B	9°22'43"	57°26'42"	Sulphide rich quartz vein	0								0		0						
3	A2140a	Block B	9°22'43"	57°26'42"	Sulphide rich quartz vein			0	•	0								-		0		
4	A2140b	Block B	9°22'43"	57°26'42"	Sulphide rich quartz vein				0		0											
5	A2140c	Block B	9°22'43"	57°26'42"	Sulphide rich quartz vein			0	0	٥												
6	A2040a	Block C	9°30′56″	56°35'54"	Quartz vein with Py-Cp dissemination	0						•		•		0	0					
7	A2040b	Block C	9°30'56"	56°35'54"	Quartz vein with Py-Cp dissemination	0						•		•		0	0		•			
8	A2040c	Block C	9°30'56"	56°35'54"	Quartz vein with Py-Cp dissemination	0						•				0	0					
9	A2040d	Block C	9°30'56"	56°35'54"	Quartz vein with Py-Cp dissemination	0						•				0	0					
10	A2035	Block C	9°29'46"	56°33'50"	K-f. porphyritic bi granite with Py dissemination	Ô															٥	•
11	B2001	Block F	9°58'27"	54°58'00*	Quartz vein in granite				ं											0		
12	B2044	Block F	9°58'17*	54°58'28"	Quartz vein with Py dissemination	0						•							•			
13	B2048	Block F	9°58'13"	54°58'42"	Quartz vein with strong Py dissemination	0	<u> </u>					•		•				0				
14	B2051	Block F	09°58'24°	54°58'18"	Quartz vein			Г							0					0	$\exists$	
15	P2015	Block F	09°58'14"	54°58'46"	Quartz vein with Py dissemination	Ô							0	•							T	•
16	A2419	Block G	9°30'39"	56°35'17*	Quartz vein with hematite and goethite															П	$\exists$	П
17	A2431	Block G	9°28'43"	56°36'29"	Hematite goethite quartz vein	T		0	0	0												
18	A2438a	Block G	10°02'13*	55°01'31"	Hematite goethite rich quartz vein			0	0	0									•			
19	A2438b	Block G	10°02'02"	55°01'27"	Hematite goethite rich quartz vein			0	٥	٥												
20	A2439	Block G	10°01'32"	55°00'31"	Quartz vein with pyrite, hematite and goethite	0																
21	A2441a	Block G	10°01'32"	55°00'31"	Sulphide rich quartz vein	0			0	0												
22	A2441b	Block G	10°01'32"	55°00'31"	Sulphide rich quartz vein	0			0	0									Г			
23	A2442	Block G	9°58'12"	54°58'45"	Pyrite disseminated, silicified granite	0				•										0		
24	A2448	Block G	9°58'09"	54°58'44"	Pyrite disseminated, silicified rock	•	_						•							0		
25	A2449	Block G	10°01'32"	55°00'31"	Sulphide rich quartz vein in silicified rock	0													Γ			
26	A2450	Block G	9°57'42"	55°14'03°	Quartz vein with hematite, goethite in sil. rock				•	•												
27	A2451a	Block G	9°56'27"	55°12'57"	Fine Py dissemination in sil. rock	0								•								
28	A2451b	Block G	9°52'23"	55°20'10*	Fine Py dissemination in sil. rock	•				ļ -		•									Γ	
29	A2452a	Block G	9°53′17"	55°20'56"	Sulphide rich quartz vein	0								•		Γ						
30	A2452b	Block G	9°57'56"	55°21'24"	Sulphide rich quartz vein	0								•		Ī						
31	A2553	Block G	9°57′56″	55°21'24°	Stockwork quartz vein with Cp + Py	•								•								
32	A2479	Block G	9°57'56"	55°21'24°	Py dissemination in epidote, silicified granite	•	Í			•				Γ			_				Г	
33	A2480	Block G	9°57'56"	55"21"24"	Sulphide rich ore	0														П	Γ	
34	A2482	Block G	9°57'5 <b>6"</b>	55°21'24"	Py disseminated ore with Qtz vein network	Ô	Ī				٥	•										
35	A2484	Block G	9°57'56"	55°21'24"	Py disseminated ore in Ep + Chl, silicified rock	•				•				<del>                                     </del>	Γ		Γ	Г				
36	A2517	South of Block B	9°57'56"	55°21'24"	Py disseminated ore in Ep + Chl, silicified rock	1	T	Τ					Г	Γ	Γ	Γ	Γ	Γ				

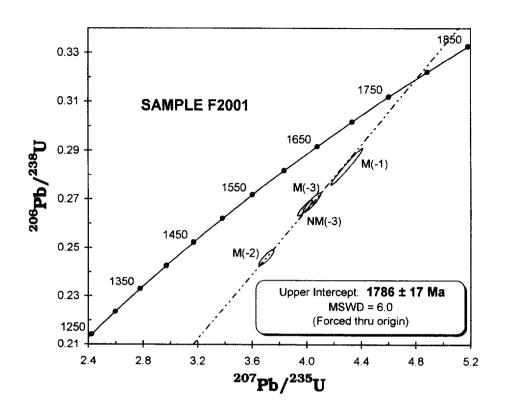
Appendix 3 Results of X-ray diffraction analyses in the project area

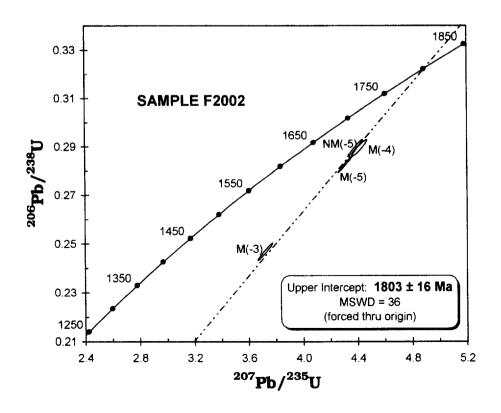
			Coord	nation						Det	ecte	ed N	line	als								
Ser. No.	Sample No.	Block	S	w	Descriptions	quartz	K-feldspar	albite	biotite	sericite	chlorite	kaolinite	talc	1/8	vermiculite	Tremolite	calcite	dolomite	pyrite	goethite	spharelite	Remarks
1	A2126	Block B	9°22'43"	56°35'54"	sheared, silicified granite	0	0			0	Ŭ	•	-								- V	
2	A2131	Block B	9°22'43"	56°35'54"	sheared, silicified granite	0			ļ	Δ												
3	A2136	Block B	9°22'43"	56°26'42"	sheared, silicified granite	0	Δ			0												
4	A2140	Block B	9°22'43"	56°26'42"	sheared, silicified granite	0	0			0										0		
5	A2141	Block B	9°22'43"	56°26'42"	silicified granite	0	0			0		Δ					Δ					
6	A2035	Block C	9°29'46"	56°33'50"	chl-epi, py diss. in granite	0	0	0		0							•					
7	A2040	Block C	9°30'56"	56°35'54"	qtz in granite	0				Δ												
8	A2041	Block C	9°30'56"	56°35'54"	argillized granite	0	0					0					Δ					
9	A2042	Block C	9°30'56"	56°35'54"	argillized granite	0	0			0		٠					0					
10	A2043	Block C	9°30'56"	56°35'54"	sil. granite	0	Δ			0		Δ										
11	A2047	Block C	9°30'56"	56°35'54"	argillized granite	0	0		L	0		Δ										
12	A2306	Block F	10°00'55"	55°01'50"		0				0								<u> </u>				
13	A2328	Block F	9°59'58"	54°57'15"	sil. argillized volcanic rock	0																
14	A2331	Block F	9°56'58"	54°57'15"	sil. argillized rock	0		L	<u></u>													
15	A2347	Block F	9°59'41"	54°57'08"	sil. epi., qtz network	0			L	_	Δ			_								
16	F0701700	Block F	10°01'26"	54°58'28"	unknown mineral (qtz?)	0							_						_			
17	B2003	Block F	10°01'19"	55°00'36*	altered rock	ļ					0		0		0	0	_	0			ļ	
18	B2023	Block F	10°01'18"	55°00'47"	schist (saprolite)	0																
19	B2031	Block F	10°01'20"	55=00'45"	talc-chl-schist						0	L_	0	_	0	Δ		0				_
20	B2041	Block F	10°01'29"	55°00'35"	schist	0			Ĺ	L	0		0	0				ļ		L		
21	B2050	Block F	09°58'24"	54°58'18"	pink granite	0	0	0	<u> </u>		0					ļ	Δ			_		
22	P2014	Block F	09°58'14"	54°58'46"	sheared rock	_				0									_	_		
23	A2428	Block G	9°54'36"	55°20'57"	ser., sli. granite	0	<u> </u>			0										<u></u>		
24	A2429	Block G	9°54'36"	55°20'57"	sil., argillized granite	0	_	_		0		_	ļ							L.		<del></del>
25	A2442	Block G	9°53′16″	55°20'56"	sil. granite	0	0		ļ	0						_		L	ļ	<u> </u>	_	
26	A2450	Block G	9°52'21"	<del></del>	sil. granite with hm-lim-goe	0	_		ļ	0							_	ļ	ļ	<u> </u>	_	
27	A2452	Block G	9°52'21"	55°20'09"	py rich atz vein	0	<u> </u>	ļ.	<u> </u>	0						_		ļ		_	_	_
28	A2467	Block G	9°56'28"	55°12'57"		0		<u> </u>	-	0		•	ļ					ļ	-	-		
29	A2474	Block G	9°56'26"	55°13'02"		0				0	_	0				_				-		
30	A2475	Block G	9°56'26"		sil, argilled granite	0	<u> </u>	-	-	<u> </u>		0	_				-	-	•	_	ļ.	
31	A2484	Block G	9°56'28"	55°12'57"	-	0	<u> </u>	<u> </u>	<u> </u>	Δ	_		_	_		_	-	-	$\triangle$	_	Δ	
32	A2501	South of Block B	9°31'59"	<del> </del>	silicified granite	0	0	0	0	ļ		_	_				Δ	$\vdash$	-	_	<u> </u>	
33	A2504	South of Block B	9°32'03"	57°30'49"	silicified granite	0	0	_	_		ļ	0	ļ		_	_	-	<u> </u>		<u> </u>	-	
34	A2517	South of Block B	9°32'38"	57°36'09'	silicified granite	0	0	0	_	Δ		<u> </u>	<u> </u>				Δ					

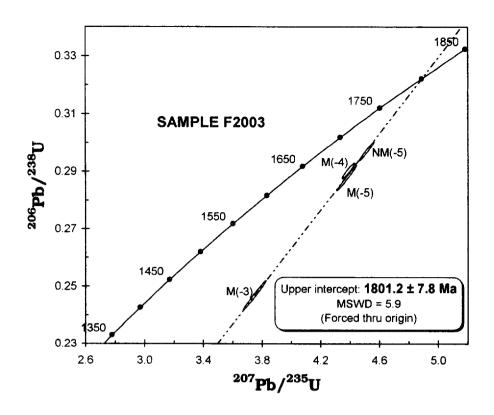
 $\ensuremath{\circlearrowleft}$  : abundant,  $\ensuremath{\circlearrowleft}$  : common,  $\triangle$  : a little, \* : rare.

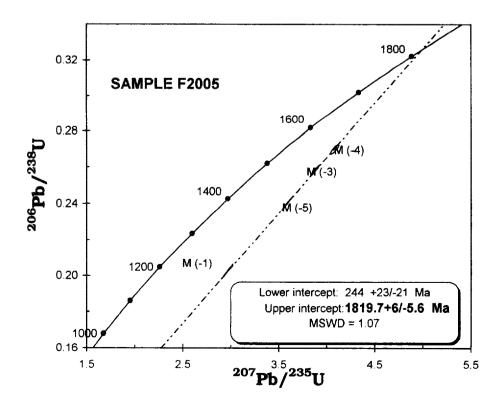
Appendix 4 List of dating results in the project area

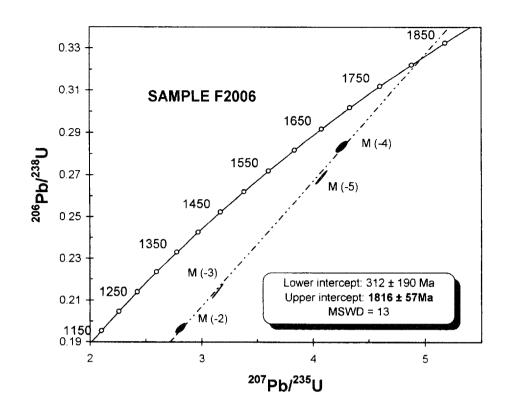
Ser.	Sample	Area	Coordina	ition	Rock Name	Geol.	Texture	207Pb/235U	206Pb/238U	Age
No.	No.		S	w		Unite				Upper intercept
1	F2001	Block C	9°31'05"	56°39'15"	Rhyolite	Puiv	Porphyritic	4.03825	0.268711	
					,		, ,	3.98633	0.266479	1786 ± 17 Ma
								3.70384	0.245968	(U/Pb method)
								4.294438	0.283432	(6/1 6 111611166)
								1.201100	0.200102	
2	F2002	Block C	9°27'20"	56°39'45"	Granodiorite	Grillb	Inequigranular	3.72078	0.246719	
							-	4.38498	0.289459	1803 ± 16 Ma
	:							4.3147	0.282839	(U/Pb method)
								4.41599	0.289439	
3	F2003	Block C	9°30'52"	56°35'47"	Biotite monzogranite	Grillb	Granitic	3.74967	0.246953	
								4.51469	0.297036	1801.2 ± 7.8 Ma
								4.37845	0.28774	(U/Pb method)
								4.39034	0.290217	
						0.111			0.000170	
4	F2005	Block B	9°24'39"	57°22'05"	granite	Grilla	Inequigranular	2.96239	0.202159	
								3.59264	l	1819.7 +6/-5.6 Ma
								3.87979	0.258131	(U/Pb method)
								4.08475	0.269853	
5	F2006	Block B	9°23'17"	57°27'50"	Granite	Grillb	Inequigranular	2.79778	0.196922	
	7 2000	Dioux D	3 20 17	0, 2, 00	Claime	GB	mequigramala.	3.13026	0.214863	1816 ± 57 Ma
								4.06224	0.270152	(U/Pb method)
								4.24664	0.284908	(en e meulea)
								1.21001	0.201000	
6	F2007	Block G	9°58'32"	55°13'45"	Bi-ms monzogranite	GrII	Granitic			
										1823 ± 35 Ma
								ļ		(Pb/Pb method)
7	F2008	Block G	9°59'14"	55°20'31"	Biotite monzogranite	GrIII	Inequigranular	4.6515	0.2959	
								4	0.2576	1848 ± 17 Ma
								4.899	0.3148	(U/Pb method)
								1.3605	0.08353	
<u> </u>								5.023	0.323	
8	F2009	Block G	9°54'37"	55°15'28"	Biotite granite	Pxg	Inequigranular	4.595	0.2982	
								3.1048	0.1871	1817 ± 57 Ma
								3.016	0.1817	(U/Pb method)
								2.669	0.1625	
<del> </del>	F0040	Diag's C	005414.0"	EE040100"	0		Cua matria att	3.016	0.1817	
9	F2010	Block G	9°51′16"	55°10'32"	Granite	Gru	Granoblastic	3.112	0.1907	1007 + 1001
								6.6238 5.437	0.4059 0.3303	1937 ± 100 Ma (U/Pb method)
								5.437	0.3303	(O/FD IIIetilod)
10	F1011	Block F	10°00'38"	55°01'04"	Monzogranite ?	Pxg	Inequigranular	2.5978	0.158	
							, <u>J</u>	2.2822	0.13897	1894 ± 5.9 Ma
								2.2973	0.1399	(U/Pb method)
								4.516	0.2813	]
								5.352	0.335	
	L	L	L	L	1			L		<u> </u>

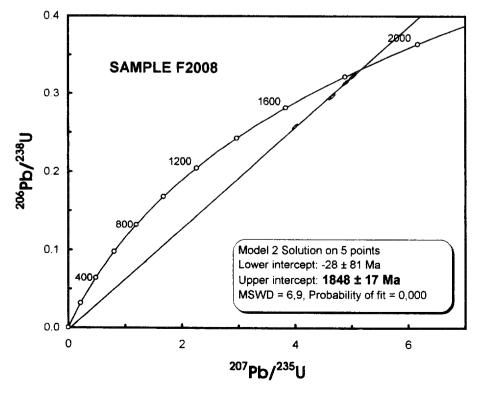


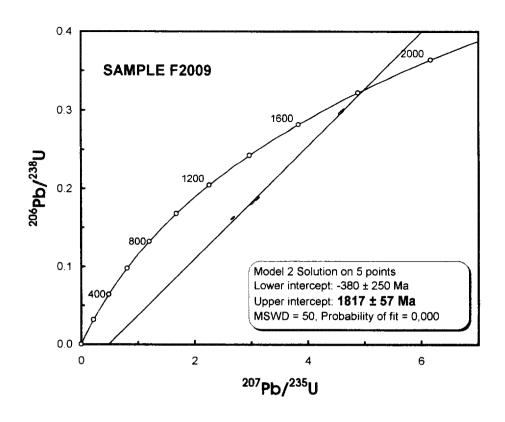


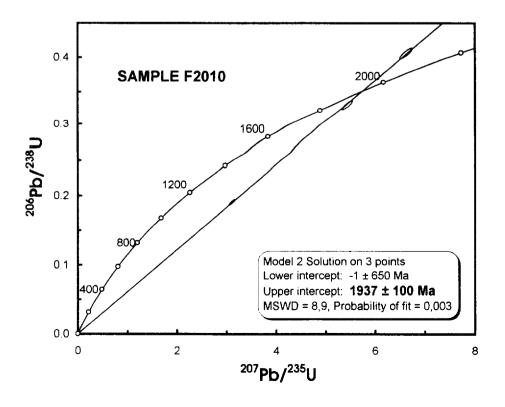


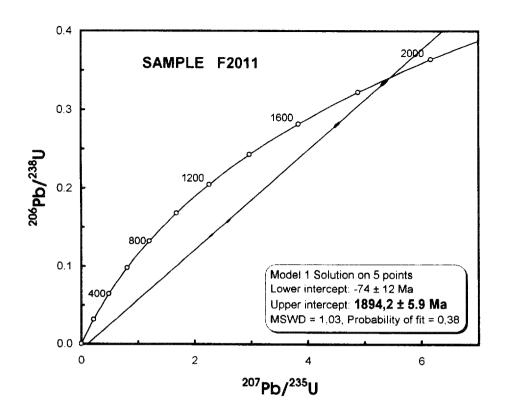


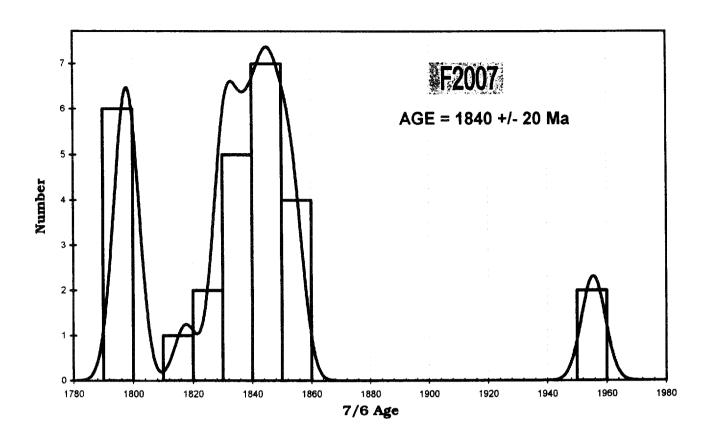












## SAMPLE FD-07

	207Pb/206Pb*	Age (Ma)		
Zircon 1	0.1099	1797.75	0.2	* corrected for common Pb
	0.1097	1794.43	0.2	
	0.112	1832.12	0.2	
	0.1111	1817.49	0.2	
	0.1118	1828.88	0.2	
Zircon 2	0.112	1832.12	0.2	
	0.1128	1845.01	0.2	
	0.1123	1836.97	0.2	
	0.113	1848.21	0.2	
	0.1125	1840.19	0.2	
	0.1118	1828.88	0.2	
	0.11	1799.40	0.2	
Zircon 3	0.1098	1796.09	0.2	0.11145 1823.195
	0.11	1799.40	0.2	0.002192
	0.112	1832.12	0.2	0.113642 1858.455
	0.1123	1836.97	0.2	
	0.12	1956.22	0.2	35.25931
	0.1199	1954.73	0.2	
Zircon 4	0.1125	1840.19	0.2	AGE = 1823 +/- 35 Ma*
	0.1134	1854.60	0.2	
	0.1132	1851.41	0.2	
	0.1129	1846.61	0.2	Total Control of the
Zircon 5	0.11	1799.40	0.2	* This age is derived from the grand
	0.1127	1843.40	0.2	average of all 207Pb/206Pb ratios. The
	0.1132	1851.41	0.2	best age estimate is derived from the
	0.1128	1845.01	0.2	graph in annex, excluding anomalously
	0.113	1848.21	0.2	low and high ages.

## Appendix 5 Analytical results and histogram of fluid inclusion in the project area

Temperatures and Salinity of Fluid Inclusion in the Project Area.

Description     Number     Fainer and Post (A)     Construction     Construction<			3	13	11.00				Temperature (%)	7	ciles	Calinity (92)	
Number     Range     Average     Number     NaCl eq.       20     200.8 to 269.4     225.3     5     9.0       24     177.0 to 362.2     232.3     5     8.8       21     150.1 to 326.6     183     5     18.6       21     150.1 to 326.6     183     5     18.6       22     12.1 to 386.0     313.4     5     11.9       20     225.5 to 378.8     292.8     5     11.9       20     125.2 to 332.4     260.7     2     11.8       20     174.8 to 308.8     224.7     5     11.8       20     174.8 to 308.8     164.7     5     7.0       20     174.8 to 308.8     164.7     5     7.0       20     174.8 to 308.8     224.7     5     7.6       20     174.8 to 308.9     224.7     5     7.6       20     182.5 to 282.9     225.4     5     7.6       20     182.5 to 282.9     225.4     5     7.6       20 <th>Coordination</th> <th>Coordination</th> <th>oordination</th> <th></th> <th></th> <th></th> <th>:</th> <th></th> <th>emperature (</th> <th>1</th> <th>Tille o</th> <th>(%)</th> <th>Αď</th>	Coordination	Coordination	oordination				:		emperature (	1	Tille o	(%)	Αď
20     200.8 to 269.4     225.3     5     9.0       24     177.0 to 362.2     232.3     5     8.8       5     187.6 to 326.6     183     5     186.6       5     182.6 to 365.5     232.3     5     8.8       5     182.6 to 365.5     278.1     5     186.6       5     182.6 to 365.5     278.1     5     18.6       5     20     122.5 to 378.8     292.8     5     11.9       5     20     225.5 to 378.8     292.8     5     11.9       5     20     122.5 to 378.8     292.8     5     11.9       5     17.8 to 284.0     292.8     5     11.9       5     17.4 3 to 30.8     224.7     5     13.6       5     17.4 3 to 30.8     224.7     5     13.6       5     17.4 3 to 30.8     224.7     5     13.6       5     148.4 to 190.3     164.7     5     13.6       5     188.to 282.9     226.4     5 <t< th=""><th>No. District S W Ro</th><th>N S</th><th>W</th><th></th><th>∠ إ</th><th>Rock Name</th><th>Description</th><th>Number</th><th>Range</th><th>Average</th><th>Number</th><th>NaCl eq.</th><th>(g/t)</th></t<>	No. District S W Ro	N S	W		∠ إ	Rock Name	Description	Number	Range	Average	Number	NaCl eq.	(g/t)
24     177.0 to 326.6     183     5     8.8       sseminatio     21     150.1 to 326.6     183     5     18.6       sseminatio     20     182.6 to 386.5     278.1     5     11.9       steminatio     20     225.5 to 378.8     292.8     5     11.9       steminatio     20     129.8 to 284.5     186.4     5     11.8       steminatio     20     174.8 to 308.8     224.7     5     7.0       steminatio     20     174.8 to 380.8     224.7     5     7.0       steminatio     20     178.4 to 380.8     221.5     5     7.9       steminatio     20     178.1 to 343.5     253.4     5     7.9       steminatio     20     178.1 to 343.6     253.8     5	A2126 Block B 9, 2441' 57, 24'00' qua	9, 24'41" 57, 24'00"	57, 24'00"		dua	rtz vein (	quartz vein	20	200.8 to 269.4	225.3	2	0.6	0.12
sseminatio	A2136 Block B 9, 24'41" 57, 24'00" quart	9, 24'41" 57, 24'00"	57, 24'00"	<del> </del>	quart	z vein	quartz vein	24	177.0 to 362.2	232.3	22	8.8	1,13
20     182.6 to 365.5     278.1     5     13.0       20     272.1 to 386.0     313.4     5     11.9       20     225.5 to 378.8     292.8     5     >19.0       20     225.5 to 378.8     292.8     5     >19.0       20     129.8 to 258.6     155.3     5     7.0       20     171.0 to 294.4     226.5     5     7.0       20     174.8 to 308.8     224.7     5     7.6       20     178.4 to 190.3     164.7     5     7.6       20     182.5 to 282.9     221.5     5     7.9       20     188.4 to 380.8     216.8     5     7.9       20     184.7 to 343.6     253.4     5     7.9       20     175.1 to 343.6     253.4     5     7.9       20	A2009 Block C 9, 22'34" 57, 14'22" quart	9, 22.34" 57, 14'22"	57, 14'22"		quart	z vein	quartz vein with goethite	21	150.1 to 326.6	183	S.	18.6	0.01
20     272.1 to 386.0     313.4     5     11.9       20     225.5 to 378.8     292.8     5     11.9       20     125.5 to 378.8     292.8     5     19.0       20     129.8 to 258.6     155.3     5     7.0       20     171.0 to 294.4     226.5     5     7.0       20     174.8 to 308.8     224.7     5     7.6       20     174.8 to 308.8     224.7     5     7.6       20     174.8 to 190.3     164.7     5     7.6       20     184.4 to 190.3     164.7     5     7.9       20     182.5 to 282.9     221.5     5     7.9       20     182.6 to 280.8     216.8     5     7.9       20     184.7 to 332.6     253.4     5     7.9       20     184.7 to 343.5     234.8     5     7.5       20     184.7 to 343.5     223.8     5     7.9       20     189.3 to 355.0     260.1     5     7.9       20	A2014 Block C 9, 32'42" 56, 32'18" quartz	9, 32'42" 56, 32'18"	56, 32'18"	<u> </u>	quartz	vein	quartz vein with hematite	20	182.6 to 365.5	278.1	r,	13.0	0.29
with hematite     20     225.5 to 378.8     59.2.     > 19.0       with hematite     22     195.2 to 332.4     260.7     2     11.8       20     129.8 to 258.6     155.3     5     10.0       20     171.0 to 294.4     226.5     5     7.0       20     174.8 to 308.8     224.7     5     2.6       20     174.8 to 308.8     224.7     5     2.6       20     174.8 to 190.3     164.7     5     2.6       20     184.4 to 190.3     164.7     5     2.6       30     182.5 to 282.9     221.5     5     7.6       30     182.5 to 282.9     221.5     5     7.9       4 mith hm     20     188.4 to 380.8     25.4     5     7.9       A mith hm     20     188.4 to 380.8     226.4     5     7.5       A mith hm     20     175.1 to 343.5     23.48     5     7.9       A mith hm     20     187.4 to 341.8     256.1     5     9.0	A2040 Block C 9, 31'03" 56, 34'18" quartz	9, 31'03" 56, 34'18"	56, 34'18"		quartz	vein	quartz vein with py-cp Disseminatio	20	272.1 to 386.0	313.4	5	11.9	(113.44 to 76.74)
22     195.2 to 332.4     260.7     2     11.8       20     129.8 to 258.6     155.3     5     1.0       20     171.0 to 294.4     226.5     5     7.0       20     171.0 to 294.4     226.5     5     7.0       20     174.8 to 308.8     224.7     5     7.0       20     178.1 to 308.8     186.4     5     7.0       20     182.5 to 282.9     221.5     5     7.0       20     182.5 to 282.9     221.5     5     7.0       with hrm     20     182.5 to 282.9     221.5     5     7.9       with hrm-lum-goe     20     175.1 to 343.5     23.4     5     7.9       with hrm-lum-goe     20     175.1 to 343.5     226.1     5     9.0       with hrm-lum-goe     20     182.4 to 341.8     256.1     5     9.5       with hrm-lum-goe     20     182.4 to 349.3     258.8     5     9.0       with hrm     20     187.8 to 349.3     258.8     5 <td< td=""><td>A2049 Block C 9, 31'03" 56, 34'18" quartz</td><td>9, 31'03" 56, 34'18"</td><td>56, 34'18"</td><td></td><td>quartz</td><td>vein</td><td>quartz vein with hematite</td><td>20</td><td>225.5 to 378.8</td><td>292.8</td><td>2</td><td>&gt;19.0</td><td>60.0</td></td<>	A2049 Block C 9, 31'03" 56, 34'18" quartz	9, 31'03" 56, 34'18"	56, 34'18"		quartz	vein	quartz vein with hematite	20	225.5 to 378.8	292.8	2	>19.0	60.0
20     129.8 to 258.6     155.3     5     7.0       20     171.0 to 294.4     226.5     5     7.0       20     174.8 to 308.8     224.7     5     7.0       20     174.8 to 308.8     224.7     5     2.6       21     155.3 to 284.5     186.4     5     13.2       20     182.5 to 282.9     221.5     5     1.2       20     182.5 to 282.9     221.5     5     1.2       30     182.5 to 282.9     221.5     5     1.2       4 with hrm     20     188.4 to 383.6     25.4     5     9.0       4 with hrm-Lim-goe     20     179.0 to 279.2     23.8     5     5.9       4 with hrm     20     180.3 to 355.0     260.1     5     9.0       4 with hrm-lim-goe     20     180.3 to 383.3     256.2     5     9.5       4 with hrm     20     182.4 to 341.8     5     1.9     1.9       4 with hrm     20     182.4 to 349.3     256.2     5     9.0 <td>B2002 Block F 9, 30'39" 56, 35'17" quartz v</td> <td>9, 30'39" 56, 35'17"</td> <td>56, 3517"</td> <td></td> <td>quartz v</td> <td>ē</td> <td>quartz vein</td> <td>22</td> <td>195.2 to 332.4</td> <td>260.7</td> <td>2</td> <td>11.8</td> <td>0.14</td>	B2002 Block F 9, 30'39" 56, 35'17" quartz v	9, 30'39" 56, 35'17"	56, 3517"		quartz v	ē	quartz vein	22	195.2 to 332.4	260.7	2	11.8	0.14
20     171.0 to 294.4     226.5     5     7.0       20     174.8 to 308.8     224.7     5     7.6       21     155.3 to 284.5     186.4     5     13.2       26     148.4 to 190.3     164.7     5     7.6       20     182.5 to 282.9     221.5     5     7.6       20     182.5 to 280.8     225.4     5     9.0       20     158.8 to 280.8     216.8     5     7.9       20     158.8 to 280.8     216.8     5     7.9       20     184.7 to 332.6     253.4     5     7.9       20     175.1 to 343.6     253.4     5     7.9       20     175.1 to 343.6     260.1     5     7.9       20     189.3 to 355.0     260.1     5     7.9       20     182.4 to 341.8     259.1     5     9.0       20     187.8 to 349.3     258.8     5     1.9       20     187.8 to 349.3     230.1     5     2.9       20	B2024 Block F 10, 02'13" 55, 01'31" quartz vi	10, 02'13" 55, 01'31"	55,01'31"		quartz ve	Ë	quartz vein	20	129.8 to 258.6	155.3	5	7.0	0.29
20     174.8 to 308.8     224.7     5     2.6       21     155.3 to 284.5     186.4     5     13.2       26     148.4 to 190.3     164.7     5     7.6       20     182.5 to 282.9     221.5     5     7.5       20     182.5 to 282.9     221.5     5     7.9       20     188.8 to 280.8     216.8     5     7.9       20     158.8 to 280.8     216.8     5     7.9       20     184.7 to 332.6     253.4     5     7.9       20     175.1 to 343.5     233.8     5     7.9       20     175.1 to 343.5     223.8     5     7.9       20     175.1 to 343.5     259.1     5     7.9       20     189.3 to 355.0     260.1     5     7.9       20     175.3 to 298.9     226.2     5     9.0       20     180.0 to 283.9     230.1     5     9.0       20     180.0 to 283.9     293.8     5     2.9       20	B2044 Block F 10, 01'32" 55, 00'31" quartz ve	10, 01'32" 55, 00'31"	10, 01'32" 55, 00'31"		quartzve	Ę	quartz vein	20	171.0 to 294.4	226.5	2	7.0	9.53
21     155.3 to 284.5     186.4     5     13.2       26     148.4 to 190.3     164.7     5     7.6       20     182.5 to 282.9     221.5     5     1.2       20     182.5 to 280.8     216.8     5     7.9       20     158.8 to 280.8     216.8     5     7.9       20     158.8 to 280.8     216.8     5     7.9       20     178.1 to 343.5     234.8     5     7.5       20     179.0 to 279.2     223.8     5     7.9       20     179.1 to 343.6     260.1     5     7.9       20     179.0 to 279.2     223.8     5     2.9       20     189.3 to 355.0     260.1     5     7.9       20     175.3 to 298.9     226.2     5     9.5       20     180.0 to 283.9     230.1     5     9.0       20     180.0 to 283.9     230.1     5     2.9       20     189.9 to 355.6     5     3.9     2.9       20	B2048 Block F 9, 58'09" 54, 58'44" quartz ve	9, 58'09" 54, 58'44"	54, 58'44"	—	quartz ve	E	quartz vein	20	174.8 to 308.8	224.7	5	2.6	1.76
26     148.4 to 190.3     164.7     5     7.6       20     182.5 to 282.9     221.5     5     1.2       20     200.8 to 269.4     225.4     5     9.0     1.2       20     158.8 to 280.8     216.8     5     7.9     1.2       20     184.7 to 332.6     253.4     5     9.9     1.5       20     175.1 to 343.5     234.8     5     7.5     1.5       20     175.1 to 343.5     223.8     5     7.9     1.5       20     175.1 to 343.5     223.8     5     7.9     1.5       20     175.1 to 343.5     259.1     5     7.9     1.9       20     182.4 to 341.8     259.1     5     9.5     1.9       20     187.8 to 349.3     256.8     5     9.0     1.9       20     180.0 to 283.9     230.1     5     9.0     1.9       20     189.9 to 355.6     269.5     5     3.9     1.9       20     189.9 to 343.2 <t< td=""><td>B2051 Block F 9, 58'09" 54, 58'44" quartz ve</td><td>9, 58'09" 54, 58'44"</td><td>54 58 44</td><td></td><td>quartz ve</td><td>_⊆</td><td>quartz vein</td><td>21</td><td>155.3 to 284.5</td><td>186.4</td><td>5</td><td>13.2</td><td></td></t<>	B2051 Block F 9, 58'09" 54, 58'44" quartz ve	9, 58'09" 54, 58'44"	54 58 44		quartz ve	_⊆	quartz vein	21	155.3 to 284.5	186.4	5	13.2	
20     182.5 to 282.9     221.5     5     1.2       20     200.8 to 269.4     225.4     5     9.0       20     158.8 to 280.8     216.8     5     7.9       20     184.7 to 332.6     253.4     5     7.9       20     175.1 to 343.5     234.8     5     7.5       20     175.0 to 279.2     223.8     5     7.9       20     178.0 to 279.2     223.8     5     7.9       20     189.3 to 355.0     260.1     5     7.9       20     175.3 to 298.9     226.2     5     9.5       20     187.8 to 349.3     258.8     5     1.9       20     180.0 to 283.9     230.1     5     9.0       19     219.6 to 382.3     293.8     5     2.9       20     189.9 to 355.6     5     3.9     6.9	P2001 Block F 9, 52'23 55, 20'10' quartz vei	9, 52'23" 55, 20'10"	55, 2010 <sup>-</sup>	-	quartz veil	c	quartz vein	56	148.4 to 190.3	164.7	5	7.6	0.73
20     200.8 to 269.4     225.4     5     9.0       20     158.8 to 280.8     216.8     5     7.9       20     184.7 to 343.5     253.4     5     9.9       20     175.1 to 343.5     234.8     5     7.5       20     175.1 to 343.5     223.8     5     7.9       20     179.0 to 279.2     260.1     5     7.9       20     189.3 to 355.0     260.1     5     7.9       20     175.3 to 298.9     226.2     5     9.5       20     187.8 to 349.3     258.8     5     1.9       20     180.0 to 283.9     230.1     5     9.0       19     219.6 to 382.3     293.8     5     2.9       20     189.9 to 355.6     269.5     5     3.9       20     189.9 to 343.2     257.2     5     6.9	P2002 Block F 9, 52'23" 55, 2010" quartz vein	9, 52'23" 55, 2010"	55, 2010"		quartz vein		quartz vein	50	182.5 to 282.9	221.5	2	1.2	0.03
20     158.8 to 280.8     216.8     5     7.9       20     184.7 to 332.6     253.4     5     9.9       20     175.1 to 343.5     23.8     5     7.5       20     178.0 to 279.2     223.8     5     7.9       20     189.3 to 355.0     260.1     5     7.9       20     182.4 to 341.8     259.1     5     2.9       20     175.3 to 298.9     226.2     5     9.5       20     187.8 to 349.3     258.8     5     1.9       20     180.0 to 283.9     230.1     5     9.0       19     219.6 to 382.3     293.8     5     2.9       20     189.9 to 355.6     269.5     5     6.9	P2006 Block F 9, 52'23" 55, 20'10" quartz vein	9, 52'23" 55, 20'10"	55, 2010	5, 2010°	quartz vein		quartz vein	20	200.8 to 269.4	225.4	5	9.0	0.85
20 184.7 to 332.6 253.4 5 9.9   20 175.1 to 343.5 234.8 5 7.5   20 179.0 to 279.2 223.8 5 5.9   20 189.3 to 355.0 260.1 5 7.9   20 182.4 to 341.8 259.1 5 2.9   20 175.3 to 298.9 226.2 5 9.5   20 187.8 to 349.3 258.8 5 1.9   20 180.0 to 283.9 230.1 5 9.0   20 189.9 to 355.6 269.5 5 3.9   20 189.9 to 355.6 269.5 5 6.9	P2015 Block F 9, 52'23" 55, 20'10" quartz vein	9, 52'23" 55, 20'10"	52.23" 55, 2010	5, 2010	quartz vein		quartz vein	20	158.8 to 280.8	216.8	5	7.9	1.55
20 175.1 to 343.5 234.8 5 7.5   20 179.0 to 279.2 223.8 5 5.9   20 189.3 to 355.0 260.1 5 7.9   20 182.4 to 341.8 259.1 5 2.9   20 175.3 to 298.9 226.2 5 9.5   20 187.8 to 349.3 258.8 5 1.9   20 180.0 to 283.9 230.1 5 9.0   20 189.9 to 355.6 269.5 5 3.9   20 189.9 to 343.2 257.2 5 6.9	S2404 Block G 9, 52'23' 55, 20'10' quartz vein	9, 5223 55, 2010	55, 2010"		quartz vein		quartz vein	2	184.7 to 332.6	253.4	2	6.6	(1.87 to <0.01)
20 179.0 to 279.2 223.8 5 5.9   20 189.3 to 355.0 260.1 5 7.9   20 182.4 to 341.8 259.1 5 2.9   20 175.3 to 298.9 226.2 5 9.5   20 187.8 to 349.3 258.8 5 1.9   20 180.0 to 283.9 230.1 5 9.0   19 219.6 to 382.3 293.8 5 2.9   20 189.9 to 355.6 269.5 5 3.9   20 190.9 to 343.2 257.2 5 6.9	A2430 Block G 9, 52'23" 55, 20'10" quartz vein	9, 52'23" 55, 20'10"	55, 2010	5, 2010°	quartz vein		quartz vein with hm	20	175.1 to 343.5	234.8	5	7.5	(28.73 to 45.06)
20 189.3 to 355.0 260.1 5 7.9   20 182.4 to 341.8 259.1 5 2.9   20 175.3 to 298.9 226.2 5 9.5   20 187.8 to 349.3 258.8 5 1.9   20 180.0 to 283.9 230.1 5 9.0   19 219.6 to 382.3 293.8 5 2.9   20 189.9 to 355.6 269.5 5 3.9   20 190.9 to 343.2 257.2 5 6.9	A2440 Block G 9, 52'23" 55, 2010" quartz vei	9, 52'23" 55, 2010"	55, 2010"		quartz ve	Ē	hm-goe rich quartz vein	20	179.0 to 279.2	223.8	2	5.9	(0.05 to 10.04)
20 182.4 to 341.8 259.1 5 2.9   20 175.3 to 298.9 226.2 5 9.5   20 187.8 to 349.3 256.8 5 1.9   20 180.0 to 283.9 230.1 5 9.0   19 219.6 to 382.3 293.8 5 2.9   20 189.9 to 355.6 269.5 5 3.9   20 190.9 to 343.2 257.2 5 6.9	A2443 Block G 9, 52'23" 55, 20'10" quartz ve	9, 5223 55, 2010	55, 2010"	5, 2010"	quartz ve	.⊑	quartz vein with hm-py	20	189.3 to 355.0	260.1	5	7.9	(0.04 to 1.41)
20 175.3 to 298.9 226.2 5 9.5   20 187.8 to 349.3 258.8 5 1.9   20 180.0 to 283.9 230.1 5 9.0   19 219.6 to 382.3 293.8 5 2.9   20 189.9 to 355.6 269.5 5 3.9   20 190.9 to 343.2 257.2 5 6.9	A2450 Block G 9, 52'23" 55, 20'10" quartz ve	9, 5223" 55, 2010"	55, 2010"		quartz ve	.⊑	quartz vein with hm-lim-goe	20	182.4 to 341.8	259.1	5	2.9	5.76
20 187.8 to 349.3 258.8 5 1.9   20 180.0 to 283.9 230.1 5 9.0   19 219.6 to 382.3 293.8 5 2.9   20 189.9 to 355.6 269.5 5 3.9   20 190.9 to 343.2 257.2 5 6.9	A2452 Block G 9, 52'23" 55, 20'10" quartz ve	9, 5223 55, 2010	55, 2010"		quartz ve	Ē	quartz vein with hm	20	175.3 to 298.9	226.2	5	9.5	27.61
20 180.0 to 283.9 230.1 5 9.0   19 219.6 to 382.3 283.8 5 2.9   20 189.9 to 355.6 269.5 5 3.9   20 190.9 to 343.2 257.2 5 6.9	A2491 Block G 9, 52'23" 55, 20'10" quartz ve	9, 5223" 55, 2010"	55, 2010		quartz ve	Ę	quartz vein with hm	20	187.8 to 349.3	258.8	5	1.9	0.29
19 219.6 to 382.3 293.8 5 2.9   20 189.9 to 355.6 269.5 5 3.9   20 190.9 to 343.2 257.2 5 6.9	A2503 South of 9, 32'03" 57, 30'49" quartz ve	9, 32'03" 57, 30'49"	57, 30'49"		quartz ve	ř	Quertz vein (W: 80 cm)	20	180.0 to 283.9	230.1	5	0.6	<0.01
20 189.9 to 355.6 269.5 5 3.9 20 190.9 to 343.2 257.2 5 6.9	9, 33'50 57, 35'29"	9, 33'50 57, 35'29"	57, 35'29"		quartz v	Ē	Floats of quartz velns	19	219.6 to 382.3	293.8	5	2.9	<0.01
20 190.9 to 343.2 257.2 5 6.9	9, 33'50 57, 35'29"	9, 33'50 57, 35'29"	57, 35,29		quartz	ein	Floats of quartz veins	20	189.9 to 355.6	269.5	5	3.9	<0.01
	A2551 South of 9, 32'59" 57, 30'38" quartz v	9, 32'59" 57, 30'38"	57, 30'38"			ein	Float of quartz vein with Im films along the fracture.	20	190.9 to 343.2	257.2	5	6.9	<0.01

				D					Salinity(%)
	n. Range	⋖	NCM.	Range	Ave.				(NaCl eq.
21	150.1_326.6	183	2	-18.410.9	-15				18.6
<u>ت</u>	200.8_269.4		വ	-6.55.4	-5.8				9.0
7	4 177.0 362.2	232.3	2	-7.44.7	-5.7				8.8
<u>بر</u>	129.8_258.6	155.3	Ŋ	-5.03.7	4.4				7.0
70	171.0_294.4	226.5	2	-5.23.9	-4.4				7.0
70	174.8_308.8	224.7	Ŋ	-2.21.2	1.5				2.6
- 21	155.3_284.5	_	2	$-13.1_{-}-5.1$	-9.3				13.2
7	3 148.4_190.3	164.7	S	-5.24.3	-4.8				7.6
20		221.5	Ŋ	-1.20.3	-0.7				1.2
20	•	225.4	വ	-6.55.4	-5.8				9.0
20	_	216.8	2	-7.12.7	-5.0				7.9
2  5	184.7_332.6	253.4	ro	-9.04.9	-6.5				6.6
70	_	234.8	വ	-6.4 - 3.0	-4.7				7.5
2 - 5	179_279.2	223.8	വ	-7.21.3	-3.6				5.9
G	189.3_355	260.1	5	-5.94.2	-5.0				7.9
G 20	•	259.1	2	-3.30.9	-1.7				2.9
G 20	_	226.2	Ŋ	-8.04.7	-6.2				9.5
ر م	187.8_349.3	258.8	5	-2.20.5	<del>-</del>				6.1
South of B 20	180	230.1	ည	-8.54.1	-5.9				9.0
South of B 19	219.6_382.3	293.8	വ	-3.50.1	-1.7				2.9
South of B 20	189.9_355.6	269.5	5	-3.20.3	-2.3				3.9
South of B 20	190.9_343.2	257.2	2	-6.02.1	-4.3				6.9
Th: (	Th: CO2+H2O		Th: C0	Th: CO2(L)+CO2(V)		Tm: CO2 Clathrate	트	Tm: Dryice	
Num.	i. Range	Ave.*	Num.	Range	Ave.	Num. Range	Ave. Nu	Num. Range Ave.	
C 20	182.6_365.5	278.1		24.4_30.4	27.0	5 -6.12.7	-4.0	5 -57.8 -57.6 -57.7	13.0
C 20	272.1_386.0	313.4	2	12.8_22.0	18.0	$-29.3_{-}27.0$	-28.5	5 -58.157.2 -57.4	11.9
c 20	225.5_378.8	292.8	വ	5.9_11.2	8.8		-34.8	-58.1	_
. 22	195.2 332.4	260.7	7	20.1 31.0	25.6	5 -5.2 7.4	0.8	5 -57.8 -56.9 -57.4	_

