Yukon Mining Incentives Program

Final Report
Fleming Lake Unconformity

Focused Regional Module
YMIP 03-007

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YEIP
2003-007
2003

Project Location – The Fleming Lake Unconformity (FLU) is located in the Mayo Mining District on NTS mapsheets 106-D-12/13 and 116-A-9/16. The approximate centre of the FLU project is at UTM 454000E and 7178000N.

Access – Access to the target area was by helicopter.

Exploration Target – FLU was a reconnaissance program designed to evaluate the Olympic Dam type Cu-Co-Au potential of Proterozoic stratigraphy at, and south of, a regional scale unconformity with Silurian to Paleozoic carbonates to the north. Proterozoic stratigraphy consists of an east-west trending sequence of green to grey phyllite and quartzite that is often thin-bedded or shaley. Intrusive to these rocks is a series of dioritic dykes and small plugs.

The only known exploration work within the FLU area was conducted by Mattagami Lake Minerals during the period 1979-1982 (Mela showings). They reported numerous areas of sediment and intrusive hosted vein and disseminated chalcopyrite along with widespread specular hematite and numerous areas with faulting and brecciation. Values of up to 4.3% Cu, 600 ppm Co and 210 ppb Au were returned from the limited sampling reported. Geophysical surveying defined the presence of a "major" combined VLF, Radiometrics and EM anomaly in the immediate vicinity of the mineralized showings.

Work during 2003 consisted of rock and silt sampling, which was used to explore the area of the Mela showings and other RGS defined copper silt anomalies, at and south of the unconformity. This work was unsuccessful in locating significant mineralization as reported by Mattagami Lake. Several minor occurrences of hematite and chalcopyrite within diorite and numerous quartz-chalcopyrite-siderite +/- ankerite veins were located. Over all though, the majority of sampling and prospecting was unsuccessful in locating obvious areas of alteration, brecciation or mineralization indicative of the potential for a major mineralized zone.

Several areas of interest were located, and are worthy of follow-up. The main area is located on East Map in the vicinity of samples BLUS-4/5. Mineralized float in the streambed in this area consists of diorite and sediments. A sample of the diorite cut by a calcite-chalcopyrite vein returned 2771 ppm copper. A sample of weakly fractured limonitic quartzite with 1% fine disseminated pyrite returned 5200 ppm copper, 414 ppm cobalt and 207 ppb gold, along with highly anomalous arsenic and bismuth. The second area of interest is located on North Map in the immediate vicinity of samples BFLUR-5 to 7. Mineralization in this area consists of red altered diorite, diorite with minor hematite and chalcopyrite and extremely fine disseminated chalcopyrite within an altered sed? rock. Other anomalous rock samples invariably consist of qtz-carbonate-chalcopyrite veining of limited economic potential.

Conclusions – Further work is necessary to fully evaluate the BFLUS-4/5 area. The fact that copper mineralized float could be found in such a wide stream valley (+/- 1.0km) is encouraging. The lack of brecciated material in this area, coupled with the lack of hematite casts doubt on whether or not this is a true Olympic Dam type target. Mineralization at the second area of interest is weak and sporadic, and only worthy of follow-up if in the area already.

Recommendations – Contour prospecting and soil sampling along the valley walls at, and immediately upstream of, sample BFLUS-5. Some recce type prospecting in the vicinity of BFLUS-10.

Budget		
Helicopter	3.5 hours	$3850.00
Wages	3 man days	$1000.00
Assays	50 samples	$1000.00
Report preparation	1.5 days	$500.00
Food and camp supplies	3 man days	$156.00
Truck costs	750 km	$350.00
	TOTAL	$6856.00

Fleming Lake Unconformity Samples

BFLUR-1 > weakly brx qtzt with limonite along fracs and some clots of chalco
BFLUR-2 > diorite cut by calcite-chalco vein .1%
BFLUR-3 > weakly frac limonitic qtzt with 1% fine diss py
BFLUR-4 > qtz siltstone brx/vein with chalco .5%
BFLUR-5 > diorite cut by epidote calcite chalco vein
BFLUR-6 > red altered diorite with trace diss py-cu in red areas
BFLUR-7 > altered sed rock with trace diss chalco

PFLUR-1 > fractured sed rock with calcite along fractures
PFLUR-2 > Limonitic qtz-py-cu vein
PFLUR-3 > As above 5% Cu
PFLUR-4 > as above
PFLUR-5 > qtz-siderite-ankerite vein 2% cu
PFLUR-6 > as above
PFLUR-7 > limonitic qtzt
PFLUR-8 > carbonate altered calcite qtzt fault brx with 2% clotty chalco

BFLUS-1 to 14 Silt samples
PFLUS-1 to 16 Silt samples

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GEOCHEMICAL ANALYSIS CERTIFICATE

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#1 Locust Place, Whitehorse YT Y1A 5C4 Submitted by: Bernie Kreft

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
G-1	2.4	3.3	2.8	39	<.1	4.4	3.8	508	1.95	<.5	1.9	<.5	4.2	78	<.1	<.1	.14	44	.62	.077	10	20.1	.53	240	.128	1	1.03	.164	.47	4.2	<.01	2.3	.3	<.05	5	<.5	<1
PMLS-1	2.0	83.4	9.9	57	.2	46.1	27.6	1606	4.96	23.3	.9	2.1	4.8	6	.3	1.7	1.36	26	.11	.058	15	24.0	.53	79	.017	<1	1.14	.003	.06	.1	.06	3.5	.1	.07	3	.5	<1
PMLS-2	2.6	68.6	9.4	39	.1	49.9	25.4	2049	5.62	16.2	1.2	1.6	5.5	7	.2	1.8	1.88	16	.29	.048	14	25.6	.40	91	.008	<1	.76	.005	.07	.1	.03	3.5	.1	<.05	2	<.5	<1
PAAS-1	3.6	102.2	20.3	95	.1	47.5	23.8	2157	3.20	10.6	9.3	3.1	7.9	10	.4	.7	.77	33	.23	.100	39	65.5	.86	127	.018	1	1.77	.010	.06	.1	.06	2.2	.1	<.05	5	.8	<1
PAAS-2	1.7	124.3	26.1	87	.1	41.2	22.9	1839	3.18	11.3	6.9	2.5	4.3	13	.2	.7	1.02	33	.28	.107	36	52.3	.90	149	.011	1	1.78	.007	.05	.1	.06	1.8	.1	<.05	6	.7	<1
PAAS-4	2.5	78.2	9.4	55	<.1	40.0	41.3	2643	3.62	9.7	2.4	1.5	8.4	8	.2	.3	.47	44	.35	.095	17	29.3	1.03	165	.038	1	1.02	<.001	.15	.1	.02	2.8	.2	<.05	4	<.5	<1
MBAAS-2	1.4	59.1	20.6	71	.3	63.7	27.8	4270	6.60	14.9	1.3	1.6	4.8	21	.3	1.7	1.24	42	2.06	.136	22	76.3	2.34	445	.085	2	1.35	.004	.04	.1	.05	5.9	.1	<.05	5	.5	<1
BAAS-1	2.1	120.5	27.3	94	.2	48.0	22.8	1945	3.47	11.0	7.1	1.7	5.1	14	.3	.8	.95	37	.30	.116	38	59.6	1.02	157	.013	1	2.00	.007	.07	.1	.05	2.2	.1	<.05	6	1.0	<1
BAAS-2	2.0	69.7	10.4	50	<.1	30.8	36.4	2837	3.39	10.2	2.1	1.2	7.9	8	.1	.3	.45	41	.35	.090	17	21.1	1.01	169	.034	<1	.95	.004	.13	.1	.02	2.9	.2	<.05	4	<.5	<1
BAAS-10	1.3	35.7	14.0	35	.1	24.5	24.6	1504	3.66	10.6	2.7	.9	8.4	7	.2	.5	.48	14	.12	.055	13	14.4	.42	62	.004	<1	.92	.004	.05	<.1	.02	2.2	.1	<.05	3	<.5	<1
BAAS-11	1.7	66.6	22.5	64	.2	32.9	29.4	2099	4.72	17.3	3.6	2.2	8.6	12	.3	1.0	1.04	33	.19	.084	20	24.9	.61	122	.009	<1	1.43	.007	.08	.1	.07	3.8	.1	<.05	5	.7	<1
BAAS-12	1.3	61.1	13.6	50	.1	24.8	22.7	1574	4.03	17.2	3.0	7.0	9.5	11	.4	1.1	.64	36	.18	.078	19	19.4	.50	108	.014	1	1.26	.004	.06	.1	.02	3.9	.1	<.05	3	<.5	<1
BAAS-13	1.6	93.3	14.5	54	.2	34.8	24.5	2112	4.55	14.1	3.1	1.8	5.9	16	.3	1.1	.65	42	.42	.087	19	28.2	.67	252	.017	2	1.11	.005	.06	.1	.04	5.0	.1	<.05	3	.5	<1
RE BAAS-13	1.6	91.5	14.3	57	.2	34.8	25.7	2233	4.61	14.9	3.1	2.5	6.2	17	.4	1.1	.64	46	.41	.088	19	29.5	.68	257	.016	<1	1.17	.004	.06	.1	.04	4.9	.1	<.05	4	<.5	<1
KGAAS-1	5.1	81.3	6.3	23	.1	37.7	44.2	2230	4.45	9.1	6.7	26.6	8.2	13	<.1	.5	.81	17	.34	.075	12	9.5	.61	423	.011	<1	.69	.003	.05	.2	.03	3.7	.1	<.05	2	.5	<1
KGAAS-4	.6	58.5	2.7	22	<.1	15.6	30.0	583	2.61	3.1	1.7	6.0	9.8	7	.1	.2	.35	17	.08	.039	11	9.0	1.03	104	.005	<1	1.10	.002	.03	<.1	.03	3.0	<.1	<.05	3	<.5	<1
KGAAS-5	.8	21.8	11.0	26	.2	18.1	10.4	3293	4.93	7.1	.8	2.1	3.0	50	.1	1.9	.87	12	10.96	.064	9	10.3	5.88	96	.004	2	.21	.012	.01	<.1	.01	2.8	<.1	<.05	<1	<.5	<1
BFLUS-1	2.4	94.1	107.2	111	.3	37.9	32.9	3254	5.13	23.1	4.5	2.2	7.1	16	.8	1.2	1.13	42	.27	.091	19	34.2	.88	184	.018	<1	1.83	.005	.06	.2	.05	4.0	.1	<.05	6	.9	<1
BFLUS-2	2.5	224.3	77.0	111	.3	71.3	90.8	7178	5.19	54.0	6.5	2.6	17.5	9	1.7	1.6	3.35	20	.13	.063	18	23.5	.40	196	.006	<1	1.44	.007	.08	.1	.03	3.3	.2	<.05	4	.6	<1
BFLUS-3	1.0	79.0	20.3	51	.2	26.6	22.2	1279	3.25	24.6	3.0	1.7	10.4	5	.3	.9	1.85	17	.10	.041	22	17.9	.30	78	.006	<1	1.05	.003	.07	.1	.03	1.8	.1	<.05	3	.5	<1
BFLUS-4	.9	80.8	23.0	53	.1	30.2	20.9	1146	4.21	17.1	2.6	1.0	11.3	5	.1	.9	1.72	20	.08	.036	21	22.7	.40	64	.007	1	1.15	.002	.04	<.1	.02	2.1	<.1	<.05	3	<.5	<1
BFLUS-5	1.1	60.6	21.3	68	.1	29.0	20.2	1365	4.26	16.8	2.0	1.1	9.0	6	.3	.8	1.47	23	.18	.042	16	23.1	.41	82	.006	<1	1.23	.002	.05	.1	.02	2.5	<.1	<.05	4	<.5	<1
BFLUS-6	.7	37.7	11.9	52	.1	20.5	13.1	566	2.53	8.1	2.2	1.2	15.0	8	.1	.6	.92	17	.09	.041	24	14.3	.31	50	.009	<1	.60	.002	.03	.1	.02	1.7	<.1	<.05	2	<.5	<1
BFLUS-7	.6	39.6	11.6	48	.1	21.9	14.7	601	2.88	8.4	2.2	3.3	14.3	8	.1	.6	1.44	16	.08	.041	27	15.6	.34	54	.010	<1	.68	.002	.04	.1	.01	1.8	<.1	<.05	2	<.5	<1
BFLUS-8	.6	41.1	11.3	51	.1	20.2	13.2	569	2.60	8.3	3.6	4.8	13.0	9	.1	.6	.83	16	.08	.037	25	15.8	.35	62	.009	1	.72	.002	.04	.1	.01	1.7	<.1	<.05	2	<.5	<1
BFLUS-9	1.0	75.8	11.4	65	.1	29.8	19.3	1025	3.63	14.2	2.4	1.6	12.6	6	.2	.9	1.41	22	.09	.038	19	23.4	.38	86	.012	<1	.94	.004	.05	.1	.02	2.4	.1	<.05	3	<.5	<1
BFLUS-10	2.0	186.2	22.5	55	.2	63.9	50.4	2087	5.11	45.5	3.6	2.2	11.4	6	.3	1.9	2.23	27	.10	.044	13	25.9	.49	72	.004	1	1.24	.005	.06	<.1	.04	4.2	.1	<.05	4	.5	<1
BFLUS-11	.9	67.1	16.1	49	.1	29.8	21.7	1135	3.52	34.1	1.8	2.8	6.5	5	.1	1.1	.95	17	.09	.034	9	17.2	.39	54	.005	<1	.89	.003	.04	.1	.03	3.3	<.1	<.05	3	<.5	<1
BFLUS-12	1.6	144.1	17.8	61	.4	48.2	33.6	1262	4.39	27.5	4.0	2.5	11.1	12	.3	2.0	2.33	26	.21	.065	13	28.6	.48	122	.009	2	1.45	.008	.10	.1	.05	3.3	.1	<.05	4	.9	<1
BFLUS-13	1.6	157.0	18.7	62	.3	53.9	35.5	1160	4.88	29.1	4.6	2.4	13.5	11	.2	1.8	1.91	24	.13	.064	12	29.7	.49	98	.007	1	1.61	.008	.09	.1	.04	3.2	.1	<.05	5	.9	<1
BFLUS-14	2.8	5.6	40.5	114	.1	9.3	3.2	550	.84	8.1	.8	.6	.6	64	.5	.9	.35	6	18.48	.019	4	7.7	11.92	30	.003	2	.12	.012	.02	<.1	.02	1.7	.2	.09	<1	<.5	<1
PFLUS-1	2.5	113.1	69.2	121	.2	48.0	50.9	1065	4.19	29.2	9.8	3.4	5.9	12	1.1	1.0	1.23	42	.19	.082	19	34.2	.55	156	.024	1	1.75	.005	.05	.2	.04	4.3	.1	<.05	5	.5	<1
PFLUS-2	2.0	105.8	73.9	123	.2	45.4	41.0	2769	4.97	27.3	4.1	3.9	6.3	13	1.0	1.1	1.13	54	.23	.092	23	32.9	.70	158	.024	2	1.84	.004	.04	.2	.05	3.9	.1	<.05	6	.6	<1
PFLUS-3	2.9	103.9	148.6	146	.4	40.1	63.6	13714	9.88	38.6	1.2	1.7	5.9	24	.8	.8	.86	34	.35	.105	22	29.4	1.18	108	.018	1	1.93	.005	.05	.1	.07	4.9	.1	<.05	7	.8	<1
PFLUS-4	2.8	99.9	137.8	143	.3	41.9	44.0	7089	6.42	27.5	1.4	2.0	6.2	20	.7	.7	.89	36	.30	.097	22	37.4	1.15	134	.017	3	1.99	.004	.07	.1	.05	3.7	.1	<.05	6	.7	<1
STANDARD DS5	13.5	138.4	23.9	131	.3	24.6	11.8	784	2.96	18.8	5.8	41.6	2.6	46	5.6	3.8	6.15	62	.78	.092	12	183.8	.63	143	.087	23	1.98	.029	.15	4.9	.16	3.6	1.2	<.05	7	4.8	<1

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 18 2003 **DATE REPORT MAILED:** July 29/03 **SIGNED BY:** C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data N FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
G-1	2.4	4.1	2.5	48	<.1	5.0	4.6	573	2.01	.5	1.9	.8	5.0	93	<.1	<.1	.14	44	.68	.076	9	18.3	.56	298	.147	2	1.22	.201	.68	4.5	<.01	4.3	.4	<.05	5	<.5	<1
PFLUS-5	2.7	100.8	188.6	137	.4	41.7	41.4	7012	6.04	27.8	1.6	2.3	5.9	23	.7	.8	.74	31	.32	.095	19	29.0	.99	134	.023	2	1.68	.007	.06	.1	.05	4.1	.1	<.05	5	.9	<1
PFLUS-6	2.9	69.3	105.8	217	.5	37.8	25.6	3210	3.81	21.7	.8	2.2	3.8	29	.8	2.4	.62	17	6.50	.082	9	6.0	3.35	74	.004	4	.28	.004	.06	.1	.06	2.6	.5	<.05	1	.9	<1
PFLUS-7	3.3	61.4	107.6	217	.5	39.1	24.0	3652	4.20	22.0	1.4	1.8	4.1	23	1.0	2.2	.46	15	4.54	.075	10	10.4	2.75	82	.004	3	.30	.003	.07	<.1	.05	3.2	.4	.08	1	.9	<1
PFLUS-8	1.7	199.4	25.6	67	.2	50.7	42.7	1466	4.59	33.9	4.0	2.4	16.2	10	.4	1.4	2.65	24	.16	.060	16	20.6	.38	96	.020	1	1.08	.008	.06	.1	.03	3.3	.1	<.05	3	.7	<1
PFLUS-9	1.4	161.6	19.1	68	.1	37.9	23.8	683	3.05	21.8	2.1	2.8	9.5	15	.4	.9	1.48	27	.22	.071	12	21.8	.41	120	.027	2	1.12	.002	.06	.1	.02	2.9	.1	<.05	3	.6	<1
PFLUS-10	1.6	107.6	22.5	78	.1	50.1	27.9	724	4.38	15.0	2.6	1.2	9.9	6	.2	.9	1.16	27	.07	.043	11	40.1	.58	52	.010	<1	1.56	.006	.05	.1	.03	3.3	.1	<.05	4	.7	<1
PFLUS-11	1.5	84.4	27.2	100	.3	41.4	26.4	911	4.17	17.0	1.7	2.6	5.5	12	.3	.8	.73	40	.15	.072	11	31.5	.52	276	.024	1	2.11	.007	.10	.1	.04	3.7	.1	<.05	5	.9	<1
PFLUS-12	16.3	55.1	48.0	67	.5	10.0	3.7	691	1.66	20.4	1.5	2.7	.5	56	.4	3.5	2.12	8	18.17	.025	3	6.7	13.16	80	.003	2	.17	.012	.01	.1	.01	1.1	.5	.08	<1	.5	<1
PFLUS-13	1.6	124.8	31.9	92	.3	46.0	33.7	2109	4.29	21.8	3.0	.7	11.8	6	.5	1.7	1.05	17	.10	.050	16	27.9	.66	91	.007	2	1.68	.005	.07	.1	.03	2.6	.1	<.05	4	.7	<1
PFLUS-14	4.2	132.2	90.7	132	.5	72.3	37.8	2436	5.57	44.9	3.1	4.0	7.7	10	.5	1.6	1.53	29	.22	.070	12	79.4	.69	95	.007	14	1.62	.006	.08	.1	.07	5.6	.1	<.05	4	.9	<1
PFLUS-15	1.5	135.4	62.7	119	.4	48.6	39.8	2588	4.30	51.0	3.1	4.6	7.6	9	.8	1.5	1.31	30	.13	.058	15	24.1	.54	125	.013	<1	1.30	.004	.07	.1	.06	5.7	.1	<.05	4	.9	<1
PFLUS-16	15.0	44.0	35.2	332	.4	65.9	12.5	714	2.21	12.4	5.4	<.5	4.2	101	3.0	2.9	.39	78	10.49	.087	10	14.9	2.61	129	.005	3	.54	.003	.14	.1	.08	2.8	.3	.07	2	1.1	<1
RE PFLUS-16	14.8	44.2	34.4	361	.4	63.2	12.6	738	2.17	13.1	5.4	<.5	4.1	99	2.9	2.8	.41	85	10.44	.086	10	16.1	2.75	132	.005	1	.58	.004	.13	.1	.08	2.5	.3	.08	1	1.4	<1
PKS-1	12.7	180.8	79.2	423	.5	93.1	33.9	1364	4.96	57.4	3.3	3.1	4.9	9	2.5	3.7	1.19	74	.82	.081	13	43.6	1.89	95	.024	3	1.65	.006	.06	.2	.07	7.1	.1	<.05	5	2.4	<1
PKS-2	12.4	200.1	101.4	495	.6	112.2	38.0	1819	5.33	62.5	3.9	5.8	4.7	8	3.7	4.0	1.15	82	.46	.075	15	47.5	1.98	117	.027	1	1.86	.005	.06	.2	.08	8.4	.2	<.05	6	1.8	<1
PKS-3	18.4	237.7	157.5	793	.7	150.8	45.2	2451	6.32	90.5	5.2	4.1	6.1	9	6.3	5.5	1.64	69	.44	.099	18	50.1	1.78	145	.022	3	1.77	.007	.08	.2	.10	7.5	.3	<.05	5	2.7	<1
PKS-4	9.7	227.9	251.7	1103	.8	134.0	43.0	1770	5.41	71.9	4.5	3.9	4.9	7	6.7	4.5	.99	103	.43	.079	17	48.9	2.11	104	.040	5	2.03	.005	.08	.2	.09	6.8	.2	<.05	6	1.1	<1
PKS-5	16.0	259.4	289.4	1393	.9	180.7	52.1	1875	5.67	93.5	6.4	5.8	5.1	7	8.4	6.4	1.05	108	.59	.083	16	40.8	2.10	104	.045	3	1.92	.004	.06	.2	.11	6.0	.3	<.05	6	2.0	<1
BKS-1	10.3	151.3	124.8	433	.4	101.3	53.8	3567	5.76	62.6	3.1	1.6	7.3	8	4.0	4.1	1.64	47	.25	.058	28	27.6	1.49	105	.009	2	1.95	.003	.11	.1	.09	4.9	.2	.13	6	1.7	<1
BKS-2	3.0	239.4	1097.1	2592	2.7	61.4	44.8	4494	6.12	63.1	2.2	4.3	4.7	10	11.9	8.9	1.41	62	1.94	.073	15	25.1	1.96	280	.020	4	1.11	.006	.06	.1	.18	6.8	.2	<.05	4	.9	<1
BKS-3	18.4	363.3	221.6	1971	1.1	244.4	77.8	1700	6.75	139.6	14.6	5.0	6.1	11	12.3	6.1	1.07	110	.37	.112	34	44.1	2.33	75	.030	5	2.76	.007	.11	.2	.18	7.0	.4	<.05	7	3.6	<1
BKS-4	6.3	266.0	1081.1	2324	1.0	122.7	58.3	2763	6.80	80.6	2.5	2.4	4.7	8	14.1	3.6	3.25	126	.84	.078	19	45.1	2.04	103	.013	5	2.02	.003	.08	.1	.11	14.4	.2	<.05	7	1.3	<1
PB2S-1	2.5	185.4	11.4	64	.1	50.9	45.2	1663	4.47	9.8	4.4	5.3	6.2	23	.3	1.0	.43	77	.42	.114	18	35.8	2.33	955	.024	1	2.30	.006	.10	.2	.18	7.3	.2	<.05	7	.9	<1
PB2S-2	5.3	186.2	257.4	360	.7	156.4	215.3	4715	6.21	55.8	5.5	3.2	30.1	15	1.7	3.7	3.14	28	.08	.118	46	35.3	.88	243	.014	2	2.54	.028	.08	.1	.09	4.0	.3	.07	5	2.0	<1
PGLS-1	12.5	481.9	20.1	79	.2	113.1	162.1	4662	8.32	89.2	13.8	7.7	34.4	12	.1	1.8	3.66	51	.27	.089	19	19.5	.66	254	.006	2	1.22	.021	.10	.1	.04	14.5	.1	<.05	4	1.1	<1
PGLS-2	4.0	343.7	31.3	94	.2	57.2	54.9	1774	5.24	57.8	9.7	3.2	18.5	17	.3	1.5	1.56	33	.35	.086	15	18.9	.49	174	.021	2	1.20	.013	.09	.1	.05	5.6	.1	<.05	3	.9	<1
PGLS-3	2.3	181.7	20.6	55	.1	52.7	100.1	5031	4.39	47.9	5.9	1.7	29.6	9	.5	1.4	1.82	16	.08	.058	14	20.3	.41	76	.006	2	1.47	.009	.11	<.1	.04	3.0	.2	<.05	4	.7	<1
PGLS-4	4.0	262.6	12.7	52	.3	38.8	35.9	3838	4.72	67.1	24.1	21.3	18.7	9	.2	1.7	1.60	35	.38	.087	31	21.4	1.35	1056	.010	5	1.50	.004	.19	.2	.18	12.8	.1	<.05	6	1.2	<1
BGLS-1	6.9	239.8	20.0	42	.2	103.1	105.3	6411	5.40	80.1	9.6	3.8	20.5	5	.3	1.5	4.32	15	.19	.056	11	10.5	.21	170	.003	1	.65	.006	.05	<.1	.04	4.9	.5	<.05	2	.7	<1
BGLS-2	9.7	367.0	23.8	90	.3	162.3	123.0	7243	8.68	147.9	18.8	5.1	27.7	9	.3	1.9	10.46	29	.39	.072	13	13.9	.42	209	.004	1	1.11	.009	.09	.1	.06	6.9	.4	.10	3	1.1	<1
BGLS-3	15.1	292.2	15.8	35	.7	55.5	66.1	4715	6.18	104.4	34.8	4.5	13.9	10	.1	1.8	3.40	13	.56	.074	14	12.4	.47	530	.004	2	.81	.006	.08	.1	.20	4.5	1.7	<.05	2	.8	<1
BGLS-4	12.7	312.1	8.0	36	.3	64.3	68.1	2939	5.20	106.6	25.7	3.0	14.3	10	<.1	1.7	2.25	9	.68	.068	11	10.3	.53	399	.003	1	.87	.007	.06	.1	.19	3.6	.2	.11	2	.7	<1
STANDARD DS5	13.0	142.6	23.8	133	.3	24.5	11.7	784	2.92	18.4	5.8	40.8	2.8	46	5.8	3.5	6.02	60	.76	.092	12	190.7	.64	143	.093	24	2.13	.032	.15	4.9	.18	3.4	1.1	<.05	7	4.9	<1

Sample type: SILT SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Au** ppb
BAAR-37	1.2	315.7	8.9	15	< 1	4.8	10.5	3470	2.79	3.6	.9	<.5	7.1	41	.1	.8	.1	18	4.12	.048	18	14.1	2.05	1377	.036	<1	.18	.010	.17	1.2	.04	3.4	<.1	<.05	1	<.5	<1	<2
KGAAR-2	.8	6856.4	2.4	2	2.1	3.0	7.8	387	1.38	2.4	1.3	2161.4	2.9	12	<.1	.6	2.3	<1	.29	.003	1	8.2	.11	25	.003	<1	.13	.013	.07	3.1	.01	.4	<.1	.49	<1	.7	<1	20754
KGAAR-3	.9	69.8	1.1	1	.2	3.0	23.8	26	2.01	12.2	.7	238.4	.7	6	<.1	.1	1.8	1	.01	.002	2	7.5	.01	36	.003	<1	.16	.007	.09	2.5	.01	.2	<.1	1.39	<1	<.5	<1	186
KGAAR-7	3.8	7551.7	2.8	4	.8	39.8	152.8	61	3.05	16.6	5.0	154.7	8.4	4	<.1	.3	.6	10	.26	.116	8	12.8	.20	42	.001	<1	.36	.073	.16	2.0	.04	1.4	<.1	1.75	2	7.2	<1	94
KGAAR-8	1.1	2125.6	1.7	5	.1	80.8	33.4	92	1.34	4.4	4.8	5.5	14.3	4	<.1	.2	.1	60	.23	.112	34	28.3	1.56	49	.020	<1	1.21	.066	1.13	1.4	.01	5.0	.2	.24	6	1.1	<1	7
KGAAR-9	3.5	3090.0	1.5	3	.2	33.0	65.5	192	.97	7.0	3.4	6.6	13.7	4	<.1	.1	.2	18	.30	.110	27	14.9	.27	33	.006	3	.36	.101	.19	1.4	.01	2.5	<.1	.42	2	3.1	<1	13
KGAAR-10	49.7	3821.9	2.4	7	.5	111.4	291.7	269	2.81	78.9	9.5	14.3	14.7	8	<.1	.3	.4	32	.61	.107	7	19.1	.86	23	.008	2	.54	.115	.44	1.2	.03	4.7	.1	1.63	3	4.3	<1	19
KGAAR-11	1.3	379.9	1.7	2	.8	87.9	229.1	16	2.85	323.6	.8	2432.5	7.8	4	<.1	.2	.8	5	.05	.083	24	9.3	.02	14	.002	<1	.14	.082	.06	1.7	.03	.8	<.1	1.54	1	6.7	<1	27681
KGAAR-12	1.2	9606.5	2.6	4	10.9	122.4	221.2	32	7.86	16.2	.5	37577.9	1.3	2	<.1	.3	1.5	2	.01	.009	2	11.5	.02	15	.002	<1	.13	.018	.09	3.9	.13	.5	<.1	8.71	1	40.2	<1	34215
PMLR-1	.4	289.1	2.4	26	.3	54.4	66.9	936	7.09	54.5	.4	16.5	9.8	3	<.1	.4	1.1	7	.09	.024	28	15.6	.88	23	.002	<1	.98	.008	.13	.6	.01	4.1	<.1	.27	2	.8	<1	27
PKR-1	.1	34.1	.7	76	<.1	89.6	47.3	766	11.80	10.5	.1	2.2	.2	1	.1	.3	.3	220	.17	.020	1	33.2	6.35	31	.006	<1	6.67	.002	.02	.1	<.01	28.4	<.1	.06	15	<.5	<1	3
PKR-2	.4	25.7	1.3	20	.1	87.3	93.3	559	3.89	940.5	.2	22.9	.1	10	<.1	2.1	1.8	92	2.53	.032	2	29.8	1.59	11	<.001	<1	.96	.003	.16	.3	<.01	16.2	<.1	.06	2	<.5	<1	15
PKR-3	.4	154.7	35.7	122	.3	56.6	33.1	432	2.83	13.7	.2	1.1	.2	10	.5	1.0	.1	52	.87	.037	2	113.2	1.36	37	.100	<1	1.54	.038	.04	.3	.01	1.8	<.1	.26	4	.5	<1	5
PKR-4	.2	62.8	49.5	151	.1	64.6	20.9	993	3.34	3.4	<.1	.6	.1	14	.2	.7	<.1	84	1.45	.031	1	271.7	1.98	18	.111	<1	2.10	.048	.09	.3	.02	2.0	<.1	<.05	5	<.5	<1	2
PKR-5	.6	249.5	20.0	84	1.0	84.0	64.8	531	4.23	14.4	.2	4.4	.1	11	.2	4.4	.2	67	.55	.032	2	155.6	1.51	22	.139	10	1.75	.035	.02	.4	.04	2.1	<.1	1.17	4	1.2	<1	8
PKR-6	.4	19.0	4.3	108	.1	96.9	54.9	3645	7.71	5.5	.8	.6	<.1	52	.2	.3	.2	168	10.29	.022	4	243.5	4.05	15	.004	<1	3.67	.003	.02	.1	.01	30.1	<.1	.34	11	<.5	<1	2
PKR-7	.2	2.7	3.5	45	.1	100.6	86.2	3259	6.86	23.2	.3	.6	.1	31	<.1	.4	.9	124	7.04	.028	2	211.1	3.56	7	<.001	<1	.61	.007	.02	<.1	<.01	34.1	<.1	1.05	1	2.3	<1	6
PKR-8	11.0	15.0	3.0	42	.1	77.0	8.2	357	1.90	4.6	1.1	.6	3.1	2	.5	.9	.2	54	.20	.063	5	13.5	1.11	21	.004	1	1.12	.006	.12	1.2	.03	2.0	.1	.09	3	<.5	<1	3
PKR-9	4.2	2288.1	6.3	28	3.2	28.2	27.8	5090	11.40	30.6	.9	16.5	3.6	15	.1	1.5	1.1	4	3.65	.069	4	5.0	2.99	78	<.001	<1	.26	.008	.19	.7	.02	5.1	<.1	.58	1	.9	<1	12
PKR-10	.5	171.6	6.3	126	.1	58.1	36.7	1092	5.84	3.4	.3	3.3	3.1	57	<.1	.8	.1	89	2.20	.277	29	71.7	1.90	20	.166	1	2.38	.024	.08	.4	<.01	2.9	<.1	.06	8	<.5	<1	2
RE PKR-10	.6	179.6	6.2	133	.1	61.2	38.2	1151	6.14	3.8	.3	2.2	3.2	62	.1	.9	.1	94	2.32	.301	31	76.1	1.98	21	.174	1	2.51	.027	.08	.3	<.01	2.9	.1	.06	9	<.5	<1	2
BFLUR-1	.3	337.6	20.1	83	.1	32.8	25.4	765	3.22	4.3	.1	1.1	.8	19	.1	.8	.1	93	.66	.078	4	19.3	1.53	7	.248	<1	1.82	.036	.01	.3	.01	3.2	<.1	.07	4	<.5	<1	96
BFLUR-2	.5	2771.3	7.1	42	.4	13.4	5.1	676	2.82	3.3	.5	.6	7.4	22	.1	.3	.1	2	.70	.014	24	5.7	.48	34	.004	<1	.51	.011	.10	.8	.02	1.5	<.1	.21	1	<.5	<1	15
BFLUR-3	.5	5199.7	169.1	74	6.7	31.3	414.5	42	1.42	2984.3	.5	202.5	1.4	6	.7	10.2	164.9	<1	.02	.002	5	4.8	.02	14	.001	<1	.08	.013	.05	1.6	.03	.4	<.1	.81	<1	1.2	<1	207
BFLUR-4	.8	10490.9	109.7	178	7.2	18.3	16.6	111	4.40	20.9	1.0	12.1	2.2	4	.5	1.8	81.0	8	.02	.009	5	10.9	1.07	7	.001	<1	1.67	.009	.03	1.6	.11	1.6	<.1	1.02	4	2.6	<1	27
BFLUR-5	.4	928.5	10.5	68	.3	37.3	21.3	618	3.99	8.6	.1	1.1	.4	18	<.1	.8	1.3	145	.83	.038	2	60.7	1.54	17	.164	<1	1.87	.047	.07	.4	<.01	2.4	<.1	.10	6	<.5	<1	5
BFLUR-6	.2	64.0	1.7	52	.1	56.4	31.6	1015	8.69	11.8	<.1	3.0	.2	4	<.1	.4	.7	204	1.23	.042	1	86.6	3.48	6	.067	1	3.81	.032	.03	.3	<.01	8.3	<.1	<.05	11	<.5	<1	2
BFLUR-7	.4	3584.4	2.1	63	.4	114.8	62.5	119	5.54	31.9	1.3	10.3	12.5	2	<.1	.5	1.1	139	.04	.010	15	34.7	1.77	25	.006	2	2.88	.013	.16	.1	.01	5.0	<.1	.47	9	.7	<1	2
MBAAR-3	.8	8040.1	1.0	48	.4	127.9	137.3	1123	8.91	13.3	.3	23.2	.5	6	<.1	.1	.5	303	1.41	.022	13	139.2	7.13	78	.095	<1	5.86	.009	.70	.2	.01	22.3	.1	.58	22	10.8	<1	35
MBR-1	.3	80.0	3.4	39	<.1	26.4	20.1	71	5.30	4.0	1.3	.6	10.5	5	<.1	.7	.8	16	.03	.001	3	10.5	.51	47	.007	<1	1.32	.022	.11	.3	<.01	1.9	<.1	<.05	3	<.5	<1	3
BKR-1	.3	108.3	20.3	124	.1	40.4	23.5	748	3.28	3.4	.1	1.4	.4	40	<.1	.9	.1	73	1.68	.026	3	98.1	1.71	8	.179	2	1.75	.031	.03	.3	<.01	1.4	.2	<.05	6	<.5	<1	5
BKR-2	.2	482.5	62.9	257	.7	40.2	17.0	346	1.79	7.4	<.1	<.5	.1	32	1.0	.6	.5	42	2.00	.019	1	61.3	1.06	6	.112	1	1.34	.021	.01	.4	.04	1.7	<.1	.06	3	<.5	<1	4
BKR-3	.2	178.1	2.4	44	.3	17.6	24.2	537	3.68	5.6	<.1	19.4	.2	11	.1	.6	.1	87	.59	.063	1	1.8	.92	5	.139	1	1.63	.031	.01	.3	<.01	2.3	<.1	<.05	6	<.5	<1	13
BKR-4	.7	118.4	78.8	2241	.3	60.0	31.2	1453	7.23	8.5	<.1	.6	.3	25	8.8	.7	<.1	283	5.32	.032	1	225.8	5.38	19	.080	2	5.13	.003	.02	.1	.34	24.3	<.1	.25	15	.8	<1	8
STANDARD DS5/AU-R	13.1	143.6	25.8	137	.3	24.8	12.1	772	2.95	17.5	6.7	40.8	2.7	50	5.5	3.5	6.1	58	.75	.096	13	187.7	.66	138	.093	17	2.05	.033	.14	4.4	.15	3.6	1.0	<.05	6	4.5	<1	480

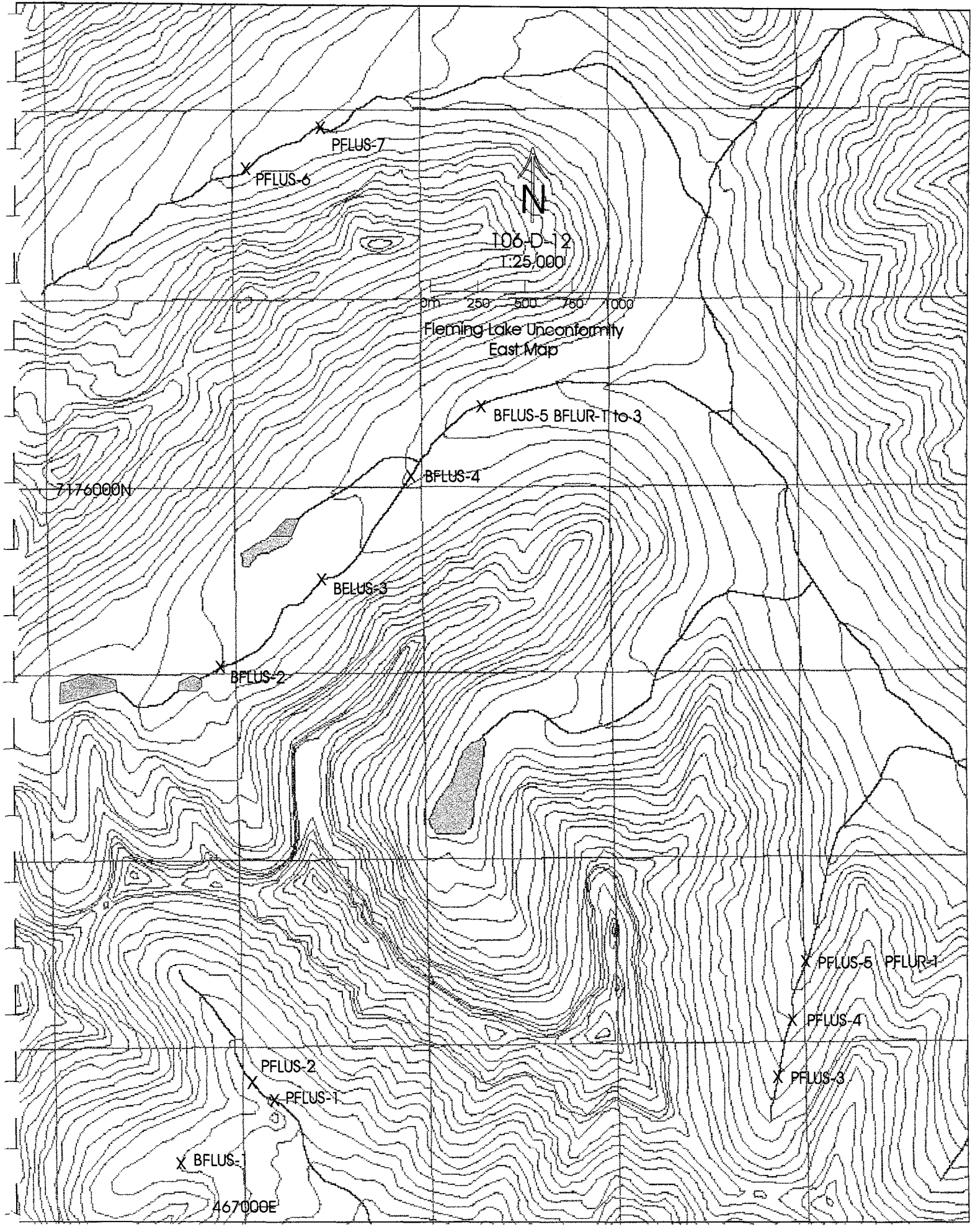
Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Au** ppb
BKR-5	.5	424.1	13.0	108	.6	26.8	61.7	1007	11.16	2.7	.3	1.4	.7	3	.1	.6	.1	281	.67	.128	5	<1	4.88	5	.312	2	5.04	.012	.02	.1	.01	7.9	.1	1.97	20	3.2	<1	2
BKR-6	.9	166.8	25.7	831	.2	116.5	15.8	848	4.94	8.3	.2	<.5	.4	11	3.8	.2	.2	304	4.36	.053	2	125.3	5.44	9	.012	2	4.96	.015	.14	.1	.09	21.9	.1	.44	14	1.8	<1	2
BKR-7	.6	248.7	22.9	98	.4	58.5	28.7	571	3.97	3.0	.1	8.7	.1	17	.2	.2	<.1	82	.84	.027	1	133.0	1.87	46	.145	4	2.24	.034	.03	.2	.01	3.7	<.1	<.05	5	<.5	<1	5
PFLUR-1	1.6	50.0	171.6	265	.3	28.4	35.8	2212	4.64	16.5	1.1	<.5	3.2	74	.8	.4	.8	7	3.66	.011	4	15.3	2.10	11	.001	1	1.25	.009	.06	1.4	.03	1.9	<.1	.22	3	<.5	<1	<2
PFLUR-2	.8	9393.5	42.6	48	5.6	62.2	69.6	123	5.25	1305.4	.3	140.7	1.2	3	.1	3.4	48.9	<1	.03	.002	3	7.1	.02	9	<.001	1	.08	.008	.04	2.9	.14	.3	<.1	1.11	<1	2.2	<1	433
PFLUR-3	.1	5004.7	276.8	14	1.5	9.4	8.2	17	1.02	62.7	.1	34.4	.2	<1	.1	7.6	904.1	<1	<.01	<.001	<1	<1	<.01	1	<.001	<1	.01	.001	<.01	.3	.04	<.1	<.1	.51	<1	3.2	<1	342
PFLUR-4	.7	16996.3	85.0	68	2.3	46.4	47.2	2951	7.87	53.6	.1	20.7	<.1	4	.1	4.8	313.8	<1	.07	<.001	<1	7.6	.50	5	<.001	2	.01	.012	<.01	3.4	.04	.8	<.1	1.87	<1	6.3	<1	25
PFLUR-5	.2	4751.2	12.4	41	.5	18.6	31.8	>9999	28.94	35.2	.1	3.4	.1	5	.1	.8	13.4	1	.11	<.001	<1	<1	3.61	3	<.001	<1	.01	.011	<.01	.7	.01	7.0	<.1	.39	1	<.5	<1	6
PFLUR-6	.2	10954.2	18.4	49	1.4	37.1	52.5	>9999	27.23	32.0	<.1	5.9	.1	6	.1	1.5	47.0	1	.11	<.001	<1	1.4	3.49	5	<.001	<1	<.01	.013	<.01	.9	.02	4.6	<.1	.88	1	.9	<1	7
RE PFLUR-6	.3	11318.2	19.1	52	1.5	36.1	51.2	>9999	28.08	31.8	<.1	10.8	.1	6	.1	1.6	46.0	2	.11	<.001	<1	1.4	3.59	5	<.001	<1	<.01	.014	<.01	.8	.02	4.6	<.1	.86	1	1.2	<1	8
PFLUR-7	.3	96.5	11.6	24	.1	.4	.8	2416	2.82	5.1	.2	<.5	<.1	81	.1	.9	1.3	2	18.82	.002	2	<1	9.55	10	<.001	<1	<.01	.021	.01	.1	<.01	<.1	<.1	.17	<1	<.5	<1	<2
PFLUR-8	1.5	3939.4	11.2	83	.6	31.1	23.0	2541	9.33	5.9	2.1	.9	2.2	138	.2	.5	1.1	23	13.60	.012	1	7.4	5.95	14	.001	<1	.52	.015	.07	.5	.04	5.1	<.1	.52	1	<.5	<1	<2
STANDARD D	12.5	147.1	25.3	134	.3	24.6	12.6	754	2.92	17.6	6.3	41.3	2.9	49	5.6	3.6	6.6	59	.72	.093	12	188.6	.66	143	.096	17	2.04	.036	.14	4.8	.16	3.9	1.1	<.05	7	5.0	<1	473

Standard is STANDARD DS5/AU-R. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA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Fleming Lake Unconformity
East Map
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BFLUS-4
7176000N
BELUS-3
BFLUS-2
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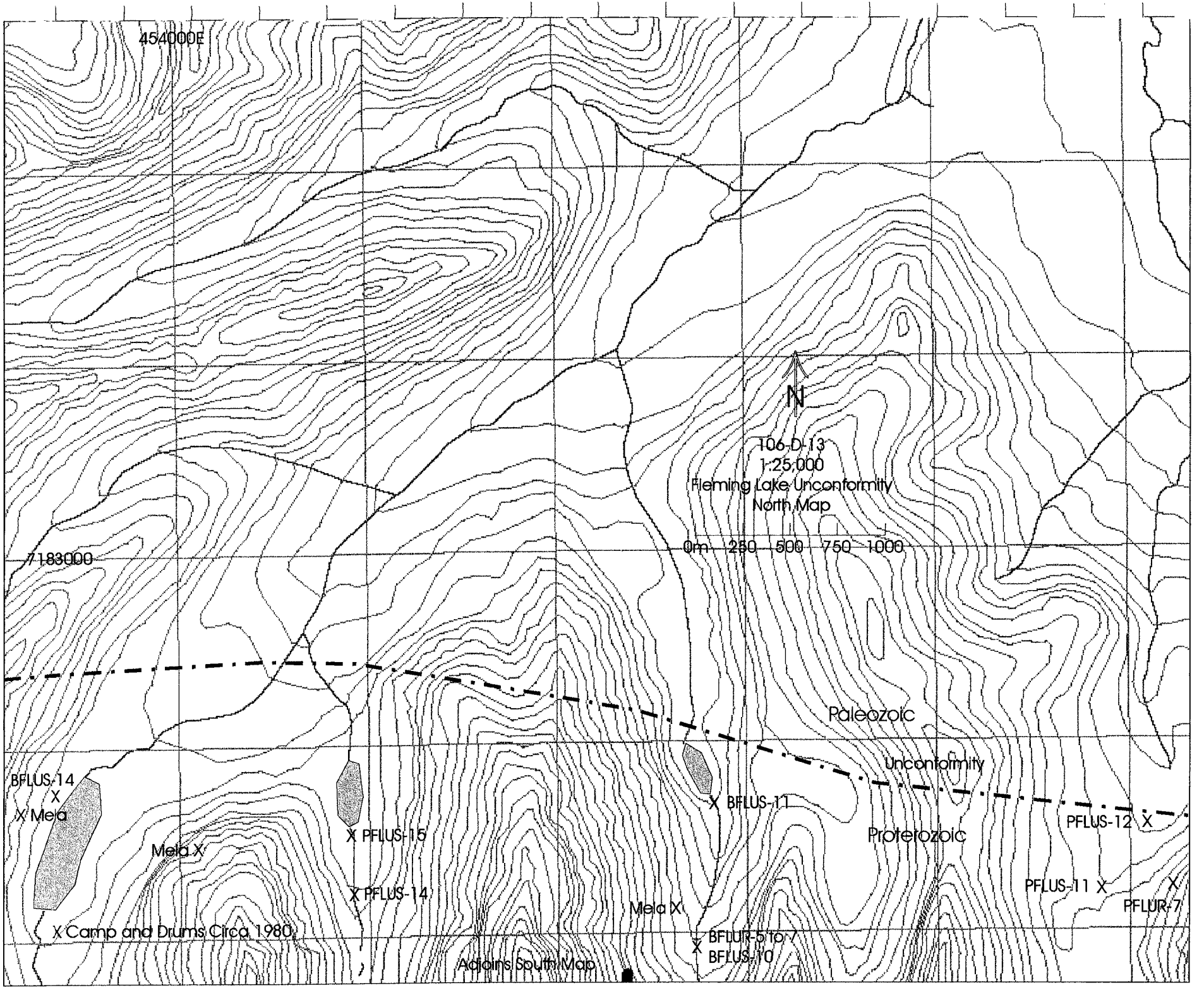
PFLUS-1
BFLUS-1
467000E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7183000
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Fleming Lake Unconformity
North Map
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Paleozoic
Unconformity
Proterozoic
BFLUS-14
X
X Mela
X BFLUS-11
X PFLUS-15
Mela X
PFLUS-12 X
X PFLUS-14
Mela X
PFLUS-11 X
X
PFLUR-7
X Camp and Drums Circa 1980
X
BFLUR-5 to 7
BFLUS-10
Adlains South Map