

INTRODUCTION

Diamond drilling on two of the known pegmatite zones located in Brownridge Township was carried out in the summer of 1979. The geological results were described by the author in a previous report, dated October, 1979. Quantitative results are presented and discussed below.

A reconnaissance lithogeochemical survey was carried out over the claims in the area that are either covered by overburden or lie at depth. The Russians have shown that the widest geochemical halos associated with pegmatite intrusions are formed by lithium, and therefore the survey involved sampling of bedrock and determination of lithium content.

DIAMOND DRILLING

The south zone pegmatite was penetrated by drill holes M-1 and M-2. The pegmatite intersected in each case was less than 10 feet thick and consisted essentially of wall-zone and mixed intermediate zone material. Minor aplitic material was encountered but this would appear to be of primary origin rather than a late replacement zone. Ta_2O_5 , Nb_2O_5 , SnO_2 and Li_2O content are below commercial grades (see certificate 48410, Appendix A).

The main pegmatite zone was intersected by drill holes M-3 and M-4. The pegmatites consisted of a wall zone and intermediate spodumene-bearing core zones. Minor primary aplite was encountered with the spodumene zones. Although rare tantalite crystals were identified in the core, the total tantalum-niobium content from assay results was disappointing. The Li_2O content for M-3 was 1.52% over a core length of 36.5 feet.

The main and south zone pegmatites appear to be deeply eroded as illustrated in Figure 4.

LITHOGEOCHEMICAL SURVEY RESULTS

A total of 313 bedrock samples was collected and analyzed for lithium content. The survey was controlled by chaining along claim lines and by running intermediate lines by compass and chain. Stations were established at 100-foot intervals along the lines and samples of bedrock, weighing 1-2 pounds, were collected as close to the stations as possible. Traverse lines were run north-south in the west part of the claim block and east-west in the east part of the claim block, approximately normal to the trend of the known pegmatite intrusions.

3/....

The main zone correlates with a relatively broad and highly contrasting lithium anomaly. This anomaly appears to extend northeast and is possibly the same as the anomaly associated with the NE zone. However, lack of outcrop in between the two pegmatite zones makes this correlation more assumed than defined.

A number of anomalies have been identified which have no correlation with known pegmatite. The strongest anomaly lies midway between the main zone and the south zone. Other anomalies lie in the east and southeast part of the claims. These anomalies will be the object of further exploration work proposed for 1980.

Geochemical results are appended to this report and are also shown on the contoured plan.

DISCUSSION

Deposits of spodumene-albitic and lepidolite-albitic pegmatites are the most promising as to tantalum-bearing capacity. The Russians report that lithium is the most useful element for geochemical exploration for these pegmatites. It forms the widest and strongest geochemical aureole areas and is little effected by weathering of the bedrock.

4/....

The Mavis Lake geochemical survey was successful in that known spodumene-albitic pegmatite zones all show excellent correlation with lithium halos. The survey also identified new anomalies, as mentioned previously. They indicate that the pegmatite field is much larger than previously known. These pegmatites may not reach surface and represent excellent potential for tantalum mineralization.

The tantalum-bearing pegmatite fields reported by the Russians show strong zoning both vertically and horizontally with respect to the parent granite bodies. This zoning is as follows:-

PARENT GRANITOID

- | barren pegmatites
- | Be, Cb - pegmatites
- | lithium pegmatites
- | (increasing secondary albitization)
- ↓ Tantalum-bearing pegmatites
- High temperature Sn-W-bearing quartz veins.

The Mavis Lake lithium-bearing pegmatites appear to have been deeply eroded, and the upper or apical portions of these pegmatites, which normally contain the tantalite-bearing replacement zones, have been removed. This interpretation is

illustrated in Figure 4, taken from a Russian publication (Beus, 1968).

The lithium anomaly situated midway between the main and south zones probably represents a sub-surface pegmatite intrusion. The apical portion of this pegmatite represents an excellent target for tantalum mineralization (Figure 5).

Assuming that the parental granitoid underlies Mavis Lake then the horizontal differentiation trend, represented by the zoning stated above, would be in a south to southeast direction. The Li anomalies identified on claims situated in the southeast portion of the block are targets for further investigation for tantalum mineralization.

PROPOSED WORK

The reconnaissance lithium lithochemical survey will be followed up by detailed geological mapping and prospecting of the anomalous areas. Detailed sampling will also be carried out over these anomalies and analyzed for Li, Cs and Rb content. It is estimated that approximately 200 samples will be required to evaluate the known Li anomalies. Completion of the geological and geochemical surveys should define some drill targets.

A.P. Pryslak.

:fa

REFERENCES

1. BEUS, A.A., et. al., 1968: Geochemical Prospecting for endogenous ore deposits of rare elements (e.g. for tantalum) (GSC Translation).
2. TRUEMAN, D.L., 1978: Exploration Methods in the Tanco Mine area of Southeastern Manitoba, Canada. Energy vol. 3, p. 293-297.
3. OUCHINNIKOU, L.N., 1976: Lithochemical Methods of Prospecting Rare Metal Pegmatites (GSC Translation, 1977).



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 48410

Date: November 19 1979

Received Oct. 1/79 14 Samples of Split Core

Submitted by Selco Mining Corporation, Cochenour, Ontario -samples per:A.Prys

SAMPLE NO.	Ta ₂ O ₅ %	Nb ₂ O ₅ %	SnO ₂ %	Li ₂ O %	P ₂ O ₅ %	Total Fe %
M-1 { 0584 5.0	0.01	0.01	0.007	0.73		
0585 4.9'	0.01	0.01	0.003	0.35		
M-2 { 0586	Trace	0.01	0.004	0.43		
0587 5.0'	Trace	0.01	0.004	0.08		
0588 4.1'	0.01	0.01	0.009	0.09		
0589 5'	Trace	0.01	0.013	0.78		
0590 5'	Trace	0.01	0.008	1.46		
0591 5'	0.01	0.01	0.006	2.33	0.45	0.10
M-3 { 0592 5'	0.01	0.02	0.004	1.32	0.38	0.08
0593 5'	0.01	0.02	0.006	1.45	0.40	0.08
0594 5'	Trace	0.01	0.005	0.84	0.47	0.09
0595 $\frac{6.9'}{36.9'}$	Trace	0.01	0.015	2.09		
0596 5.0	Trace	0.01	0.009	1.62		
M-4 { 0597 2.8'	Trace	0.01	0.022	1.15		

NOTE: Samples pulverized with ceramic plates.

Per G. Lebel
G. Lebel - Manager

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Certificate of Analysis

Certificate No. 48410

Date: November 19 1979

Received Oct. 1/79

14

Samples of Split Core

Submitted by Selco Mining Corporation, Cochenour, Ontario -samples per:A.Prysla

SAMPLE NO.	Ta ₂ O ₅ %	Nb ₂ O ₅ %	SnO ₂ %	Li ₂ O %	P ₂ O ₅ %	Total Fe %
n-1 { 0584 5.0	0.01	0.01	0.007	0.73		
0585 4.9'	0.01	0.01	0.003	0.35		
n-2 { 0586	Trace	0.01	0.004	0.43		
0587 5.0'	Trace	0.01	0.004	0.08		
0588 4.1'	0.01	0.01	0.009	0.09		
n-3 { 0589 5'	Trace	0.01	0.013	0.78		
0590 5'	Trace	0.01	0.008	1.46		
0591 5'	0.01	0.01	0.006	2.33	0.45	0.10
0592 5'	0.01	0.02	0.004	1.32	0.38	0.08
0593 5'	0.01	0.02	0.006	1.45	0.40	0.08
0594 5'	Trace	0.01	0.005	0.84	0.47	0.09
0595 $\frac{6.9'}{36.9'}$	Trace	0.01	0.015	2.09		
n-4 { 0596 5.0	Trace	0.01	0.009	1.62		
0597 2.8'	Trace	0.01	0.022	1.15		

NOTE: Samples pulverized with ceramic plates.

Per G. Lebel
G. Lebel - Manager



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Certificate of Analysis

Certificate No. 48643 Date: December 21 1979

Received Nov. 15/79 49 Samples of Ore

Submitted by Selco Mining Corporation, Cochenour, Ontario

SAMPLE NO.	Lithium PPM	SAMPLE NO.	Lithium PPM
2001	324	2026	81
2002	110	2027	263
2003	262	2028	153
2004	215	2029	190
2005	447	2030	203
2006	160	2031	53
2007	109	2032	4095
2008	255	2033	146
2009	195	2034	52
2010	263	2035	67
2011	187	2036	59
2012	98	2037	153
2013	1020	2038	166
2014	95	2039	110
2015	147	2040	500
2016	288	2041	186
2017	115	2042	168
2018	1290	2043	101
2019	169	2044	114
2020	253	2045	108
2021	190	2046	44
2022	900	2047	126
2023	620	2048	83
2024	4000	2049	133
2025	390		

Per G. Lebel
G. Lebel - Manager

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Certificate of Analysis

Certificate No. 48648

Date: December 21 1979

Received Nov. 15/79 49 Samples of Ore

Submitted by Selco Mining Corporation, Cochenour, Ontario

SAMPLE NO.	Lithium PPM	SAMPLE NO.	Lithium PPM
2050	174	2075	127
2051	51	2076	221
2052	82	2077	128
2053	75	2078	93
2054	159	2079	109
2055	84	2080	126
2056	196	2081	63
2057	66	2082	73
2058	82	2083	101
2059	77	2084	95
2060	121	2085	143
2061	356	2086	136
2062	1188	2087	203
2063	69	2088	83
2064	73	2089	120
2065	40	2090	54
2066	28	2091	105
2067	90	2092	344
2068	121	2093	364
2069	39	2094	214
2070	61	2095	150
2071	26	2096	125
2072	73	2097	60
2073	144	2098	71
2074	139		

Per G. Lebel
G. Lebel - Manager



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Certificate of Analysis

Certificate No. 48649

Date: December 29 1979

Received Nov. 15/79 50 Samples of Ore

Submitted by Selco Mining Corporation, Cochenour, Ont. per: A. Pryslak

SAMPLE NO.	LITHIUM PPM	SAMPLE NO.	LITHIUM PPM
2099	45	2124	101
2100	50	2125	96
2101	196	2126	80
2102	235	2127	104
2103	27	2128	165
2104	120	2129	65
2105	56	2130	112
2106	131	2131	234
2107	88	2132	59
2108	43	2133	79
2109	206	2134	80
2110	225	2135	52
2111	126	2136	132
2112	211	2137	165
2113	69	2138	281
2114	163	2139	117
2115	87	2140	167
2116	183	2141	119
2117	72	2142	99
2118	26	2143	117
2119	28	2144	95
2120	19	2145	15
2121	18	2146	10
2122	78	2147	26
2123	62	2148	18

Per G. Lebel
G. Lebel - Manager



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Certificate of Analysis

Certificate No. 48650

Date: December 29 1979

Received Nov. 15/79 50 Samples of Ore

Submitted by Selco Mining Corporation, Cochenour, Ont. - per: A. Pryslak

SAMPLE NO.	LITHIUM PPM	SAMPLE NO.	LITHIUM PPM
2149	30	2174	78
2150	57	2175	62
2151	76	2176	22
2152	188	2177	61
2153	77	2178	129
2154	66	2179	92
2155	84	2180	143
2156	27	2181	84
2157	33	2182	71
2158	62	2183	92
2159	56	2184	23
2160	64	2185	187
2161	20	2186	60
2162	21	2187	39
2163	107	2188	40
2164	71	2189	45
2165	26	2190	13
2166	69	2191	38
2167	655	2192	29
2168	71	2193	55
2169	64	2194	65
2170	91	2195	76
2171	92	2196	27
2172	106	2197	51
2173	38	2198	32

Per G. Lebel
G. Lebel - Manager



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Certificate of Analysis

Certificate No. 48651

Date: Dec. 29/79

Received Nov. 15/79 50 Samples of Ore

Submitted by Selco Mining Corporation, Cochenour, Ont. -- per: A. Pryslak

SAMPLE NO.	LITHIUM PPM	SAMPLE NO.	LITHIUM PPM
2199	21	2224	81
2200	38	2225	63
2201	69	2226	28
2202	12	2227	706
2203	28	2228	50
2204	66	2229	69
2205	35	2230	38
2206	199	2231	57
2207	31	2232	77
2208	51	2233	19
2209	37	2234	88
2210	55	2235	58
2211	167	2236	87
2212	288	2237	30
2213	119	2238	44
2214	100	2239	183
2215	72	2240	128
2216	62	2241	48
2217	23	2242	20
2218	22	2243	7
2219	51	2244	31
2220	65	2245	28
2221	68	2246	77
2222	33	2247	42
2223	35	2248	114

Per G. Lebel
G. Lebel - Manager





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Certificate of Analysis

Certificate No. 48652

Date: December 29 1979

Received Nov. 15/79 50 Samples of Ore

Submitted by Selco Mining Corporation, Cochenour, Ont. - Per: A. Pryslak

SAMPLE NO.	LITHIUM PPM	SAMPLE NO.	LITHIUM PPM
2249	279	2275	157
2250	44	2276	21
2251	27	2277	92
2252	31	2278	124
2253	34	2279	1075
2254	41	2280	79
2255	132	2281	45
2256	127	2282	57
2257	17	2283	31
2258	38	2284	40
2259	32	2285	87
2260	128	2286	61
2261	16	2287	262
2262	11	2288	700
2263	40	2289	95
2264	45	2290	357
2265	61	2291	44
** 2266	940	2292	97
2268	213	2293	94
2269	129	2294	102
2270	110	2295	76
2271	14	2296	44
2272	10	2297	74
2273	46	2298	45
2274	38	2299	32

** NOTE: Sample 2266 also contained tag #2267.

Per G. Lebel
G. Lebel - Manager



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Certificate No. 48653

Date: December 29 1979

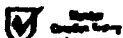
Received Nov. 15/79 14 Samples of Ore

Submitted by Selco Mining Corporation, Cochenour, Ont. - Per: A. Pryslak

SAMPLE NO.	LITHIUM PPM
2300	29
2301	19
2302	119
2303	35
2304	25
2305	27
2306	56
2307	19
2308	15
2309	15
2310	26
2311	19
2312	40
2313	27

Per G. Lebel
G. Lebel - Manager

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TELEPHONE: (705) 642-3244

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Certificate of Analysis

Certificate No. 49808

Date: Aug. 25, 1980

Received Aug. 1, 1980 96 Samples of Ore

Submitted by Selco Mining Corporation Ltd., Cochenour, Ont. Per: A. Pryslak

SAMPLE NO.	LITHIUM PPM	CESIUM PPM	SAMPLE NO.	LITHIUM PPM	CESIUM PPM
2329	408	110	2353	187	215
2330	1710	452	2354	138	258
2331	606	172	2355	376	108
2332	402	172	2356	290	151
2333	180	237	2357	234	108
2334	209	151	2358	174	129
2335	108	129	2359	527	344
2336	88	151	2360	451	151
2337	363	452	2361	124	194
2338	350	108	2362	255	387
2339	598	323	2363	2190	946
2340	187	237	2364	212	129
2341	890	129	2365	180	108
2342	516	129	2366	139	108
2343	348	108	2367	137	108
2344	305	108	2368	298	129
2345	125	129	2369	195	86
2346	174	108	2370	341	108
2347	112	86	2371	541	86
2348	432	65	2372	597	108
2349	1110	215	2373	283	108
2350	694	151	2374	195	108
2351	484	129	2375	77	129
2352	215	129	2376	125	129

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Per G. Lebel

G. Lebel, Manager

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TELEPHONE: (705) 642-3244

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Certificate of Analysis

Certificate No. 49808

Date: Aug. 25, 1980

Received Aug. 1, 1980 96 Samples of Ore

Submitted by Selco Mining Corporation Ltd., COCHENOUR, Ont. Per: A. Pryslak

SAMPLE NO.	LITHIUM PPM	CESIUM PPM	SAMPLE NO.	LITHIUM PPM	CESIUM PPM
2377	176	108	5601	153	108
2378	47	108	5602	114	172
2379	329	108	5603	350	129
2380	656	86	5604	237	151
2381	290	129	5605	424	86
2382	585	172	5606	957	151
2383	159	108	5607	151	108
2384	181	129	5608	329	172
2385	763	129	5609	204	194
2386	161	108	5610	353	237
2387	744	366	5611	206	172
2388	118	215	5612	452	194
2389	273	194	5613	114	215
2390	142	172	5614	277	194
2391	108	194	5615	957	215
2392	3050	538	5616	161	172
2393	1510	151	5617	596	323
2394	591	151	5618	617	1030
2395	393	108	5619	4343	151
2396	239	86	5620	325	172
2397	983	151	5621	583	151
2398	138	194	5622	518	194
2399	262	237	5623	1080	215
2400	194	194	5624	561	237

Per G. Lebel

G. Lebel, Manager

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Certificate of Analysis

Certificate No. 50009

Date: Sept. 22, 1980

Received Aug. 26, 1980 19 Samples of ore

Submitted by Selco Mining Corporation Ltd., Cochenour, Ont.

Per: A. Fryslak

SAMPLE NO.	LITHIUM PPM	CESIUM PPM
5625	8	5
5626	68	35
5627	50	10
5628	119	35
5629	15	25
5630	96	15
5631	38	35
5632	31	30
5633	38	20
5634	8	5
5635	54	10
5636	108	15
5637	38	5
5638	31	10
5639	31	10
5640	8	5
5641	23	10
5642	108	40
5643	65	10

Per G. Lebel
G. Lebel, Manager



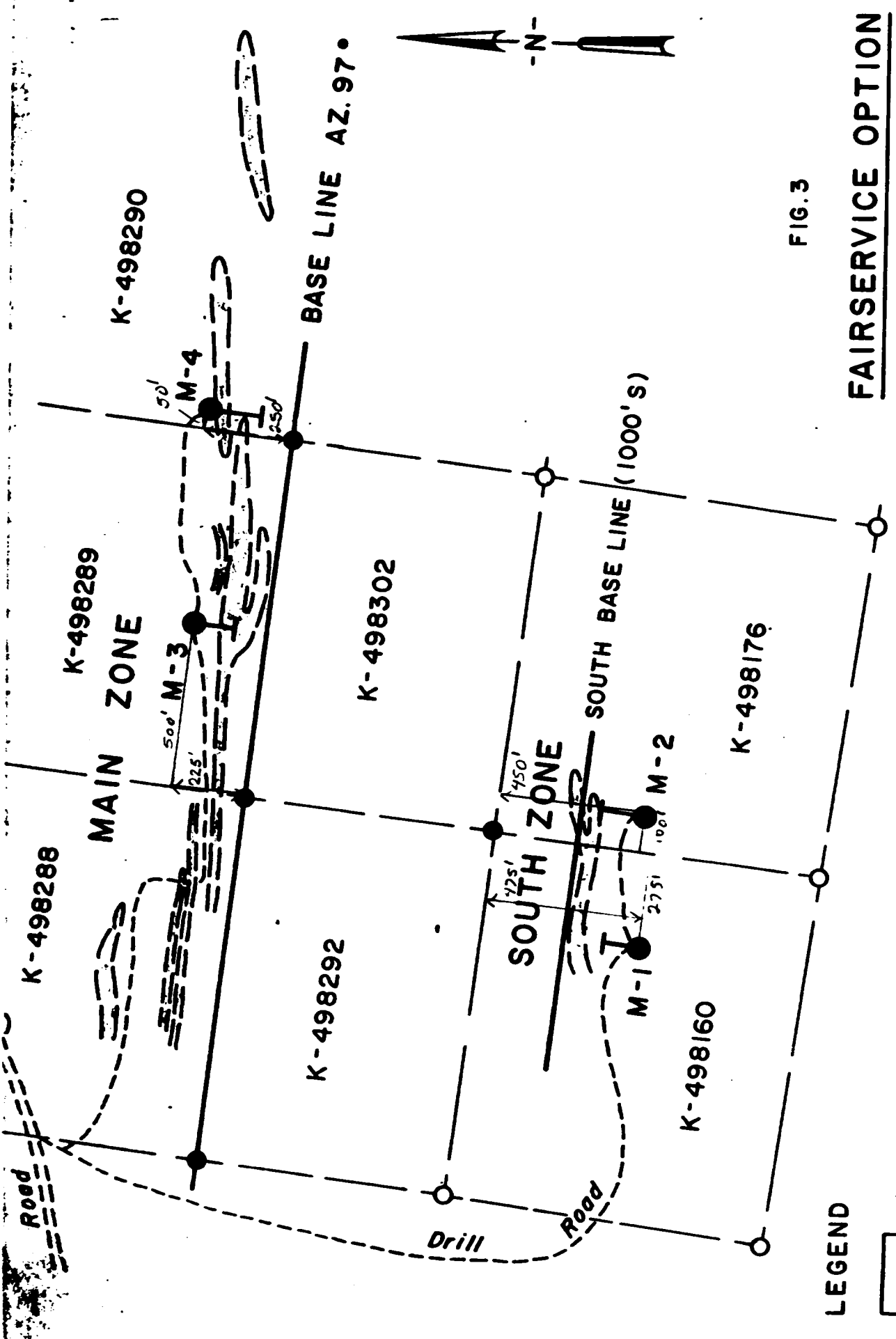


FIG. 3

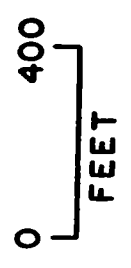
FAIRSERVICE OPTION

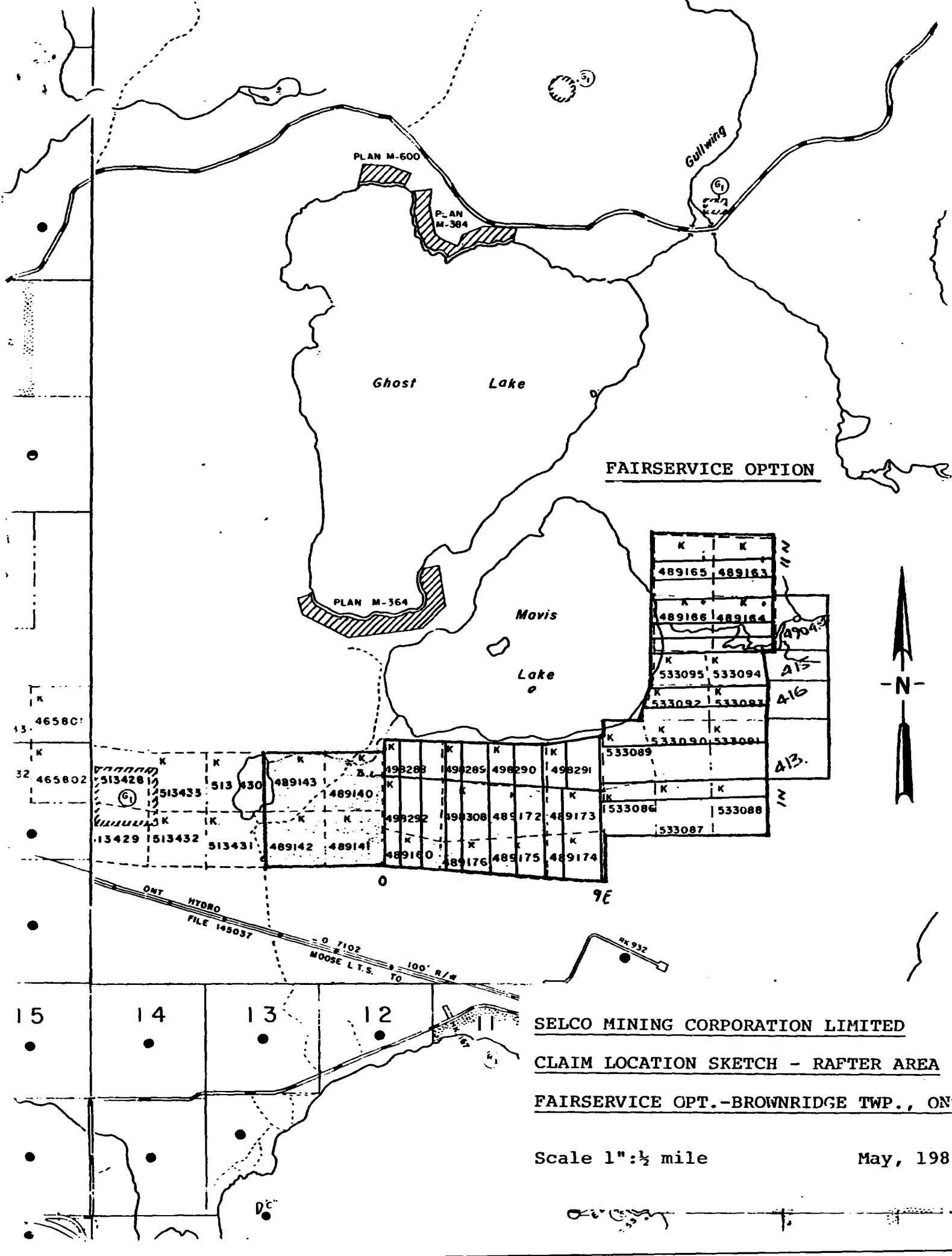
PLAN OF GEOLOGY, D.D.H.'S

AND ZONES

LEGEND

☐ Pegmatite



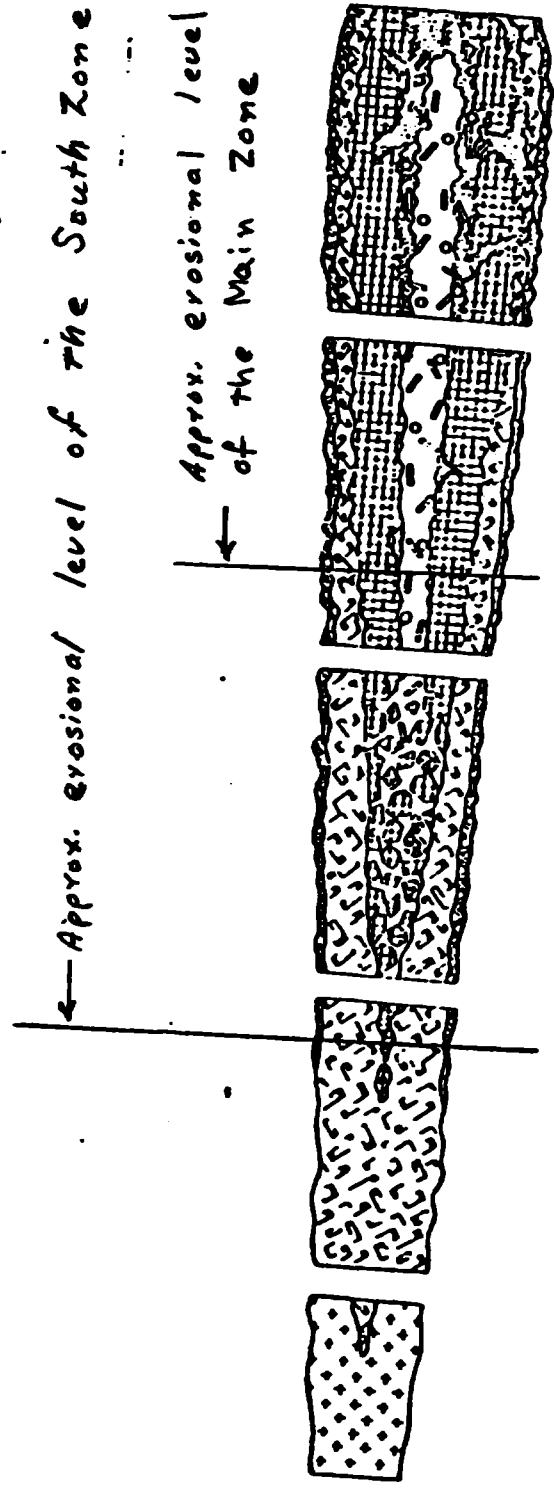


FAIRSERVICE OPTION

SELCO MINING CORPORATION LIMITED
CLAIM LOCATION SKETCH - RAFTER AREA
FAIRSERVICE OPT.-BROWNRIDGE TWP., ONT

Scale 1" = 1/2 mile May, 1981

Top of Section.



- 1
- 2
- 3
- 4
- 5
- 6
- 7

Fig. 13. Scheme of the texture-paragenetic types of granitic pegmatites (according to Ylasov, 1952). (1) Granite; (2) pegmatite of graphic and of late quartz; (3) microcline, oligoclase, and microcline-spodumene zones, also blocks and crystals; (4) quartz blocks, cores, and belts (spodumene, beryl, etc.); (5) muscovite-quartz-albite zones and fringes; (6) crystals of rare-metal minerals

Figure 4 - Estimated erosional levels of the Mavis Lake Pegmatites based on Textural-Paragenetic zoning.

**SELCO MINING CORPORATION LIMITED
DIAMOND DRILL RECORD**

HOLE NO. M-1

PROPERTY

Rafter - Fairservice Option

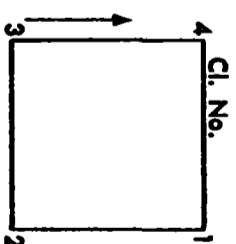
KRI-498292

SHEET NO 1 of 2

LOCATION 10,700 E
1,225 S

BEARING 353° As.

DIP COLLAR -60°



ELEVATION

TOTAL DEPTH 157'

CORE SIZE EXT

STARTED June 21/79

COMPLETED June 23/79

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS	
								7A ₂ %	Nb ₂ O ₅ %	SnO ₂ %	Li ₂ O%		
0	11.0	Casting											
11.0	85.0	Amphibolite F-med. gr. banded amphibolite. White feldspathic bands alternating with dark green amphibole-rich bands. Bands up tp 5mm thick and at 10-15° to C.A.											
85.0	94.7	Pegmatite Poorly zoned. Essentially c. gr. and equigranular with exception of minor bands of apfite and coarse crystals of blocky K-spar. 85.0-87.8 c. gr. quartz + feldspar with 10% blocky K-spar, 5% yellowish mica, 5% spodumene > 5% apfite bands. 87.8-88.6 banded apfite peppered with f. gr. black and green minerals, possibly tourmaline and apatite. Minor pegmatite with spodumene and blocky K-spar 88.6-90.7 c. gr. quartz-feldspar-mica with 10% med. gr. matrix of similar composition 90.7-91.2 Amphibolite inclusions tourmalinised at contacts which are 30° to C.A. 91.2-94.7 c. gr. pegmatite with quartz, K-spar, spod and mica. Aplitic bands at 92.5-93.0 and 93.5-94.7	0584	84.9	89.9	5.0		0.01	0.01	0.007	0.73		
94.7	121.2	Amphibolite Alternating thin feldspathic and mafic-rich bands, similar to section from 11.0-85.0	0585	89.9	94.8	4.9		0.01	0.01	0.003	0.35		

DRILLED BY Selco Mining Corp. (Depthmaster)

SIGNED A.P. Pryslak

DIAMOND DRILL RECORD

HOLE NO. M-1

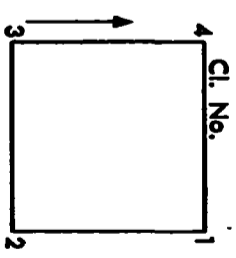
PROPERTY Rafter - Fairservice Option

SHEET NO 2 of 2

BEARING 353° As.

LOCATION 10,700 E
1,225 S

DIP COLLAR -60°



ELEVATION

TOTAL DEPTH 157'

CORE SIZE EXT

STARTED June 21/79

COMPLETED June 23/79

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS		REMARKS
21.2	121.9	Pegmatite Contacts at 85° to C.A. and are tourmalinised over ½ to 1 inch. Mainly quartz + K-spar with >5% apfite.								
21.9	139.0	Amphibolite Similar to above								
39.0	139.5	Pegmatite Similar to above								
39.5	157.0	Amphibolite Similar to above								

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD

HOLE NO. M-2

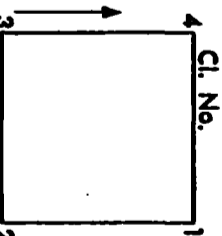
PROPERTY

Rafter - Fairservice Option

KRI-498292

BEARING 353° A

DIP COLLAR -50°



ELEVATION

TOTAL DEPTH 195.0'

CORE SIZE EXT

STARTED June 28/79

COMPLETED July 2/79

SHEET NO 1 of 1
LOCATION 11,100 E
1,200 S

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECORDED	ASSAYS					REMARKS	
								74.5%	75%	Mg. Ox.	SiO ₂	Li ₂ O		
0	4.0	Casing												
4.0	170.3	Amphibolite Alternating feldspathic and amphibole rich layers (meta-andesite tuff) Layering at 20° to C.A. 150-157 - 10% po, tr. cp.												
170.3	179.3	Pegmatite C. gr., pink, tourmalinized for 6" along contacts. Upper contact at 70° to C.A., Lower contact not cored. Composition essentially quartz + K-spar with minor yellowish mica and rare tourmaline. 10% spodumene at 173.5-174.0												
179.5	190.6	Amphibolite Medium grained, dark green, massive	0586	170.3	175.3	5.0		Tr	0.01	0.004	0.43			
190.6	192.4	Pegmatite Similar to above. Contacts at 80° and 60° to C.A.	0587	175.3	179.4	4.1		Tr	0.01	0.004	0.08			
192.4	195.0	Amphibolite Similar to above.	0588	190.8	192.4	1.6		0.01	0.01	0.009	0.09			
195.0	195.0	E.O.H.												

DRILLED BY Selco Depthmaster

SIGNED A.P. Pyslak

DIAMOND DRILL RECORD
JOURNAL DE SONDAGE DE DIAMANT

HOLE NO. M-3
NO. DU TROU
SHEET NO. 1 of 1
NO. DE FEUILLE
LOCATION 11500E
ENDROIT 2+25N

PROPERTY RAFTER (MAVIS LAKE) (K 498289)
PROPRIETE

BEARING 187°
DIRECTION
DIP -50°
PENTE

STARTED July 12, 1979
COMMENCE LE
COMPLETED July 16, 1979
TERMINE LE

ELEVATION
ELEVATION
TOTAL DEPTH 147'
PROFONDEUR TOTALE
CORE SIZE EXT
DIMENSION DE CARROTE

FROM DE	TO A	DESCRIPTION	SAMPLE NO. D'ÉCHANT.	FROM DE	TO A	LENGTH LONG-UEUR	CORE RECOVERED CARROTE RECUPERE	ASSAYS				REMARKS REMARQUES		
								TA205	MB205	SN02	LI20			
0	32.0	CASING												
32.0	41.7	META-ANDESITE Fine-medium grained, well foliated to banded andesite tuff consisting of 40% amphibole, 10% biotite, 50% quartz plus feldspar. Foliation at 60° to core axis.	0589	41.7	46.7	5.0	Tr.	0.01	0.013	0.78				
		PEGMATITE White to pink, poorly zoned into wall zone and center spodumene zone. Minor aplitic banding at 53.0 to 66.5.	0590	46.7	51.7	5.0	Tr.	0.01	0.008	1.46				
		41.7-42.2: Wall zone, fine grained, pale pink composite of quartz plus feldspar plus minor yellow-green mica.	0591	51.7	56.7	5.0	0.01	0.01	0.006	2.33		0.45	0.10	
		42.2-77.4: Spodumene zone 15-20% spod with quartz plus feldspar. Minor yellow-green mica, trace deep blue apatite, rare crystals of tantalite - brownish alteration of spodumene at 42.2-44.0.	0592	56.7	61.7	5.0	0.01	0.02	0.004	1.32		0.38	0.08	
			0593	61.7	66.7	5.0	Tr.	0.01	0.006	1.45		0.40	0.08	
			0594	66.7	71.7	5.0	Tr.	0.01	0.005	0.84		0.47	0.09	
			0595	71.7	78.6	6.9	Tr.	0.01	0.015	2.09				
78.6	147.0	META-ANDESITE Banded plus well foliated, similar to section at 32.0-41.7. END OF HOLE.												
147.0														

DRILLED BY Selco
SONDAGE PAR
SIGNED JOURNAL PAR A. Prystak

DIAMOND-DRILL RECORD
JOURNAL DE SONDAGE DE DIAMANT

HOLE NO. M-4
 NO. DU TROU
 SHEET NO. 1 of 2
 NO. DE FEUILLE
 LOCATION 12175E
 ENDROIT 2+75N

PROPERTY RAFTER (MAVIS LAKE)
 PROPRIETE (K 498290)

BEARING 187°
 DIRECTION
 DIP -50°
 PENTE

STARTED July 12, 1979
 COMMENCE LE
 COMPLETED July 16, 1979
 TERMINE LE

ELEVATION
 ELEVATION
 TOTAL DEPTH 197'
 PROFONDEUR TOTALE
 CORE SIZE EXT
 DIMENSION DE CARROTE

FROM DE	TO A	DESCRIPTION	SAMPLE NO. NO. DECHANT.	FROM DE	TO A	LENGTH LONG-VEUR	CORE RECOVERED CARROTE RECOURVE	ASSAYS ANALYSES				REMARKS REMARQUES	
								Ta2O3 %	Nb2O5 %	SnO2 %	Li2O %		
0	12.0	CASING											
12.0	33.5	META-ANDESITE TUFF Fine-medium grained, well banded with alternating light and dark green bands up to 1/2" thick. Dark bands composed essentially of hornblende. Lighter bands contain quartz-feldspar-biotite.											
33.5	42.3	PEGMATITE Spodumene-bearing dike zoned into narrow fine grained wall sections and a coarse grained center zone with grain size to one inch. 33.6-34.0: Wall zone comprised essentially of quartz plus feldspar plus minor mica. Weak brownish alteration. 34.0-42.0: Spodumene Zone. - relatively equigranular with no apfite banding. Comprised of quartz plus feldspar plus 10-15% spodumene. Minor white to yellowish-green mica and rare tantalite crystals. - minor biotite at 40.0-42.0'. - brown alteration patches of spodumene at 41.0-42.0. 42.0-42.4: Wall Zone. Fine grained, white, comprised of quartz, feldspar (including cleavelandite), minor mica and trace apatite. Contact at 70' to core axis.	0596	33.5	38.5			Tr.	0.01	0.009	1.62		
42.3	19' 0	META-ANDESITE TUFF Similar to section at 12.0-33.5'. Well banded plus foliated amphibolite.											

DRILLED BY Selco
 SONDAGE PAR

SIGNED A. Pryslak
 JOURNAL PAR

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE DE DIAMANT

HOLE NO. M-4
 NO. DU TROU
 SHEET NO. 2 of 2
 NO. DE FEUILLE
 LOCATION 12175E
 ENDROIT 2475N

PROPERTY
 PROPRIETE

BEARING
 DIRECTION

DIP
 PENTE

STARTED
 COMMENCE LE

COMPLETED
 TERMINE LE

ELEVATION
 ELEVATION
 TOTAL DEPTH
 PROFONDEUR TOTALE
 CORE SIZE
 DIMENSION DE CARROTE

FROM DE	TO A	DESCRIPTION	SAMPLE NO. D'ECHANT.	FROM DE	TO A	LENGTH LONG- UEUR	CORE RECO- RD CARROTE RECOURVE	ASSAYS		REMARKS REMARQUES
								ANALYSES		
42.3	197.0	META-ANDESITE TUFF (Continued) 96.0-96.2: Quartz plus aphte 105.6-105.8: Quartz plus aphte plus tourmaline 139.0-139.3: 50% black tourmaline in aphte. Contacts at 80° to core axis. The above interse- ctions are wall zone material.								
197.0		END OF HOLE								

DRILLED BY
 SONDAGE PAR

SIGNED
 JOURNAL PAR



GEC

23410



TO BE FACT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

900

RECEIVED

AUG 1 1980

MINING LANDS SECTION

Type of Survey(s) Geochemical
Township or Area M-1954
Claim Holder(s) Selco Mining Corp. Ltd.
55 University Ave., Suite 1700
Survey Company Selco Mining Corp.
Author of Report A. P. Prysak
Address of Author Box 100, Cochenour, Ont.
Covering Dates of Survey Sept. 1979 - July 1980
Total Miles of Line Cut 4.9 miles

MINING CLAIMS TRAVERSED
List numerically

Table with 2 columns: prefix, number. Rows include K-498288, K-498289, K-498290, K-498291, K-498292, K-498308.

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED. Includes Geophysical (Electromagnetic, Magnetometer, Radiometric, Other) and Geological (Geochemical) sections with days per claim.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer Electromagnetic Radiometric

DATE: SIGNATURE: Author of Report or Agent

Res. Geol. Qualifications

Table with 4 columns: File No., Type, Date, Claim Holder. Includes handwritten note 'on this file'.

TOTAL CLAIMS 6

Numbers of _____ ns from which samples taken Six

Total Number of Samples 179

Type of Sample Bedrock
(Nature of Material)

Average Sample Weight 2 lbs.

Method of Collection chips.

Soil Horizon Sampled N.A.

Horizon Development N.A.

Sample Depth N.A.

Terrain N.A.

Drainage Development N.A.

Estimated Range of Overburden Thickness N.A.

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, etc. (circle)

Others Li

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory Swastika Lab. Ltd.

Extraction Method Total decomp. HF

Analytical Method A.A.

Reagents Used _____

General _____

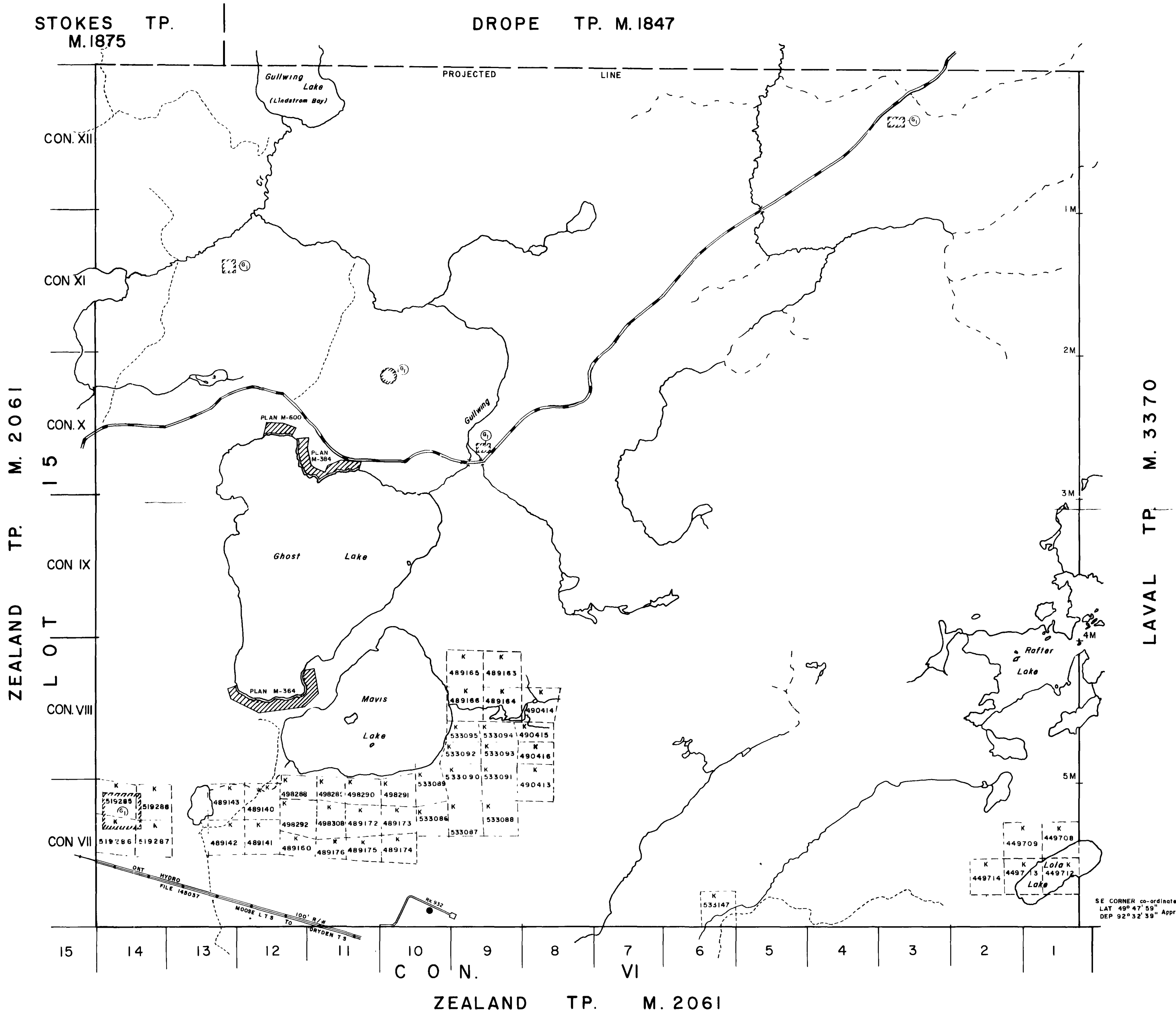
NOTES

400' surface rights reservation along the shores of all lakes and rivers.

SAND and GRAVEL

GRAVEL File 109618

DATE OF ISSUE
AUG 18 1990
SURVEYS AND MAPPING
BRANCH

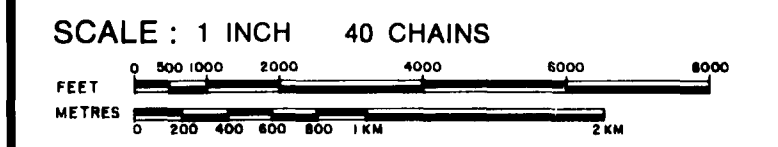


LEGEND

HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC	
LOTS, MINING CLAIMS, PARCELS, ETC	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS SUBDIVISION	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	CS
ORDER-IN-COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	



ACRES	HECTARES
40	16

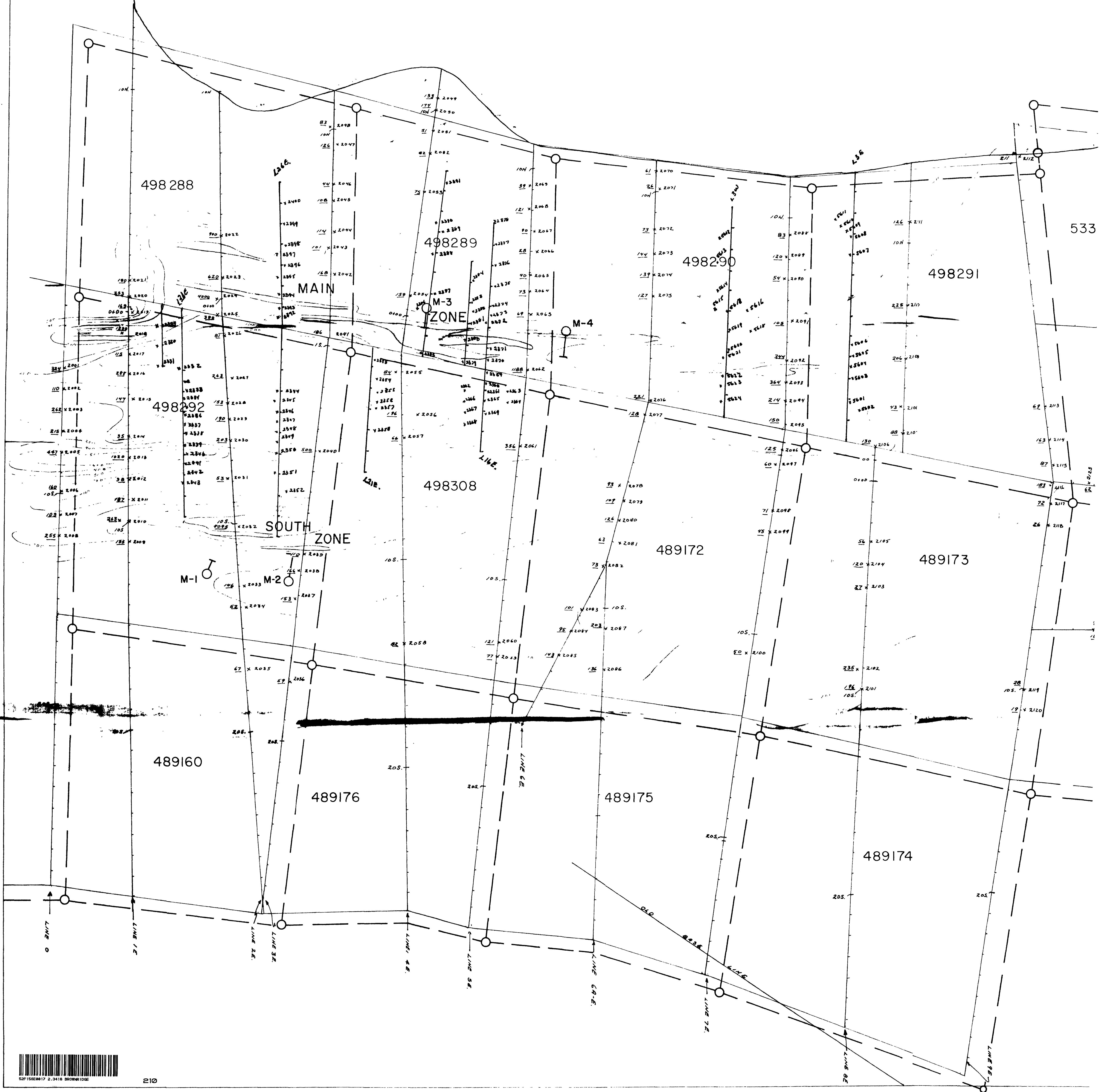
TOWNSHIP *2.3416*
BROWNRIDGE
DISTRICT
KENORA
MINING DIVISION
KENORA

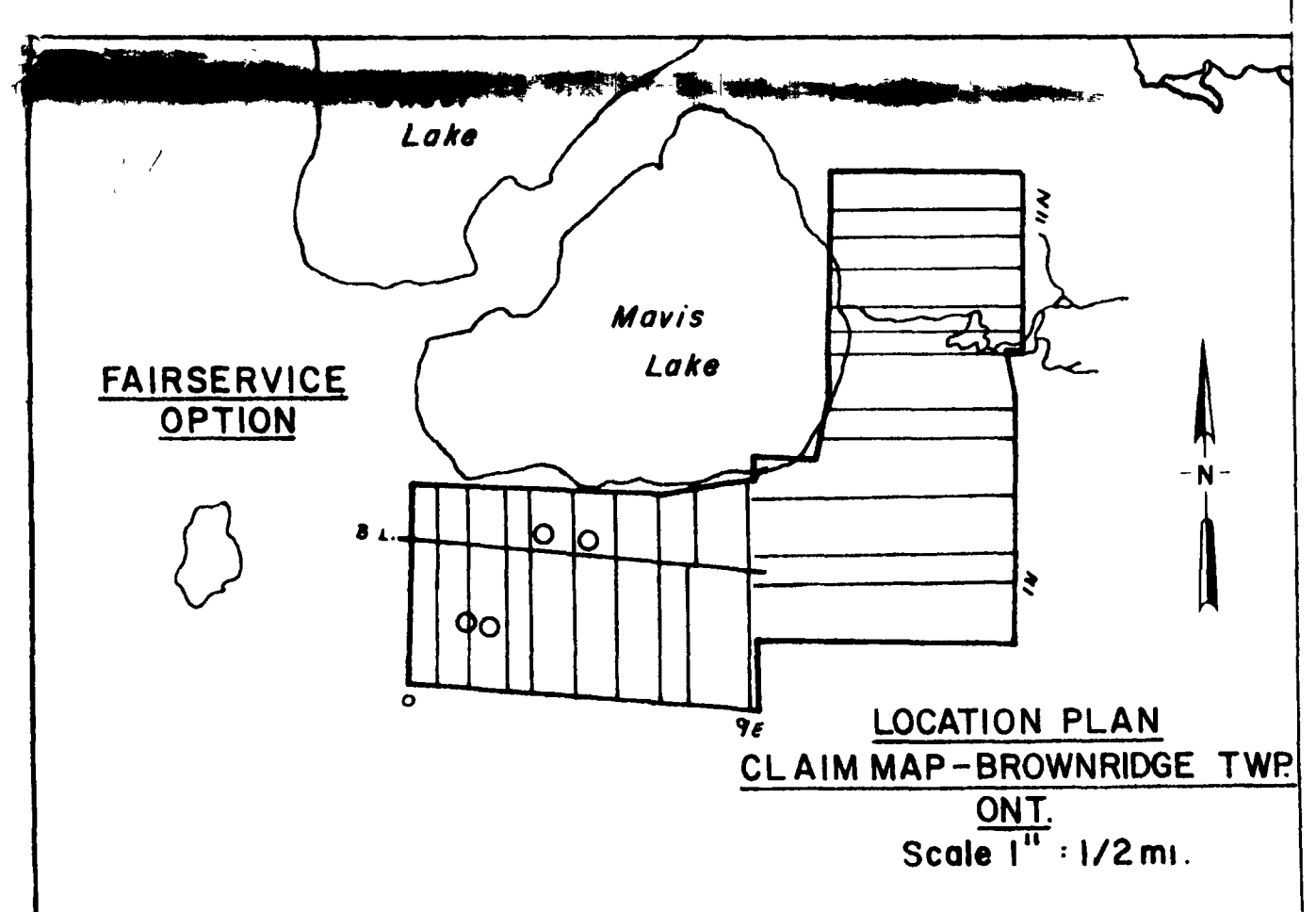
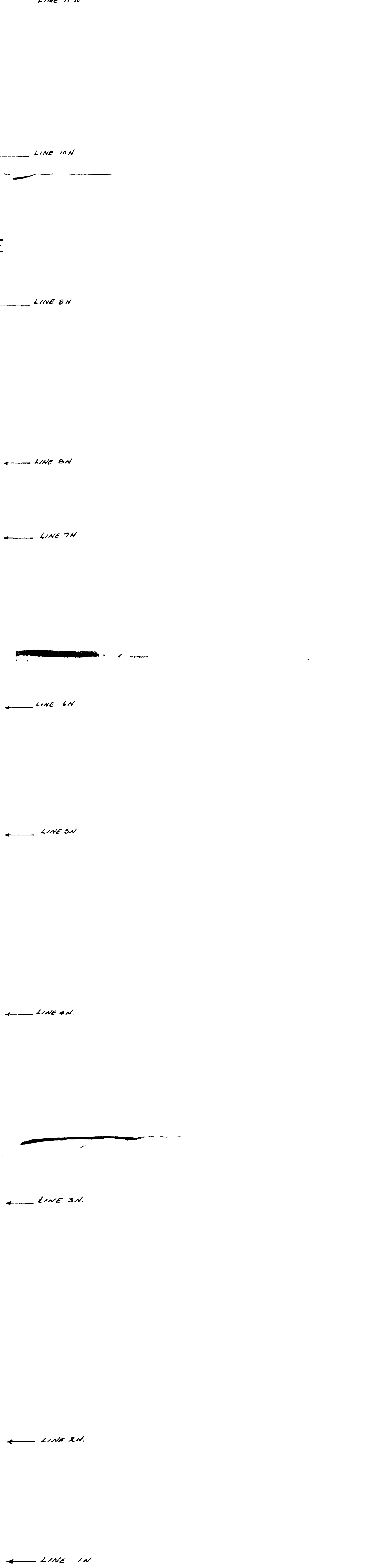
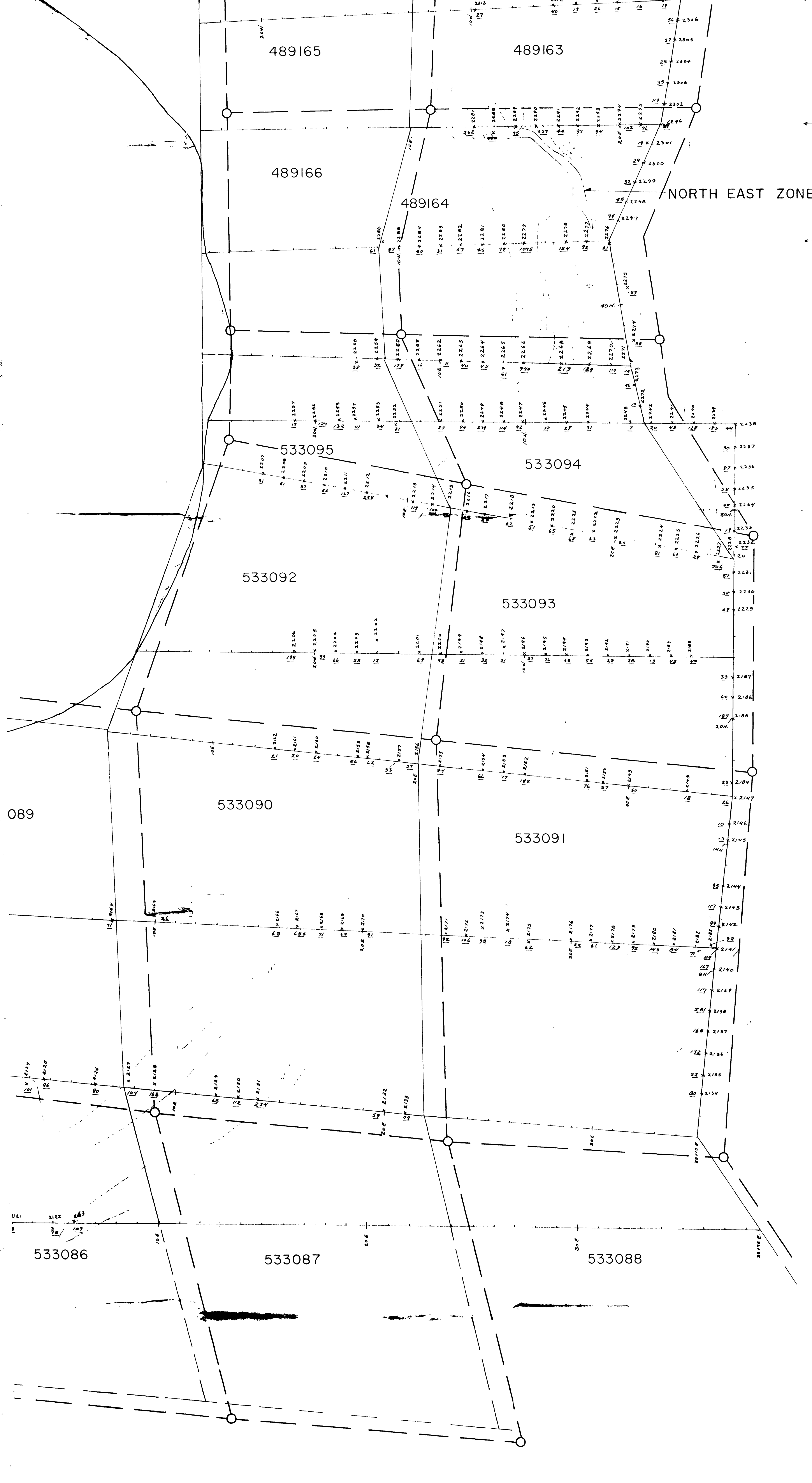
Ministry of Natural Resources
Ontario Surveys and Mapping Branch
Date Nov '74
Whitney Block
Queen's Park, Toronto
Plan No
M.1954



52F155E0017 2.3416 BROWNRIDGE 200

MAVIS
LAKE





LEGEND

PPM LITHIUM

- 0 - 100
- 100 - 200
- 200 - 300
- 300 - 400
- 400 - 500
- < 500

○ CLAIM POST - ASSUMED

● CLAIM POST - DEFINED BY COMPASS AND CHAIN SURVEY

⚡ PEGMATITE - DEFINED BY OUTCROP & D.D.H. DATA

PPM LITHIUM 28 x 2120 SAMPLE NUMBER

x - additional sampling, July, 1980

CLAIM LINES & SURVEY LINES BY COMPASS & CHAIN

J.P. Rafter

SELCO MINING CORPORATION
(EXPLORATION DIVISION) LIMITED

RAFTER AREA
FAIRSERVICE OPTION
LITHOGEOCHEM. SURVEY - LITHIUM

DRAWN BY: _____ DATE: _____
TRACED BY: _____ DATE: _____

PLAN NO. RA. 2881