



41P15NE8324 2.9273 CAIRO

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COMSTATE RESOURCES LTD.

GEOCHEMICAL SURVEY

CAIRO TOWNSHIP

LARDER LAKE MINING DIVISION,

ONTARIO

RECEIVED

JUL 24 1986

MINING LANDS SECTION

May, 1985

Timmins, Ontario

R. Bald, M.Sc. 2.3530

D. Pyke, Ph.D. 2.3899



General Statement

During June, 1983, Comstate Resources Ltd. conducted a humus survey on a group of claims in Cairo Township. A total of 336 samples of the A^o (humus) horizon were collected over much of the property along previously cut and chained picket lines; 325 of these samples were subsequently found to contain humus material and were analyzed for gold (parts per billion) and arsenic (parts per million). The results are listed in Table I and are plotted on the accompanying maps.

Whole rock chemical analyses (Table 2) were done on six bedrock samples: two rhyolites, three basalts and one ultramafic intrusion. In addition to the major oxides, the samples were also analyzed for rubidium, strontium, zirconium and barium.

Thirty-nine bedrock samples were analyzed (Table 3) for gold, nickel, copper, zinc, arsenic, silver and antimony. The sample locations and results of the analyses are shown on the accompanying geology map.

TABLE I

HUMUS SAMPLE ANALYTICAL RESULTS

Au (ppb)

C8+63N-14W	--	6	--	--	--
C16W-10N	--	<1	--	--	--
C16W-9N	--	1	--	--	--
C16W-8N	--	4	--	--	--
C15+50W-9+50N	--	5	--	--	--
C15+50W-8+50N	--	8	--	--	--
C15W-10N	--	9	--	--	--
C15W-9N	--	2	--	--	--
C15W-8N	--	9	--	--	--
C14+50W-10+50N	--	10	--	--	--

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SAMPLE	AU PPB	AU PPB	NI PPM	CU PPM	ZN PPM
C14+50W-9+50N	--	6	--	--	--
C14+50W-8+50N	--	6	--	--	--
C14+50W-7+50N	--	8	--	--	--
C14W-10N	--	3	--	--	--
C14W-9N	--	7	--	--	--
C14W-8N	--	<1	--	--	--
C13+50W-10+50N	--	3	--	--	--
C13+50W-9+50N	--	7	--	--	--
C13+50W-8+50N	--	4	--	--	--
C13+50W-7+50N	--	3	--	--	--
C13W-10N	--	4	--	--	--
C13W-9N	--	4	--	--	--
C13W-8N	--	4	--	--	--
C12+50W-9+50N	--	3	--	--	--
C12+50W-8+50N	--	1	--	--	--
C12W-10N	--	3	--	--	--
C12W-9N	--	8	--	--	--
C12W-3N	--	5	--	--	--
CL12W-1S	--	NH	--	--	--
CL12W-2S	--	NH	--	--	--
CL12W-3S	--	NH	--	--	--
CL12W-4S	--	9	--	--	--
CL12W-5S	--	NH	--	--	--
CL12W-11S	--	9	--	--	--
CL12W-12S	--	4	--	--	--
CL12W-13S	--	4	--	--	--
CL12W-14S	--	5	--	--	--
CL12W-15S	--	2	--	--	--
CL12W-16S	--	7	--	--	--
CL12W-17S	--	4	--	--	--
CL12W-18S	--	7	--	--	--
CL12W-19S	--	6	--	--	--
CL12W-19+4BS	--	6	--	--	--
CL10W-1S	--	3	--	--	--
CL10W-2S	--	1	--	--	--
CL10W-3S	--	5	--	--	--
CL10W-9S	--	10	--	--	--
CL10W-10S	--	10	--	--	--
CL10W-11S	--	10	--	--	--
CL8W-2S	--	62	--	--	--
CL8W-3S	--	3	--	--	--
CL8W-4S	--	NH	--	--	--
CL3W-9S	--	3	--	--	--
CL3W-10S	--	5	--	--	--
CL8W-11S	--	3	--	--	--
CL8W-12S	--	8	--	--	--
CL8W-13S	--	3	--	--	--
CL8W-14S	--	8	--	--	--
CL8W-14+4BS	--	7	--	--	--
CL6W-2S	--	NH	--	--	--
CL6W-3S	--	NH	--	--	--
CL6W-6S	--	4	--	--	--
CL6W-8S	--	4	--	--	--
CL6W-9S	--	5	--	--	--
CL6W-10S	--	3	--	--	--
CL6W-11S	--	1	--	--	--

SAMPLE	AU PPB	AU PPB	NI PPM	CU PPM	ZN PPM
CL6W-13S	--	2	--	--	--
CL6W-14S	--	5	--	--	--
CL6W-15S	--	9	--	--	--
CL6W-16+40S	--	9	--	--	--
CL4W-2S	--	4	--	--	--
CL4W-3S	--	NH	--	--	--
CL4W-10S	--	2	--	--	--
CL4W-13S	--	6	--	--	--
CL4W-14S	--	5	--	--	--
CL4W-15S	--	5	--	--	--
CL2W-2S	--	5	--	--	--
CL2W-3S	--	<1	--	--	--
CL2W-6S	--	5	--	--	--
CL2W-7S	--	3	--	--	--
CL2W-8S	--	1	--	--	--
CL2W-9S	--	3	--	--	--
CL2W-10S	--	2	--	--	--
CL2W-11S	--	1	--	--	--
CL2W-12S	--	<1	--	--	--
CL2W-14S	--	3	--	--	--
CL0-3S	--	4	--	--	--
CL0-6S	--	1	--	--	--
CL0-7S	--	1	--	--	--
CL0-8S	--	2	--	--	--
CL0-9S	--	3	--	--	--
CL0-10S	--	2	--	--	--
CL0-11S	--	3	--	--	--
CL0-12S	--	1	--	--	--
CL0-12+55S	--	1	--	--	--
CL2E-4N	--	<1	--	--	--
CL2E-3N	--	5	--	--	--
CL2E-2N	--	5	--	--	--
CL2E-1N	--	3	--	--	--
CL2E-3L	--	4	--	--	--
CL2E-1S	--	4	--	--	--
CL2E-2S	--	3	--	--	--
CL2E-3S	--	5	--	--	--
CL2E-6S	--	3	--	--	--
CL2E-7S	--	2	--	--	--
CL2E-8S	--	2	--	--	--
CL2E-9S	--	1	--	--	--
CL2E-9+85S	--	4	--	--	--
CL4E-5N	--	4	--	--	--
CL4E-4N	--	4	--	--	--
CL4E-3N	--	7	--	--	--
CL4E-2N	--	3	--	--	--
CL4E-1N	--	3	--	--	--
CL4E-BL	--	<1	--	--	--
CL4E-1S	--	4	--	--	--
CL4E-2S	--	<1	--	--	--
CL4E-3S	--	6	--	--	--
CL4E-6S	--	3	--	--	--
CL4E-7S	--	3	--	--	--
CL6E-7N	--	6	--	--	--
CL6E-6N	--	2	--	--	--
CL6E-5N	--	5	--	--	--

SAMPLE	AU PPB	AU PPB	NI PPM	CU PPM	ZN PPM
CL6E-4N	--	2	--	--	--
CL6E-3N	--	9	--	--	--
CL6E-2N	--	3	--	--	--
CL6E-1N	--	8	--	--	--
CL6E-BL	--	4	--	--	--
CL6E-1S	--	6	--	--	--
CL6E-2S	--	7	--	--	--
CL6E-3S	--	3	--	--	--
CL6E-5+92S	--	3	--	--	--
CL8E-BN	--	4	--	--	--
CL8E-7N	--	4	--	--	--
CL8E-6N	--	5	--	--	--
CL8E-5N	--	10	--	--	--
CL8E-4N	--	7	--	--	--
CL8E-3N	--	3	--	--	--
CL8E-2N	--	6	--	--	--
CL8E-1N	--	9	--	--	--
CL8E-BL	--	8	--	--	--
CL8E-1S	--	8	--	--	--
CL8E-2S	--	3	--	--	--
CL8E-3S	--	2	--	--	--
CL10E-12N	--	4	--	--	--
CL10E-10N	--	2	--	--	--
CL10E-9N	--	2	--	--	--
CL10E-BN	--	5	--	--	--
CL10E-7N	--	1	--	--	--
CL10E-6N	--	2	--	--	--
CL10E-5N	--	6	--	--	--
CL10E-4N	--	2	--	--	--
CL10E-3N	--	1	--	--	--
CL10E-2N	--	5	--	--	--
CL10E-1N	--	5	--	--	--
CL10E-BL	--	4	--	--	--
CL10E-1S	--	4	--	--	--
CL10E-2S	--	3	--	--	--
CL12E-11N	--	5	--	--	--
CL12E-10N	--	3	--	--	--
CL12E-9N	--	5	--	--	--
CL12E-8N	--	1	--	--	--
CL12E-7N	--	5	--	--	--
CL12E-6N	--	<1	--	--	--
CL12E-5N	--	3	--	--	--
CL12E-4N	--	2	--	--	--
CL12E-3N	--	5	--	--	--
CL12E-2N	--	5	--	--	--
CL12E-1N	--	3	--	--	--
CL12E-BL	--	2	--	--	--
CL12E-1S	--	6	--	--	--
CL12E-2S	--	<1	--	--	--
CL14E-12N	--	5	--	--	--
CL14E-11N	--	7	--	--	--
CL14E-10N	--	5	--	--	--
CL14E-9N	--	1	--	--	--
CL14E-8N	--	6	--	--	--
CL14E-7N	--	4	--	--	--
CL14E-6N	--	2	--	--	--

SAMPLE	AU PPB	AU PPB	NI PPM	CU PPM	ZN PPM
CL14E-5N	--	1	--	--	--
CL14E-4N	--	3	--	--	--
CL14E-3N	--	5	--	--	--
CL14E-2N	--	5	--	--	--
CL14E-1N	--	3	--	--	--
CL14E-BL	--	7	--	--	--
CL14E-1S	--	3	--	--	--
CL14E-2S	--	3	--	--	--
CL14E-5S	--	<1	--	--	--
CL14E-6S	--	1	--	--	--
CL16E-13N	--	1	--	--	--
CL16E-12N	--	NH	--	--	--
CL16E-11N	--	5	--	--	--
CL16E-10N	--	130	--	--	--
CL16E-9N	--	47	--	--	--
CL16E-3N	--	8	--	--	--
CL16E-7N	--	4	--	--	--
CL16E-5M	--	3	--	--	--
CL16E-5N	--	7	--	--	--
CL16E-4N	--	2	--	--	--
CL16E-3N	--	5	--	--	--
CL16E-2N	--	4	--	--	--
CL16E-1N	--	5	--	--	--
CL16E-BL	--	4	--	--	--
CL16E-1S	--	11	--	--	--
CL16E-2S	--	3	--	--	--
CL16E-4S	--	2	--	--	--
CL16E-5S	--	1	--	--	--
CL16E-6S	--	3	--	--	--
CL18E-10N	--	4	--	--	--
CL18E-9N	--	6	--	--	--
CL18E-5N	--	4	--	--	--
CL18E-5N	--	6	--	--	--
CL18E-3N	--	3	--	--	--
CL18E-2N	--	2	--	--	--
CL18E-1N	--	2	--	--	--
CL18E-BL	--	5	--	--	--
CL18E-1S	--	6	--	--	--
CL18E-4S	--	3	--	--	--
CL18E-5S	--	3	--	--	--
CL18E-6S	--	<1	--	--	--
CL18E-7S	--	3	--	--	--
CL18E-8S	--	4	--	--	--
CL18E-8+80S	--	1	--	--	--
CL20E-14N	--	7	--	--	--
CL20E-13N	--	6	--	--	--
CL20E-12N	--	3	--	--	--
CL20E-9N	--	5	--	--	--
CL20E-7N	--	3	--	--	--
CL20E-6N	--	4	--	--	--
CL20E-5N	--	2	--	--	--
CL20E-4N	--	3	--	--	--
CL20E-3N	--	6	--	--	--
CL20E-2N	--	1	--	--	--
CL20E-1N	--	3	--	--	--
CL20E-BL	--	6	--	--	--

SAMPLE	AU PPB	AU PPB	NI PPM	CU PPM	ZN PPM
CL20E-3S	--	1	--	--	--
CL20E-4S	--	2	--	--	--
CL20E-5S	--	1	--	--	--
CL20E-6S	--	5	--	--	--
CL20E-7S	--	2	--	--	--
CL20E-8S	--	<1	--	--	--
CL20E-3+85S	--	2	--	--	--
CL22E-13N	--	6	--	--	--
CL22E-11N	--	4	--	--	--
CL22E-6N	--	1	--	--	--
CL22E-5N	--	2	--	--	--
CL22E-4N	--	<1	--	--	--
CL22E-3N	--	3	--	--	--
CL22E-2N	--	1	--	--	--
CL22E-1N	--	4	--	--	--
CL22E-3S	--	2	--	--	--
CL22E-4S	--	1	--	--	--
CL22E-5S	--	<1	--	--	--
CL22E-6S	--	<1	--	--	--
CL22E-7S	--	1	--	--	--
CL22E-8S	--	1	--	--	--
CL24E-14N	--	1	--	--	--
CL24E-12N	--	2	--	--	--
CL24E-3N	--	3	--	--	--
CL24E-7N	--	4	--	--	--
CL24E-6N	--	5	--	--	--
CL24E-5N	--	5	--	--	--
CL24E-4N	--	3	--	--	--
CL24E-2S	--	2	--	--	--
CL24E-7S	--	3	--	--	--
CL26E-15N	--	7	--	--	--
CL26E-14N	--	1	--	--	--
CL26E-3N	--	3	--	--	--
CL26E-7N	--	3	--	--	--
CL26E-6N	--	4	--	--	--
CL26E-5N	--	6	--	--	--
CL26E-4N	--	1	--	--	--
CL26E-3S	--	2	--	--	--
CL26E-4S	--	4	--	--	--
CL26E-5S	--	1	--	--	--
CL26E-6S	--	1	--	--	--
CL26E-7S	--	2	--	--	--
CL28E-9N	--	29	--	--	--
CL28E-6N	--	2	--	--	--
CL28E-3N	--	6	--	--	--
CL28E-3L	--	<1	--	--	--
CL28E-1S	--	<1	--	--	--
CL28E-2S	--	2	--	--	--
CL28E-3S	--	2	--	--	--
CL28E-4S	--	3	--	--	--
CL28E-5S	--	1	--	--	--
CL28E-6S	--	2	--	--	--
CL28E-7S	--	2	--	--	--
CL28E-8S	--	4	--	--	--
CL30E-19N	--	4	--	--	--
CL30E-10N	--	2	--	--	--

SAMPLE	AU PPB	AU PPB	NI PPM	CU PPM	ZN PPM
CL30E-9N	--	3	--	--	--
CL30E-8N	--	1	--	--	--
CL30E-1N	--	NH	--	--	--
CL30E-3L	--	4	--	--	--
CL30E-1S	--	6	--	--	--
CL30E-2S	--	<1	--	--	--
CL30E-3S	--	2	--	--	--
CL30E-4S	--	<1	--	--	--
CL30E-5S	--	3	--	--	--
CL30E-6S	--	1	--	--	--
CL30E-7S	--	2	--	--	--
CL30E-9S	--	1	--	--	--
CL32E-18N	--	10	--	--	--
CL32E-17N	--	7	--	--	--
CL32E-16N	--	4	--	--	--
CL32E-15N	--	8	--	--	--
CL32E-14N	--	8	--	--	--
CL32E-13N	--	4	--	--	--
CL32E-12N	--	6	--	--	--
CL32E-11N	--	5	--	--	--
CL32E-10N	--	1	--	--	--
CL32E-7N	--	NH	--	--	--
CL32E-5N	--	<1	--	--	--
CL32E-3N	--	2	--	--	--
CL32E-2N	--	4	--	--	--
CL32E-1N	--	4	--	--	--
CL32E-3L	--	4	--	--	--
CL32E-1S	--	3	--	--	--
CL32E-2S	--	5	--	--	--
CL32E-3S	--	3	--	--	--
CL32E-4S	--	1	--	--	--
CL32E-5S	--	1	--	--	--
CL32E-6S	--	1	--	--	--
CL32E-7S	--	2	--	--	--
CL34E-4N	--	3	--	--	--
CL34E-3N	--	<1	--	--	--
CL34E-2N	--	4	--	--	--
CL34E-1N	--	1	--	--	--
CL34E-3L	--	2	--	--	--
CL34E-1S	--	5	--	--	--
CL34E-2S	--	4	--	--	--
CL34E-4S	--	4	--	--	--
CL34E-5S	--	1	--	--	--
CL34E-6S	--	<1	--	--	--
CL34E-7S	--	3	--	--	--
CL34E-8S	--	2	--	--	--

As (ppm)

~~AS (PPM)~~

2	--	--	--	--
3	--	--	--	--
4	--	--	--	--
5	--	--	--	--
6	--	--	--	--
C3+63N-14W	--	5	--	--
C16W-10N	--	3	--	--
C16W-9N	--	3	--	--
C16W-8N	--	4	--	--
C15+50W-9+50N	--	4	--	--
C15+50W-8+50N	--	4	--	--
C15W-10N	--	5	--	--
C15W-9N	--	3	--	--
C15W-8N	--	4	--	--
C14+50W-10+50N	--	7	--	--

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SAMPLE	AS PPM	AS PPM	AG PPM	SB PPM
C14+50W-9+50N	--	4	--	--
C14+50W-8+50N	--	3	--	--
C14+50W-7+50N	--	4	--	--
C14W-10N	--	3	--	--
C14W-9N	--	6	--	--
C14W-8N	--	2	--	--
C13+50W-10+50N	--	4	--	--
C13+50W-9+50N	--	4	--	--
C13+50W-8+50N	--	4	--	--
C13+50W-7+50N	--	3	--	--
C13W-10N	--	5	--	--
C13W-9N	--	4	--	--
C13W-8N	--	2	--	--
C12+50W-9+50N	--	7	--	--
C12+50W-8+50N	--	5	--	--
C12W-10N	--	6	--	--
C12W-9N	--	6	--	--
C12W-8N	--	4	--	--
CL12W-1S	--	NH	--	--
CL12W-2S	--	NH	--	--
CL12W-3S	--	NH	--	--
CL12W-4S	--	2	--	--
CL12W-5S	--	NH	--	--
CL12W-11S	--	30	--	--
CL12W-12S	--	9	--	--
CL12W-13S	--	3	--	--
CL12W-14S	--	4	--	--
CL12W-15S	--	4	--	--
CL12W-16S	--	4	--	--
CL12W-17S	--	5	--	--
CL12W-18S	--	8	--	--
CL12W-19S	--	8	--	--
CL12W-19+48S	--	5	--	--
CL10W-1S	--	6	--	--
CL10W-2S	--	2	--	--
CL10W-3S	--	3	--	--
CL10W-9S	--	11	--	--
CL10W-10S	--	10	--	--
CL10W-11S	--	7	--	--
CL8W-2S	--	13	--	--
CL8W-3S	--	3	--	--
CL8W-4S	--	NH	--	--
CL8W-9S	--	3	--	--
CL8W-10S	--	5	--	--
CL8W-11S	--	3	--	--
CL8W-12S	--	7	--	--
CL8W-13S	--	6	--	--
CL8W-14S	--	6	--	--
CL8W-14+43S	--	6	--	--
CL6W-2S	--	NH	--	--
CL6W-3S	--	NH	--	--
CL6W-6S	--	2	--	--
CL6W-8S	--	4	--	--
CL6W-9S	--	6	--	--
CL6W-10S	--	3	--	--
CL6W-11S	--	2	--	--

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SAMPLE	AS PPM	AS PPM	AG PPM	SB PPM
CL6W-13S	--	2	--	--
CL6W-14S	--	4	--	--
CL6W-15S	--	7	--	--
CL6W-16+40S	--	7	--	--
CL4W-2S	--	4	--	--
CL4W-3S	--	NH	--	--
CL4W-10S	--	4	--	--
CL4W-13S	--	6	--	--
CL4W-14S	--	6	--	--
CL4W-15S	--	4	--	--
CL2W-2S	--	4	--	--
CL2W-3S	--	2	--	--
CL2W-6S	--	4	--	--
CL2W-7S	--	2	--	--
CL2W-8S	--	1	--	--
CL2W-9S	--	1	--	--
CL2W-10S	--	2	--	--
CL2W-11S	--	1	--	--
CL2W-12S	--	1	--	--
CL2W-14S	--	2	--	--
CL0-3S	--	4	--	--
CL0-6S	--	1	--	--
CL0-7S	--	1	--	--
CL0-8S	--	2	--	--
CL0-9S	--	2	--	--
CL0-10S	--	1	--	--
CL0-11S	--	2	--	--
CL0-12S	--	2	--	--
CL0-12+5AS	--	2	--	--
CL2E-4N	--	3	--	--
CL2E-3N	--	2	--	--
CL2E-2N	--	4	--	--
CL2E-1N	--	6	--	--
CL2E-3L	--	5	--	--
CL2E-1S	--	4	--	--
CL2E-2S	--	2	--	--
CL2E-3S	--	4	--	--
CL2E-6S	--	3	--	--
CL2E-7S	--	2	--	--
CL2E-8S	--	2	--	--
CL2E-9S	--	2	--	--
CL2E-9+35S	--	3	--	--
CL4E-5N	--	2	--	--
CL4E-4N	--	4	--	--
CL4E-3N	--	4	--	--
CL4E-2N	--	2	--	--
CL4E-1N	--	4	--	--
CL4E-3L	--	4	--	--
CL4E-1S	--	5	--	--
CL4E-2S	--	3	--	--
CL4E-3S	--	7	--	--
CL4E-6S	--	3	--	--
CL4E-7S	--	3	--	--
CL6E-7N	--	2	--	--
CL6E-6N	--	3	--	--
CL6E-5N	--	6	--	--

X-RAY ASSAY LABORATORIES 26-JUL-83 REPORT 18334 REF. FILE 13965-B2 PAGE 11

SAMPLE	AS PPM	AS PPM	AG PPM	SB PPM
CL6E-4N	--	3	--	--
CL6E-3N	--	4	--	--
CL6E-2N	--	3	--	--
CL6E-1N	--	8	--	--
CL6E-3L	--	6	--	--
CL6E-1S	--	6	--	--
CL6E-2S	--	4	--	--
CL6E-3S	--	4	--	--
CL6E-5+92S	--	3	--	--
CL8E-8N	--	4	--	--
CL8E-7N	--	3	--	--
CL8E-6N	--	4	--	--
CL8E-5N	--	4	--	--
CL8E-4N	--	3	--	--
CL8E-3N	--	3	--	--
CL8E-2N	--	4	--	--
CL8E-1N	--	6	--	--
CL8E-3L	--	5	--	--
CL8E-1S	--	4	--	--
CL8E-2S	--	1	--	--
CL8E-3S	--	2	--	--
CL10E-12N	--	6	--	--
CL10E-10N	--	5	--	--
CL10E-9N	--	2	--	--
CL10E-8N	--	4	--	--
CL10E-7N	--	3	--	--
CL10E-6N	--	3	--	--
CL10E-5N	--	4	--	--
CL10E-4N	--	1	--	--
CL10E-3N	--	3	--	--
CL10E-2N	--	4	--	--
CL10E-1N	--	3	--	--
CL10E-3L	--	5	--	--
CL10E-1S	--	3	--	--
CL10E-2S	--	5	--	--
CL12E-11N	--	6	--	--
CL12E-10N	--	4	--	--
CL12E-9N	--	4	--	--
CL12E-8N	--	3	--	--
CL12E-7N	--	2	--	--
CL12E-6N	--	2	--	--
CL12E-5N	--	4	--	--
CL12E-4N	--	2	--	--
CL12E-3N	--	4	--	--
CL12E-2N	--	4	--	--
CL12E-1N	--	4	--	--
CL12E-3L	--	1	--	--
CL12E-1S	--	3	--	--
CL12E-2S	--	2	--	--
CL14E-12N	--	4	--	--
CL14E-11N	--	5	--	--
CL14E-10N	--	3	--	--
CL14E-9N	--	7	--	--
CL14E-8N	--	5	--	--
CL14E-7N	--	3	--	--
CL14E-6N	--	6	--	--

X-RAY ASSAY LABORATORIES 26-JUL-83 REPORT 18334 REF. FILE 13965-B2 PAGE 12

SAMPLE	AS PPM	AS PPM	AG PPM	SB PPM
CL14E-5N	--	2	--	--
CL14E-4N	--	3	--	--
CL14E-3N	--	3	--	--
CL14E-2N	--	3	--	--
CL14E-1N	--	2	--	--
CL14E-BL	--	2	--	--
CL14E-1S	--	3	--	--
CL14E-2S	--	3	--	--
CL14E-5S	--	2	--	--
CL14E-6S	--	3	--	--
CL16E-13N	--	1	--	--
CL16E-12N	--	NH	--	--
CL16E-11N	--	5	--	--
CL16E-10N	--	4	--	--
CL16E-9N	--	4	--	--
CL16E-3N	--	5	--	--
CL16E-7N	--	6	--	--
CL16E-6N	--	5	--	--
CL16E-5N	--	4	--	--
CL16E-4N	--	3	--	--
CL16E-3N	--	3	--	--
CL16E-2N	--	3	--	--
CL16E-1N	--	4	--	--
CL16E-BL	--	3	--	--
CL16E-1S	--	6	--	--
CL16E-2S	--	2	--	--
CL16E-4S	--	4	--	--
CL16E-5S	--	2	--	--
CL16E-6S	--	1	--	--
CL16E-10N	--	4	--	--
CL16E-9N	--	2	--	--
CL16E-6N	--	3	--	--
CL16E-5N	--	5	--	--
CL16E-3N	--	4	--	--
CL16E-2N	--	2	--	--
CL16E-1N	--	3	--	--
CL16E-BL	--	3	--	--
CL16E-1S	--	4	--	--
CL16E-4S	--	4	--	--
CL16E-5S	--	2	--	--
CL16E-6S	--	2	--	--
CL16E-7S	--	3	--	--
CL16E-8S	--	5	--	--
CL16E-8+80S	--	1	--	--
CL20E-14N	--	4	--	--
CL20E-13N	--	5	--	--
CL20E-12N	--	3	--	--
CL20E-9N	--	5	--	--
CL20E-7N	--	3	--	--
CL20E-6N	--	4	--	--
CL20E-5N	--	4	--	--
CL20E-4N	--	4	--	--
CL20E-3N	--	4	--	--
CL20E-2N	--	3	--	--
CL20E-1N	--	3	--	--
CL20E-BL	--	7	--	--

SAMPLE	AS PPM	AS PPM	AG PPM	SB PPM
CL20E-3S	--	1	--	--
CL20E-4S	--	1	--	--
CL20E-5S	--	1	--	--
CL20E-6S	--	3	--	--
CL20E-7S	--	3	--	--
CL20E-8S	--	2	--	--
CL20E-8+35S	--	4	--	--
CL22E-13N	--	5	--	--
CL22E-11N	--	3	--	--
CL22E-6N	--	1	--	--
CL22E-5N	--	3	--	--
CL22E-4N	--	2	--	--
CL22E-3N	--	3	--	--
CL22E-2N	--	2	--	--
CL22E-1N	--	2	--	--
CL22E-3S	--	2	--	--
CL22E-4S	--	2	--	--
CL22E-5S	--	2	--	--
CL22E-6S	--	2	--	--
CL22E-7S	--	2	--	--
CL22E-8S	--	2	--	--
CL24E-14N	--	2	--	--
CL24E-12N	--	2	--	--
CL24E-8N	--	5	--	--
CL24E-7N	--	3	--	--
CL24E-6N	--	4	--	--
CL24E-5N	--	2	--	--
CL24E-4N	--	2	--	--
CL24E-2S	--	3	--	--
CL2+E-7S	--	2	--	--
CL26E-15N	--	4	--	--
CL26E-14N	--	4	--	--
CL26E-3N	--	3	--	--
CL26E-7N	--	2	--	--
CL26E-6N	--	4	--	--
CL26E-5N	--	4	--	--
CL26E-4N	--	4	--	--
CL26E-3S	--	3	--	--
CL26E-4S	--	4	--	--
CL26E-5S	--	1	--	--
CL26E-6S	--	3	--	--
CL26E-7S	--	3	--	--
CL28E-9W	--	4	--	--
CL28E-6N	--	4	--	--
CL28E-3N	--	6	--	--
CL28E-3L	--	2	--	--
CL28E-1S	--	2	--	--
CL28E-2S	--	3	--	--
CL28E-3S	--	2	--	--
CL28E-4S	--	3	--	--
CL28E-5S	--	2	--	--
CL28E-6S	--	2	--	--
CL28E-7S	--	3	--	--
CL28E-8S	--	2	--	--
CL30E-19N	--	4	--	--
CL30E-10N	--	2	--	--

X-RAY ASSTY LABORATORIES 26-JUL-83 REPORT 18334 REF. FILE 13965-B2 PAGE 14

SAMPLE	AS PPM	AS PPM	AG PPM	SB PPM
CL30E-9N	--	3	--	--
CL30E-3N	--	1	--	--
CL30E-1N	--	NH	--	--
CL30E-3L	--	3	--	--
CL30E-1S	--	3	--	--
CL30E-2S	--	1	--	--
CL30E-3S	--	2	--	--
CL30E-4S	--	1	--	--
CL30E-5S	--	3	--	--
CL30E-6S	--	1	--	--
CL30E-7S	--	4	--	--
CL30E-9S	--	2	--	--
CL32E-18N	--	4	--	--
CL32E-17N	--	5	--	--
CL32E-16N	--	4	--	--
CL32E-15N	--	4	--	--
CL32E-14N	--	4	--	--
CL32E-13N	--	3	--	--
CL32E-12N	--	6	--	--
CL32E-11N	--	5	--	--
CL32E-10N	--	3	--	--
CL32E-7N	--	NH	--	--
CL32E-5N	--	3	--	--
CL32E-3N	--	1	--	--
CL32E-2N	--	2	--	--
CL32E-1N	--	2	--	--
CL32E-3L	--	1	--	--
CL32E-1S	--	3	--	--
CL32E-2S	--	2	--	--
CL32E-3S	--	1	--	--
CL32E-4S	--	1	--	--
CL32E-5S	--	1	--	--
CL32E-6S	--	1	--	--
CL32E-7S	--	1	--	--
CL34E-4N	--	4	--	--
CL34E-3N	--	1	--	--
CL34E-2N	--	<1	--	--
CL34E-1N	--	1	--	--
CL34E-3L	--	2	--	--
CL34E-1S	--	3	--	--
CL34E-2S	--	1	--	--
CL34E-4S	--	3	--	--
CL34E-5S	--	2	--	--
CL34E-6S	--	1	--	--
CL34E-7S	--	2	--	--
CL34E-8S	--	2	--	--

NH - NOT HUMUS

TABLE II

Whole Rock Analytical Results

X-RAY ASSAY LABORATORIES		26-JUL-83		REPORT 18334		REFERENCE FILE 13965		PAGE 1						
SAMPLE		SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	Fe ₂ O ₃	MnO	TiO ₂	P ₂ O ₅	Cr ₂ O ₃	LOT	SUM
R-40		37.3	2.61	0.81	37.4	0.13	0.01	8.49	0.06	0.12	0.01	0.31	12.9	100.2
R-42		70.3	13.2	0.64	1.92	4.15	1.56	5.80	0.04	0.65	0.12	<0.01	1.77	100.2
R-43		75.0	12.9	0.64	0.60	7.79	0.34	0.70	<0.01	0.66	0.12	0.01	0.70	99.5
R-44		55.5	14.4	7.44	4.84	3.83	0.27	8.58	0.25	0.81	0.07	0.19	4.28	100.5
R-45		53.5	13.4	8.16	4.77	5.45	0.32	9.27	0.26	0.62	0.04	0.18	3.77	100.0
R-46		50.0	13.6	6.14	5.40	3.62	0.97	15.3	0.32	1.51	0.16	0.01	2.70	99.9

X-RAY ASSAY LABORATORIES

26-JUL-83

REPORT 18334 REFERENCE FILE 13965

PAGE 2

SAMPLE	RR	SR	ZR	BA
10 (R-40)	10	<10	<10	110
42	70	60	270	290
43	<10	60	230	100
44	<10	210	40	120
45	<10	90	30	70
46	30	370	110	350

TABLE III

Bedrock Assay Results

X-RAY ASSAY LABORATORIES 26-JUL-83 REPORT 18334 REF. FILE 13965-B2 PAGE 1

SAMPLE	AU PPB	AU PPB	NI PPM	CU PPM	ZN PPM
R-1	13	--	5	7.5	55.0
R-2	5	--	5	5.5	4.0
R-3	<2	--	24	1.5	43.0
R-4	26	--	16	14.0	74.0
R-5	2	--	4	3.0	17.0
R-7	15	--	810	130.	360.
R-8	6	--	580	120.	170.
R-9	14	--	350	19.0	73.0
R-10	7	--	17	21.0	27.0
R-11	4	--	530	98.0	97.0
R-12	<2	--	400	74.0	170.
R-13	5	--	49	32.0	<0.5
R-14	<2	--	6	6.5	10.0
R-15	<2	--	7	520.	23.0
R-16	<2	--	5	14.0	7.0
R-17	2	--	2300	2.0	12.0
R-18	<2	--	59	2.0	45.0
R-19	5	--	60	6.0	31.0
R-20	2	--	210	18.0	5.5
R-21	16	--	190	69.0	58.0
R-22	4	--	120	70.0	87.0
R-23	<2	--	6	12.0	8.5
R-24	23	--	29	29.0	61.0
R-25	<2	--	53	51.0	100.
R-26	14	--	37	7.0	11.0
R-27	23	--	14	11.0	8.5
R-28	21	--	180	160.	120.
R-29	4	--	470	6.0	110.
R-30	27	--	66	85.0	35.0
R-31	11	--	5	0.0	24.0
R-32	12	--	8	10.0	52.0
R-33	<2	--	460	100.	75.0
R-34	<2	--	440	130.	220.
R-35	3	--	1100	130.	57.0
R-36	11	--	140	150.	270.
R-37	41	--	160	150.	150.
R-38	6	--	260	160.	66.0
R-39	<2	--	770	110.	62.0
R-40	--	--	--	--	--
R-41	2	--	58	23.0	32.0
R-42	--	--	--	--	--
R-43	--	--	--	--	--
R-44	--	--	--	--	--
R-45	--	--	--	--	--
R-46	--	--	--	--	--

SAMPLE	AS PPM	AS PPM	AG PPM	SB PPM
R-1	14.0	--	<0.5	<0.1
R-2	4.7	--	<0.5	<0.1
R-3	2.1	--	<0.5	<0.1
R-4	5.2	--	<0.5	<0.1
R-5	2.4	--	<0.5	<0.1
R-7	88.0	--	0.5	<0.1
R-8	4.0	--	0.5	<0.1
R-9	19.0	--	0.5	<0.1
R-10	35.0	--	<0.5	0.2
R-11	13.0	--	0.5	0.3
R-12	10.0	--	0.5	0.1
R-13	33.0	--	<0.5	0.7
R-14	2.6	--	<0.5	<0.1
R-15	1.9	--	<0.5	<0.1
R-16	1.0	--	<0.5	<0.1
R-17	2.6	--	<0.5	<0.1
R-18	0.4	--	<0.5	<0.1
R-19	0.3	--	0.5	<0.1
R-20	1.4	--	1.0	<0.1
R-21	1.6	--	<0.5	<0.1
R-22	0.4	--	0.5	<0.1
R-23	1.2	--	2.0	0.1
R-24	0.5	--	<0.5	<0.1
R-25	0.7	--	<0.5	<0.1
R-26	0.6	--	<0.5	<0.1
R-27	0.7	--	<0.5	<0.1
R-28	3.1	--	1.0	0.1
R-29	2.1	--	0.5	<0.1
R-30	8.7	--	0.5	<0.1
R-31	0.2	--	<0.5	<0.1
R-32	0.5	--	<0.5	<0.1
R-33	1.9	--	0.5	<0.1
R-34	11.0	--	0.5	0.2
R-35	260.	--	<0.5	0.1
R-36	3.5	--	0.5	0.1
R-37	7.0	--	0.5	0.2
R-38	22.0	--	0.5	0.1
R-39	3.8	--	0.5	0.2
R-40	--	--	--	--
R-41	0.4	--	<0.5	<0.1
R-42	--	--	--	--
R-43	--	--	--	--
R-44	--	--	--	--
R-45	--	--	--	--
R-46	--	--	--	--

XRAL

July 26, 1983

**X-RAY ASSAY LABORATORIES
LIMITED**

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO:

Carlo

VOICE TO

D. R. PYKE & ASSOCIATES
ATTN. D. R. PYKE
P. O. BOX 1163
TIMMINS, ONTARIO
P4N 7HS

SUBMITTED TO:

D. R. PYKE & ASSOCIATES
ATTN: D. R. PYKE
P. O. BOX 1163
TIMMINS, ONTARIO
P4N 7HS

CUSTOMER NO 754

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
18334	26-JUL-83	13965	5-JUL-83

TERMS

TERMS NET 30 DAYS

1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

ITEMS P.O. NO	CLIENT PROJECT NO	TYPE OF SAMPLES SUBMITTED
		ROCK HUMUS

NO. OF PKGS 6 BOXES	SHIPPED VIA SMALL FRT	WAY BILL NO 44075	SHIPPED FROM TIMMINS

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 6	WHOLE ROCK C21	6, 0, 0, 0, 0	27.50	165.00
2. 39	AU FADCP	10, 7, 0, 0, 0	6.50	253.50
3. 325	AU PPB NA	20, 2, 0, 0, 0	6.50	2112.50
4. 325	AS PPM NA	20, 0, 0, 0, 0	1.00	325.00
5. 39	1ST ELEMENT CHARGE DCP	7, 0, 0, 0, 0	1.25	48.75
6. 39	NI PPM DCP	7, 0, 0, 0, 0	0.90	35.10
7. 39	CU PPM DCP	7, 0, 0, 0, 0	0.90	35.10
8. 39	ZN PPM DCP	7, 0, 0, 0, 0	0.90	35.10
9. 39	AG PPM DCP	7, 0, 0, 0, 0	0.90	35.10
10. 39	1ST ELEMENT CHARGE FAA	8, 0, 0, 0, 0	3.50	136.50
11. 39	AS PPM FAA	8, 0, 0, 0, 0	2.00	78.00
12. 39	SB PPM FAA	8, 0, 0, 0, 0	2.00	78.00
13. 6	BA PPM XRF	6, 0, 0, 0, 0	5.50	33.00
14. 45	PREPARATION ROCK	1, 0, 0, 0, 0	2.75	123.75
15. 336	PREPARATION HUMUS OR LEAVES	2, 0, 0, 0, 0	0.70	235.20

X-RAY ASSAY LABORATORIES LTD.
Paid in full
Accounts Receivable Dept.
Jnayn.

MISC. CHARGES	SHIPPING CHARGES 33.55	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES	\$ 33.55
	OTHER			SURCHARGE - RUSH SERVICE	

OFFICE COPY —

ENTERED AUG 3 1983

TOTAL IN	CANADIAN FUNDS	\$ 3763.15
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TECHNICAL WORK BREAKDOWN

Humus Sampling - performed by Mr. Jim Bald, 153 Leighton St,
South Porcupine, Ontario

8-hour days worked : 5

June 7, 8, 19, 20, 21, 1983

Drafting - performed by Jim Bald (address as above)

8 - hour days worked: 4

June 10, 23, July 4, 7, 1983

Total 8 - hour days technical worked: 9

Total assessment credits accumulated for technical days
worked - 63



41P15NE8324 2.9273 CAIRO

900

Mining Lands Section

File No 2.9273

Control Sheet

- TYPE OF SURVEY
- GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

Signature of Assessor

T.S.
T.S. Log.

Date

July 28/86



Ontario

REPORT OF WORK
**(Geophysical, Geological,
Geochemical and Expenditures)**

The Mining Act

207/86 July 29/13/86

Note:

- If number of mining claims traversed exceeds space on this form, attach a list.
- Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Type of Survey	Geological (Expenditure)		Township or Area																		
Claim Holder(s)	Comstate Resources Ltd.		Prospector's Licence No.																		
Address	P.O. Box 1142 Timmins Ontario Pdn 7H9																				
Survey Company	Comstate Resources	Date of Survey (from & to)	Total Miles of line Cut																		
Name and Address of Author (of Geo-Technical report)	R. BALD, D. PYKE P.O. Box 1142 Timmins Ont. Pdn 7H9																				
Credits Requested per Each Claim in Columns at right																					
Special Provisions	Geophysical	Days per Claim	Mining Claims Traversed (List in numerical sequence)																		
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic - Magnetometer - Radiometric - Other		<table border="1"> <tr><td>L</td><td>650117</td><td>50.7</td></tr> <tr><td></td><td>650118</td><td>50.7</td></tr> <tr><td></td><td>650131</td><td>14.7</td></tr> <tr><td>X</td><td>650132</td><td>33.37</td></tr> <tr><td></td><td>757832</td><td>50.7</td></tr> <tr><td></td><td>757833</td><td>50.7</td></tr> </table>	L	650117	50.7		650118	50.7		650131	14.7	X	650132	33.37		757832	50.7		757833	50.7
L	650117	50.7																			
	650118	50.7																			
	650131	14.7																			
X	650132	33.37																			
	757832	50.7																			
	757833	50.7																			
For each additional survey: using the same grid: Enter 20 days (for each)	Geological Geochemical																				
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim																			
	- Electromagnetic - Magnetometer - Radiometric - Other																				
	Geological																				
	Geochemical																				
		10.5																			
Airborne Credits	Electromagnetic Magnetometer Radiometric	Days per Claim																			
Note: Special provisions credits do not apply to Airborne Surveys.																					
Expenditures (excludes power stripping)																					
Type of Work Performed	Soil-11-13 Humus & Bedrock (Analyses)																				
Performed on Claim(s)	L561730, 650116, 650131, 650134																				
650133, 650117, 650118, 757832, 757833																					
Calculation of Expenditure Days Credits																					
Total Expenditures	\$ 3763.15 ÷ 15 = 250.87		Total Days Credits																		
Instructions																					
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.																					
Date	MAY 28/86	Recorded Holder or Agent (Signature)	D.R. Pyke																		
Certification Verifying Report of Work																					
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.																					
Name and Postal Address of Person Certifying																					
D. R. PYKE, P.O. Box 1142 Timmins ONTARIO Pdn 7H9		Date Certified	Certified by (Signature)																		
		May 28/86	D.R. Pyke																		

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey						
----------------	--	--	--	--	--	--

Technical Days	Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim	
<input type="text" value="9"/>	<input type="text" value="7"/>	<input type="text" value="63"/>	<input type="text"/>	<input type="text" value="63"/>	<input type="text" value="6"/>	<input type="text" value="10.5"/>

Type of Survey						
----------------	--	--	--	--	--	--

Technical Days	Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
<input type="text"/>	<input type="text" value="7"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Type of Survey						
----------------	--	--	--	--	--	--

Technical Days	Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
<input type="text"/>	<input type="text" value="7"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Type of Survey						
----------------	--	--	--	--	--	--

Technical Days	Technical Days Credits	Line-cutting Days	Total Credits	No. of Claims	Days per Claim
<input type="text"/>	<input type="text" value="7"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Ministry of Natural Resources

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENTTO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.Type of Survey(s) Geochemical (Expenditure)Township or Area CairoClaim Holder(s) Cominco ResourcesLtdSurvey Company Cominco ResourcesAuthor of Report R. BAIRD, D. PykeAddress of Author P.O. Box 1142 Timmins P.A.N. TH9Covering Dates of Survey JUNE 83 - MAY 85
(linecutting to office)Total Miles of Line Cut 21.8MINING CLAIMS TRAVESED
List numericallyL 650117(prefix) (number)L 650118L 650131L 650132L 757832L 757833

SPECIAL PROVISIONS	DAYS
CREDITS REQUESTED	per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical
	-Electromagnetic _____
	-Magnetometer _____
	-Radiometric _____
	-Other _____
ENTER 20 days for each additional survey using same grid.	Geological _____
	Geochemical _____

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)DATE: May 11/85 SIGNATURE: WR Pyke
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder
.....
.....
.....
.....
.....

TOTAL CLAIMS 6

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION

RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

 - Off time _____ Range _____

 - Delay time _____

 - Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth - include outcrop map)**OTHERS (SEISMIC, DRILL, WELL LOGGING ETC.)**

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken 1361730, 1650116, 1650131,
1650134, 1650133, 1650117, 1650118, 1751832,
1751833

336 - Horizons

Total Number of Samples 45 Bedrock

Type of Sample Alluvium); Bedrock chips
 (Nature of Material)

Average Sample Weight Horizon - 25 grams
Bedrock - 400-500 grams

Method of Collection

Horizon - Gravitec
Bedrock - 3 lb. sledge

Soil Horizon Sampled No

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development fair to good

Estimated Range of Overburden Thickness 0 - 10 feet

ANALYTICAL METHODS

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

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

Others _____

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 _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

General _____

August 22, 1986

Your File 207/86
Our File 2.9273

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Madam:

RE: Notice of Intent dated August 1, 1986
Geochemical Survey and Data for Assaying
on Mining Claims L 561730, et al, in
Cairo Township

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Comstake Resources Ltd
P.O. Box 1142
Timmins, Ontario
P4N 7H9
Attention: D.R. Pyke

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Kirkland Lake, Ontario

Encl.



Ministry of
Northern Development
and Mines

Technical Assessment
Work Credits

File

2.9273

Date

August 1, 1986

Mining Recorder's Report of
Work No.

207/86

Recorded Holder

COMSTATE RESOURCES LTD

Township or Area

CAIRO TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical 15 days	L 650117-18 650131 757832-33
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input checked="" type="checkbox"/>
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey

insufficient technical data filed

L 650132

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

Aug 18/86

Ministry of
Northern Development
and Mines

August 1, 1986

Your File: 207/86
Our File: 2.9273

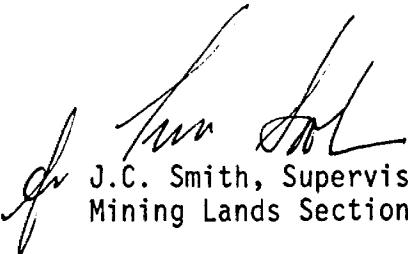
Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,


J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Q.F-DK/mc

Encl.

cc: Comstate Resources Ltd
P.O. Box 1142
Timmis, Ontario
P4N 7H9
Attention: D.R. Pyke

Mr: G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Northern Development
and Mines

Notice of Intent
for Technical Reports

August 1, 1986

2.9273/207/86

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

July 22, 1986

Report of Work #207

Comstate Resources Ltd
P.O. Box 1142
Timmins, Ontario
P4N 7H9

Attention: D.R. Pyke

Dear Sir:

RE: Mining Claims L 650117, et al,
in Cairo Township

We have not received the Data and Maps (in duplicate)
for the Analytical Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the
Mining Recorder on May 30, 1986 the 60 day period
allowed by Section 77 of the Mining Act for the submission
of the technical reports and maps to this office will
expire on July 29, 1986.

If the material is not submitted to this office by July 29,
1986 we will have no alternative but to instruct the Mining
Recorder to delete the work credits from the claim record
sheets.

For further information, please contact Mr. Arthur Barr at
(416)965-4888.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

AB/mc
cc: Mining Recorder
Kirkland Lake, Ontario

Encl.

- 336 Humus samples taken over
9 claims, or >37 samples/claim on
average.

650117	✓
18	✓
131	3/4
32	0
757832	3/4
33	✓

PRORATE:
 $(20 \times 5) \div (5 + 6\frac{1}{4}) = \frac{15\frac{1}{4}}{\text{days}}$
(Under Special
Provisions)

DK.



Ministry of
Northern Development
and Mines

**Technical Assessment
Work Credits**

File

2.9273

Date

Mining Recorder's Report of
Work No.

August 1, 1986

207/86

Recorded Holder

COMSTATE RESOURCES LTD

Township or Area

CAIRO TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	\$3,763.15 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS:
Magnetometer _____ days	L 561730 650116 to 18 inclusive 650131 650133-34 757832-33
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	250.87 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.
Geological _____ days	
Geochemical _____ days	<u>FOR MINING RECORDER'S USE:</u> THE WORK ASSIGNMENT FOR EACH OF THE ABOVE LISTED CLAIMS IS 27.87 DAYS PER CLAIM.
Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey

insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY

M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
Area west of West Montreal River	NRW 65/83	10/11/83	M+S R	

SAND and GRAVEL

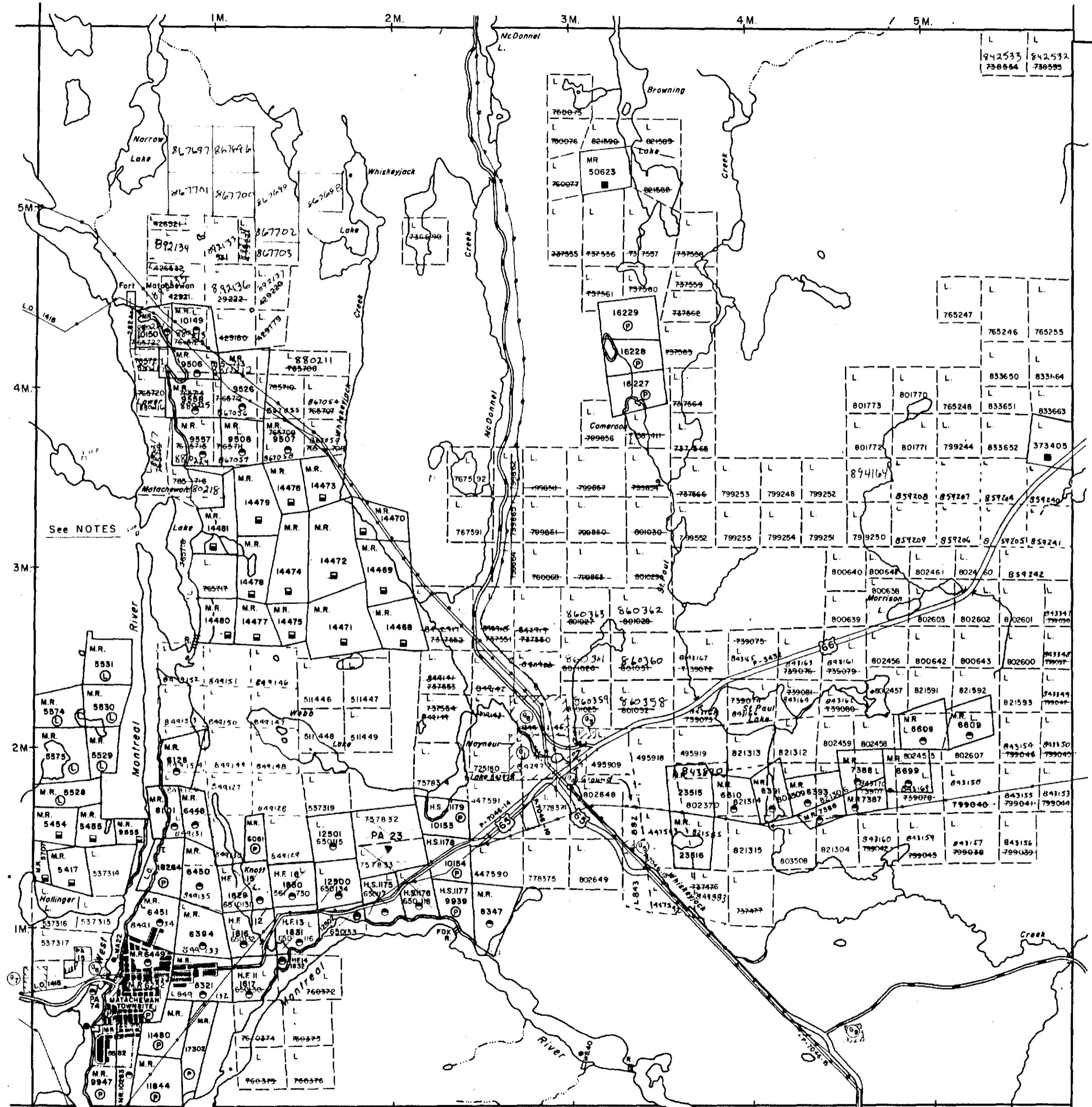
- (1) M.T.C. Gravel P.I. 206
- (2) M.T.C. Gravel P.I. 315
- (3) Gravel Pit 205
- (4) Gravel Pit 204, File 127307
- (5) Gravel Pit
- (6) M.T.C. P.I. 3F-4, File 127307
- (7) M.T.C. Gravel P.I. 3F-21
- (8) M.T.C. P.I. 3F-28

NOTES

AREA WEST OF WEST MONTREAL RIVER
CLOSED TO STAKING SUBJECT TO
SEC 38(f) OF THE MINING ACT,
20 SEPT. 1978.

Pending application for P.I. 3F-28

Alma Twp.



Kimberley Twp.

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 OR COMPOSITE PLAN

RESERVATIONS

ORIGINAL SHORELINE

MARSH OR MUSKEG

MINES

TRAVERSE MONUMENT

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

ORDER-IN-COUNCIL

RESERVATION

CANCELLED

SAND & GRAVEL

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

FEET	0	1000	2000	4000	6000	8000
METRES	0	200	1000	(1 KM)	2000	

TOWNSHIP

CAIRO

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING



Ministry of
Natural
Resources
Ontario

Land
Management



41PISNE8324 2.9273 CAIRO

200

Date JANUARY 1985

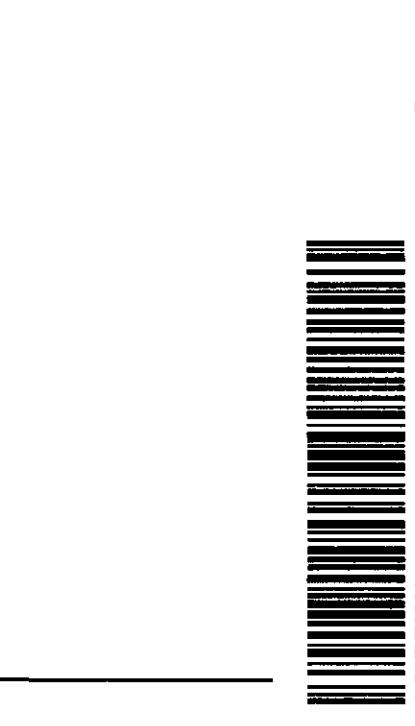

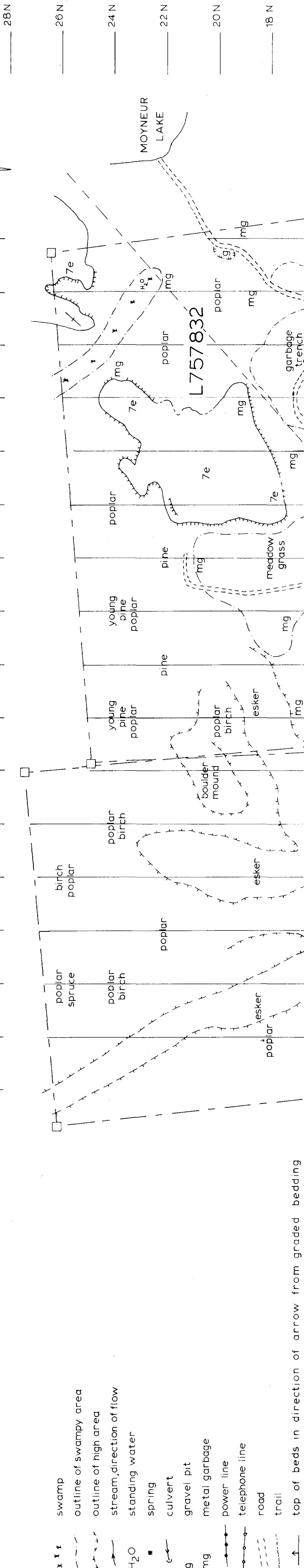
Number

JUL 7 1986

G-3209

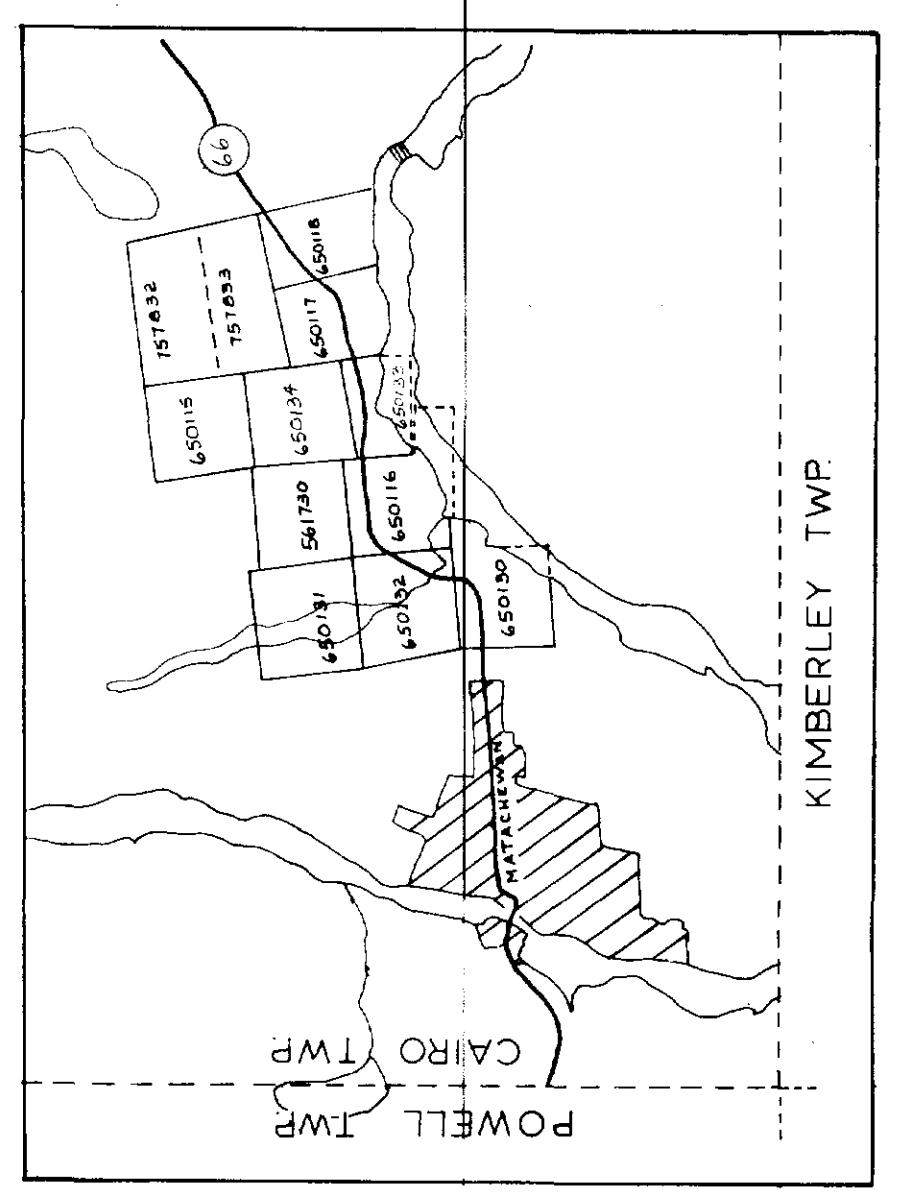
LEGEND

- 76° contact, observed, interpreted
- strike of bedding, dip
- outline of high area
- outline of swampy area
- outline of outcrop area
- outline of outcrop with steep sides
- 45° outline of outcrop
- drill hole
- Q.V. quartz vein
- Py pyrite
- trench in boulders
- trench in outcrop
- L650130 claim number
- claim line
- claim post
- △ survey post




CONSTITUTE RESOURCES LTD
Geological Map
CAIRO TOWNSHIP PROPERTY
MATACHEWAN AREA
Drawn by R Baird J Baird
Scale 1"=200'
4195858 2-207205

9273
CONSTITUTE RESOURCES LTD
Geological Map
CAIRO TOWNSHIP PROPERTY
MATACHEWAN AREA
Drawn by R Baird J Baird
Scale 1"=200'
0 200' 400'



ASSAY RESULTS
SAMPLE Au PPB Ni PPB Cu PPB Zn Hg
R-1 13 5.5 5.0 4.3 0.4
R-2 15 4.2 2.4 1.5 0.5
R-3 16 4.0 74.0 1.5 0.5
R-4 15 8.0 13.0 36.0 0.5
R-5 15 5.80 12.00 17.00 0.5
R-6 14 5.70 12.00 27.00 0.5
R-7 15 5.70 12.00 27.00 0.5
R-8 11 5.30 9.80 27.00 0.5
R-9 12 4.00 12.00 10.5 0.5
R-10 12 6.50 10.0 10.5 0.5
R-11 12 5.50 10.0 10.0 0.5
R-12 12 5.50 10.0 10.0 0.5
R-13 12 5.50 10.0 10.0 0.5
R-14 12 5.50 10.0 10.0 0.5
R-15 12 5.50 10.0 10.0 0.5
R-16 12 5.50 10.0 10.0 0.5
R-17 12 5.50 10.0 10.0 0.5
R-18 12 5.50 10.0 10.0 0.5
R-19 12 5.50 10.0 10.0 0.5
R-20 12 5.50 10.0 10.0 0.5
R-21 12 5.50 10.0 10.0 0.5
R-22 12 5.50 10.0 10.0 0.5
R-23 12 5.50 10.0 10.0 0.5
R-24 12 5.50 10.0 10.0 0.5
R-25 12 5.50 10.0 10.0 0.5
R-26 12 5.50 10.0 10.0 0.5
R-27 12 5.50 10.0 10.0 0.5
R-28 12 5.50 10.0 10.0 0.5
R-29 12 5.50 10.0 10.0 0.5
R-30 12 5.50 10.0 10.0 0.5
R-31 11 5.50 10.0 10.0 0.5
R-32 12 5.50 10.0 10.0 0.5
R-33 12 5.50 10.0 10.0 0.5
R-34 12 5.50 10.0 10.0 0.5
R-35 12 5.50 10.0 10.0 0.5
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R-39 11 5.50 10.0 10.0 0.5
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R-43 11 5.50 10.0 10.0 0.5
R-44 11 5.50 10.0 10.0 0.5
R-45 11 5.50 10.0 10.0 0.5
R-46 11 5.50 10.0 10.0 0.5
R-47 11 5.50 10.0 10.0 0.5
R-48 11 5.50 10.0 10.0 0.5
R-49 11 5.50 10.0 10.0 0.5
R-50 11 5.50 10.0 10.0 0.5
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R-52 11 5.50 10.0 10.0 0.5
R-53 11 5.50 10.0 10.0 0.5
R-54 11 5.50 10.0 10.0 0.5
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R-59 11 5.50 10.0 10.0 0.5
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R-66 11 5.50 10.0 10.0 0.5
R-67 11 5.50 10.0 10.0 0.5
R-68 11 5.50 10.0 10.0 0.5
R-69 11 5.50 10.0 10.0 0.5
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R-71 11 5.50 10.0 10.0 0.5
R-72 11 5.50 10.0 10.0 0.5
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R-74 11 5.50 10.0 10.0 0.5
R-75 11 5.50 10.0 10.0 0.5
R-76 11 5.50 10.0 10.0 0.5
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- 20 N

- 16 N

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- 8 N

- 4 N

- 4 S

- 8 S

- 12 S

- 16 S

- 20 S

- 24 S

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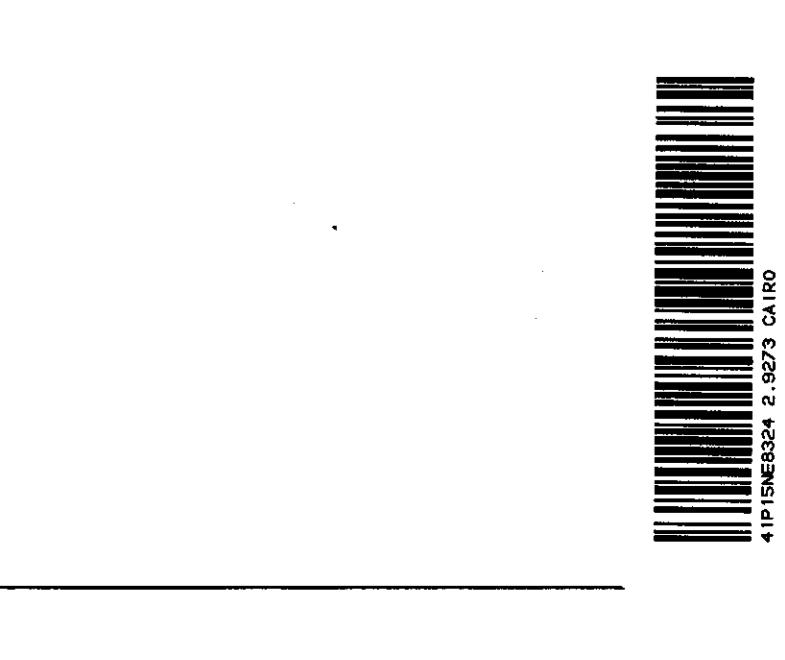
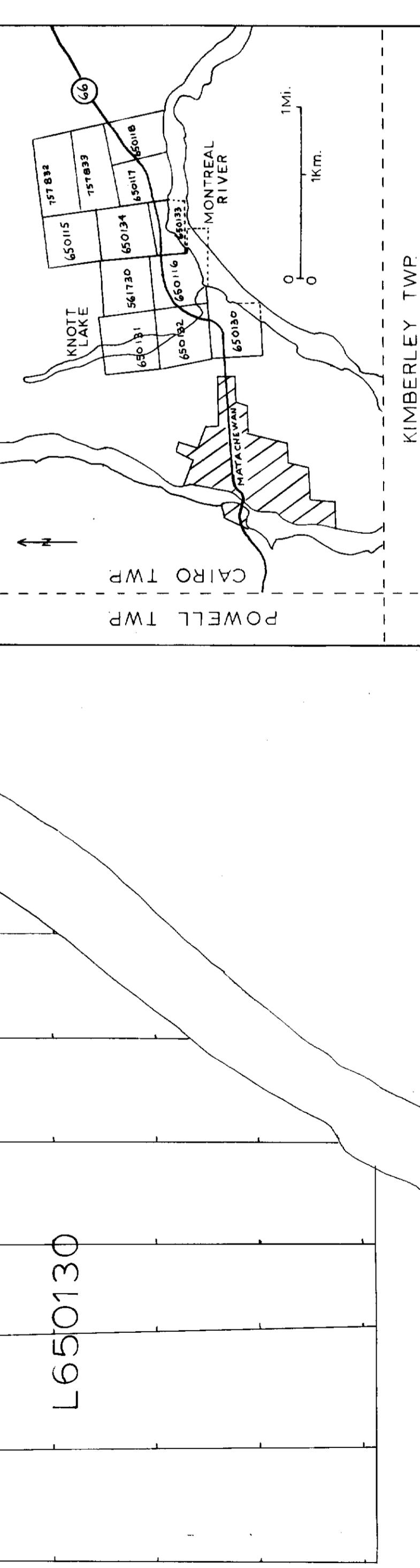
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Knott Lake

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COMSTATE RESOURCES LTD.

GEOCHEMICAL SURVEY

HUMUS CAIRO TWP MATACHEWAN AREA, ONT.

Date August, 1983 Drawn by R. Bald J. Bald

Scale 1:200' 0 200' 400'

NH = No Humus
Outer limit of main tailings dump
contour > 5 ppb Au
'C' Letter indicates humus
gronomy

GOLD