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MINGOLD RESOURCES INC.

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REPORT ON ADDITIONAL OVERBURDEN SAMPLING, STRIPPING AND
CHANNEL SAMPLING ON THE HEATHER LAKE CLAIM GROUP
BRYCE TOWNSHIP, LARDER LAKE MINING DIVISION, ONTARIO
(WORK CARRIED OUT FROM JULY 25 TO DECEMBER 31, 1987)

By: Raymond Davies

Toronto, Ontario

December 31, 1987

File H/cover



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- 3 CHANNEL SAMPLE LOGS AND SKETCHES SHOWING SAMPLE LOCATIONS
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MINGOLD RESOURCES INC.

REPORT ON ADDITIONAL OVERBURDEN SAMPLING, STRIPPING AND
CHANNEL SAMPLING ON THE HEATHER LAKE CLAIM GROUP
BRYCE TOWNSHIP, LARDER LAKE MINING DIVISION, ONTARIO
(WORK CARRIED OUT FROM JULY 25 TO DECEMBER 31, 1987)

By: Raymond Davies

December 31, 1987

Examination of concentrates from basal till samples collected on the Heather Lake claim group defined a train of anomalous gold particles which originates on the property. This is confirmed by analyses on the -100 mesh fraction of the till. Backhoe trenching of the anomalous area exposed a complicated zone of shearing carrying significant gold values.

LOCATION AND ACCESS

The property lies north, south and west of Heather Lake in lots 11 and 12 of concessions II and III of Bryce township. Access is by gravel road from Earleton to a point 2 miles to the north northeast of the property. From here an excellent all-terrain-vehicle trail extends to the shore of Heather Lake on the northeastern claim of the group. Much of this trail can be traversed by four wheel drive vehicles in dry weather. Heather Lake provides access to the rest of the property.

PROPERTY AND OWNERSHIP

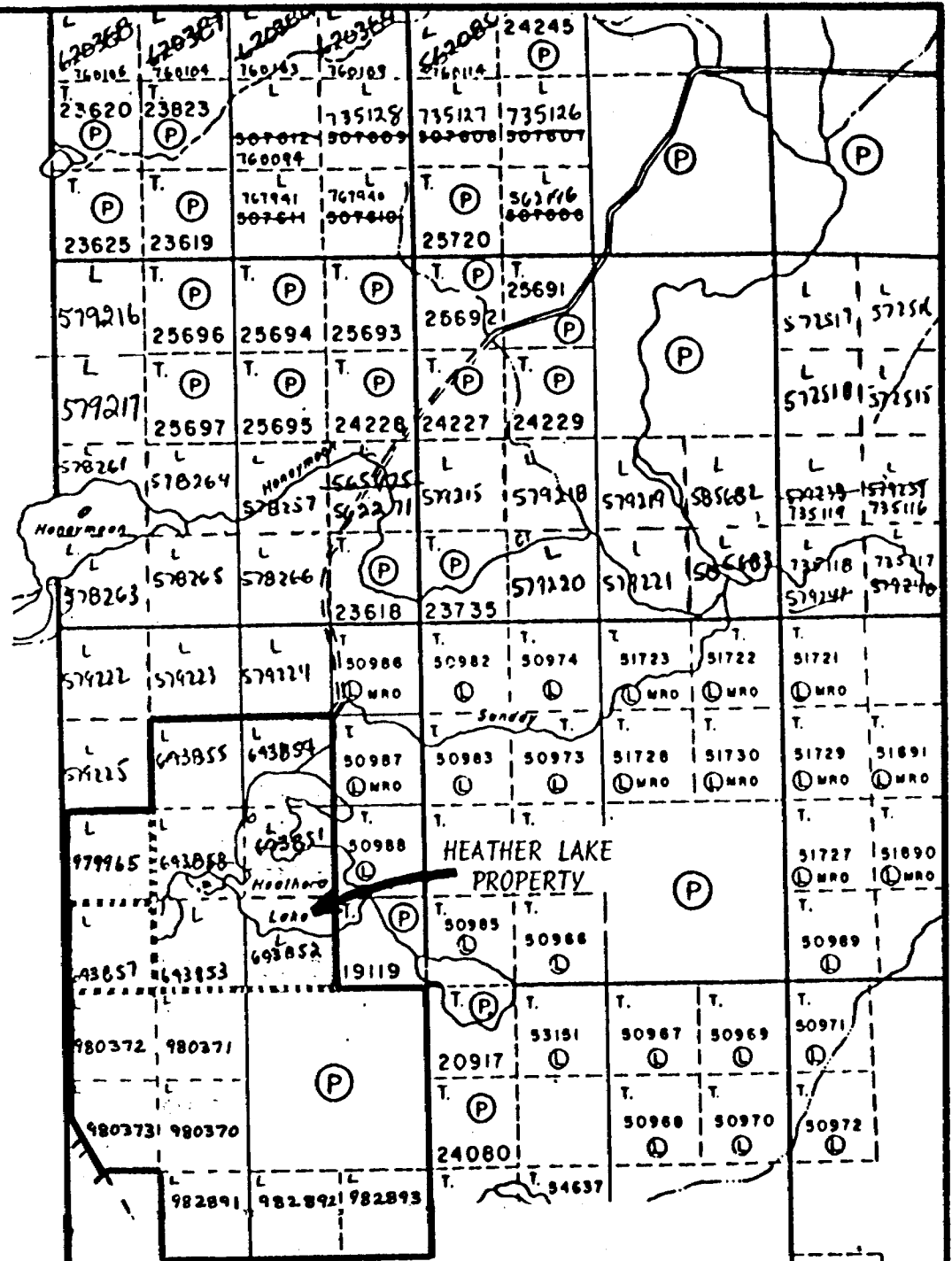
The property consists of 15 mining claims of 600 acres and one patented lot of 160 acres.

The mining claims were previously recorded in the name of James Morris of Eaglehart but have been transferred to Mingold Resources Inc. under the terms of an agreement whereby Mingold has been granted a two year option to purchase the property.

A description of the claims and the patented lot are shown below and outlined in figure 1.

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TUDHOPE TWP. M - 252



SCALE: 1 INCH = 40 CHAINS

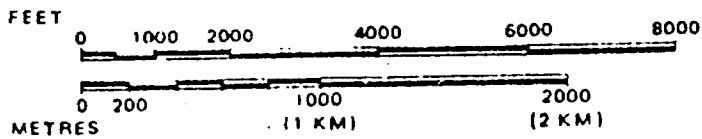


FIGURE 1

LOCATION OF THE HEATHER LAKE CLAIM GROUP,
BRYCE TOWNSHIP, ONTARIO.

<u>CLAIM NUMBER</u>	<u>RECORD DATE</u>	<u>DATE TRANSFERRED TO MINGOLD</u>
L 643851	September 14, 1982	November 25, 1987 (Recorded)
L 643852	"	"
L 643853	"	"
L 643854	"	"
L 643855	"	"
L 643857	"	"
L 643858	"	"
L 980370	August 18, 1987	"December 9, 1987" (to be recorded)
L 980371	"	"
L 980372	"	"
L 980373	"	"
L 982891	"	"
L 982892	"	"
L 982893	"	"
L 979965	December 2, 1987	"

PATENTED LOT - North half of lot 11 of concession 2.

Hudson Bay Exploration and Development Company Limited examined the property in 1985 and collected 4 basal till samples down-ice of a VLF electromagnetic anomaly on the north shore of the lake. The samples were not anomalous. Collection of a further 30 samples in May, June and July 1987 showed an anomalous gold particle train that appeared to originate on the property. A report on this work has been submitted as assessment work (Davies 1987). In recognition of the work that Hudson Bay Exploration and Development Company Limited had carried out, Mingold Resources Inc., an associate and successor of Hudson Bay Exploration and Development Company Limited, was granted its purchase option.

PREVIOUS WORK

In the late 1920's, pitting, trenching, sinking of a 50-foot shaft and diamond drilling was carried out on or very near the property by Heather Lake Mines Limited. Gold values over narrow widths were reported in a "discovery vein".

In 1974 a VLF electromagnetic survey was carried out over part of the property by J.G. Willars. An anomaly beneath the lake along its north shore and another west of the island in the southwestern part of the lake were outlined.

In 1980 R. Sheedy for Sylva Explorations carried out VLF-electromagnetic, magnetic and MaxMin II surveys. The magnetic survey is described as being "flat" with variations of only 200 gammas. The two electromagnetic anomalies first detected in 1974 were again recommend as drill targets.

In 1984 three diamond drill holes were drilled by C. Bush from the same collar to test the anomaly under the north part of Heather Lake. The deepest hole was 300' in length but may not have reached the target conductor. No significant gold values were obtained.

GEOLOGY

The area of the claim group has been regionally mapped as intermediate to felsic metavolcanics intruded by small quartz-porphyry and gabbro bodies and diabase dykes. Easton and Johns (1986) have presented a detailed breakdown of the geology in the vicinity of Heather Lake which is shown in figure 2. Of special interest are the pyroclastic breccias and tuff breccias trending northeast through Heather Lake in contact with an intrusive subvolcanic quartz-feldspar porphyry body. The contact coincides roughly with a weak VLF electromagnetic anomaly to the northwest of Heather Lake. The pyroclastics centred on Heather Lake are very coarse, angular, poorly sorted, unbedded and heterolithic and are interpreted as volcanic vent facies.

The quarternary geology of the property is shown on Ontario surficial geology map S465 as being essentially silty to sandy till with outwash deposits along the southern boundary. Most of the area sampled has abundant outcrop and is covered by good basal till. The regional glacial striations and the most recent glacial striations on the property indicate an ice flow to 150-160°T. An older set of striations indicating ice flow to 235°T are found in the deeper parts of the trenches excavated.

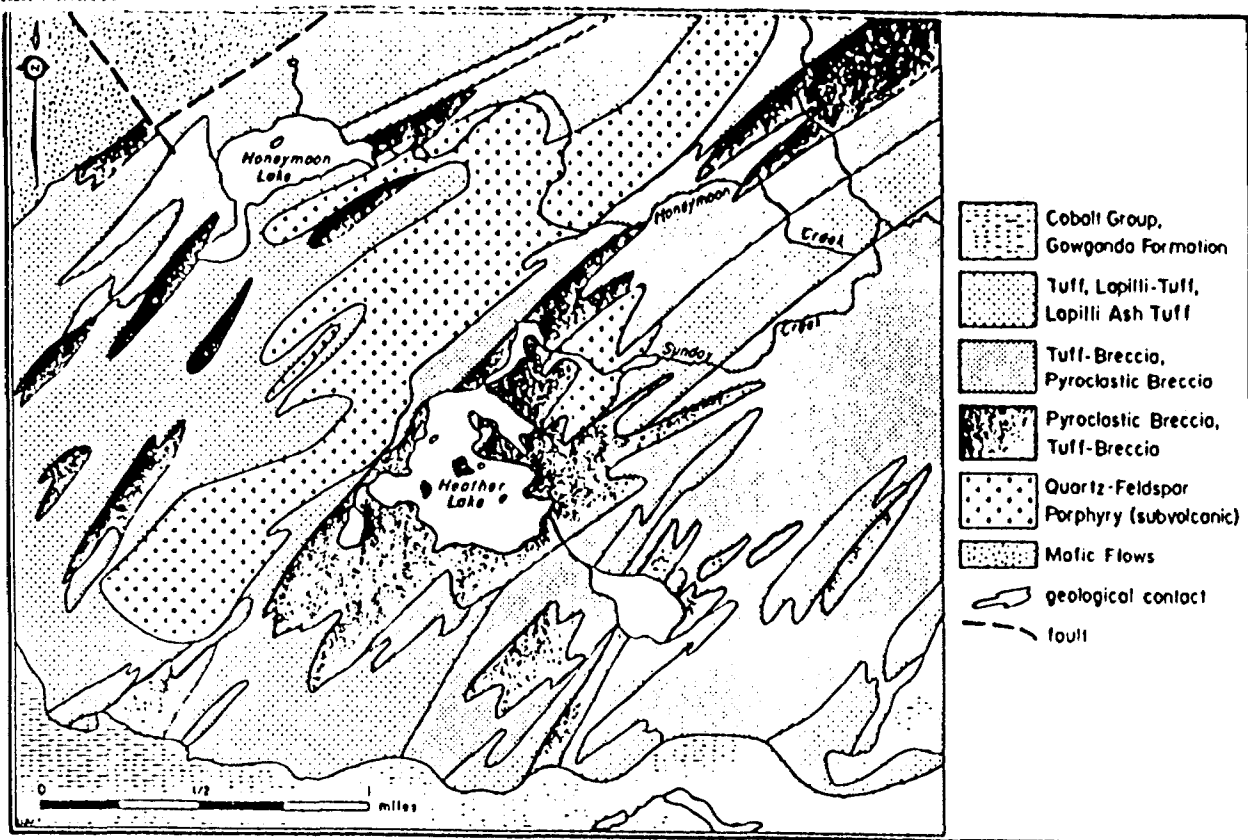


Figure 2 a. Distribution of the pyroclastic rocks of the Skead Group in southern Bryce and Tudhope Townships

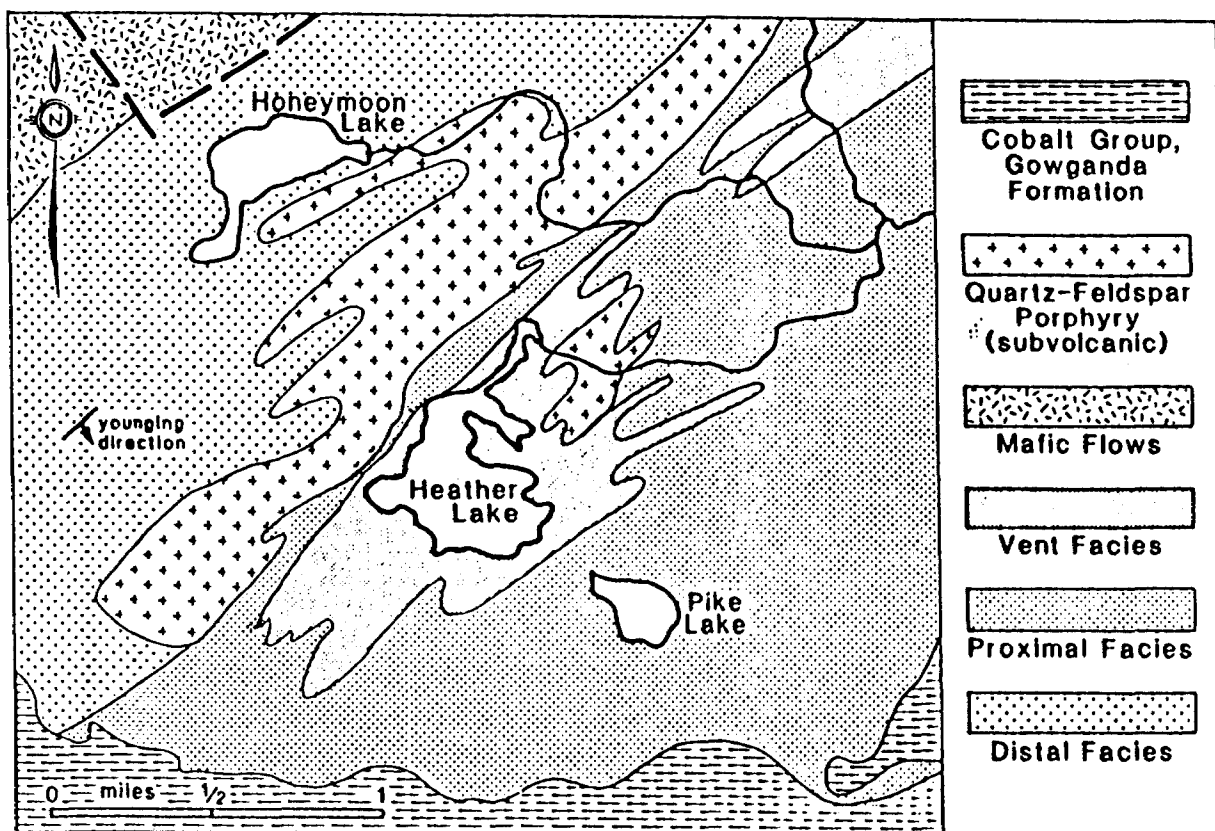


Figure 2 b. Distribution of volcanic facies of the pyroclastic rocks of the Skead Group in southern Bryce and Tudhope Townships. (from Figures 1.30 and 1.31 in Easton and Johns 1986)

PERSONNEL

Work between July 25 and December 31, 1987 on the Heather Lake claim group was carried out by the following people on the dates shown:

Pestonji, Mehernosh	Sept.10-19,21-23,28-30,Oct.1-21,23-31; Nov.1-5, 7-14, 17-13, Dec.1
Etmanski, Ken	Sept.28-30; Oct.1-31; Nov.1-6, 9-14, 17-22
Hunter, Christopher	Oct.11-22, 24-25, Nov.5, 17-23
St. Jean, Jeff	July 25-31; Aug.1-31; Oct.3-4, 24-31; Nov.13-15,21,28,30
Stewart,Jill	Oct.20-21; Nov. 5
Davies, Raymond	Sept.10-11; Oct.20-21; Nov.13
Conway, Mark	July 18-19,21-31; Aug.1-3, 5-22, 24-31

All the above are employees of Mingold Resources Inc. (or its predecessor - Hudson Bay Exploration and Development Company Limited) of Box 28, Toronto-Dominion Centre, Toronto, M5K 1B8.

OVERBURDEN SAMPLING TO DEFINE GOLD ANOMALY

79 large samples of basal till weighing 15 to 30 kilograms each were collected on or near areas of bedrock at strategically located sites on the property. 34 of these samples were previously reported (Davies 1987) and had indicated a gold dispersion train with a probable source within the claim group boundary. The additional samples now reported were to define better the anomaly before it was stripped with a backhoe. At most of the large sample sites 200 grams of till were also collected for geochemical analysis and sieve analysis. Each of the samples was backpacked off the property and transported to New Liskeard where the company operates a sample processing laboratory.

The large samples were screened and the minus 0.5mm fraction was concentrated over a Deister table. Concentrates weighing approximately 100 grams were panned by hand in a black goldpan and examined for gold. The number of gold particles present was recorded and the number normalized to a standard 30 kilogram sample. Results are shown in tables 1 and 1A, figures 3 and 4.

TABLE I

NORMALIZED GOLD COLOUR COUNTS OF SAMPLES FROM HAND DUG PITS

COMPLETED ON HEATHER LAKE CLAIMS TO JULY 31, 1987

SAMPLE NUMBER	SAMPLE WEIGHT	GOLD COLOURS	GOLD COLOUR PER 30 KG
F- 321	15 KG(EST)	0	0
F- 322	15 KG(EST)	0	0
F- 323	15 KG(EST)	0	0
F- 324	15 KG(EST)	2	4
2097	18 KG	5	8
2098	21 KG	5	7
2099	27 KG	2	2
2100	30 KG	3	3
2101	21 KG	2	2
2102	13 KG	0	0
2103	16 KG	0 (PY)	0
2104	18 KG	5	8
2105	18 KG	2 (PY)	3
2106	22 KG	0	0
2107	22 KG	7 (PY)	10
3001	18 KG	14	23
3002	15 KG	4	8
3003	16 KG	7	13
3004	14 KG	2	4
3005	21 KG	12	17
3006	16 KG	4	8
3007	19 KG	3	5
3008	18 KG	5	8
3009	18 KG	6	10
3010	21 KG	1	1
3011	22 KG	0	0
3012	23 KG	3	4
3013	26 KG	1	1
3014	20 KG	6	9
3015	22 KG	0	0
(JS-1)	34 KG	14	12
(JS-2)	28 KG	1	1
(JS-3)	25 KG	2 (PY)	2
(JS-4)	23 KG	1	1

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TABLE IA

NORMALIZED GOLD COLOUR COUNTS OF SAMPLES FROM HAND DUG PITS

COMPLETED ON HEATHER LAKE CLAIMS

FROM AUGUST 1 - DECEMBER 31, 1987

SAMPLE NUMBER	SAMPLE WEIGHT	GOLD COLOURS	GOLD COLOUR PER 30 KG
3016	20.4	2	3
3017	20.5	3	4
3018	23.0	1	1
3019	22.5	3	4
3020	14.5	22	46
3021	13.7	8	18
3022	19.0	4	6
3023	20.0	7	11
3024	15.0	1	2
3025	22.0	2	3
3026	14.0	6	13
3027	18.1	Ø	Ø
3028	19.0	2	3
3029	20.4	1	1
3030	19.0	3	5
3031	21.0	Ø	Ø
3032	18.0	4	7
3033	18.0	4	7
3034	21.0	4	6
3035	20.4	3	4
3036	14.0	1	2
3037	18.0	Ø	Ø
3038	13.0	Ø	Ø
3039	18.0	5	8
3040	15.0	3	6
3041	18.4	2	3
3042	13.0	4	9
3043	18.4	2	3
3044	16.0	44	83
3045	14.0	2	4
3046	7.0	1	4
3047	13.6	Ø	Ø
3048	21.0	3	4
3049	14.0	Ø	Ø
3050	13.0	1	2

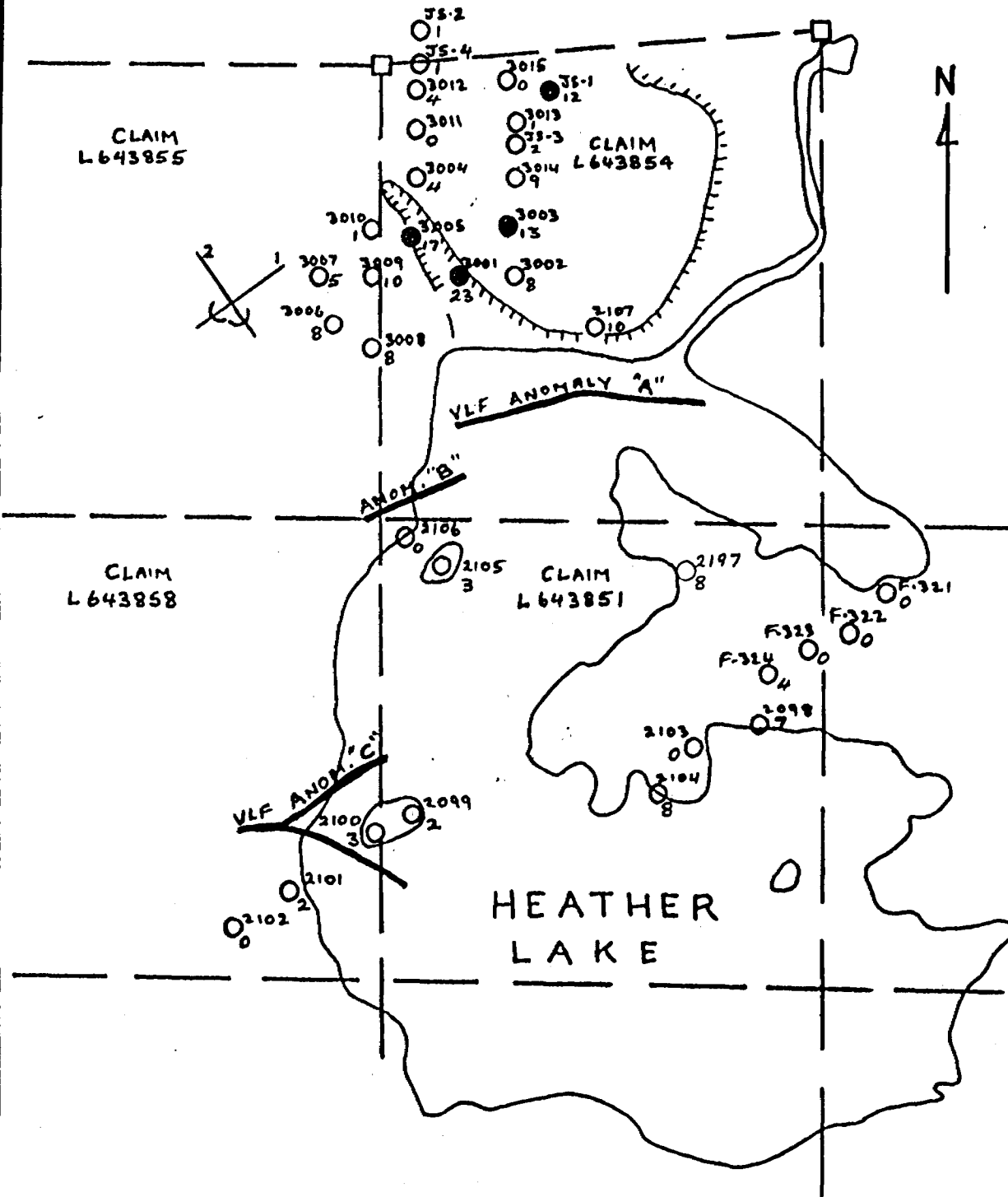
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Heather-Lake

TABLE IA

<u>SAMPLE NUMBER</u>	<u>SAMPLE WEIGHT</u>	<u>GOLD COLOURS</u>	<u>GOLD COLOUR PER 30 KG</u>
3051	15.8	1	2
3052	11.4	3	8
3053	19.0	Ø	Ø
3054	22.0	51	69
3055	18.0	3	5
3056	23.0	13	17
3057	18.6	22	35
3058	23.0	3	4
3059	21.8	1	1
3060	20.2	2	3
3061-3073	<u>LARGE SAMPLES NOT TAKEN</u>		-
3074	34	93	82
3075	30	9	9
3076	29	6	6
3077	28	3	3
3078	29	1	1
3079	24	3	4
3080	31	2	2
3081	22	3	4
3082	22	3	4
3083	22	2	3
3084	22	0	0

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FIGURE 3 : LOCATION OF TILL SAMPLES COLLECTED ON THE HEATHER LAKE CLAIMS BEFORE JULY 25, 1987. VALUES GIVEN AS GOLD PARTICLES / 30 KILOGRAMS OF TILL



CLAIM
L643855

CLAIM
L643854

CLAIM
L643858

CLAIM
L643851

HEATHER
LAKE

SAMPLE NO.
 2104
 5
 TILL SAMPLE LOCATION
 SAMPLE VALUE
 ANOM. "B"
 VLF CONDUCTOR (AFTER WILLARS 1974)
 SLOPE
 CLAIM POST AND LINE

0 400
FEET

PROJECT: HEATHER LAKE
CLAIMS: L643854, L643855
L643851, L643858

HUDSON BAY EXPLORATION
AND
DEVELOPMENT CO. LTD.
EASTERN DISTRICT

SCALE: 1:5000 LOOKING: PLAN
DATE: 31 Dec. 1987 LOGGED BY: -
GROUP: HEATHER DRAWN BY: R. DAVIES
APPROVED BY: -

75 of the concentrates that had been examined for visible gold were also analysed by the neutron activation method for Au, Na, Ca, Sc, Cr, Fe, Co, Ni, Zn, As, Se, Mo, Ag, Sb, Ba, La, Ce, Sm, Eu, Yb, Lu, Hf, Ta, W, Ir, Th, Ur. Analytical results are shown in appendix 1 and the gold analyses, recalculated to micrograms gold per concentrate and then normalised to a 30 kilogram sample of original till, are shown in table 2 and some of the results are shown in figure 5.

Small samples of till weighing approximately 200 grams were submitted to X-Ray Laboratories of Toronto for sieve analysis (using 9, 32 and 100 mesh sieves) and the -100 mesh fraction was assayed for gold using the fire assay/direct current plasma method. The results are shown in table 3 and figures 6 and 7.

DISCUSSION

The 4 samples collected in 1985 (F-321 to F-324) were located on the peninsula protruding into Heather Lake to test a strong VLF electromagnetic anomaly ("A" in figures 3 and 6) up-ice and beneath the north part of the lake. Three of the samples contained no gold particles and one contained 2 gold particles which is not very anomalous. No further work was carried out until 1987.

In early June of 1987 11 samples were collected to test two VLF electromagnetic anomalies ("B" and "C" in figures 3 and 6) on the west side of Heather Lake and part of anomaly "A" that had not been properly covered in 1985. An anomalous (8, 8, and 7 colours) train was defined down-ice of anomaly "A" but also appeared from a sample containing 10 colours to originate up-ice of anomaly "A". 19 More samples were collected in late June and July north of the lake. 5 Of these samples were very anomalous containing 12 to 23 colours respectively and the anomaly appeared to be cut off in the up-ice direction. A limonite-rich rock fragment from the sample containing 23 colours assayed 90 ppb gold.

The additional 45 samples collected since July 25 to define the anomaly in more detail before it was stripped are shown in figure 4 (number of gold colours) figure 5 (weight of gold colours) and figure 7 (ppb gold in - 100 mesh).

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HEATHER/LAKE
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TABLE 2

WEIGHT OF GOLD (FROM NAA ANALYSES) IN CONCENTRATES
OF TILL SAMPLES COLLECTED ON HEATHER LAKE CLAIMS.
RESULTS NORMALISED TO 30 KILOGRAMS OF ORIGINAL SAMPLE.

SAMPLE NUMBER	SAMPLE WEIGHT/KG	PPB GOLD IN CONCENTRATE	CONCENTRATE WEIGHT GMS	MICROGRAMS AU/SAMPLE	MICROGRAM AU/30 KG SAMPLE
2097	18	89 000	1.08	96.12	160
2098	21	58 000	0.93	53.94	77
2099	27	17 000	1.32	22.44	25
2100	30	25 000	1.68	42.00	42
2101	21	7 200	1.03	7.42	11
2102	13	3 500	1.19	4.17	10
2103	16	3 800	0.80	3.04	6
2104	18	7 600	1.19	9.04	15
2105	18	1 100	1.37	1.51	3
2106	22	1 600	0.92	1.47	2
2107	22	360 000	0.92	331.20	452
3001	18	340 000	1.06	360.40	601
3002	15	39 000	0.89	34.71	69
3003	16	410 000	0.93	381.30	715
3004	14	21 000	1.01	21.21	45
3005	21	120 000	1.80	216.00	309
3006	16	3 700	1.72	6.36	12
3007	19	1 400	2.98	4.17	7
3008	18	6 100	2.80	17.08	28
3009	18	23 000	1.01	23.23	39
3010	21	5 000	1.44	7.20	10
3011	22	190	2.41	0.46	1
3012	23	8 000	1.04	8.32	11
3013	26	1 100	3.61	3.97	5
3014	20	24 000	1.72	41.28	62
3015	22	2 900	2.10	6.09	8
3016	20.4	14 000	3.16	44.24	65
3017	20.5	15 000	6.05	90.75	133
3018	23.0	6 800	4.25	28.90	38
3019	22.5	7 300	7.18	52.41	70
3020	14.5	43 000	5.90	253.70	525
3021	13.7	9 400	2.23	20.96	46
3022	19.0	23 000	4.00	92.00	145
3023	20.0	20 000	5.39	107.80	162
3024	15.0	4 000	4.59	18.36	37
3025	22.0	1 600	4.11	6.58	9
3026	14.0	4 100	3.48	14.27	31
3027	18.1	3 000	2.06	6.18	10
3028	19.0	120	6.75	0.81	1

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TABLE 2

SAMPLE NUMBER	SAMPLE WEIGHT/KG	PPB GOLD IN CONCENTRATE	CONCENTRATE WEIGHT GMS	MICROGRAMS AU/SAMPLE	MICROGRAM AU/30 KG SAMPLE	
3029	20.4	350	2.99	1.05	2	
3030	19.0	650	3.69	2.40	4	
3031	21.0	480	4.70	2.26	3	
3032	18.0	1 000	7.00	7.00	12	
3033	18.0	9 700	6.52	63.24	105	
3034	21.0	1 500	6.14	9.21	13	
3035	20.4	17 000	4.39	74.63	110	
3036	14.0	1 100	2.95	3.25	7	
3037	18.0	1 200	3.53	4.24	7	
3038	13.0	SAMPLE MISSING				
3039	18.0	58 000	5.06	293.48	489	
3040	15.0	7 000	2.58	18.06	36	
3041	18.4	3 900	4.28	16.69	27	
3042	13.0	5 300	4.62	24.49	57	
3043	18.4	11 000	4.52	49.72	81	
3044	16.0	210 000	3.38	709.80	1331	
3045	14.0	4 700	4.00	18.80	40	
3046	7.0	3 000	1.39	4.17	18	
3047	13.6	5 700	3.98	22.69	50	
3048	21.0	5 700	4.56	29.99	43	
3049	14.0	2 300	3.92	9.02	19	
3050	13.0	11 000	2.62	28.82	67	
3051	15.8	570	2.62	1.49	3	
3052	11.4	3 400	4.49	15.27	40	
3053	19.0	1 300	3.45	4.49	7	
3054	22.0	95 000	3.77	358.15	488	
3055	18.0	7 300	2.65	19.35	32	
3056	23.0	8 300	3.57	29.63	39	
3057	18.6	15 000	5.86	87.90	142	
3058	23.0	2 700	4.51	12.18	16	
3059	21.8	1 900	4.11	7.81	11	
3060	20.2	2 400	2.83	6.79	10	
JS-1	34	62 000	1.14	70.68	62	
JS-2	28	23 000	0.96	22.08	24	
JS-3	25	380 000	0.49	186.20	223	
JS-4	23	4 600	0.83	3.82	5	

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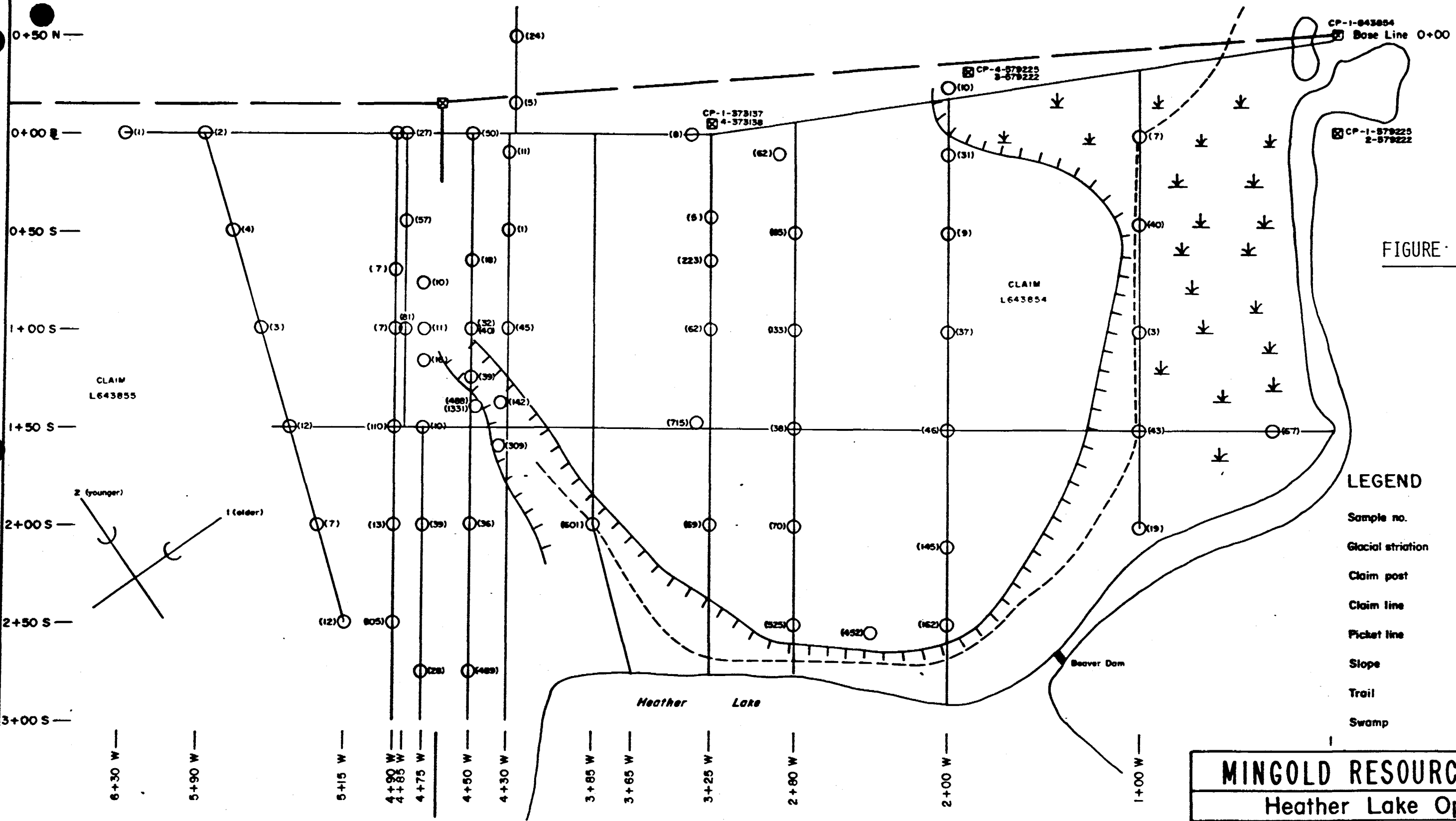


FIGURE 5

- LEGEND**
- Sample no.
 - Glacial striation
 - Claim post
 - Claim line
 - - - Picket line
 - ↘ Slope
 - Trail
 - Swamp

MINGOLD RESOURCES INC.			
Heather Lake Option			
Micrograms of Gold in Concentrates From 30 Kilogram Samples of Till			
Drawn: Gagné	Date: 7/02/88	Scale: 1:2,000	Dwg. no.:



TABLE III

SIEVE ANALYSES AND GOLD ASSAYS ON MINUS 100 MESH FRACTION OF
APPROXIMATELY 200 GRAM CUTS TAKEN FROM PIT SAMPLES COMPLETED ON
HEATHER LAKE CLAIMS

SAMPLE NUMBER	WEIGHT % +9 MESH	WEIGHT % -9+32 MESH	WEIGHT % -32+100 MESH	WEIGHT % -100 MESH	PPB GOLD -100 MESH FRACTION
2097	21	15	12	52	17
2098	36	12	12	40	11
2099	47	41	8	4	8
2100	36	34	21	9	13
2101	6	6	7	81	8
2102	25	21	17	37	4
2103	31	10	9	50	< 1
2104	22	14	19	45	3
2105	18	16	18	48	8
2106	14	6	9	71	3
2107	35	18	20	27	110
3001	51	14	11	24	6
3002	51	16	13	20	5
3003	27	22	14	37	49
3004	11	25	32	32	11
3005	12	14	28	46	510
3006	18/32	28/28	27/20	27/20	8/2
3007	24	19	22	35	<1
3008	41/34	19/21	18/20	22/25	2/2
3009	27	20	28	25	3
3010	32	26	29	13	57
3011	21	38	24	17	<1
3012	34	21	26	19	<1
3013	25	23	25	27	3
3014	25	19	9	47	<1
3015	26	24	23	27	5
3016	30	26	15	29	1
3017	28	30	21	21	9
3018	56	24	13	7	8
3019	34	26	19	21	8
3020	42	19	18	21	120
3021	34	22	16	28	5
3022	39	24	17	20	3
3023	40	26	15	19	41
3024	28	29	18	25	<1
3025	43	22	18	17	4
3026	24	23	22	31	4
3027	39	31	17	13	8

TABLE III

SAMPLE NUMBER	WEIGHT % +9 MESH	WEIGHT % -9+32 MESH	WEIGHT % -32+100 MESH	WEIGHT % -100 MESH	PPB GOLD -100 MESH FRACTION
3028	30	16	21	33	3
3029	35	22	28	15	3
3030	35	23	21	21	3
3031	39	22	18	21	1
3032	41	19	22	18	4
3033	21	16	25	38	3
3034	41	19	27	13	<1
3035	28	14	13	45	2
3036	25	16	22	37	3
3037	43	27	15	15	4
3038	31	15	17	37	10
3039	36	19	16	29	<1
3040	26	13	17	44	7
3041	34	20	24	22	5
3042	31	20	19	30	<1
3043	37	22	16	25	2
3044	32	23	20	25	320
3045	30	21	20	29	2
3046	23	19	26	32	3
3047	26	27	17	30	<1
3048	38	25	19	18	9
3049	24	21	17	38	4
3050	35	25	19	21	35
3051	43	30	19	8	4
3052	23	17	24	36	5
3053	35	23	19	23	4
JS-1	46	35	9	10	3
JS-2	30	25	20	25	2
JS-3	56	26	8	10	11
JS-4	49	13	14	24	<1
3054	--	--	--	--	--
3055	--	--	--	--	--
3056	39	23	20	18	5
3057	49	14	15	22	120
3058	39	18	16	27	7
3059	44	18	16	22	2
3060	13	27	30	30	2

File:H.17
Heather/lake

TABLE III

SAMPLE NUMBER	WEIGHT % +9 MESH	WEIGHT % -9+32 MESH	WEIGHT % -32+100 MESH	WEIGHT % -100 MESH	PPB GOLD -100 MESH FRACTION
2301	29	17	14	40	210
2302	26	21	23	30	820
2303	36	28	18	18	2700
2304	40	29	14	17	690
2305	24	22	19	35	470
2306	20	20	18	42	360
2307	19	22	19	40	96
2308	15	26	33	26	320
2309	9	15	18	58	1100
2310	9	14	31	46	21
2311	25	18	19	38	8
2312	21	17	21	41	8
2313	20	20	20	40	6
2314	27	18	20	35	3
2315	26	25	24	25	∅
2316	17	19	21	43	4
2317	23	20	24	33	8
2318	35	25	24	16	10
2319	21	21	21	37	14
2320	34	21	19	26	1
2341	28	23	20	29	13
2342	24	22	20	34	2
2343	14	35	36	15	22
2344	11	26	26	37	3
2345	46	25	15	14	430
2346	31	28	21	20	70
2347	20	29	27	24	15
2348	28	26	23	23	∅
2349	30	19	19	32	5
2350	35	29	23	13	∅
2351	29	25	26	20	2

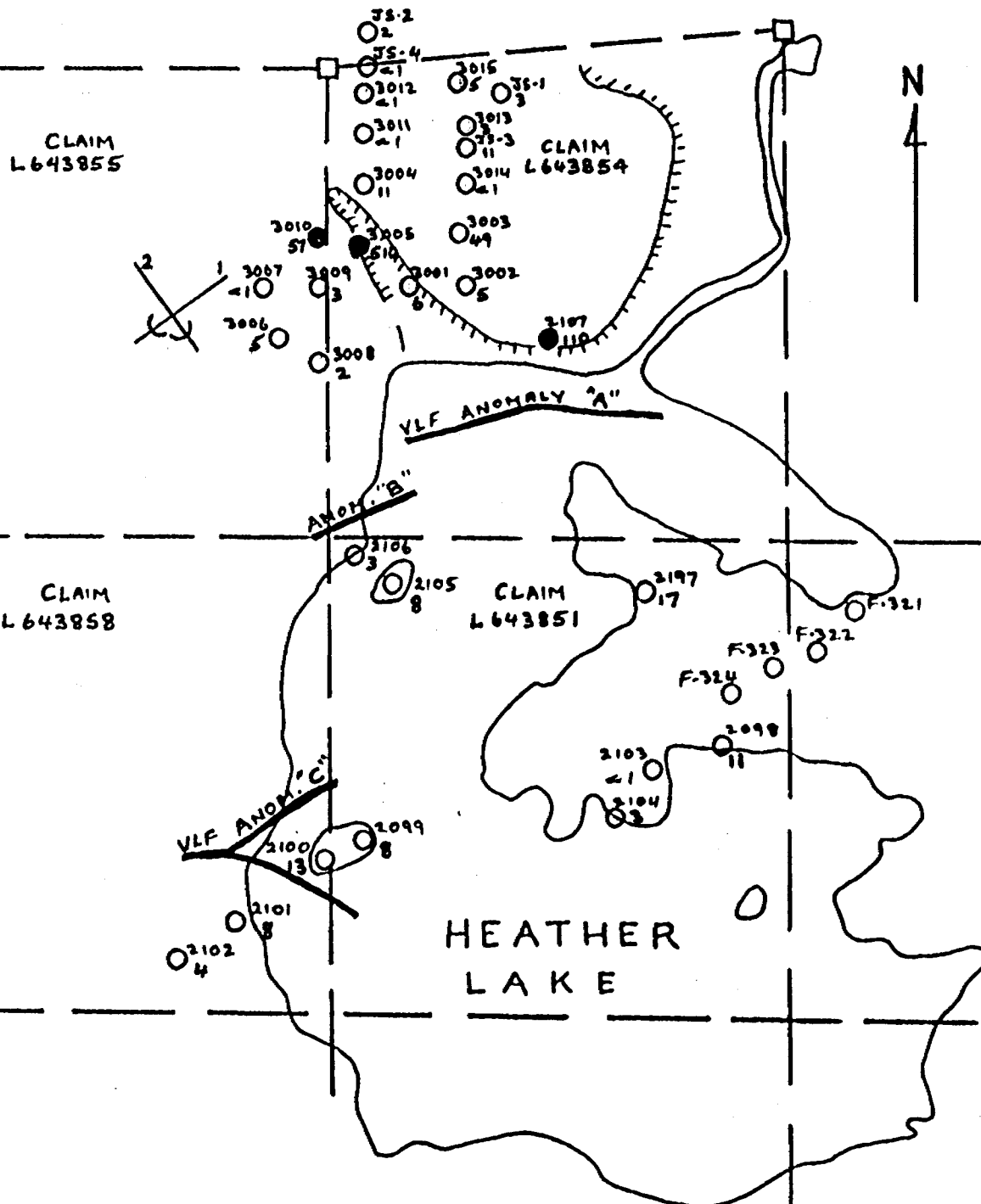
File: H.18
Heather-lake

TABLE III

SAMPLE NUMBER	WEIGHT % +9 MESH	WEIGHT % -9+32 MESH	WEIGHT % -32+100 MESH	WEIGHT % -100 MESH	PPB GOLD -100 MESH FRACTION
3061	20	11	10	59	310
3062	41	13	18	28	93
3063	32	22	21	25	150
3064	43	20	19	18	150
3065	50	19	18	13	4900
3066	48	28	14	10	8300
3067	42	20	20	18	30
3068	21	23	23	33	12
3069	51	14	15	20	9
3070	48	29	15	8	8
3071	14	17	13	56	<1
3072	56	14	16	14	1200
3073	35	27	21	17	160
3074	9	29	36	26	720
3075	43	23	18	16	270
3076	18	16	16	50	14
3077	36	31	18	15	30
3078	51	27	15	7	66
3079	50	22	13	15	130
3080	32	23	23	22	5
3081	18	11	31	40	16
3082	23	18	18	41	6
3083	24	18	19	39	4
3084	22	19	21	38	16

File: H.19
Heather/lake
02/11/88

FIGURE 6 ; LOCATION OF TILL SAMPLES COLLECTED ON THE HEATHER LAKE CLAIMS BEFORE JULY 25, 1987. VALUES GIVEN AS PPB GOLD ON -100 MESH FRACTION OF TILL



○ 2104
 5
 TILL SAMPLE LOCATION
 SAMPLE VALUE
 ANOM. "B"
 VLF CONDUCTOR (AFTER WILLIAMS 1974)
 SLOPE
 CLAIM POST AND LINE

PROJECT: HEATHER LAKE
 CLAIMS: L643854, L643855
L643851, L643858

HUDSON BAY EXPLORATION
 AND
 DEVELOPMENT CO. LTD.
 EASTERN DISTRICT

SCALE: 1:5000 LOOKING: PLAN
 DATE: 31 DEC. 1987 LOGGED BY: -
 GROUP: HEATHER DRAWN BY: R. DAVIES
 APPROVED BY: -

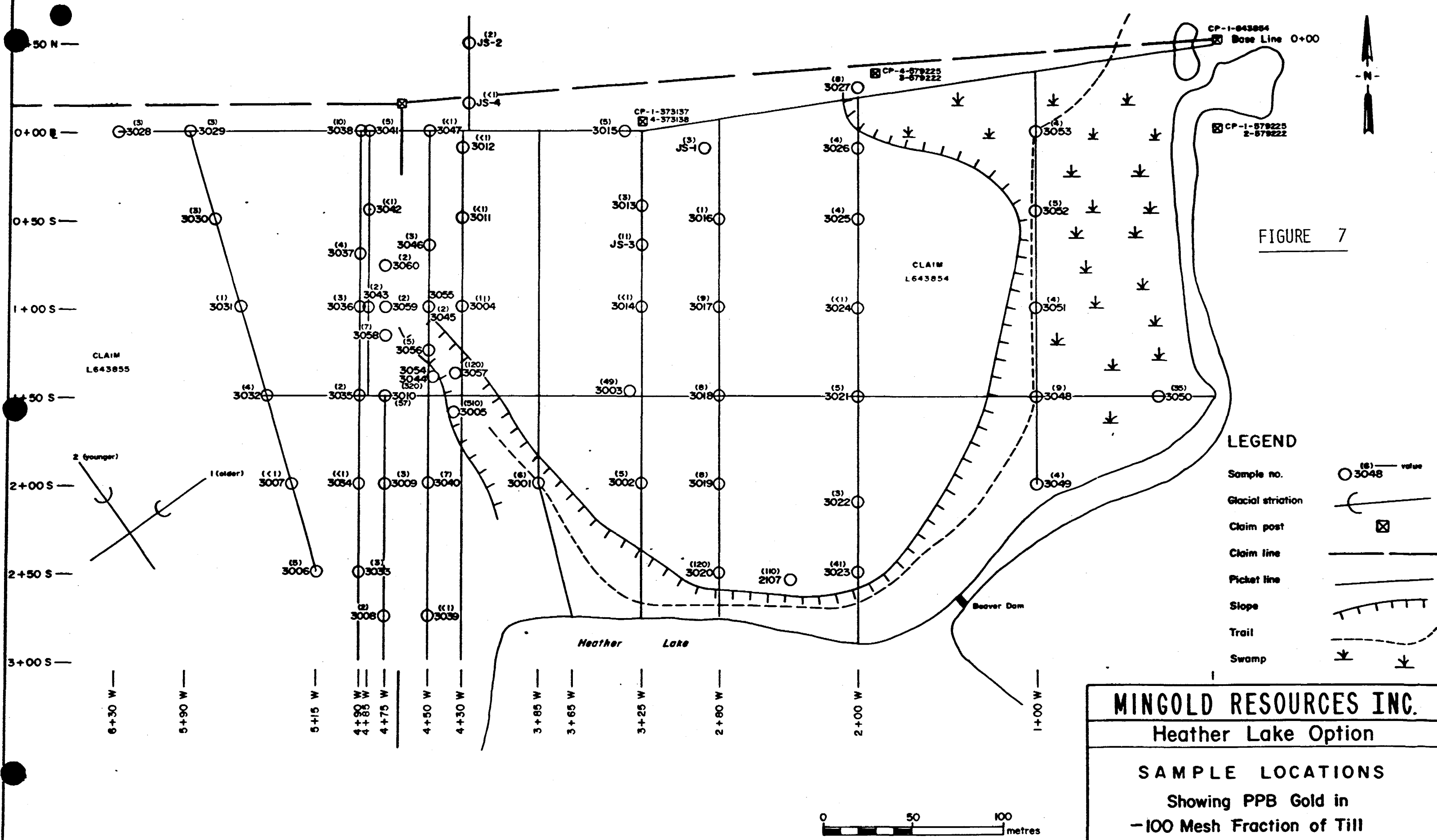


FIGURE 7

LEGEND

- Sample no. (8) value
- Glacial striation
- Claim post
- Claim line
- Picket line
- Slope
- Trail
- Swamp

MINGOLD RESOURCES INC.

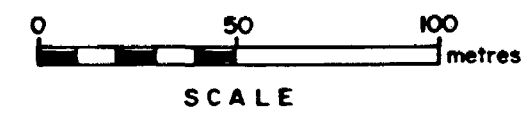
Heather Lake Option

SAMPLE LOCATIONS

Showing PPB Gold in

-100 Mesh Fraction of Till

Drawn: Gagné	Date:	Scale: 1:2,000
		Dwg. no.: 3



Two interesting relations exist between the number of gold particles observed and the total gold in the -100 mesh fraction of the same samples. The most striking relation is that the number of observed gold particles drops off less rapidly down-ice from the source area than does the total gold in the -100 mesh fraction. The second relation is that the gold particles form a train above their background value whereas the total gold value in the -100 mesh fraction of the till along the gold particle train approaches closely to and is lost in its own background value.

These relations can be explained. Thick visible gold particles, in both the gold particle trains derived directly from a gold source and those in the background derived from pre-existing overburden, will be stretched out during glacial transport into thinner and more numerous, but still visible, gold particles. This will run counter to the drop-off in number of particles expected down-ice from a gold source as a result of dilution. In contrast the total gold in the -100 mesh fraction of till from a gold train will drop more quickly in value down-ice from a source in direct relation to the amount of dilution. There is evidence that the gold particles near the gold source at the head of the Heather Lake train are larger than those further down-ice as shown in table 4 and figure 8.

Gold particles both from the train and background are ultimately broken down (equally) to a point where they are no longer large enough to be observed and are then effectively removed from the train and the background. In contrast the total gold in the -100 fraction of till in a gold train is added to its background value. Gold assay trains will therefore more quickly approach their background values which are being elevated by addition of material over time and through repeated glacial advances, than gold particle trains which during the same time are losing material from their background value.

FILE: H.22
HEATHER/LAKE
02/11/88

TABLE 4

AVERAGE WEIGHT OF GOLD PARTICLES OBSERVED IN CONCENTRATES
OF TILL SAMPLES COLLECTED ON HEATHER LAKE CLAIMS

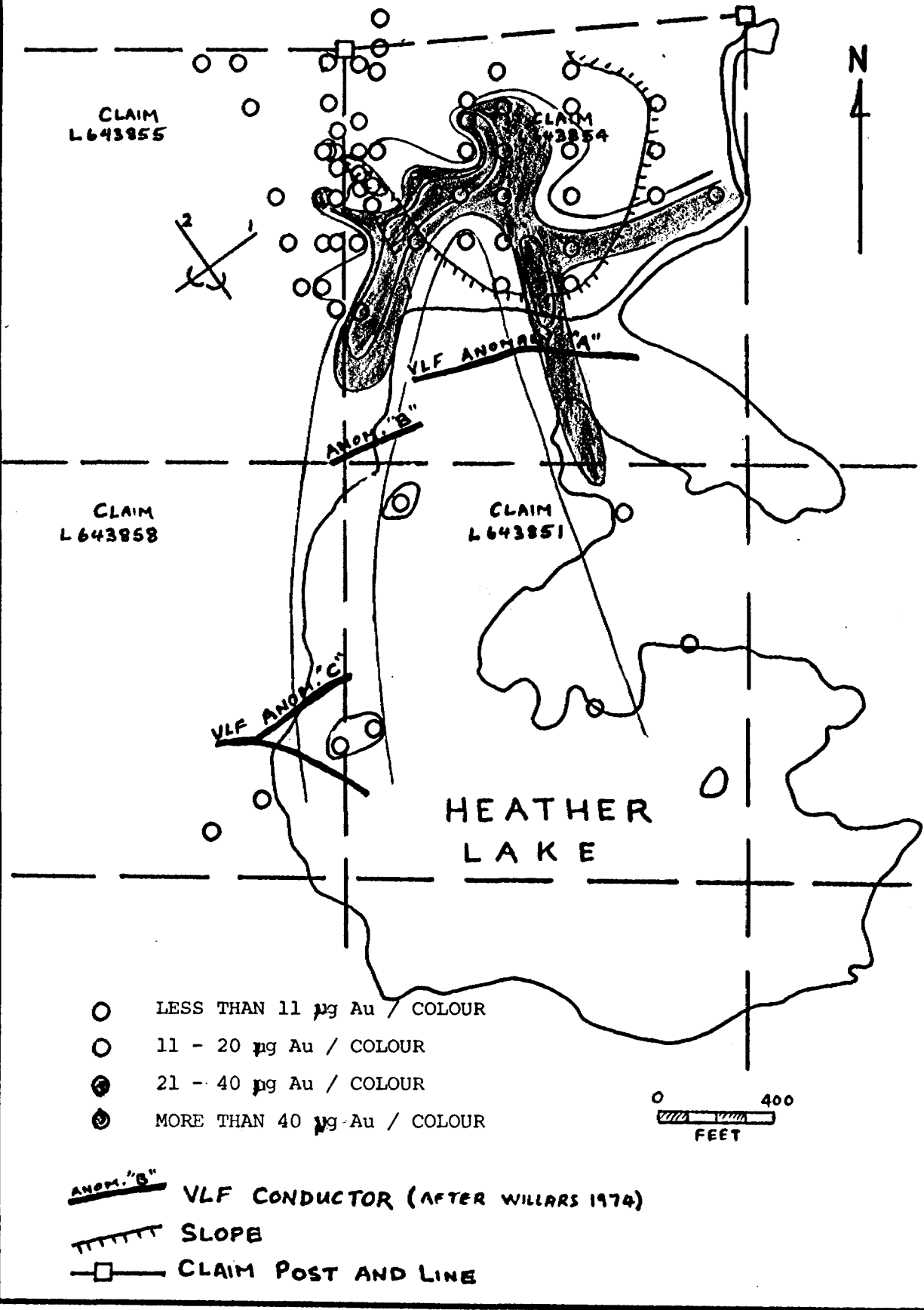
SAMPLE NUMBER	GOLD PARTICLES OBSERVED	PPB GOLD IN CONCENTRATE	CONCENTRATE WEIGHT GMS	MICROGRAMS AU/SAMPLE	MICROGRAM AU/PARTICLE
2097	5	89 000	1.08	96.12	19
2098	5	58 000	0.93	53.94	11
2099	2	17 000	1.32	22.44	11
2100	3	25 000	1.68	42.00	14
2101	2	7 200	1.03	7.42	4
2102	0	3 500	1.19	-	-
2103	0	3 800	0.80	-	-
2104	5	7 600	1.19	9.04	2
2105	2	1 100	1.37	1.51	1
2106	0	1 600	0.92	-	-
2107	7	360 000	0.92	331.20	47
3001	14	340 000	1.06	360.40	26
3002	4	39 000	0.89	34.71	9
3003	7	410 000	0.93	381.30	54
3004	2	21 000	1.01	21.21	11
3005	12	120 000	1.80	216.00	18
3006	4	3 700	1.72	6.36	2
3007	3	1 400	2.98	4.17	1
3008	5	6 100	2.80	17.08	3
3009	6	23 000	1.01	23.23	4
3010	1	5 000	1.44	7.20	7
3011	0	-	-	-	-
3012	3	8 000	1.04	8.32	3
3013	1	1 100	3.61	3.97	4
3014	6	24 000	1.72	41.28	7
3015	0	-	-	-	-
3016	2	14 000	3.16	44.24	22
3017	3	15 000	6.05	90.75	30
3018	1	6 800	4.25	28.90	29
3019	3	7 300	7.18	52.41	17
3020	22	43 000	5.90	253.70	12
3021	8	9 400	2.23	20.96	3
3022	4	23 000	4.00	92.00	23
3023	7	20 000	5.39	107.80	15
3024	1	4 000	4.59	18.36	18
3025	2	1 600	4.11	6.58	3
3026	6	4 100	3.48	14.27	2
3027	-	-	-	-	-
3028	2	120	6.75	0.81	1

TABLE 4

SAMPLE NUMBER	GOLD PARTICLES OBSERVED	PPB GOLD IN CONCENTRATE	CONCENTRATE WEIGHT GMS	MICROGRAMS AU/SAMPLE	MICROGRAM AU/PARTICLE
3029	1	350	2.99	1.05	1
3030	3	650	3.69	2.40	1
3031	-	-	-	-	-
3032	4	1 000	7.00	7.00	2
3033	4	9 700	6.52	63.24	16
3034	4	1 500	6.14	9.21	2
3035	3	17 000	4.39	74.63	25
3036	1	1 100	2.95	3.25	3
3037	-	-	-	-	-
3038	-	-	-	-	-
3039	5	58 000	5.06	293.48	59
3040	3	7 000	2.58	18.06	6
3041	2	3 900	4.28	16.69	8
3042	4	5 300	4.62	24.49	6
3043	2	11 000	4.52	49.72	25
3044	44	210 000	3.38	709.80	16
3045	2	4 700	4.00	18.80	9
3046	1	3 000	1.39	4.17	4
3047	-	-	-	-	-
3048	3	5 700	4.56	29.99	10
3049	-	-	-	-	-
3050		11 000	2.62	28.82	29
3051	1	570	2.62	1.49	1
3052	3	3 400	4.49	15.27	5
3053	-	-	-	-	-
3054	51	95 000	3.77	358.15	7
3055	3	7 300	2.65	19.35	6
3056	13	8 300	3.57	29.63	2
3057	22	15 000	5.86	87.90	4
3058	3	2 700	4.51	12.18	4
3059	1	1 900	4.11	7.81	8
3060	2	2 400	2.83	6.79	3
JS-1	14	62 000	1.14	70.68	5
JS-2	1	23 000	0.96	22.08	22
JS-3	2	380 000	0.49	186.20	93
JS-4	1	4 600	0.83	3.82	4

File: H.24;Heather/Lake
11/Feb/88

FIGURE 8 : AVERAGE WEIGHT OF GOLD PARTICLES OBSERVED IN CONCENTRATES OF TILL SAMPLES COLLECTED AT HEATHER LAKE. WEIGHT IN MICROGRAMS



PROJECT: HEATHER LAKE

CLAIMS: L643854, L643855
L643851, L643858

HUDSON BAY EXPLORATION
AND
DEVELOPMENT CO. LTD.
EASTERN DISTRICT

SCALE: 1:5000 LOOKING: PLAN

DATE: 31 Dec. 1987 LOGGED BY: -

GROUP: HEATHER DRAWN BY: R. DAVIES

APPROVED BY: -

STRIPPING OF GOLD ANOMALY

A Catapillar 215 backhoe and a D7G bulldozer was contracted from K.T. Lacarte Construction of Englehart and was used to strip overburden from 7 trenches across an apparent northeast striking cut-off zone at the head of the gold particle train. Small bedrock depressions and rock surfaces in trenches 1 and 2 were washed clean with a high pressure Wajax fire pump. Parts of other trenches were also washed and water in bedrock depressions was drained with a Honda pump. The total length of the trenches was 370 meters, and 116 heavy equipment machine hours were used. The extent and location of the trenches is shown in figure 9 and a sketch of each of the trenches is shown in appendix 2.

The first trench was excavated across the highest value along the cut-off zone at the head of the gold particle train. This coincides with a shallow topographic low which strikes northwest-southeast parallel to the last ice flow direction. Excavation of this trench was more difficult than expected. Large angular slabs of mineralised rock plucked from sheared bedrock were difficult to move because the till in which they were embedded was partly cemented with limonitic iron oxides. The shear zones from which the slabs came were deep bedrock depressions filled with till and had to be excavated by hand.

The deeper depressions filled with limonite cemented tills probably relate to an old ice flow direction as several of these contain striations that strike 235°T. The bedrock highs contain striations that strike 155°T and are related to the last ice flow direction.

DETAILED SAMPLING OF OVERBURDEN IN WALLS OF TRENCH 1

11 Large samples and 55 small samples of overburden were collected from the walls of trench number 1 and processed as before to determine exactly where the gold values originate. Details of these samples are found in tables 1 and 3.

The small samples were collected from the till from the 5 cms immediately above bedrock at intervals of 5 metres along the trench starting from the original high value of 320 ppb at the down-ice end of the trench and ending at the low value of 2 ppb at the up-ice end of the trench. Samples were also taken at 30 cms intervals through the vertical till section at 6 suitable sites. The location of samples in trench 1 are shown in figure 10. The distribution of gold values in the overburden in trench 1 is shown in figure 11.

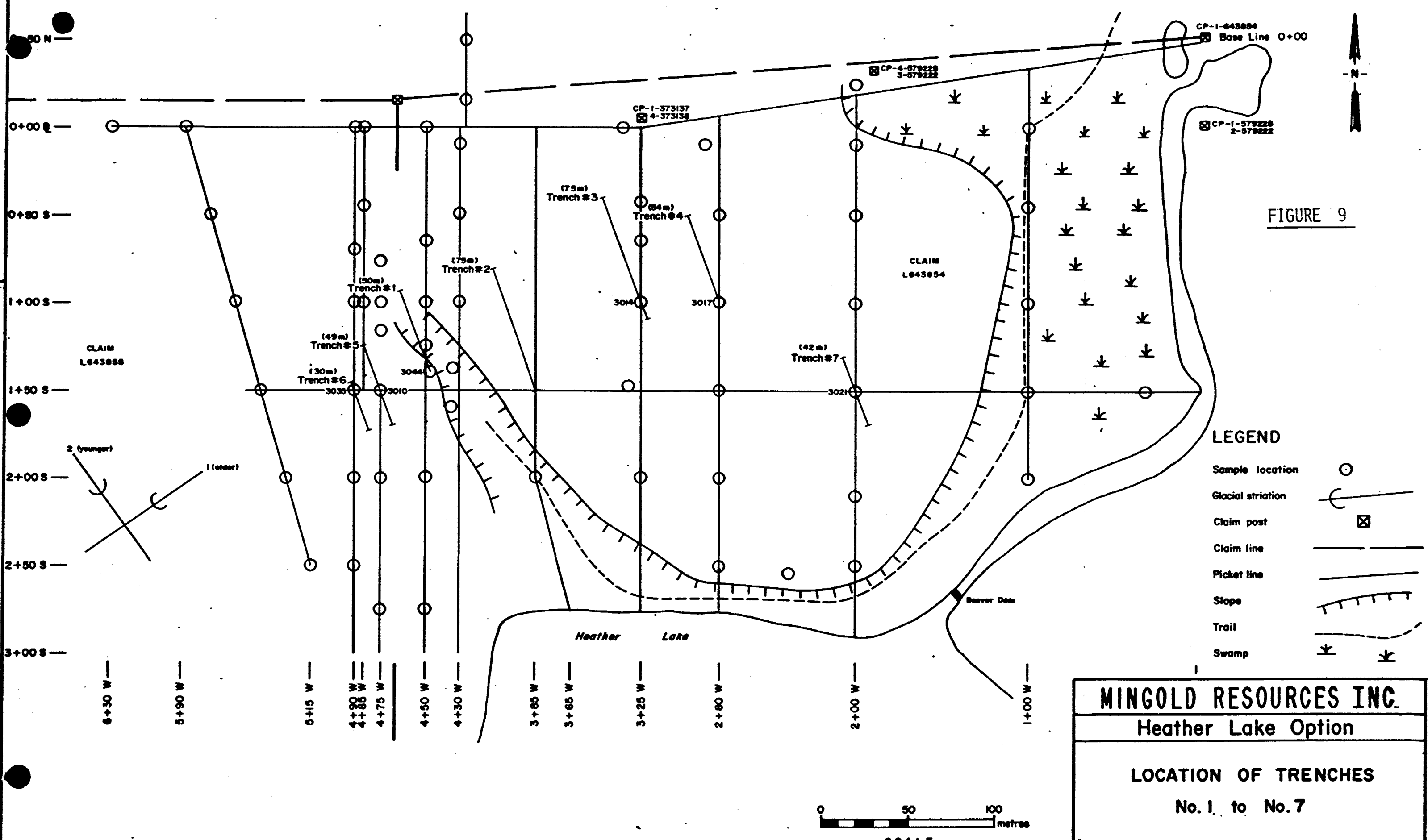
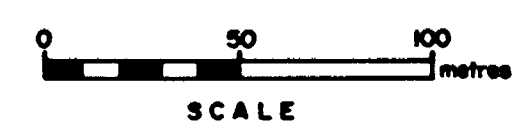


FIGURE 9

- LEGEND**
- Sample location
 - Glacial striation
 - Claim post
 - Claim line
 - Picket line
 - Slope
 - Trail
 - Swamp

MINGOLD RESOURCES INC.			
Heather Lake Option			
LOCATION OF TRENCHES			
No. 1. to No. 7			
Drawn: Gagné	Date:	Scale: 1:2,000	Dwg. no.:



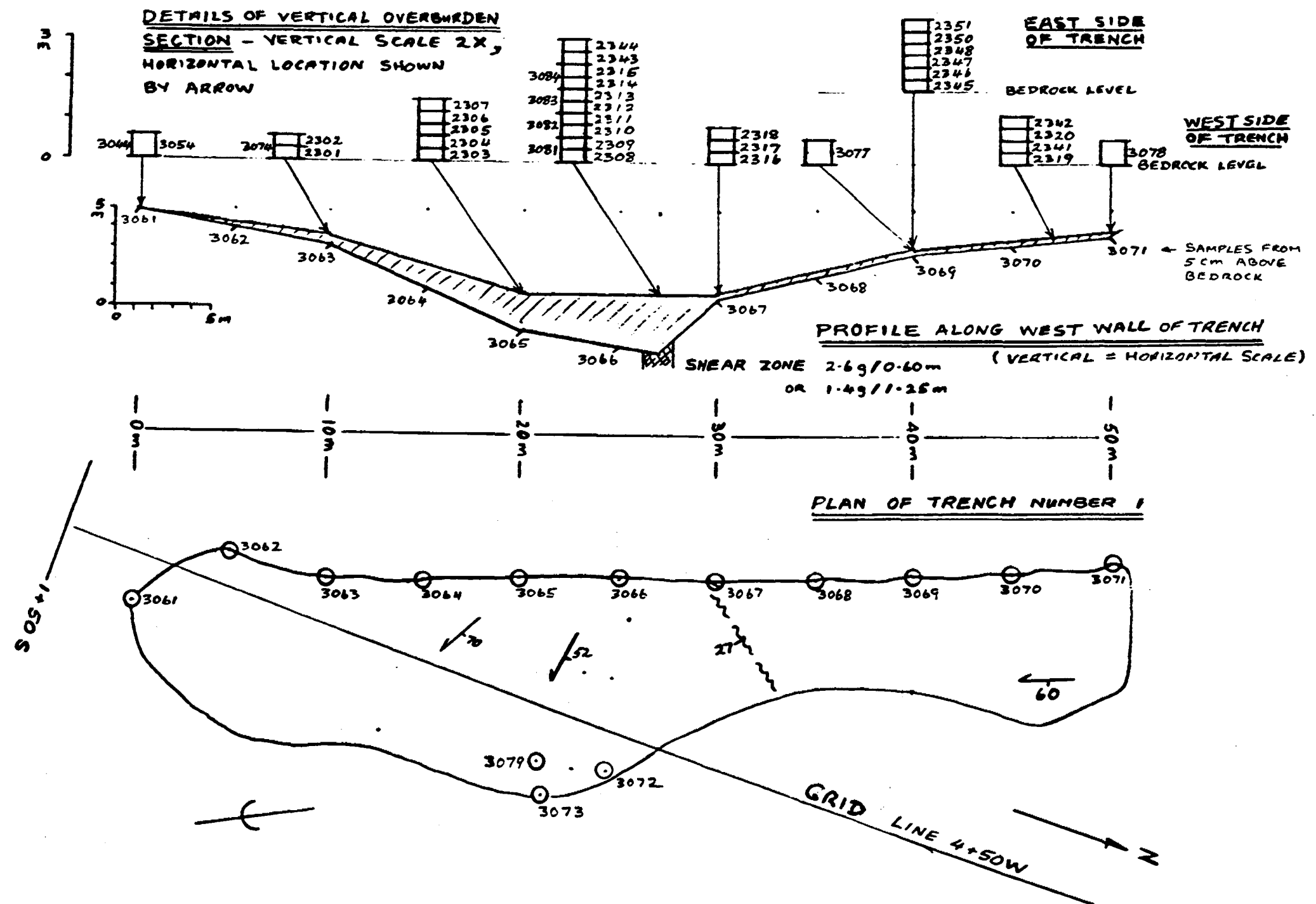


FIGURE 10 : LOCATION OF DETAILED OVERBURDEN SAMPLES IN TRENCH 1 ON HEATHER LAKE CLAIMS

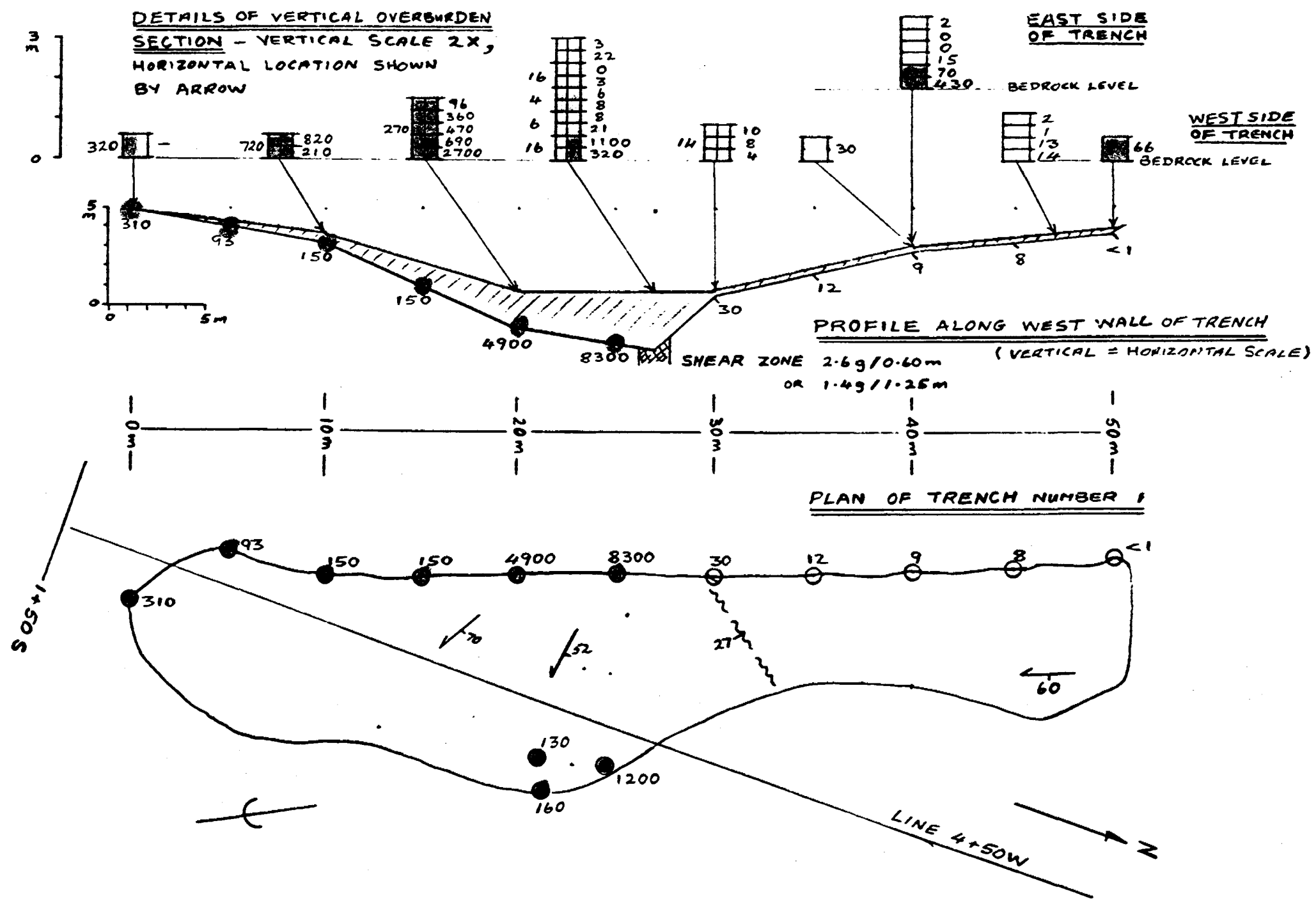


FIGURE 11 : GOLD AS PPB IN -100 MESH FRACTION OF GLACIAL TILL COLLECTED IN TRENCH 1 ON HEATHER LAKE CLAIMS

Gold values increase from the original high of 320 ppb to 8300 ppb 25 metres further up-ice at the down-ice side of the deepest part of the trench. This coincides with gold mineralization in a strong shear zone including some broken vein quartz between silicified walls containing fine pyrite. The shear zone appears to have been displaced by a cross fracture to be repeated again at the up-ice (north) end of the trench.

Eleven large till samples were collected from trench 1 at 10 meter intervals starting at the original high gold particle count of 83 at the south end of the trench and proceeding to the original low count of 4 at the north end of the trench. Four samples were also taken through the verticle section in the deepest part of the trench coincident with the mineralised shear zone.

10 Meters up-ice from the original high count is another high count of 82 particles. The counts drop to 9 particles at the 20 metre mark up-ice and to 4 particles at the 27 metre mark above the mineralized shear zone. The distribution of gold particle counts is shown in figure 12.

GRAB SAMPLES FROM TRENCHES 1

12 Grab samples were collected from various trenches before removal of the overburden was complete. The gold values are listed in table 5 and those relating to trench 1 are shown in figure 13.

The most significant gold values were obtained from trench 1. Samples taken from the deepest part of the trench returned gold values of 10,313 ppb and 25,165 ppb and were from fragments of sheared silicious rock containing pyrite.

File: H.30
Heather/Lake

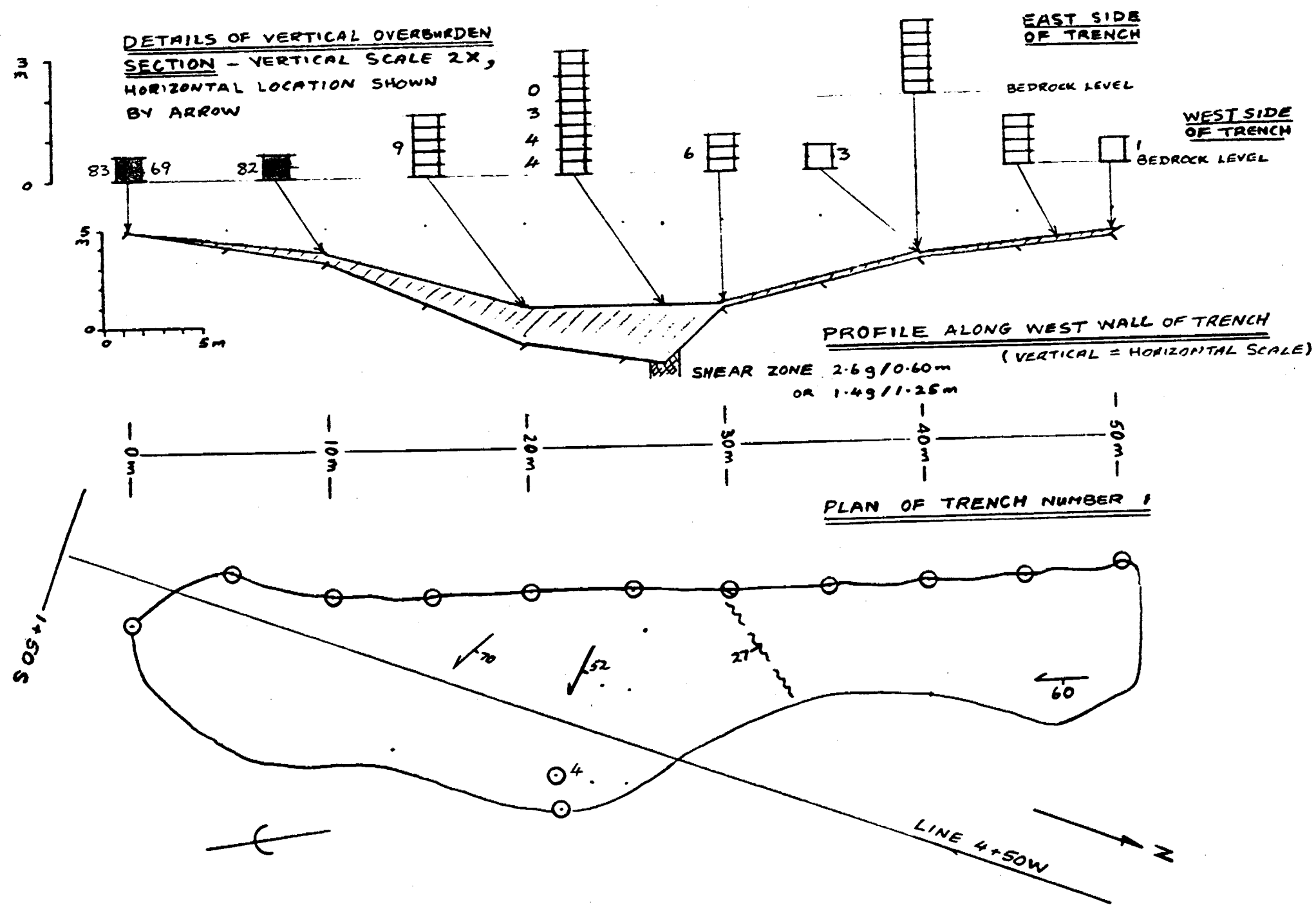


FIGURE 12 : GOLD PARTICLE COUNTS PER 30 KILOGRAMS OF GLACIAL TILL COLLECTED IN TRENCH 1 ON HEATHER LAKE CLAIMS

TABLE 5

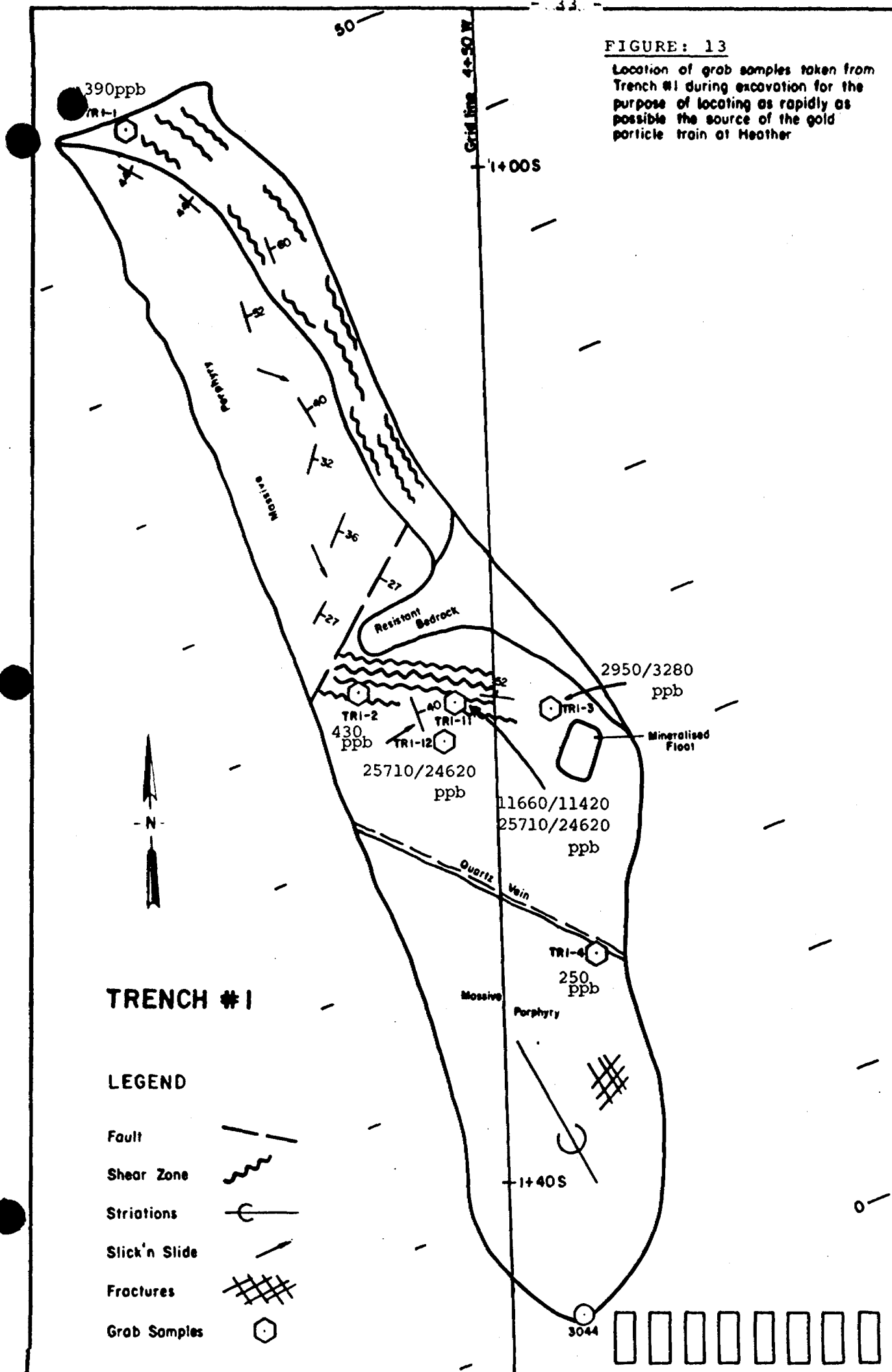
GRAB SAMPLES TAKEN FROM TRENCHES ON HEATHER LAKE CLAIMS
DURING EXCAVATION WITH BACKHOE.

SAMPLE NUMBER	LOCATION	DESCRIPTION	PPB GOLD
TR-1-1	0+98S 4+64W	Fine grained siliceous porphyry with fine-grained pyrite	390
TR-1-2	1+21S 4+55W	Vein quartz in sheared porphyry	430
TR-1-3	1+21S 4+48W	Quartz veinlet (1/2" wide) in porphyry containing chalcopyrite	2950/3280
TR-1-4	1+31S 4+46W	Quartz-carbonate vein	250
TR-1-5	1+53S 4+17W	Vein quartz with chalcopyrite float collected 110' east of trench 1	1020
TR-6-6	1+55S 4+90W	Vuggy quartz vein in shear	10
TR-6-7	1+55S 4+90W	Quartz stringers in porphyry	Nil
TR-2-8	1+12S 3+94W	Carbonate vein	40
TR-3-9	1+00S 3+25W	Vein Quartz	Nil
TR-5-10	1+29S 4+56W	Vein quartz with green copper stain in fractures in porphyry float	Nil
TR-1-11	1+21S 4+52W	Fine-grained siliceous pyrite rock	11660/11420
SECOND PULP			25710/24620
TR-1-12	1+22S 4+52W	Fine-grained siliceous pyrite rock	25710/24620

FILE: H.32
HEATHER/LAKE
11Feb88



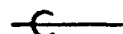



FIGURE: 13

Location of grab samples taken from Trench #1 during excavation for the purpose of locating as rapidly as possible the source of the gold particle train at Heather



TRENCH #1

LEGEND

- Fault 
- Shear Zone 
- Striations 
- Slick'n Slide 
- Fractures 
- Grab Samples 

PROJECT: HEATHER LAKE OPTION
SECTION:

MINGOLD RESOURCES INC.

SCALE: 1:200
DATE: 27/01/88
GROUP: Heather Lake
CLAIM NO.: L643654
LOOKING: Plan
LOGGED BY:
DRAWN BY: Gené
APPROVED BY:

0 1 2 3 4 5 6 7 8 9

CHANNEL SAMPLING

Channel samples at least 2" wide and 1-1/2" deep were cut across the strike of most of the bedrock exposed in trenches 1 and 2. Parts of the bedrock difficult to cut with the saw were sampled with a rock moil. This was the case in the sheared parts of trench 1 where the highest values were obtained and at the south end of trench 2 where the bedrock is very broken. For each sample an equal volume of material was taken from each point along the horizontal section sampled.

A total of 44.62 metres of channel (53 samples) was cut in trench 1 and 44.15 meters (34 samples) in trench 2. The assay values for trenches 1 and 2 are plotted in figures 14 to 16. Channel sample logs and sketches showing sample locations are contained in appendix 3.

The most significant values were obtained in a shear zone from the deepest point of trench 1. This coincides exactly with the up-ice cut-off point of the -100 mesh gold anomaly and the gold particle anomaly. It is also the point from which the high grab samples were collected. The apparent cut-off point for the gold particle anomaly is about 10 meters down-ice of the shear zone indicating perhaps that the coarse gold in the first 10 meters down-ice from the shear is still concentrated at the bedrock surface and the large 30 kilogram sample taken over a 1.5m vertical section with a shovel closest to the shear zone included very little of this part of the gold particle plume. The coarse gold may also be derived from a part of the mineralized zone not exposed in the trench as the ice flow direction is slightly oblique to the length of trench.

CONCLUSION

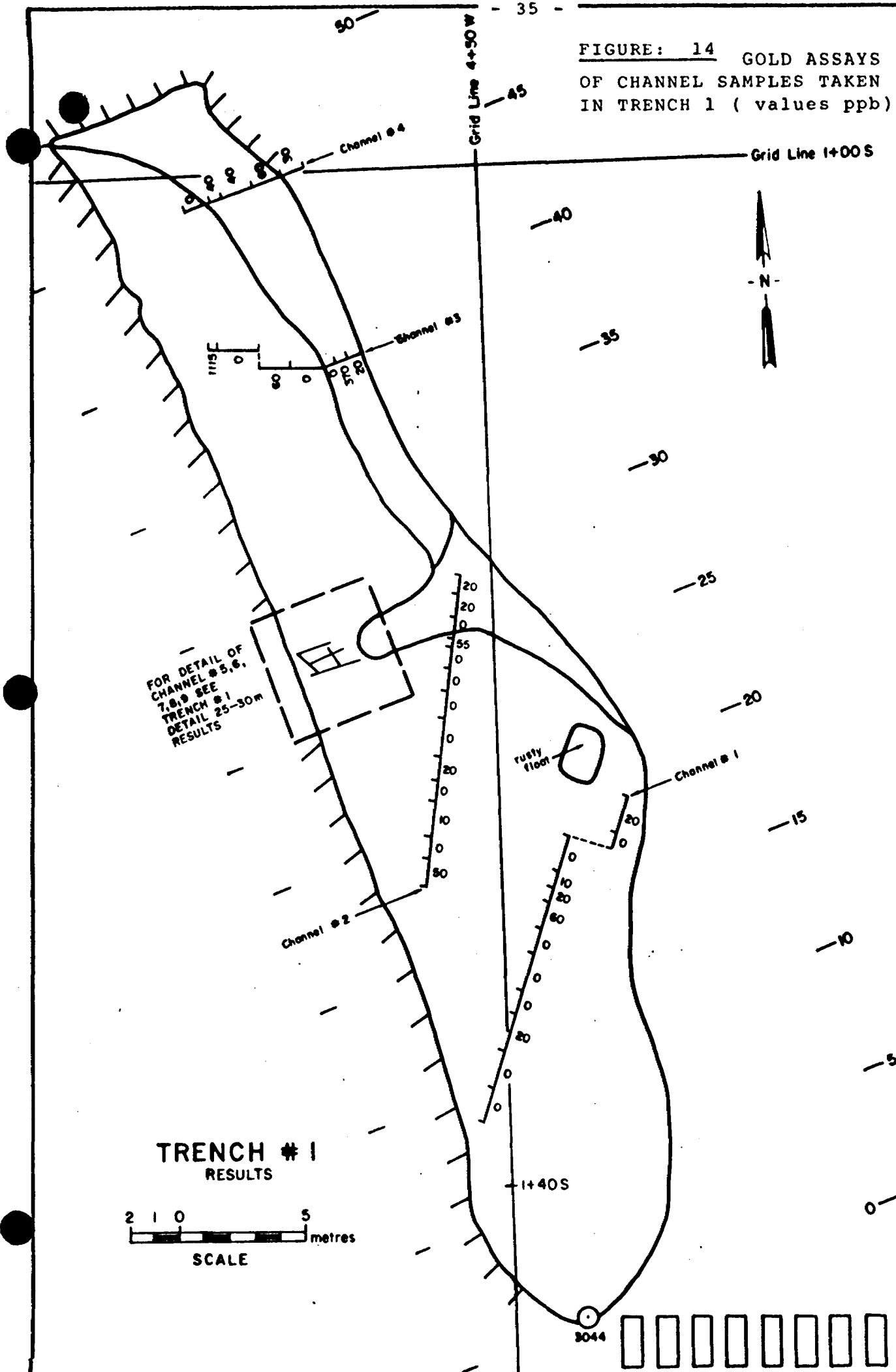
A gold particle dispersion train has been followed to a source in a shear zone which is exposed in backhoe trench 1 on the Heather Lake claims.

RECOMMENDATION

The mineralized shear zone which coincides with a topographic depression should be tested with at least 2 diamond drill holes located 50 feet on either side of the mineralization in trench 1. Electromagnetic anomaly "A" beneath the north part of Heather Lake may be related to the same shear zone and should be diamond drilled at the same time.

FILE: H.18 HEATHER/LAKE

FIGURE: 14 GOLD ASSAYS OF CHANNEL SAMPLES TAKEN IN TRENCH 1 (values ppb)



TRENCH # 1 RESULTS

SCALE 0 1 2 3 4 5 metres

PROJECT: MEATHER LAKE OPTION

SECTION:

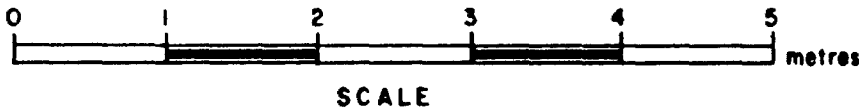
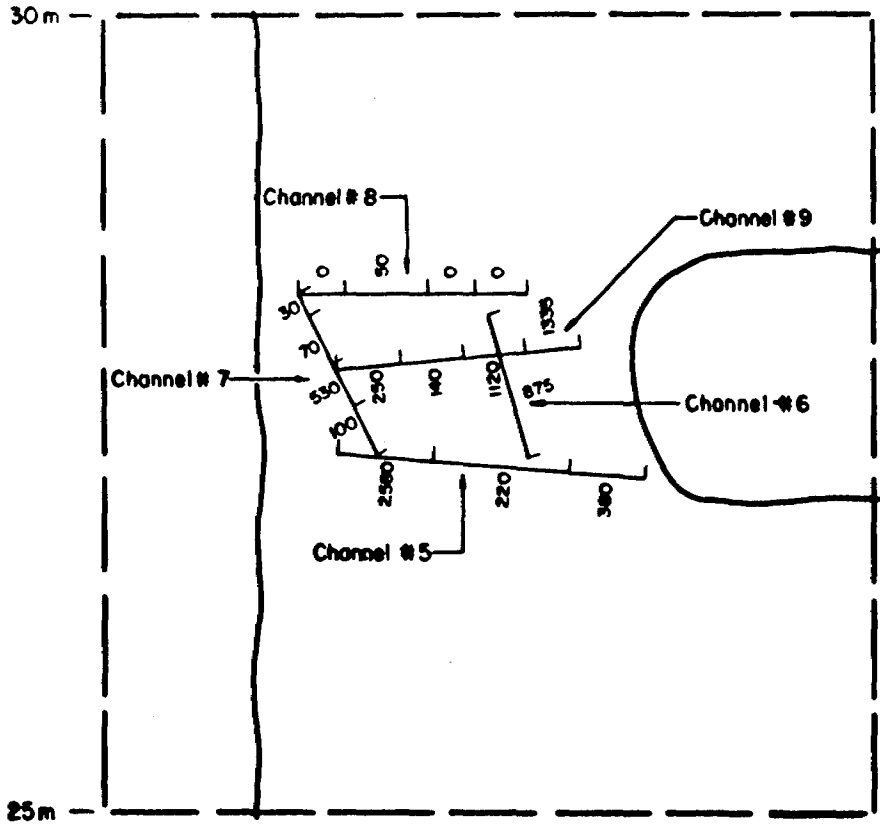
MINGOLD RESOURCES INC.

SCALE: 1:200 LOOKING: Plan
 DATE: 14/02/88 LOGGED BY:
 GROUP: Meather Lake DRAWN BY: Geny
 CLAIM NO.: L643854 APPROVED BY:

3044 [] [] [] [] [] [] [] []

FIGURE 15 GOLD ASSAYS IN PPB OF CHANNEL
SAMPLES FROM DEEPEST PART OF TRENCH # 1

TRENCH # 1
Detail 25 to 30m
Channel 5,6,7,8 & 9
RESULTS



SCALE



PROJECT: WEATHER LAKE OPTION

SECTION:

MINGOLD RESOURCES INC.

SCALE: 1:50 LOOKING: Plan

DATE: 15/02/98 LOGGED BY:

GROUP: Weather Lake DRAWN BY: Gagné

CLAIM NO.: L643854 APPROVED BY:

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Report on Electromagnetic Survey,
Claims L373136, 373137, 373138,
Bryce Township, Ontario, 4p.,
Larder Lake Assessment Work File.

CERTIFICATE

I, RAYMOND DAVIES, of the Borough of North York in the Province of Ontario hereby certify:

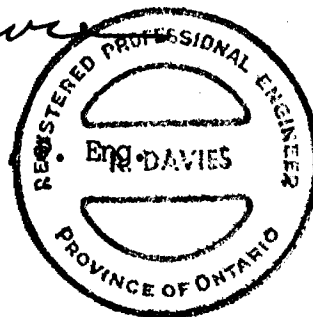
1. That I am a geologist employed by Mingold Resources Inc.
2. That I am a graduate of McGill University in Montreal and hold a Ph.D degree in Geology and I am a member of the Association of Professional Engineers of the province of Ontario. I have been practicing my profession for over twenty-nine years.

Dated at Toronto, Ontario this 31 day of December, 1987

R Davies

31 December 1987

Raymond Davies, Ph.D.



File: H.39
Heather-Lake

APPENDIX 1

CHEMICAL ANALYSES



RECEIVED AUG 18 1987

HEATHER LAKE

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19

DATE SUBMITTED
20-JUL-87

REPORT 1288

REF. FILE 28520-X5

19 HEAVY MINERALS PROJ. HEATHER L

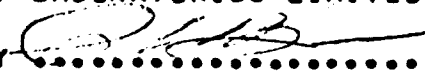
WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
NA %	NA	0.050
CA %	NA	1.000
SC PPM	NA	0.100
CR PPM	NA	10.000
FE %	NA	0.020
CO PPM	NA	5.000
NI PPM	NA	200.000
ZN PPM	NA	200.000
AS PPM	NA	2.000
SE PPM	NA	20.000
MO PPM	NA	20.000
AG PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	200.000
LA PPM	NA	1.000
CE PPM	NA	3.000
SM PPM	NA	0.100
EU PPM	NA	0.200
YB PPM	NA	0.200
LU PPM	NA	0.050
HF PPM	NA	1.000
TA PPM	NA	1.000
W PPM	NA	4.000
IR PPB	NA	50.000
TH PPM	NA	0.500
U PPM	NA	0.500
WEIGHT GM		0.010

XRAL

DATE 14-AUG-87

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY 

XRAL

NOTE: VARIABLE DETECTION LIMITS DUE TO SAMPLE SIZE

SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %
2097	89000	<0.07	<11	84.4	7400	35.9
2098	58000	<0.10	<15	97.5	8600	31.1
2099	17000	0.08	<6	30.0	3600	52.6
2100	25000	0.07	<4	32.8	4100	51.9
2101	7200	<0.05	<14	46.9	5300	45.0
2102	3500	0.34	<3	36.0	1500	34.6
2103	3800	0.11	<7	91.1	5000	28.5
2104	7600	0.14	8	58.7	6800	76.9
2105	1100	0.10	<4	47.3	3300	37.1
2106	1600	0.16	17	111.	7300	55.0
2107	360000	<0.09	<14	34.9	5900	53.7
3001	340000	0.23	<14	49.3	2600	24.8
3002	39000	0.11	<7	58.0	4700	38.7
3003	410000	0.35	<8	45.9	2300	36.8
3004	21000	0.20	<7	86.3	5400	20.2
JS-1	62000	0.10	<9	60.8	4500	40.3
JS-2	23000	<0.14	<20	85.5	10000	27.3
JS-3	380000	0.44	<11	62.6	2300	20.2
JS-4	4600	<0.11	<14	81.7	6400	22.9



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SAMPLE	CO PPM	NI PPM	ZN PPM	AS PPM	SE PPM	MO PPM
2097	49	<900	400	<12	100	<20
2098	50	<1200	500	30	<90	<60
2099	61	<600	300	12	<40	30
2100	48	<400	200	<5	<20	50
2101	52	<1000	<200	<14	<70	<20
2102	36	<400	200	<5	<20	<20
2103	45	<700	300	<9	<40	<20
2104	66	<700	200	10	<40	<20
2105	38	<400	<200	<6	<20	<20
2106	66	<800	300	<10	<30	<20
2107	46	<1000	600	<15	<100	40
3001	46	<1200	<200	<18	<100	<110
3002	40	<600	300	<8	<40	20
3003	53	1300	500	16	<60	<70
3004	34	<600	300	<8	<40	<20
JS-1	59	<900	500	26	<40	60
JS-2	53	<1300	300	<19	<100	<70
JS-3	50	<1100	600	17	<90	<90
JS-4	37	<900	<200	<16	<50	<20



SAMPLE	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM
2097	<5	<1.6	<1900	596	677	45.4
2098	<5	<1.9	<2200	1140	1120	85.0
2099	<5	1.7	<1000	190	219	14.2
2100	14	<0.6	900	290	385	23.6
2101	<5	<1.7	<1600	1030	1190	76.1
2102	<5	<0.6	<500	79	109	10.5
2103	<5	<1.2	<900	558	698	50.1
2104	<5	1.6	<800	618	749	48.3
2105	<5	1.7	<500	285	357	24.4
2106	<5	<1.3	<1100	761	791	62.5
2107	73	<1.8	<3100	823	907	60.0
3001	<5	<2.1	2200	430	402	34.2
3002	<5	<1.0	1100	533	667	44.5
3003	140	<1.4	<3100	251	303	19.2
3004	<5	<1.0	<800	602	657	51.0
JS-1	<5	<1.4	<1600	528	576	38.6
JS-2	<5	<2.3	<2200	2010	1960	146.0
JS-3	<5	<1.8	<3500	375	418	38.9
JS-4	<5	<1.8	<1600	1160	1120	83.2



SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM
2097	<3.8	42.4	8.07	1000	22
2098	12.3	63.9	11.1	1600	35
2099	2.6	15.7	3.60	610	12
2100	<1.4	17.8	3.98	560	14
2101	<4.9	40.1	7.96	1300	43
2102	3.9	10.9	2.67	380	10
2103	5.7	38.4	7.98	840	15
2104	3.3	35.9	6.66	900	37
2105	2.1	20.3	4.04	470	14
2106	<0.2	51.9	9.54	1100	40
2107	<4.8	24.7	5.63	920	35
3001	10.5	14.2	2.99	480	13
3002	3.7	34.0	7.10	990	19
3003	4.0	13.2	2.63	300	10
3004	4.5	38.8	8.17	830	13
JS-1	7.3	31.8	5.64	980	67
JS-2	<0.2	69.7	15.3	2300	69
JS-3	6.9	18.2	4.62	580	21
JS-4	6.1	49.5	11.0	1600	39



SAMPLE	W PPM	IR PPB	TH PPM	U PPM	WEIGHT GM
2097	<28	<50	250.	43.9	1.08
2098	<35	<50	490.	68.6	0.93
2099	28	<50	83.0	21.7	1.32
2100	20	<50	130.	23.5	1.68
2101	<29	<50	430.	62.7	1.03
2102	<11	<50	31.0	10.3	1.19
2103	35	<50	240.	32.3	0.80
2104	<19	<50	270.	43.2	1.19
2105	18	<50	130.	22.4	1.37
2106	<24	<50	340.	45.8	0.92
2107	<31	<50	350.	35.5	0.92
3001	<38	<50	160.	<33.0	1.06
3002	<19	<50	220.	38.6	0.89
3003	<26	<50	98.0	23.5	0.93
3004	<19	<50	260.	44.3	1.01
JS-1	41	<50	210.	36.4	1.14
JS-2	49	<50	880.	113.	0.96
JS-3	<36	<50	150.	44.8	0.49
JS-4	<35	<50	500.	60.7	0.83



EXTRA
Heather G

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19
DATE SUBMITTED
9-SEP-87

REPORT 1827

REF. FILE 29207-X5

56 HEAVY MINERALS PROJ. HEATHER
WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
NA %	NA	0.050
CA %	NA	1.000
SC PPM	NA	0.100
CR PPM	NA	10.000
FE %	NA	0.020
CO PPM	NA	5.000
NI PPM	NA	200.000
ZN PPM	NA	200.000
AS PPM	NA	2.000
SE PPM	NA	20.000
MO PPM	NA	20.000
AG PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	200.000
LA PPM	NA	1.000
CE PPM	NA	3.000
SM PPM	NA	0.100
EU PPM	NA	0.200
YB PPM	NA	0.200



	METHOD	DETECTION LIMIT
LU PPM	NA	0.050
HF PPM	NA	1.000
TA PPM	NA	1.000
W PPM	NA	4.000
IR PPS	NA	50.000
TH PPM	NA	0.500
U PPM	NA	0.500
WEIGHT GM		0.010

DATE 30-SEP-87

X-RAY ASSAY LABORATORIES LIMITED
 CERTIFIED BY 

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NCTE: DETECTION LIMITS ARE VARIABLE DUE TO THE
NATURE OF THE SAMPLE.



SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %
3005	12000	<0.05	<10	18.6	3800	47.0
3006	3700	0.41	<4	52.4	2500	31.0
3007	1400	0.14	<5	32.9	3200	41.4
3008	6100	0.09	<3	31.6	3000	42.3
3009	23000	<0.05	10	27.8	4400	46.4
3010	5000	0.25	<3	44.1	2800	39.3
3011	190	0.19	<3	41.8	2600	38.5
3012	8000	0.08	<18	64.2	5800	27.8
3013	1100	0.28	4	46.6	2500	33.9
3014	24000	0.19	<5	43.4	3600	40.9
3015	2900	0.39	3	35.6	1900	30.7
3016	14000	0.57	<3	45.5	2300	29.3
3017	15000	0.85	<3	39.7	2300	46.7
3018	6800	0.33	<4	42.1	2200	38.1
3019	7300	0.42	5	44.3	2500	43.8
3020	43000	0.63	5	43.2	2100	33.0
3021	9400	1.10	<2	39.3	870	10.2
3022	23000	0.38	<5	43.3	3100	50.8
3023	20000	0.19	<4	40.1	3200	55.0
3024	4000	1.00	5	45.1	1800	29.3
3025	1600	0.54	<5	54.3	2300	40.1
3026	4100	0.26	<5	46.2	2500	34.0
3027	3000	1.30	<2	33.4	880	14.8
3028	120	0.13	3	50.7	2800	30.0
3029	350	0.29	<6	84.2	3200	19.5
3030	650	0.87	12	90.9	3700	40.2
3031	480	0.62	6	67.3	2700	29.3
3032	1000	0.28	6	51.5	2900	44.2
3033	9700	0.12	<4	34.2	2300	47.5
3034	1500	0.00	<4	29.2	3100	58.8
3035	17000	0.20	<5	46.2	3100	47.0
3036	1100	0.51	6	69.2	2400	18.3
3037	1200	0.26	<4	40.4	2800	48.7
3038	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
3039	58000	0.27	<4	44.1	2300	47.3
3040	7000	0.57	4	43.1	1700	23.0
3041	3900	0.28	<4	40.8	2900	47.3
3042	5300	0.52	<3	39.4	1800	32.0
3043	11000	0.30	<5	51.2	3600	59.7
3044	210000	0.41	<6	45.1	3600	52.2
3045	4700	0.23	<6	46.4	4300	64.1
3046	3000	0.74	<3	42.9	1700	18.1
3047	5700	0.57	<5	50.5	2800	47.5
3048	5700	0.20	<4	32.9	2600	46.7
3049	2300	1.10	13	72.2	2400	18.2
3050	11000	0.86	4	30.2	1100	15.8
3051	570	1.00	2	25.5	940	15.4
3052	3400	0.26	<1	45.4	2800	29.4

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



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SAMPLE	AU PPB	NA %	CA %	SC PPM	CR PPM	FE %
3053	1300	0.71	<4	43.3	1600	17.0
3054	95000	0.14	5	33.9	2300	33.0
3055	7300	0.25	<6	53.4	3400	48.8
3056	8300	0.90	10	98.8	3600	37.8
3057	15000	0.14	<3	24.4	1600	24.1
3058	2700	0.18	<4	47.1	3800	65.2
3059	1900	0.38	<5	56.2	3700	60.6
3060	2400	0.30	5	49.4	2100	27.0



SAMPLE	CO PPM	NI PPM	ZN PPM	AS PPM	SE PPM	MO PPM
3005	42	<900	<200	<6	<40	<30
3006	36	<500	200	<3	<20	<20
3007	44	<600	300	6	<20	<20
3008	37	<400	<200	<2	<20	<20
3009	39	<800	<200	<5	<30	<20
3010	43	<200	<200	<2	<20	<20
3011	43	<400	200	4	<20	<20
3012	39	<1400	<400	<10	<60	<20
3013	40	<400	200	<2	<20	<20
3014	37	<1100	300	<4	<30	<20
3015	36	<400	200	<2	<20	<20
3016	33	<300	200	<2	<20	<20
3017	46	<500	400	<2	<20	20
3018	39	<600	200	<3	<20	<20
3019	40	<500	300	<2	<20	<20
3020	42	<500	300	<2	<20	<20
3021	20	<300	<200	<2	<20	<20
3022	40	<700	300	<3	<20	<20
3023	46	<600	300	<3	<30	<20
3024	36	<600	300	3	<20	<20
3025	41	<600	400	<3	<20	<20
3026	40	<600	200	<3	<20	<20
3027	30	<300	<200	3	<20	<20
3028	36	<500	300	<2	<20	<20
3029	39	<700	200	<5	<40	<20
3030	53	<900	500	<4	<30	<20
3031	32	<600	200	<3	<30	<20
3032	38	<500	200	<2	<20	<20
3033	37	<500	200	<2	<20	<20
3034	41	<600	200	<2	<20	<20
3035	43	<600	500	<3	<40	<20
3036	32	<400	<200	<3	<20	<20
3037	46	<600	300	<3	<30	<20
3038	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
3039	41	<600	300	<3	<40	50
3040	31	<400	<200	2	30	<20
3041	42	<600	300	<3	<30	20
3042	33	<500	200	3	<20	<20
3043	48	<700	500	<3	<20	<20
3044	41	<800	300	<4	<40	<20
3045	52	<700	400	<4	200	<20
3046	29	<400	<200	<3	<20	<20
3047	43	<600	400	4	<20	<20
3048	35	<600	200	<3	70	<20
3049	27	<600	200	<3	90	20
3050	23	<300	<200	<2	<20	<20
3051	23	400	<200	<2	<20	<20
3052	26	<400	200	<2	<20	<20

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



SAMPLE	CD PPM	NI PPM	ZN PPM	AS PPM	SE PPM	MO PPM
3053	21	<300	<200	<2	<20	<20
3054	39	<500	<200	<3	<20	<20
3055	51	<700	200	<5	<30	<20
3056	45	<200	<200	<2	<20	<20
3057	20	<400	<200	<2	<20	<20
3058	50	<600	300	<2	<20	<20
3059	57	<700	400	5	<30	<20
3060	34	<300	<200	<2	<20	<20



SAMPLE	AG PPM	SB PPM	BA PPM	LA PPM	CE PPM	SM PPM
3005	<5	1.4	<1700	745	754	54.5
3006	<5	<0.6	<1500	282	345	76.3
3007	<5	<0.7	<800	332	397	23.6
3008	<5	0.8	700	270	504	21.5
3009	<5	<1.0	<1000	692	745	53.9
3010	<5	<0.6	<600	132	198	13.8
3011	<5	0.7	<400	159	232	16.2
3012	<5	<1.9	<2200	1360	1300	103.
3013	<5	<0.4	<300	210	228	18.0
3014	<5	<0.7	<700	409	466	33.5
3015	<5	<0.4	<300	127	155	12.6
3016	<5	<0.4	<400	153	178	14.9
3017	<5	<0.3	300	108	229	18.2
3018	<5	<0.4	<500	195	405	25.5
3019	<5	<0.3	500	199	420	27.4
3020	<5	<0.3	600	147	266	22.8
3021	<5	0.8	400	105	136	12.7
3022	<5	<0.5	<1100	292	491	35.6
3023	<5	<0.4	<500	262	460	<0.1
3024	<5	<0.4	400	124	239	21.6
3025	<5	<0.5	<500	229	477	32.1
3026	<5	<0.6	<700	267	304	19.0
3027	<5	<0.4	<300	68	93	9.0
3028	<5	<0.4	500	259	433	<0.1
3029	<5	<0.8	<2000	455	460	37.4
3030	<5	<0.6	<600	360	752	53.9
3031	<5	<0.5	<900	266	592	37.9
3032	<5	<0.4	<400	272	457	37.3
3033	<5	<0.4	<700	240	392	25.6
3034	<5	<0.4	500	283	457	30.4
3035	<5	0.9	<600	286	490	<0.1
3036	<5	<0.5	<400	303	648	27.1
3037	<5	<0.5	500	209	336	<0.1
3038	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
3039	<5	<0.4	<700	257	469	<0.1
3040	<5	<0.4	<1000	138	187	14.5
3041	<5	0.6	500	172	293	<0.1
3042	<5	<0.4	<400	113	254	16.0
3043	<5	<0.5	600	308	576	43.1
3044	73	<0.6	<1300	281	499	36.3
3045	<5	<0.5	<600	404	735	<0.1
3046	<5	0.7	700	136	174	15.9
3047	<5	0.5	<600	248	450	37.0
3048	<5	<0.4	<600	236	537	26.5
3049	<5	0.8	600	276	740	52.7
3050	<5	<0.3	600	80	106	9.7
2051	<5	<0.3	<700	67	91	9.3
3052	<5	0.6	300	257	565	32.5

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



SAMPLE	AG PPM	S3 PPM	SA PPM	LA PPM	CE PPM	SM PPM
3053	<5	<0.4	590	217	231	19.4
3054	<5	<0.5	<1000	173	178	13.1
3055	<5	<0.3	700	343	351	25.6
3056	<5	<0.3	<500	417	599	39.5
3057	<5	<0.3	<400	145	278	18.4
3058	<5	<0.5	<900	293	520	37.7
3059	<5	0.5	<500	265	512	<0.1
3060	<5	<0.4	<1000	222	321	21.0



SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM
3005	5.5	20.4	3.62	560	39
3006	3.5	16.6	3.49	320	16
3007	3.0	15.6	3.21	400	20
3008	2.1	13.4	3.05	320	14
3009	4.4	21.8	4.99	650	50
3010	1.9	13.4	2.94	250	18
3011	3.3	14.5	2.73	270	11
3012	9.8	44.5	11.0	1200	81
3013	3.7	15.5	2.93	280	11
3014	3.1	22.2	3.97	490	21
3015	2.5	9.7	1.94	170	11
3016	2.1	13.2	2.59	220	13
3017	<0.2	11.7	2.10	110	5
3018	2.0	15.2	2.46	210	8
3019	3.1	15.8	2.96	240	9
3020	2.9	15.0	2.64	150	8
3021	2.7	8.3	1.74	130	12
3022	6.6	17.9	3.29	290	13
3023	3.8	17.0	3.66	300	13
3024	<0.2	12.2	2.11	150	5
3025	3.3	16.6	2.93	200	7
3026	<2.1	15.8	3.37	300	14
3027	2.3	5.6	1.26	62	5
3028	<0.2	20.4	3.43	300	11
3029	7.4	29.9	5.97	530	20
3030	5.5	32.1	5.74	430	14
3031	3.8	22.7	3.90	310	15
3032	3.5	20.3	3.76	310	7
3033	2.9	15.0	3.14	300	8
3034	4.9	14.7	2.60	280	10
3035	4.5	21.0	3.67	350	11
3036	3.6	22.1	4.41	410	14
3037	3.4	15.9	2.72	230	6
3038	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
3039	3.8	19.2	3.17	290	7
3040	2.9	11.7	2.33	180	7
3041	<0.2	14.8	2.43	200	6
3042	<0.2	11.4	2.32	190	6
3043	3.4	21.3	3.35	350	11
3044	3.4	24.7	3.45	400	12
3045	3.5	23.7	4.37	390	22
3046	2.9	11.1	2.40	190	12
3047	<0.2	17.7	3.23	280	7
3048	<0.2	13.4	2.77	230	11
3049	7.4	24.5	4.06	340	10
3050	2.5	6.9	1.46	110	11
3051	1.7	4.5	0.90	58	16
3052	2.2	18.3	2.31	300	15

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



SAMPLE	EU PPM	YB PPM	LU PPM	HF PPM	TA PPM
3053	2.5	14.0	2.64	230	12
3054	<1.7	10.9	2.24	240	15
3055	5.0	16.3	3.55	330	27
3056	5.8	30.7	5.72	520	21
3057	1.7	9.9	1.74	160	5
3058	3.3	20.8	3.60	300	13
3059	3.3	19.9	3.61	280	9
3060	2.6	15.4	3.03	260	13



SAMPLE	W PPM	IR PPB	TH PPM	U PPM	WEIGHT GM
3005	<12	<50	320.	42.3	1.80
3006	<7	<50	120.	14.9	1.72
3007	<8	<50	140.	23.3	2.98
3008	<5	<50	120.	15.2	2.80
3009	19	<50	310.	33.2	1.01
3010	12	<50	57.0	13.3	1.44
3011	8	<50	69.0	12.8	2.41
3012	<20	<50	600.	67.9	1.04
3013	<4	<50	92.0	13.1	3.61
3014	<7	<50	190.	23.2	1.72
3015	<5	<50	51.0	5.9	2.10
3016	6	<50	67.0	11.0	3.16
3017	12	<50	52.0	4.3	6.05
3018	<6	<50	87.0	9.8	4.25
3019	<5	<50	90.0	12.0	7.18
3020	<5	<50	64.0	8.3	5.90
3021	<5	<50	41.0	5.1	2.23
3022	18	<50	130.	7.7	4.00
3023	<6	<50	120.	16.4	5.39
3024	<6	<50	50.0	6.4	4.59
3025	13	<50	100.	11.3	4.11
3026	15	<50	120.	15.4	3.48
3027	<5	<50	24.0	4.7	2.05
3028	8	<50	120.	16.1	6.75
3029	<10	<50	200.	25.4	2.99
3030	10	<50	150.	16.8	3.69
3031	<7	<50	110.	14.7	4.70
3032	<6	<50	120.	16.8	7.00
3033	<5	<50	110.	15.9	6.52
3034	<6	<50	140.	14.0	6.14
3035	<7	<50	130.	20.3	4.39
3036	7	<50	130.	21.0	2.95
3037	<7	<50	98.0	10.7	3.53
3038	SMP MISS	SMP MISS	SMP MISS	SMP MISS	2.66
3039	<7	<50	120.	17.4	5.06
3040	<5	<50	55.0	9.1	2.58
3041	14	<50	73.0	11.5	4.28
3042	<6	<50	49.0	7.0	4.62
3043	<8	<50	150.	13.5	4.52
3044	<9	<50	130.	19.3	3.38
3045	<9	<50	210.	22.8	4.00
3046	<6	<50	55.0	9.1	1.39
3047	11	<50	110.	15.2	3.98
3048	<6	<50	110.	12.2	4.56
3049	<8	<50	120.	17.4	3.92
3050	<4	<50	31.0	4.9	2.62
3051	<4	<50	25.0	3.7	2.62
3052	<4	<50	120.	19.5	4.49

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



SAMPLE	W PPM	IR PPB	TH PPM	U PPM	WEIGHT GM
3053	<4	<50	95.0	12.4	3.45
3054	<6	<50	75.0	13.6	3.77
3055	<10	<50	150.	20.6	2.65
3056	<4	<50	180.	31.9	3.57
3057	6	<50	67.0	8.9	5.86
3058	<7	<50	140.	16.0	4.51
3059	<8	<50	130.	16.8	4.11
3060	<5	<50	97.0	12.8	2.83



Healthcare Soc.
EXTRA.

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19
DATE SUBMITTED
10-JUN-87

REPORT 32427

REF. FILE 28083-W4

30 SCILS PROJ. NIKILA

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.000
WEIGHT GM		0.010

DATE 23-JUN-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY *[Signature]*



SAMPLE	AU PPB	WEIGHT GM
2090 +9	--	35.5
2090 -9+32	--	21.8
2090 -32+100	--	25.0
2090 -100	31	104.
2091 +9	--	0.76
2091 -9+32	--	4.37
2091 -32+100	--	3.43
2091 -100	2	111.
2092 +9	--	8.96
2092 -9+32	--	2.23
2092 -32+100	--	3.01
2092 -100	4	123.
2093 +9	--	10.4
2093 -9+32	--	7.61
2093 -32+100	--	11.2
2093 -100	19	103.
2094 +9	--	92.7
2094 -9+32	--	23.2
2094 -32+100	--	33.3
2094 -100	69	103.
2095 +9	--	98.8
2095 -9+32	--	17.9
2095 -32+100	--	26.3
2095 -100	23	59.4
2096 +9	--	1.36
2096 -9+32	--	1.06
2096 -32+100	--	1.69
2096 -100	6	147.
2097 +9	--	25.7
2097 -9+32	--	19.1
2097 -32+100	--	15.1
2097 -100	17	64.6
2098 +9	--	66.9
2098 -9+32	--	22.6
2098 -32+100	--	21.3
2098 -100	11	74.5
2099 +9	--	142.
2099 -9+32	--	124.
2099 -32+100	--	24.4
2099 -100	8	11.0
2100 +9	--	109.
2100 -9+32	--	101.
2100 -32+100	--	63.2
2100 -100	13	25.5
2101 +9	--	11.8
2101 -9+32	--	13.0
2101 -32+100	--	13.4
2101 -100	8	164.

124.5

185.3

301.4

298.7

202.2

XRAY

23-JUN-87 REPORT 32427 REF. FILE 28083-W4 PAGE 3 OF 3

SAMPLE	AU PPB	WEIGHT GM	
2102 +9	--	28.6	
2102 -9+32	--	23.6	
2102 -32+100	--	19.0	
2102 -100	4	41.6	112.8
2103 +9	--	64.9	
2103 -9+32	--	20.7	
2103 -32+100	--	19.4	
2103 -100	<1	107.	212.0
2104 +9	--	40.0	
2104 -9+32	--	26.0	
2104 -32+100	--	34.5	
2104 -100	3	84.3	184.8
2105 +9	--	22.6	
2105 -9+32	--	20.2	
2105 -32+100	--	22.8	
2105 -100	8	61.6	127.2
2106 +9	--	25.6	
2106 -9+32	--	11.2	
2106 -32+100	--	16.2	
2106 -100	3	128.	181.0
2107 +9	--	82.1	
2107 -9+32	--	41.4	
2107 -32+100	--	47.2	
2107 -100	110	64.6	235.3



RECEIVED AUG - 5 1987

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19
DATE SUBMITTED
7-JUL-87

REPORT 1140

REF. FILE 28368-R3

72 SOILS

WERE ANALYSED AS FOLLOWS:

Reuther Lake

AU PPB WEIGHT GM	METHOD FADCP	DETECTION LIMIT
		1.000
		0.010

DATE 31-JUL-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY *[Signature]*



SAMPLE	AU PPB	WEIGHT GM
#1 +9	--	228.
#1 -9+32	--	173.
#1 -32+100	--	135.
#1 -100	230	456.
#2 +9	--	142.
#2 -9+32	--	194.
#2 -32+100	--	163.
#2 -100	53	435.
<hr/>		
3001 +9	--	96.6
3001 -9+32	--	27.0
3001 -32+100	--	20.2
3001 -100	6	45.5
3002 +9	--	92.4
3002 -9+32	--	28.0
3002 -32+100	--	24.2
3002 -100	5	35.0
3003 +9	--	40.0
3003 -9+32	--	32.3
3003 -32+100	--	21.7
3003 -100	49	55.3
3004 +9	--	14.0
3004 -9+32	--	32.8
3004 -32+100	--	40.9
3004 -100	11	42.0
3020 +9	--	104.
3020 -9+32	--	49.2
3020 -32+100	--	14.3
3020 -100	11	19.4
<hr/>		
JA 100 +9	--	62.0
JA 100 -9+32	--	34.8
JA 100 -32+100	--	18.2
JA 100 -100	8	26.8
JA 101 +9	--	41.1
JA 101 -9+32	--	24.1
JA 101 -32+100	--	26.9
JA 101 -100	7	50.6
JA 102 +9	--	13.9
JA 102 -9+32	--	16.8
JA 102 -32+100	--	21.1
JA 102 -100	<1	58.6
JA 103 +9	--	10.0
JA 103 -9+32	--	13.4
JA 103 -32+100	--	16.7
JA 103 -100	3	47.0
JA 104 +9	--	16.9
JA 104 -9+32	--	22.6
JA 104 -32+100	--	22.3
JA 104 -100	6	50.6

*Heather
Lake*

Ungava



EXTRA
HEATHER LAKE

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DCMINION CENTRE
TORONTO, ONTARIO M5K 1B9

CUSTOMER NO. 19
DATE SUBMITTED
16-JUL-87

REPORT 1106

REF. FILE 28492-T1

8 SOILS PROJ. HEATHER

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FACCP	1.000
WEIGHT GM		0.010

DATE 29-JUL-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 

XRAL

NOTE: OUR DATA INDICATES THE PRESENCE OF ERRATIC GOLD
IN SAMPLE 3005 -100.



SAMPLE	AU PPB	WEIGHT GM
3005 +9	--	29.6
3005 -9+32	--	34.3
3005 -32+100	--	66.2
3005 -100	510	110.
3006 +9	--	72.8
3006 -9+32	--	113.
3006 -32+100	--	105.
3006 -100	8	107.
3007 +9	--	95.4
3007 -9+32	--	73.4
3007 -32+100	--	84.8
3007 -100	<1	136.
3008 +9	--	198.
3008 -9+32	--	91.6
3008 -32+100	--	90.4
3008 -100	2	108.
3009 +9	--	116.
3009 -9+32	--	86.6
3009 -32+100	--	117.
3009 -100	3	105.
3017 +9	--	76.6
3017 -9+32	--	64.5
3017 -32+100	--	51.0
3017 -100	2	62.4
3018 +9	--	142.
3018 -9+32	--	38.2
3018 -32+100	--	42.0
3018 -100	<1	70.9
3019 +9	--	101.
3019 -9+32	--	75.7
3019 -32+100	--	19.9
3019 -100	3	22.3



EXTRA.
Swayze
?
Heather.

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19
DATE SUBMITTED
5-AUG-87

REPORT 1324

REF. FILE 28737-G5

25 SOILS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.000
WEIGHT GM		0.010

DATE 18-AUG-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 



SAMPLE	AU PPB	WEIGHT GM
SW-86-86 +9	--	154.
SW-86-86 -9+32	--	49.4
SW-86-86 -32+100	--	62.1
SW-86-86 -100	<1	85.9
SW-87-86 +9	--	93.8
SW-87-86 -9+32	--	81.3
SW-87-86 -32+100	--	98.3
SW-87-86 -100	<1	105.
2108 +9	--	18.1
2108 -9+32	--	54.0
2108 -32+100	--	52.1
2108 -100	<1	50.0
2109 +9	--	1.56
2109 -9+32	--	20.7
2109 -32+100	--	56.1
2109 -100	<1	143.
2110 +9	--	46.4
2110 -9+32	--	44.5
2110 -32+100	--	38.2
2110 -100	<1	42.7
3006 +9	--	175.
3006 -9+32	--	157.
3006 -32+100	--	108.
3006 -100	2	112. 552
3008 +9	--	135.
3008 -9+32	--	83.0
3008 -32+100	--	73.7
3008 -100	2	97.5 389.2
3010 +9	--	128.
3010 -9+32	--	106.
3010 -32+100	--	119.
3010 -100	57	52.2 405.2
3011 +9	--	116.
3011 -9+32	--	209.
3011 -32+100	--	130.
3011 -100	<1	92.5 547.5
3012 +9	--	176.
3012 -9+32	--	110.
3012 -32+100	--	132.
3012 -100	<1	98.9 516.9
3013 +9	--	151.
3013 -9+32	--	140.
3013 -32+100	--	148.
3013 -100	3	161. 600
3014 +9	--	93.1
3014 -9+32	--	67.5
3014 -32+100	--	31.8
3014 -100	<1	173. 365.4

Swayze Project

7 Kabon.

3

Repeat

7 ca. 100 Lube



SAMPLE	AU PPB	WEIGHT GM
3015 +9	--	129.
3015 -9+32	--	120.
3015 -32+100	--	111.
3015 -100	5	133. <u>493</u>
3016 +9	--	158.
3016 -9+32	--	135.
3016 -32+100	--	80.2
3016 -100	1	151. <u>524.2</u>
3017 +9	--	171.
3017 -9+32	--	184.
3017 -32+100	--	128.
3017 -100	9	129. <u>612</u>
3018 +9	--	351.
3018 -9+32	--	148.
3018 -32+100	--	83.2
3018 -100	8	39.7 <u>621.9</u>
3019 +9	--	273.
3019 -9+32	--	210.
3019 -32+100	--	152.
3019 -100	8	174. <u>809</u>
3020 +9	--	232.
3020 -9+32	--	109.
3020 -32+100	--	100.
3020 -100	120	118. <u>559</u>
3021 +9	--	161.
3021 -9+32	--	105.
3021 -32+100	--	74.6
3021 -100	5	129. <u>469.6</u>
3022 +9	--	296.
3022 -9+32	--	181.
3022 -32+100	--	129.
3022 -100	3	151. <u>757</u>
3023 +9	--	272.
3023 -9+32	--	172.
3023 -32+100	--	102.
3023 -100	41	127. <u>673</u>
3024 +9	--	185.
3024 -9+32	--	191.
3024 -32+100	--	115.
3024 -100	<1	167. <u>658</u>
3025 +9	--	288.
3025 -9+32	--	143.
3025 -32+100	--	118.
3025 -100	4	111. <u>660</u>
3026 +9	--	104.
3026 -9+32	--	97.5
3026 -32+100	--	95.8
3026 -100	4	131. <u>431.3</u>

XRAY

18-AUG-87 REPORT 1324 REF.FILE 28737-G5 PAGE 3 OF 3

SAMPLE	AU PPB	WEIGHT GM	
3027 +9	--	157.	
3027 -9+32	--	125.	
3027 -32+100	--	68.4	
3027 -100	8	54.5	404.9

XRAL

EXTRA
HEATHER LAKE
SOILS.

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19

DATE SUBMITTED
25-AUG-87

REPORT 1615

REF. FILE 29021-Q5

26 SOILS PROJ. MINGJLD
WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.000
WEIGHT GM		0.010

DATE 15-SEP-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 



SAMPLE	AU PPB	WEIGHT GM		
3028 +9	--	187.		29.7 30
3028 -9+32	--	100.		15.9 16
3028 -32+100	--	131.		20.8 21
3028 -100	3	211.	629	33.5 33
3029 +9	--	253.		34.5 35
3029 -9+32	--	162.		
3029 -32+100	--	205.		22.1 22
3029 -100	3	113.	733	27.9 28
3030 +9	--	237.		15.4 15
3030 -9+32	--	151.		34.5 35
3030 -32+100	--	145.		23.5 23
3030 -100	3	143.	686	21.1 21
3031 +9	--	258.		20.9 21
3031 -9+32	--	143.		39.1 39
3031 -32+100	--	122.		21.7 22
3031 -100	1	136.	659	18.5 18
3032 +9	--	301.		20.6 21
3032 -9+32	--	138.		40.8 41
3032 -32+100	--	153.		18.7 19
3032 -100	4	135.	737	22.1 22
3033 +9	--	137.		18.3 18
3033 -9+32	--	105.		20.8 21
3033 -32+100	--	153.		15.9 16
3033 -100	3	252.	657	24.8 25
3034 +9	--	300.		38.4 38
3034 -9+32	--	135.		41.2 41
3034 -32+100	--	199.		18.5 19
3034 -100	<1	94.7	728.70	27.3 27
3035 +9	--	157.		13.0 13
3035 -9+32	--	82.4		28 28
3035 -32+100	--	76.8		13.8 14
3035 -100	2	257.	593.20	12.9 13
3036 +9	--	146.		45 45
3036 -9+32	--	94.5		24.9 25
3036 -32+100	--	129.		16.2 16
3036 -100	3	215.	584.50	22.1 22
3037 +9	--	296.		36.8 37
3037 -9+32	--	186.		43.2 43
3037 -32+100	--	100.		27.1 27
3037 -100	4	103.	685	14.6 15
3038 +9	--	135.		15.0 15
3038 -9+32	--	53.3		31.1 31
3038 -32+100	--	73.1		14.6 15
3038 -100	10	153.	434.40	16.8 17
3039 +9	--	195.		37.5 37
3039 -9+32	--	99.9		36.1 36
3039 -32+100	--	89.2		18.5 19
3039 -100	<1	156.	540.10	16.5 16
				28.9 29

X-RAY

SAMPLE	AU PPB	WEIGHT GM		
3040 +9	--	103.	26.1	26
3040 -9+32	--	52.4	13.3	13
3040 -32+100	--	55.8	16.7	17
3040 -100	7	173.	43.9	44
3041 +9	--	161.	33.5	34
3041 -9+32	--	98.3	20.5	20
3041 -32+100	--	114.	23.7	24
3041 -100	5	107.	22.3	22
3042 +9	--	195.	31.4	31
3042 -9+32	--	122.	19.7	20
3042 -32+100	--	121.	19.5	19
3042 -100	<1	183.	29.5	30
3043 +9	--	199.	36.8	37
3043 -9+32	--	121.	22.4	22
3043 -32+100	--	86.2	15.9	16
3043 -100	2	134.	24.8	25
3044 +9	--	142.	32.4	32
3044 -9+32	--	100.	22.8	23
3044 -32+100	--	85.7	19.5	20
3044 -100	320	111.	25.3	25
3045 +9	--	146.	30.1	30
3045 -9+32	--	101.	20.8	21
3045 -32+100	--	98.1	20.2	20
3045 -100	2	140.	28.9	29
3046 +9	--	85.5	22.7	23
3046 -9+32	--	72.1	19.2	19
3046 -32+100	--	97.8	25.9	26
3046 -100	3	121.	32.2	32
3047 +9	--	68.1	26.3	26
3047 -9+32	--	69.1	26.7	27
3047 -32+100	--	44.3	17.1	17
3047 -100	<1	77.3	29.9	30
3048 +9	--	248.	37.8	38
3048 -9+32	--	166.	25.3	25
3048 -32+100	--	125.	19.0	19
3048 -100	9	118.	17.9	18
3049 +9	--	137.	24.4	24
3049 -9+32	--	115.	20.5	21
3049 -32+100	--	97.6	17.4	17
3049 -100	4	212.	37.6	38
3050 +9	--	186.	35.5	35
3050 -9+32	--	131.	24.9	25
3050 -32+100	--	97.2	18.5	19
3050 -100	35	110.	20.9	21
3051 +9	--	228.	43.1	43
3051 -9+32	--	150.	30.2	30
3051 -32+100	--	97.3	18.4	18
3051 -100	4	43.9	8.3	8 (47)

XRAY

SAMPLE	AU PPB	WEIGHT GM		
3052 +9	--	107.	23.2	23
3052 -9+32	--	78.3	16.9	17
3052 -32+100	--	111.	24.0	24
3052 -100	5	166.	35.9	36
3053 +9	--	171.	35.2	35
3053 -9+32	--	113.	23.2	23
3053 -32+100	--	89.3	18.4	18
3053 -100	4	113.	23.2	23 (99)

XRAL

HEATHER LAKE TILL
EXTRA.

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19

DATE SUBMITTED
2-SEP-87

REPORT 1703

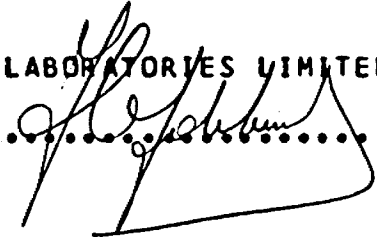
REF. FILE 29142-04

20 SOILS PRDJ. MINGOLD

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.000
WEIGHT GM		0.010

DATE 23-SEP-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 

OFFICE COPY: DISTRIBUTION 19- 1- 2 R212:
INVOICE : 19- 1- 2

XRAY

SAMPLE	AU PPB	WEIGHT GM
3056 +9	--	247. 39
3056 -9+32	--	147. 23
3056 -32+100	--	126. 20
3056 -100	5	118. <u>18/638</u>
3057 +9	--	287. 49
3057 -9+32	--	80.7 14
3057 -32+100	--	90.5 15
3057 -100	120	127. <u>22 595.2</u>
3058 +9	--	206. 39
3058 -9+32	--	96.9 18
3058 -32+100	--	84.7 16
3058 -100	7	147. <u>27 534.6</u>
3059 +9	--	296. 44
3059 -9+32	--	122. 18
3059 -32+100	--	108. 16
3059 -100	2	152. <u>22 678</u>
3060 +9	--	86.9 13
3060 -9+32	--	185. 27
3060 -32+100	--	204. 30
3060 -100	2	210. <u>30 685.9</u>

XRAL

EXTRA

RECEIVED JAN 18 1988

**CERTIFICATE OF ANALYSIS
REPORT 2210**

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED	CUSTOMER No.	19
ATTN: R. DAVIES	DATE SUBMITTED	28-Sep-87
P.O. BOX 28		
TORONTO-DOMINION CENTRE		
TORONTO, ONTARIO M5K 1B8		

REF. FILE 29513-J5 Total Pages 3

30 SOILS PROJ. META-HEATHER

AU PPB	METHOD	DETECTION LIMIT
WEIGHT GM	FADCP	1.
		0.01

CORRECTED REPORT
with sieve analysis.

DATE 13-JAN-88

X-RAY ASSAY LABORATORIES LIMITED
 CERTIFIED BY *[Signature]*

SAMPLE	AU PPB	WEIGHT GM	
000653 -32+100	--	23 29.8	
000653 -100	<1	23 29.5	128.6
000654 +9	--	10 10.0	
000654 -9+32	--	24 19.7	
000654 -32+100	--	48 46.5	
000654 -100	<1	21 21.2	97.4
000655 +9	--	22 25.9	
000655 -9+32	--	30 34.3	
000655 -32+100	--	31 36.1	
000655 -100	<1	17 19.8	116.1
000656 +9	--	12 14.1	
000656 -9+32	--	24 31.8	
000656 -32+100	--	25 45.9	
000656 -100	<1	29 38.2	130.0
000657 +9	--	9.0 8.92	
000657 -9+32	--	21 21.0	
000657 -32+100	--	33 32.7	
000657 -100	<1	37 36.4	99.0
3061 +9	--	20 21.6	
3061 -9+32	--	11 11.8	
3061 -32+100	--	10 11.1	
3061 -100	310	59 61.9	106.4
3062 +9	--	41 64.8	
3062 -9+32	--	13 21.1	
3062 -32+100	--	16 27.7	
3062 -100	93	28 43.1	156.7
3063 +9	--	32 38.9	
3063 -9+32	--	22 27.1	
3063 -32+100	--	21 25.2	
3063 -100	150	25 31.3	122.5
3064 +9	--	43 48.9	
3064 -9+32	--	20 23.0	
3064 -32+100	--	19 22.5	
3064 -100	150	18 21.0	115.4
3065 +9	--	50 64.8	
3065 -9+32	--	19 24.9	
3065 -32+100	--	15 22.0	
3065 -100	4900	13 17.1	128.8
3066 +9	--	48 58.9	
3066 -9+32	--	28 34.7	
3066 -32+100	--	14 17.3	
3066 -100	8300	10 11.3	122.2
3067 +9	--	42 74.7	
3067 -9+32	--	20 36.9	
3067 -32+100	--	20 36.9	
3067 -100	30	18 31.6	180.1
3068 +9	--	21 20.1	
3068 -9+32	--	23 22.2	
3068 -32+100	--	23 22.8	
3068 -100	12	33 32.9	98.0

SAMPLE	AU PPB	WEIGHT GM	
3069 +9	--	51 53.8	
3069 -9+32	--	14 14.7	
3069 -32+100	--	15 15.3	
3069 -100	9	20 21.5	105.3
3070 +9	--	48 88.2	
3070 -9+32	--	29 53.1	
3070 -32+100	--	15 27.7	
3070 -100	8	8 14.1	183.1
3071 +9	--	14 11.4	
3071 -9+32	--	17 13.7	
3071 -32+100	--	13 10.3	
3071 -100	<1	56 45.1	80.5
3072 +9	--	56 68.5	
3072 -9+32	--	14 17.5	
3072 -32+100	--	16 18.9	
3072 -100	1200	14 17.6	122.5
3073 +9	--	35 35.0	
3073 -9+32	--	27 26.2	
3073 -32+100	--	21 20.5	
3073 -100	160	17 17.2	98.9

X-RAY

*Extra
Heather Lake
Trench 1*

CERTIFICATE OF ANALYSIS

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DCMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER NO. 19
DATE SUBMITTED
13-CCT-87

REPORT 2258

REF. FILE 29755-H1

12 SCILS PROJ. HEATHER
WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.000
WEIGHT GM		0.010

DATE 26-OCT-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY *[Signature]*

XRAL

NOTE: OUR DATA INDICATES THE PRESENCE OF ERRATIC
GOLD IN THESE SAMPLES.

X-RAY

SAMPLE	AU PPB	WEIGHT GM		
2915 +9	--	46.3		
2915 -9+32	--	17.8		
2915 -32+100	--	9.44		
2915 -100	<2	15.6		
3074 +9	--	26.9	9	
3074 -9+32	--	84.8	29	
3074 -32+100	--	106.	36	
3074 -100	720	77.4	26	295.1
3075 +9	--	142.	43	
3075 -9+32	--	74.9	23	
3075 -32+100	--	58.6	18	
3075 -100	270	50.8	16	326.3
3076 +9	--	59.4	18	
3076 -9+32	--	53.3	16	
3076 -32+100	--	52.5	16	
3076 -100	14	160.	50	325.2
3077 +9	--	126.	36	
3077 -9+32	--	112.	31	
3077 -32+100	--	64.7	18	
3077 -100	30	51.8	15	354.5
3078 +9	--	187.	51	
3078 -9+32	--	96.8	27	
3078 -32+100	--	53.7	15	
3078 -100	66	27.1	7	364.6
3079 +9	--	167.	50	
3079 -9+32	--	71.4	22	
3079 -32+100	--	44.5	13	
3079 -100	130	47.9	15	330.8
3080 +9	--	110.	32	
3080 -9+32	--	82.1	23	
3080 -32+100	--	79.4	23	
3080 -100	5	78.0	22	349.5
3081 +9	--	58.0	18	
3081 -9+32	--	35.4	11	
3081 -32+100	--	102.	31	
3081 -100	16	131.	40	326.4
3082 +9	--	70.1	23	
3082 -9+32	--	54.0	18	
3082 -32+100	--	55.2	18	
3082 -100	6	126.	41	305.3
3083 +9	--	84.0	24	
3083 -9+32	--	64.0	18	
3083 -32+100	--	68.0	19	
3083 -100	4	137.	39	353
3084 +9	--	89.3	22	
3084 -9+32	--	74.5	19	
3084 -32+100	--	82.4	21	
3084 -100	16	153.	38	399.2

XRAL

EXTRA
RECEIVED JAN 12 1988

CERTIFICATE OF ANALYSIS
REPORT 3375

TO: HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
ATTN: R. DAVIES
P.O. BOX 28
TORONTO-DOMINION CENTRE
TORONTO, ONTARIO M5K 1B8

CUSTOMER No. 19
DATE SUBMITTED
4-Dec-87

REF. FILE 30644-W3
Total Pages 3

31 SOILS Proj. HEATHER

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
WEIGHT GM		0.01

DATE 08-JAN-88

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY *[Signature]*

SAMPLE	AU PPB	WEIGHT GM	
2301 +9	--	66.1	29
2301 -9+32	--	38.9	17
2301 -32+100	--	31.8	14
2301 -100	210	92.0	40
2302 +9	--	17.8	26
<hr/>			
2302 -9+32	--	14.8	21
2302 -32+100	--	16.0	23
2302 -100	820	20.6	30
2303 +9	--	61.9	36
2303 -9+32	--	48.4	28
<hr/>			
2303 -32+100	--	31.5	18
2303 -100	2700	31.0	18
2304 +9	--	38.0	40
2304 -9+32	--	28.3	29
2304 -32+100	--	13.9	14
<hr/>			
2304 -100	690	15.9	17
2305 +9	--	16.6	24
2305 -9+32	--	15.9	22
2305 -32+100	--	13.6	19
2305 -100	470	24.5	35
<hr/>			
2306 +9	--	13.3	20
2306 -9+32	--	13.3	20
2306 -32+100	--	11.1	18
2306 -100	360	27.2	42
2307 +9	--	13.5	19
<hr/>			
2307 -9+32	--	15.6	22
2307 -32+100	--	13.3	19
2307 -100	96	27.6	40
2308 +9	--	9.45	15
2308 -9+32	--	15.8	26
<hr/>			
2308 -32+100	--	20.3	33
2308 -100	320	15.9	26
2309 +9	--	6.919.0	
2309 -9+32	--	12.1	15
2309 -32+100	--	14.4	18
<hr/>			
2309 -100	1100	46.6	58
2310 +9	--	12.3	9.0
2310 -9+32	--	19.6	14
2310 -32+100	--	43.5	31
2310 -100	21	64.0	46
<hr/>			
2311 +9	--	33.5	25
2311 -9+32	--	24.3	18
2311 -32+100	--	25.7	19
2311 -100	8	49.6	38
2312 +9	--	31.7	21
<hr/>			
2312 -9+32	--	26.3	17
2312 -32+100	--	31.9	21
2312 -100	8	61.6	41
2313 +9	--	27.2	20
2313 -9+32	--	27.0	20

SAMPLE	AU PPB	WEIGHT GM	
2313 -32+100	--	26.9 20	
2313 -100	6	54.0 40	135.1
2314 +9	--	56.0 27	
2314 -9+32	--	36.7 18	
2314 -32+100	--	39.9 20	
2314 -100	3	71.4 35	204.0
2315 +9	--	45.9 26	
2315 -9+32	--	43.5 25	
2315 -32+100	--	43.0 24	
2315 -100	<1	44.4 25	176.8
2316 +9	--	22.6 17	
2316 -9+32	--	25.9 19	
2316 -32+100	--	28.8 21	
2316 -100	4	59.4 43	136.7
2317 +9	--	28.2 23	
2317 -9+32	--	24.2 20	
2317 -32+100	--	29.9 24	
2317 -100	8	41.2 32	123.5
2318 +9	--	53.1 35	
2318 -9+32	--	38.2 25	
2318 -32+100	--	36.2 24	
2318 -100	10	23.9 16	151.4
2319 +9	--	29.8 21	
2319 -9+32	--	29.7 21	
2319 -32+100	--	29.7 21	
2319 -100	14	53.7 37	142.9
2320 +9	--	53.0 34	
2320 -9+32	--	33.0 21	
2320 -32+100	--	30.1 19	
2320 -100	1	41.8 26	157.9
2341 +9	--	58.5 28	
2341 -9+32	--	47.4 23	
2341 -32+100	--	41.3 20	
2341 -100	13	60.1 29	207.3
2342 +9	--	45.9 24	
2342 -9+32	--	41.7 22	
2342 -32+100	--	38.8 20	
2342 -100	2	64.2 34	190.6
2343 +9	--	15.1 14	
2343 -9+32	--	36.4 35	
2343 -32+100	--	38.3 36	
2343 -100	22	16.0 15	105.8
2344 +9	--	21.1 11	
2344 -9+32	--	50.2 26	
2344 -32+100	--	50.6 26	
2344 -100	3	73.0 37	194.9
2345 +9	--	71.6 46	
2345 -9+32	--	38.2 25	
2345 -32+100	--	22.6 15	
2345 -100	430	21.8 14	154.2

SAMPLE	AU PPB	WEIGHT GM	
2346 +9	--	46.8	31
2346 -9+32	--	41.8	28
2346 -32+100	--	32.2	21
2346 -100	70	29.3	20
2347 +9	--	22.5	20
<hr/>			
2347 -9+32	--	33.9	29
2347 -32+100	--	31.6	27
2347 -100	15	27.7	24
2348 +9	--	44.7	28
2348 -9+32	--	42.0	26
<hr/>			
2348 -32+100	--	37.6	23
2348 -100	<1	36.0	23
2349 +9	--	55.6	30
2349 -9+32	--	35.6	19
2349 -32+100	--	36.4	19
<hr/>			
2349 -100	5	59.9	32
2350 +9	--	62.5	35
2350 -9+32	--	52.7	29
2350 -32+100	--	41.6	23
2350 -100	<1	22.3	13
<hr/>			
2351 +9	--	55.2	29
2351 -9+32	--	46.6	25
2351 -32+100	--	50.2	26
2351 -100	2	38.1	20

150.1

115.7

160.3

187.5

179.1

190.1



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 67105

Date: July 3, 1987

Received July 2, 1987 1 Samples of Ore (HEATHER LAKE)

Submitted by Mingold Resources

SAMPLE NO.	GOLD PPB	
RD-1-87	110/70	(FLOAT IN SAMPLE 3001)

Per 
G. Lebel-Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

RECEIVED OCT 15 1987

Certificate No. 68301

Date: Oct. 6, 1987

Received Sept. 29, 1987 15 Samples of Rock HEATHER LAKE

Submitted by Hudson Bay Exploration & Development Ltd., (Mingold Res) Toronto, Ont.
LAC HONORAT.

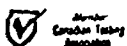
SAMPLE NO.	GOLD PPB
TR1-1	390
2	430
3	2950/3280
4	250
5	1020
TR6-6	10
7	Nil
TR2-8	40
TR3-9	Nil
TR5-10	Nil
TR1-11	11660/11420
Second Pulp	8570/9600
TR1-12	25710/24620

HEATHER LAKE

12+00E 1+75NA	150
12+00E 1+75NB	80
12+00E 1+75NC	Nil

LAC HONORAT.

Per G. Lebel
G. Lebel - Manager





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
 TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68684 Date: Nov. 4, 1987
 Received Oct. 23, 1987 37 Samples of Rock
 Submitted by Hudson Bay Exploration & Development Ltd. (Mingold Resources) Toronto, Ont.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
<u>TRENCH 1 - Channel #1</u>			
4001	Nil	4020	Nil
4002	Nil	4021	10
4003	20	4022	Nil
4004	Nil	4023	20
4005	Nil	4024	Nil
4006	Nil	4025	Nil
4007	60/60	4026	Nil
4008	20	4027	Nil
4009	10	4028	90/20
4010	Nil	4029	Nil
Channel #3		4030	20
4011	Nil	4031	20
4012	400/340	Channel #3	
4013	20	4032	Nil
Channel #4		4033	60
4014	40	4034	Nil
4015	40	4035	170/60
4016	60	Channel #1	
4017	30	4036	20
4018	Nil	4037	Nil
Channel #2			
4019	50/50		

Per G. Lebel
 G. Lebel - Manager /ns



SWASTIKA LABORATORIES LIMITED

RECEIVED NOV 18 1988

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
ANAYLTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68863

Date: Nov. 10, 1987

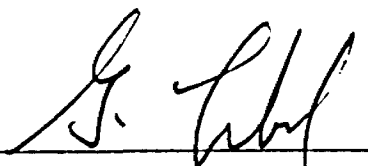
Received Nov. 9, 1987 1 Samples of Rock (HEATHER LAKE)

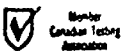
Submitted by Hudson Bay Exploration & Development (Mingold Resources) Toronto, Ont.

SAMPLE NO. GOLD
PPB

TRENCH 1 - Channel 6 Sample
4075

690/1060

Per 
G. Lebel - Manager /ns



ESTABLISHED 1928



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68818

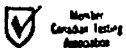
Date: Nov. 16, 1987

Received Nov. 2, 1987 28 ~~SAMPLES~~ of Channel Samples

Submitted by Hudson Bay Exploration & Development Ltd., (Mingold Resources) Toronto, Ont.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
<u>TRENCH 1 - CHANNEL 5</u>			
4038	3530/2810	4053	Nil
Second Pulp	2060/1920	4054	20
4039	220	4055	Nil
4040	380	4056	Nil
<u>TRENCH 2 - CHANNEL 4</u>			
4041	210	4057	20
4042	120	<u>TRENCH 2 - CHANNEL 1</u>	
4043	20	4058	20
4044	Nil	4059	70
4045	20	4060	10
4046	Nil	4061	Nil
4047	Nil	<u>TRENCH 2 - CHANNEL 2</u>	
4048	40	4062	Nil
4049	30	4063	Nil
4050	30	4064	160/150
4051	Nil	4065	Nil
4052	30/20		

Per G. Lebel
G. Lebel - Manager /ns



ESTABLISHED 1928



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
 TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68910 Date: Nov. 16, 1987

Received Nov. 2, 1987 9 Samples of Ore

Submitted by Hudson Bay Exploration & Development Ltd., Toronto, Ont.

(Mingold Resources)

SAMPLE NO.	GOLD PPB
<u>TRENCH 2 - CHANNEL 3</u>	
4066	Nil
<u>TRENCH 2 - CHANNEL 5</u>	
4067	20
4068	110/250
4069	20
4070	Nil
4071	Nil
4072	Nil
4073	20
4074	Nil

Per

G. Lebel - Manager /ns



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
 TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68960 Date: Nov. 18, 1987
 Received Nov. 16, 1987 4 Samples of Rock
 Submitted by Hudson Bay Exploration & Development Ltd., (Mingold Resources) Toronto, Ont.
 Proj. #Heather Lake

SAMPLE NO.	GOLD PPB
<u>TRINCH 1 - CHANNEL 9</u> 4084	1270/1400
4085	1120
4086	140
4087	250

Per *G. L. Hoff*



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

RECEIVED NOV 30 1987

Certificate No. 68993

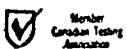
Date: Nov. 25, 1987

Received Nov. 13, 1987 8 ~~SAMPLES~~ Channel Samples

Submitted by Hudson Bay Exploration & Development Ltd., (Mingold Resources) Toronto, Ont.

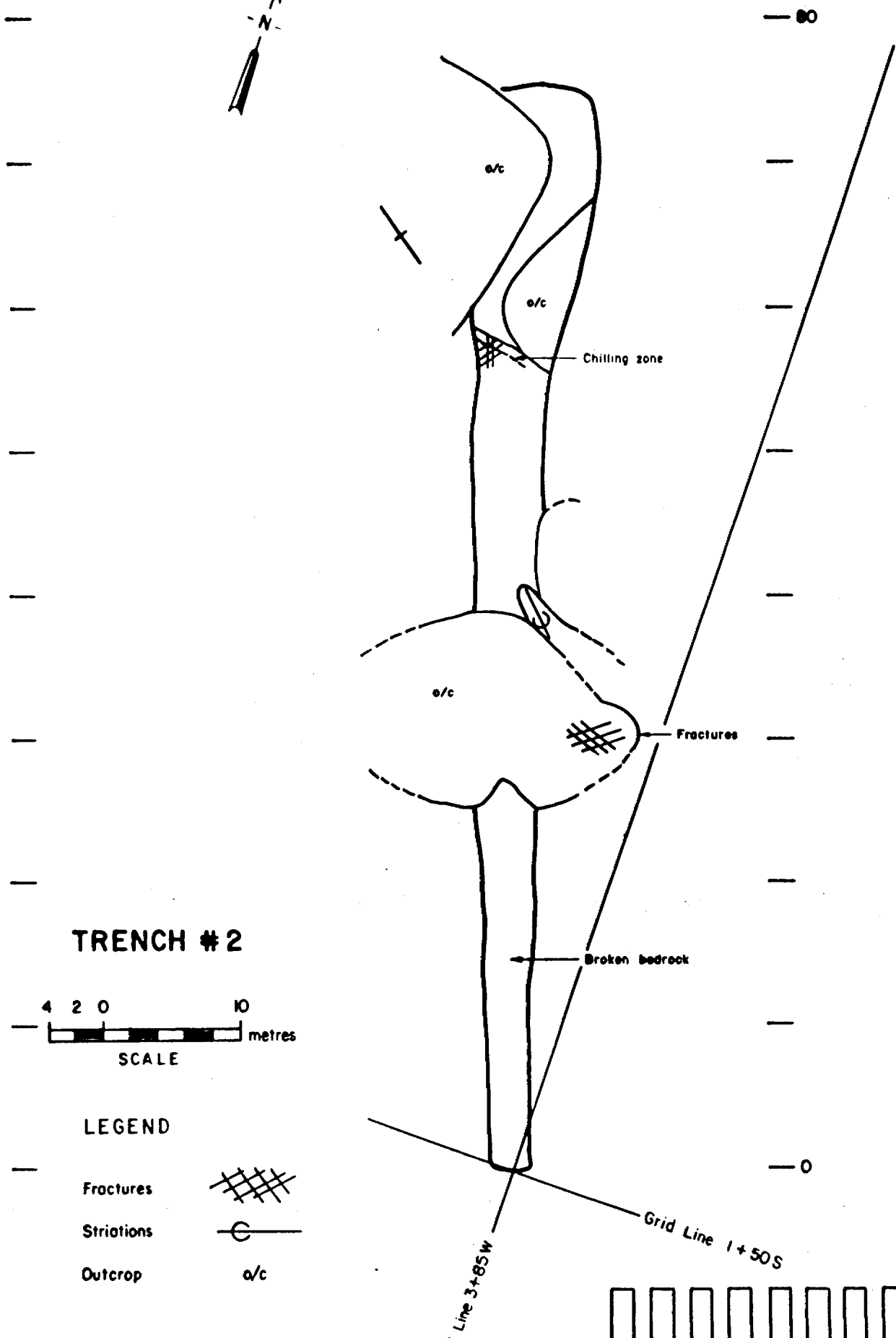
SAMPLE NO.	GOLD PPB
Trench #1 Channel #7	
40 6 ⁷	70
40 7 ⁷	370/690
4078	100
4079	30
Trench #1 Channel #8	
4080	Nil
4081	50
4082	Nil
4083	Nil

Per G. Lebel
G. Lebel - Manager /ns



APPENDIX 2

OUTLINE OF TRENCHES 1 TO 7

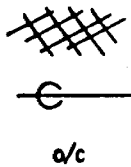


TRENCH #2



LEGEND

- Fractures
- Striations
- Outcrop



PROJECT: MEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

SCALE: 1:400 LOOKING: Plan

DATE: 29/01/88 LOGGED BY: _____

GROUP: Meather Lake DRAWN BY: Geoff

CLAIM NO.: L643854 APPROVED BY: _____



80
70
60
50
40
30
20
10
0



Plan View



Grid Line 3+25W

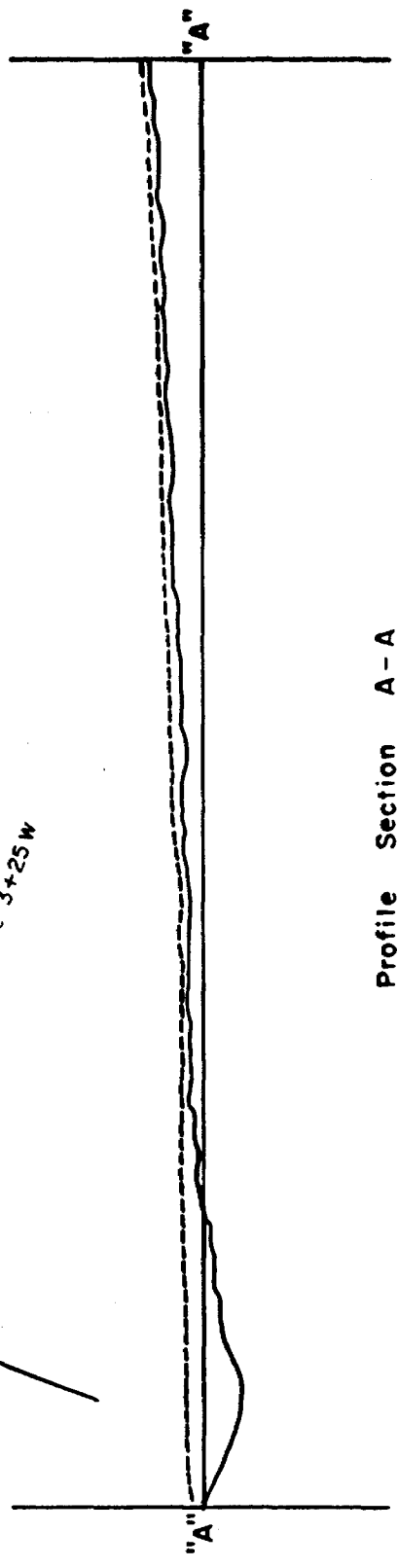
Grid Line 1+00S

3014

TRENCH # 3
(75m)



Profile Section A-A



PROJECT: HEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

SCALE: 1:400 LOOKING: Plan

DATE: 01/02/88 LOGGED BY: _____

GROUP: Heather Lake DRAWN BY: Gagne

CLAIM NO. L643854 APPROVED BY: _____

50
45
40
35
30
25
20
15
10
5



TRENCH # 4
(54m)



Grid Line 1+00S

Grid Line 2+80W



50
45
40
35
30
25
20
15
10
5

PROJECT: HEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

SCALE: 1:200 LOOKING: Plan

DATE: 01/02/88 LOGGED BY: _____

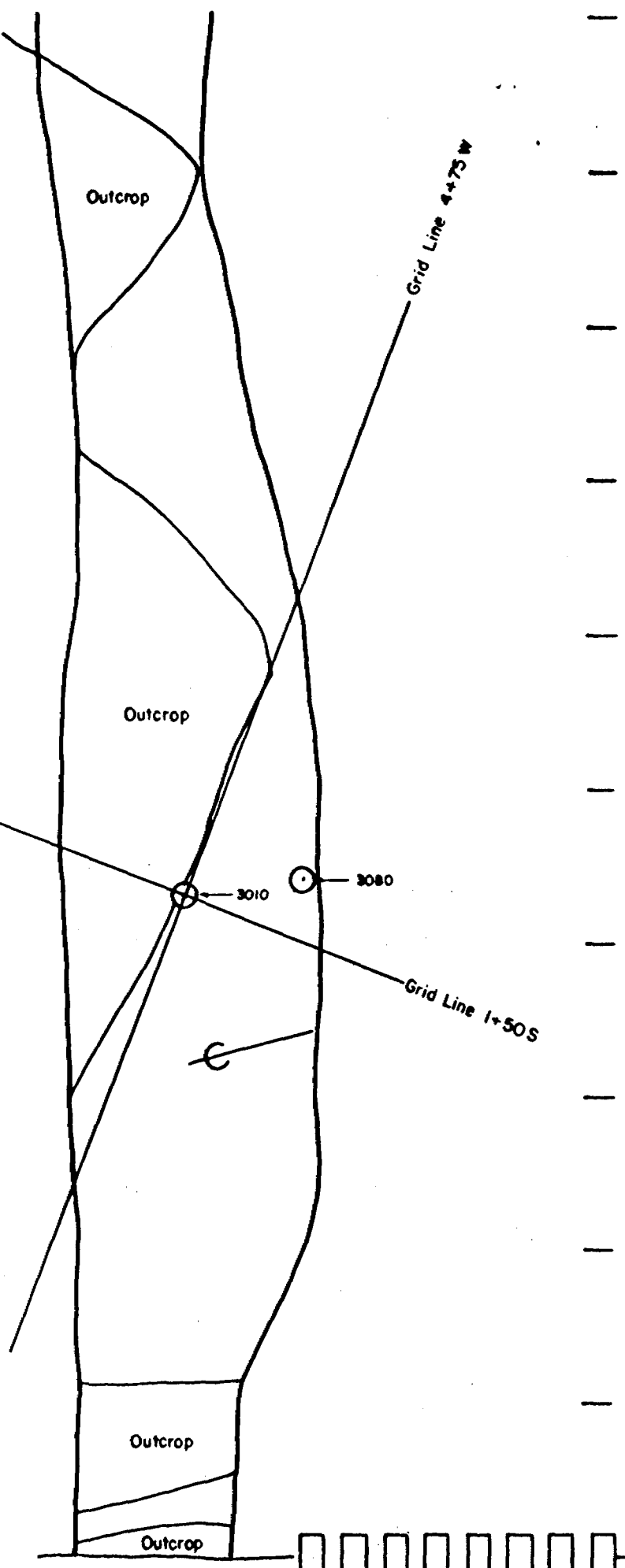
GROUP: Heather Lake DRAWN BY: Goring

CLAIM NO.: L643894 APPROVED BY: _____

50
45
40
35
30
25
20
15
10
5
0



TRENCH # 5
(49m)



PROJECT: HEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

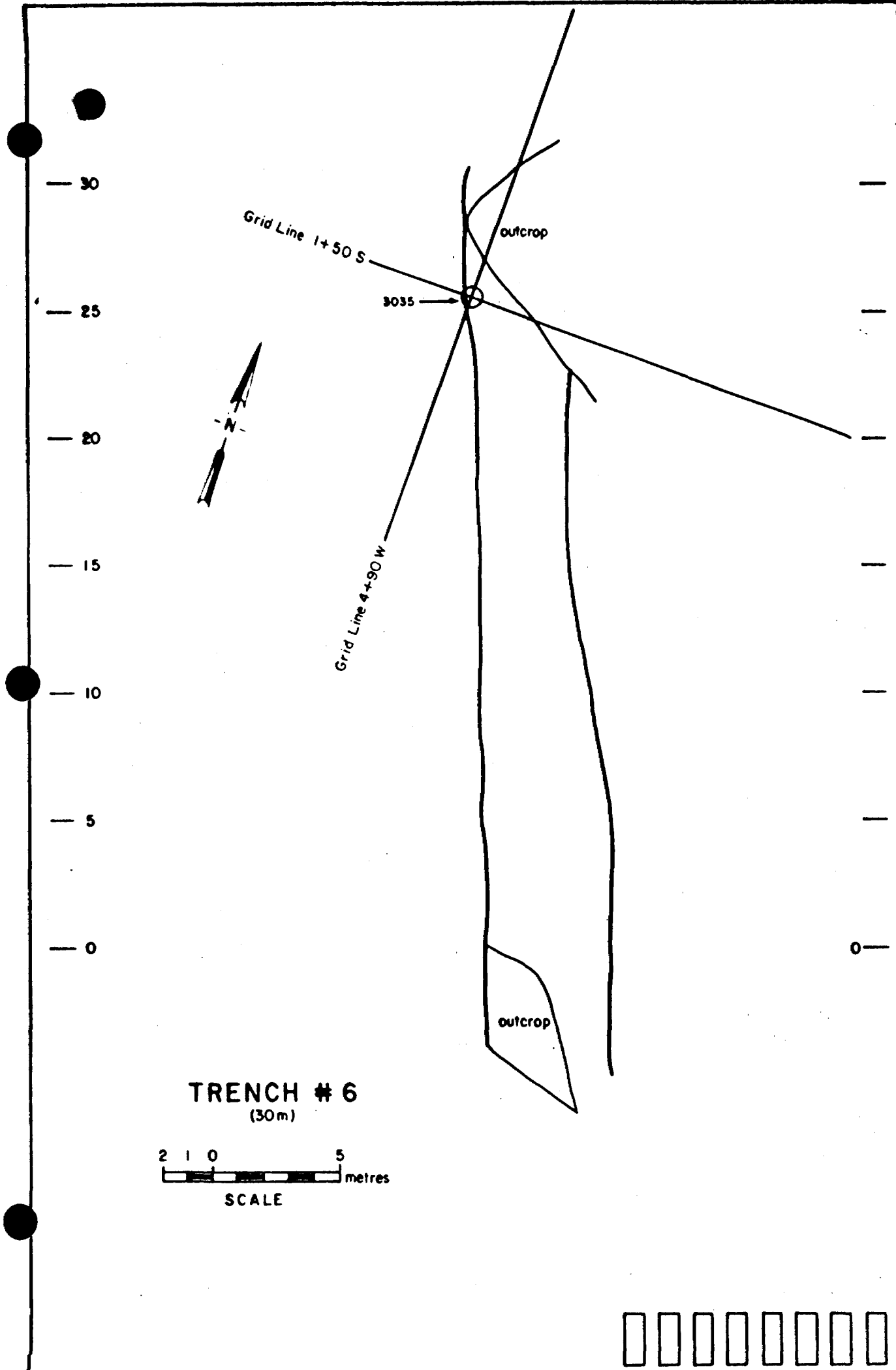
SCALE: 1:200 LOOKING: Plan

DATE: 02/02/86 LOGGED BY: _____

GROUP: Heather Lake DRAWN BY: Georg

CLAIM NO.: L643655 APPROVED BY: _____





TRENCH # 6
(30m)



PROJECT: HEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

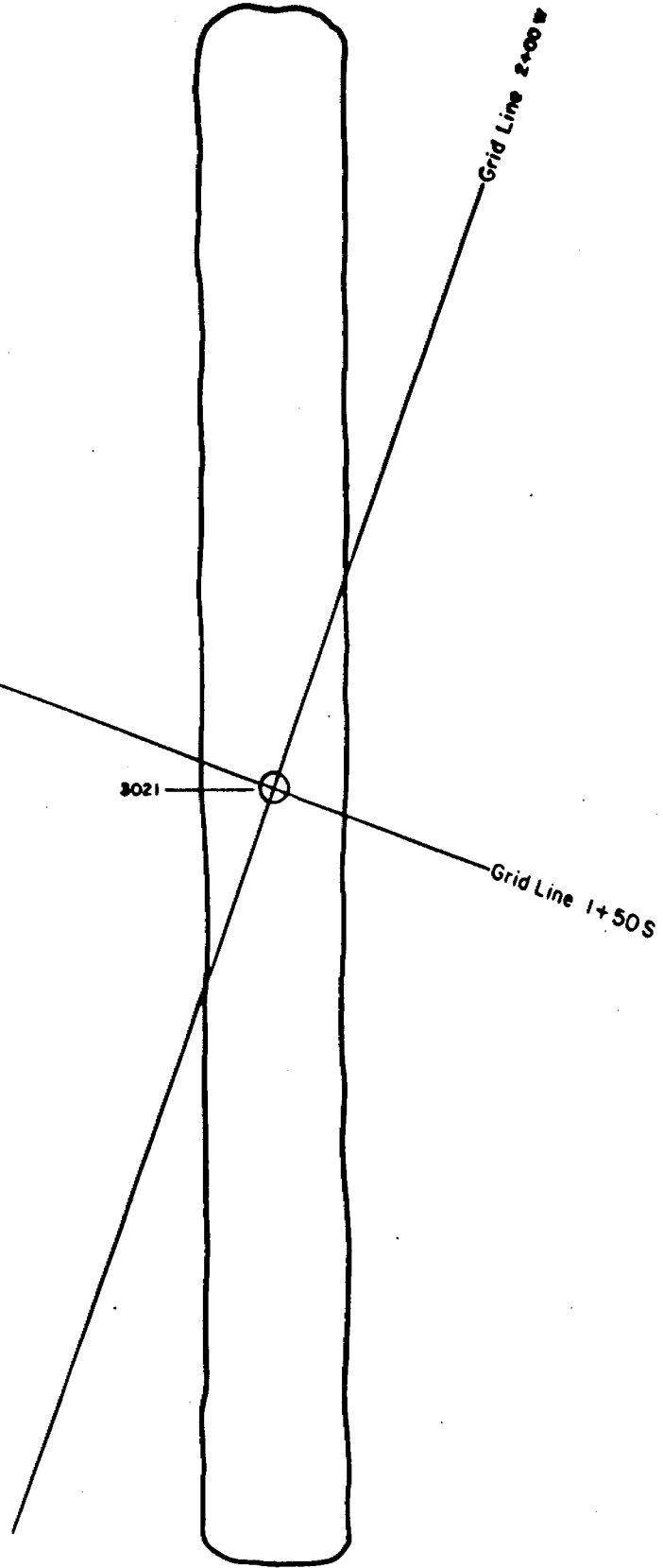
SCALE: 1:200 LOOKING: Plan

DATE: 14/02/88 LOGGED BY: _____

GROUP: Heather Lake DRAWN BY: GG/nd

CLAIM NO.: L643855 APPROVED BY: _____

20
15
10
5
0
5
10
15
20



TRENCH #7
(42m)



SCALE



PROJECT: _____
SECTION: _____

MINGOLD RESOURCES INC.

SCALE: 1:200 LOOKING: Plan
DATE: 14/02/88 LOGGED BY: _____
GROUP: Heather Lake DRAWN BY: Gagné
CLAIM NO.: L-643654 APPROVED BY: _____

APPENDIX 3

CHANNEL SAMPLE LOGS AND SKETCHES
SHOWING SAMPLE LOCATIONS

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #1

CHANNEL START: (0 meters) CHANNEL END AZIMUTH: N18E
 LATITUDE: 4+54N LATITUDE: 4+48W
 LONGITUDE: 1+38S LONGITUDE: 1+24S CHANNEL LENGTH: 13.90m CHANNEL LENGTH SAMPLED: 13.90m

CHANNEL SIZE: 3" x 2" STARTED: OCTOBER 15, 1987 FINISHED: OCTOBER 22, 1987

SAMPLED BY: M. PESTONJI, K. ETMANSKI, C. HUNTER LOGGED BY: M. PESTONJI DATE: 10/15/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	13.9	<u>PORPHYRY:</u> Hard, medium grained, green. Glacial striations N 40 W	0	1.45	1.45	4001	0
			1.45	2.95	1.50	4002	0
			2.95	4.45	1.50	4003	20
			4.45	5.45	1.00	4004	0
		5.45m small quartz vein striking N 48 E	5.45	6.95	1.50	4005	0
		6.95m small shear zone with dark hematite stain	6.95	7.95	1.00	4006	0
			7.95	9.05	1.10	4007	60/60
		9.05m - 9.65m quartz vein striking N 30° W, dip 46° SW	9.05	9.65	0.60	4008	20
			9.65	10.35	0.70	4009	10
			10.35	11.80	1.45	4010	0
		11.80m channel runs into limonite cemented till, channel offset 1.70 m to S 72 E at this point	11.80	12.40	0.60	4037	0
			12.40-	13.90	1.50	4036	20

File: T1-C1; HEATHER/LAKE
 02/FEB/1988

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #2

CHANNEL START: (0 meters) CHANNEL END AZIMUTH: N8E
 LATITUDE: 4+53W LATITUDE: 4+52W
 LONGITUDE: 1+28S LONGITUDE: 1+16S CHANNEL LENGTH: 12.36m CHANNEL LENGTH SAMPLED: 12.36m

CHANNEL SIZE: 3" x 2" STARTED: OCTOBER 20, 1987 FINISHED: OCTOBER 23, 1987

SAMPLED BY: M. PESTONJI, K. ETMANSKI, C. HUNTER, LOGGED BY: M. PESTONJI DATE: 10/20/87
 J. STEWART, R. DAVIES

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	9.46	<u>PORPHYRY:</u> Hard, medium grained, green 0 - 0.60m quart vein 3.31 - 4.16m some small quartz veins	0	1.08	1.08	4019	50/50
			1.08	1.91	0.83	4020	0
			1.91	3.31	1.40	4021	10
			3.31	4.16	0.85	4022	0
			4.16	5.16	1.00	4023	20
			5.16	6.66	1.50	4024	0
			6.66	7.66	1.00	4025	0
8.66	9.46	<u>PORPHYRY:</u> Hard, fine-grained rock with pyrite	8.66	9.46	0.80	4027	0
9.46	9.76	<u>SHEAR ZONE:</u> Sheared, soft, fractured with some broken vein quartz	9.46	9.76	0.30	4028	90/20
9.76	12.36	<u>PORPHYRY:</u> Hard, fine-grained with some pyrite	9.76	10.66	0.90	4029	0
			10.66	11.56	0.90	4030	20
			11.56	12.36	0.80	4031	20

File: T1-C2; HEATHER/LAKE
02/FEB/88

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #3

CHANNEL START: (0 meters)

LATITUDE: 4+62W

LONGITUDE: 1+07S

CHANNEL END

LATITUDE: 4+55W

LONGITUDE: 1+07S

AZIMUTH: N70E

CHANNEL LENGTH: 5.80m

CHANNEL LENGTH SAMPLED: 5.80m

CHANNEL SIZE: 2" x 1 1/2" STARTED: OCTOBER 20, 1987

FINISHED: OCTOBER 20, 1987

SAMPLED BY: M. PESTONJI, J. STEWART, R. DAVIES

LOGGED BY: M. PESTONJI

DATE: 10/20/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	3.80	<u>PORPHYRY:</u> Hard, medium grained, green	0	0.25	0.25	4035	170/60
			0.25	1.85	1.60	4034	0
			1.85	3.15	1.30	4033	60
			3.15	3.80	0.65	4032	0
			3.80	4.38	0.58	4011	0
3.80	5.80	<u>SHEAR ZONE:</u> Deeply eroded 3.80 - 4.38 Hard, siliceous rock with some pyrite 4.38 - 5.80 Sheared fractured rock	4.38	4.96	0.58	4012	400/240
			4.96	5.80	0.84	4013	20

Note: Samples 4011, 4012 and 4013 were cut with
moil, rest with saw.

File: T1-C3; HEATHER/LAKE
02/FEB/88

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #4

CHANNEL START: (0 meters)

LATITUDE: 4+62W

LONGITUDE: 1+02S

CHANNEL END

LATITUDE: 4+57W

LONGITUDE: 1+00S

AZIMUTH: N70E

CHANNEL LENGTH: 5.21m

CHANNEL LENGTH SAMPLED: 5.21m

CHANNEL SIZE: 3" x 2"

STARTED: OCTOBER 20, 1987

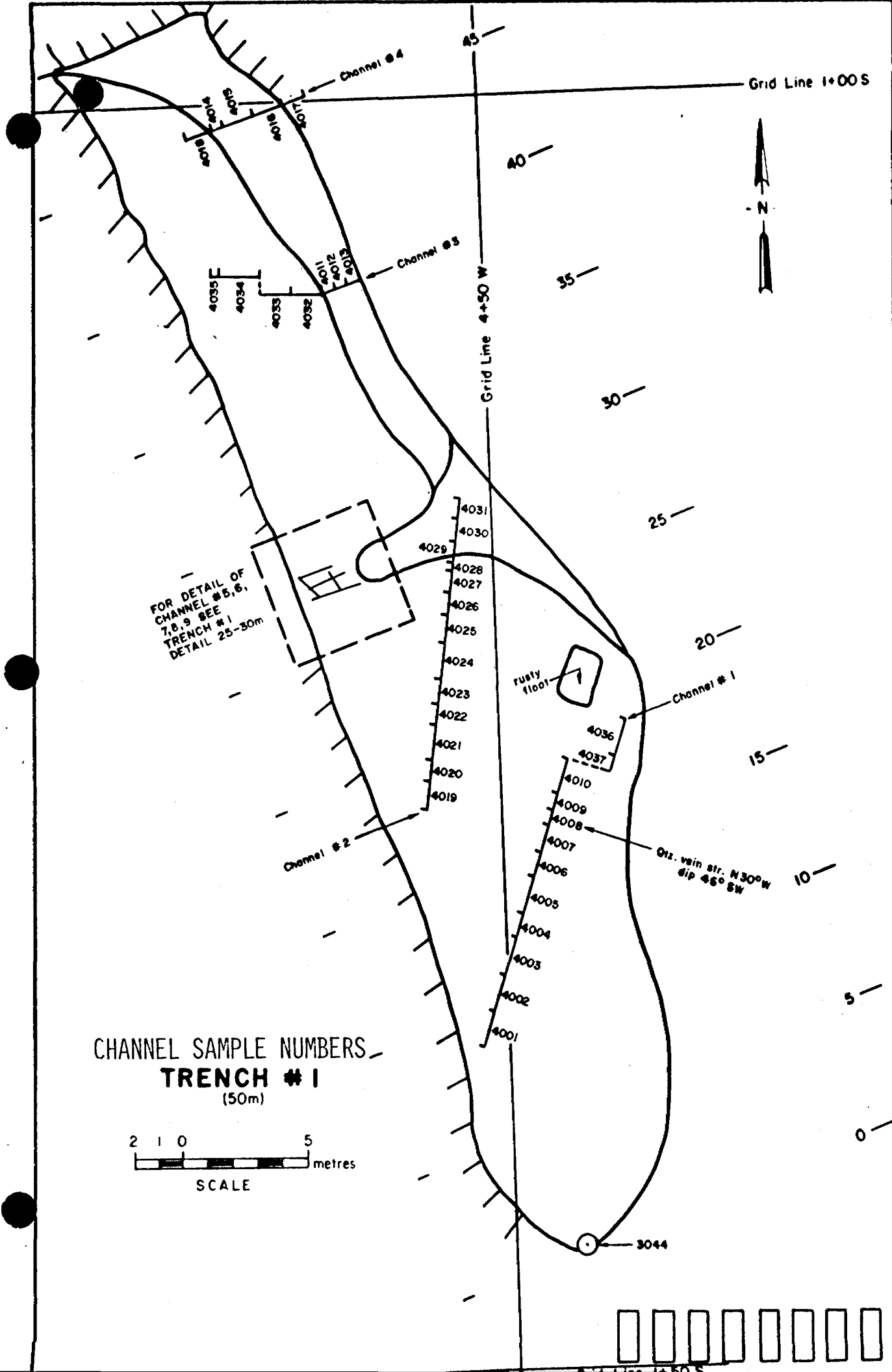
FINISHED: OCTOBER 20, 1987

SAMPLED BY: M. PESTONJI, J. STEWART

LOGGED BY: M. PESTONJI

DATE: 10/20/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	5.21	<u>SHEAR ZONE IN PORPHYRY:</u>	0	0.92	0.92	4018	0
		0 - 2.19 Hard, siliceous, fine-grained with some pyrite.	0.92	2.19	1.27	4017	30
		2.19 - 4.73 Soft, friable, sheared	2.19	3.46	1.27	4016	60
		4.73 - 5.21 Hard, siliceous, fine-grained	3.46	4.73	1.27	4015	40
			4.73	5.21	0.48	4014	40



CHANNEL SAMPLE NUMBERS
TRENCH # 1
 (50m)



FOR DETAIL OF
 CHANNEL #5, 6,
 7, 8, 9 SEE
 TRENCH #1
 DETAIL 25-30m

PROJECT: HEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

SCALE: 1:200 LOOKING: Plan

DATE: 27/01/88 LOGGED BY: _____

GROUP: Heather Lake DRAWN BY: Gosse

CLAIM NO.: L643854 APPROVED BY: _____



HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #5

CHANNEL START: (0 meters)

LATITUDE: 4+60W

LONGITUDE: 1+24S

CHANNEL END

LATITUDE: 4+58W

LONGITUDE: 1+23S

AZIMUTH: N74E

CHANNEL LENGTH: 1.95m

CHANNEL LENGTH SAMPLED: 1.95m

CHANNEL SIZE: 3" x 2"

STARTED: OCTOBER 28, 1987

FINISHED: OCTOBER 28, 1987

SAMPLED BY: M. PESTONJI, K. ETMANSKI

LOGGED BY: M. PESTONJI

DATE: 10/28/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
							3530/2810
0	1.95	<u>SHEAR ZONE:</u> Soft, friable, sheared, 0 - 0.60m Section contains a broken quartz vein (0.10m wide) with strike N 4 W	0	0.60	0.60	4038 -	2060/1920
			0.60	1.45	0.85	4039 -	220
			1.45	1.95	0.50	4040 -	380

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #6

CHANNEL START: (0 meters)

LATITUDE: 4+59W

LONGITUDE: 1+24S

CHANNEL END

LATITUDE: 4+60W

LONGITUDE: 1+23S

AZIMUTH: N34W

CHANNEL LENGTH: 1.10m

CHANNEL LENGTH SAMPLED: 1.10m

CHANNEL SIZE: 3" x 2"

STARTED: NOVEMBER 8, 1987

FINISHED: NOVEMBER 8, 1987

SAMPLED BY: M. PESTONJI

LOGGED BY: M. PESTONJI

DATE: 11/08/87

FROM	TO	DESCRIPTION	SAMPLED FROM	TO	SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
0	1.10	<u>SHEAR ZONE:</u> Soft, sheared, 0 - 0.20m quartz	0	1.10	1.10	4075	690/1060

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #7

CHANNEL START: (0 meters)

LATITUDE: 4+61W

LONGITUDE: 1+24S

CHANNEL END

LATITUDE: 4+60W

LONGITUDE: 1+23S

AZIMUTH: N46N

CHANNEL LENGTH: 1.20m

CHANNEL LENGTH SAMPLED: 1.20m

CHANNEL SIZE: 3" x 2"

STARTED: NOVEMBER 12, 1987

FINISHED: NOVEMBER 12, 1987

SAMPLED BY: M. PESTONJI

LOGGED BY: M. PESTONJI

DATE: 11/12/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	1.20	<u>SHEAR ZONE:</u> Soft, sheared, waxy feel	0	0.15	0.15	4079	30
			0.15	0.50	0.35	4076	70
			0.50	0.80	0.30	4077	370/690
			0.80	1.20	0.40	4078	100

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #8

CHANNEL START: (0 meters)

LATITUDE: 4+61W

LONGITUDE: 1+24S

CHANNEL END

LATITUDE: 4+59W

LONGITUDE: 1+23S

AZIMUTH: S70W

CHANNEL LENGTH: 1.50m

CHANNEL LENGTH SAMPLED: 1.50m

CHANNEL SIZE: 3" x 2"

STARTED: NOVEMBER 12, 1987

FINISHED: NOVEMBER 12, 1987

SAMPLED BY: K. ETMANSKI

LOGGED BY: M. PESTONJI

DATE: 11/12/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	1.50	<u>SHEAR ZONE:</u> Soft, sheared. 0 - 0.30m Vein quartz	0	0.30	0.30	4080	0
			0.30	0.85	0.55	4081	50
			0.85	1.15	0.30	4082	0
			1.15	1.50	0.35	4083	0

File: T1-C8; HEATHER/LAKE
02/FEB/88

HEATHER LAKE PROJECT: TRENCH #1 CHANNEL #9

CHANNEL START: (0 meters)
LATITUDE: 4+62W
LONGITUDE: 1+24S

CHANNEL END
LATITUDE: 4+60W
LONGITUDE: 1+23S

AZIMUTH: S65W

CHANNEL LENGTH: 1.60m CHANNEL LENGTH SAMPLED: 1.60m

CHANNEL SIZE: 3" x 2"

STARTED: NOVEMBER 14, 1987

FINISHED: NOVEMBER 14, 1987

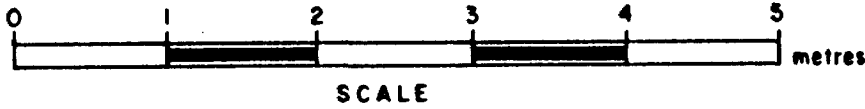
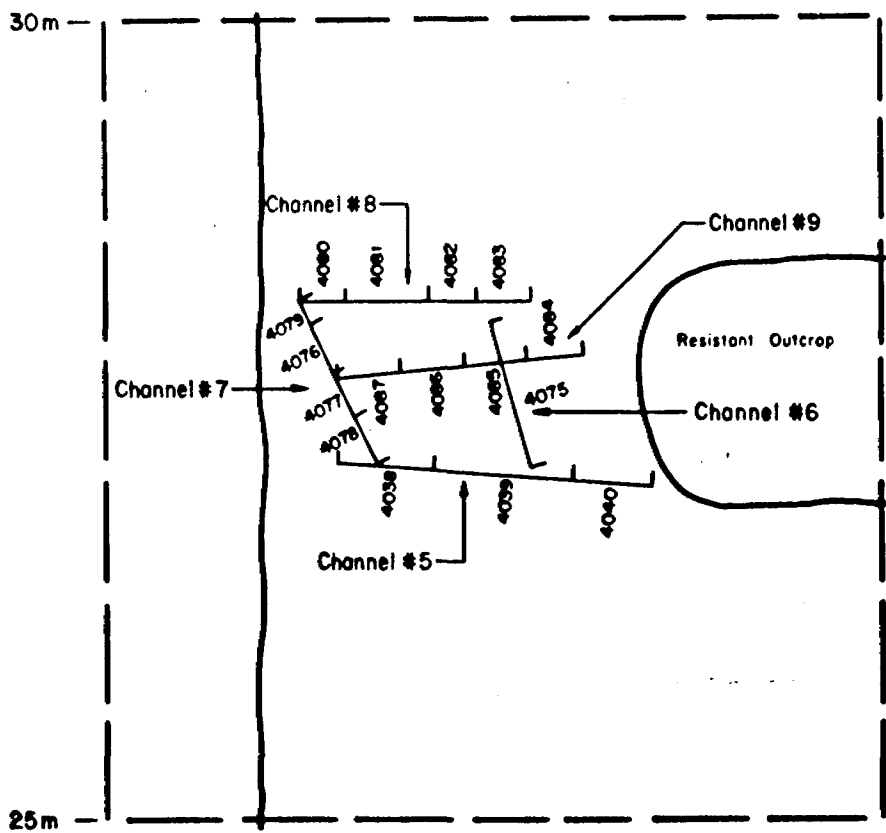
SAMPLED BY: K. ETMANSKI, J. ST. JEAN

LOGGED BY: K. ETMANSKI

DATE: 11/14/87

FROM	TO	DESCRIPTION	SAMPLED FROM	TO	SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
0	1.60	<u>SHEAR ZONE:</u> Soft, sheared.	0	0.40	0.40	4084	1270/1400
			0.40	0.80	0.40	4085	1120
			0.80	1.20	0.40	4086	140
			1.20	1.60	0.40	4087	250

CHANNEL SAMPLE NUMBERS
TRENCH # 1
 Detail 25 to 30m
 Channel 5,6,7,8 & 9



PROJECT: HEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

SCALE: 1:50 LOOKING: Plan

DATE: 27/01/88 LOGGED BY: _____

GROUP: Heather Lake DRAWN BY: Gagné

CLAIM NO.: LG43854 APPROVED BY: _____



HEATHER LAKE PROJECT: TRENCH #2 CHANNEL #1

CHANNEL START: (0 meters)

LATITUDE: 1+26S

LONGITUDE: 3+96W

CHANNEL END

LATITUDE: 1+13W

LONGITUDE: 3+98W

AZIMUTH: N10W

CHANNEL LENGTH: 13.30m

CHANNEL LENGTH SAMPLED: 4.00m

CHANNEL SIZE: 2" x 1 1/2" STARTED: OCTOBER 30, 1987

FINISHED: NOVEMBER 1, 1987

SAMPLED BY: M. PESTONJI, K. ETMANSKI

LOGGED BY: M. PESTONJI

DATE: 11/01/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	13.30m	<u>PORPHYRY:</u> Hard , medium grained, green, trace of pyrite.	0	1.00	1.00	4058	20
			3.00	4.00	1.00	4059	70
			9.00	10.00	1.00	4060	10
			12.30	13.30	1.00	4061	0

HEATHER LAKE PROJECT: TRENCH #2 CHANNEL #2

CHANNEL START: (0 meters)

LATITUDE: 1+13S

LONGITUDE: 3+98W

CHANNEL END

LATITUDE: 1+09S

LONGITUDE: 3+86W

AZIMUTH: N22E

CHANNEL LENGTH: 5.20m

CHANNEL LENGTH SAMPLED: 5.20m

CHANNEL SIZE: 2" x 1 1/2" STARTED: NOVEMBER 1, 1987

FINISHED: NOVEMBER 3, 1987

SAMPLED BY: M. PESTONJI, K. ETMANSKI

LOGGED BY: M. PESTONJI

DATE: 11/03/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	5.20m	<u>PORPHYRY:</u> Hard , medium grained, green. 1.10 - 3.70m Some pyrite, glacial striations striking N 46 W.	0	1.10	1.10	4062	0
			1.10	2.40	1.30	4063	0
			2.40	3.70	1.30	4064	160/150
			3.70	5.20	1.50	4065	0

File: T2-C2; HEATHER/LAKE
10/FEB/1988

HEATHER LAKE PROJECT: TRENCH #2 CHANNEL #3

CHANNEL START: (0 meters)
LATITUDE: 1+07S
LONGITUDE: 4+01W

CHANNEL END
LATITUDE: 1+06S
LONGITUDE: 4+01W

AZIMUTH: N34W

CHANNEL LENGTH: 1.5m

CHANNEL LENGTH SAMPLED: 1.5m

CHANNEL SIZE: 2" x 1 1/2"

STARTED: NOVEMBER 3, 1987

FINISHED: NOVEMBER 3, 1987

SAMPLED BY: M. PESTONJI

LOGGED BY: M. PESTONJI

DATE: 11/03/87

FROM	TO	DESCRIPTION	SAMPLED FROM	TO	SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
0	1.50m	<u>PORPHYRY</u> : Hard , medium grained, green, containing some iron oxides. Some very narrow quartz veins.	0	1.50	1.50	4066	0

HEATHER LAKE PROJECT: TRENCH #2 CHANNEL #4

CHANNEL START: (0 meters)

LATITUDE: 1+47S

LONGITUDE: 3+86W

CHANNEL END

LATITUDE: 1+24S

LONGITUDE: 3+95W

AZIMUTH: N20W

CHANNEL LENGTH: 24.05m

CHANNEL LENGTH SAMPLED: 24.05m

CHANNEL SIZE: 2" x 1 1/2" STARTED: OCTOBER 28, 1987

FINISHED: OCTOBER 31, 1987

SAMPLED BY: M. PESTONJI, K. ETMANSKI

LOGGED BY: M. PESTONJI

DATE: 10/31/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	24.05m	<u>PORPHYRY:</u> Hard , medium grained, green.	0	1.50	1.50	4041	210
			1.50	2.60	1.10	4042	120
		2.60 - 4.10m Small quartz veinlets	2.60	4.10	1.50	4043	20
			4.10	5.60	1.50	4044	0
			5.60	7.10	1.50	4045	20
			7.10	8.60	1.50	4046	0
		7.10 - 8.60m Hematite staining, green copper staining, minor pyrite.	8.60	9.20	0.60	4047	0
			9.20	10.40	1.20	4048	40
		8.60 - 9.20m Quartz vein, strike N 14 E, dip 40° NW.	10.40	11.90	1.50	4049	30
			11.90	13.40	1.50	4050	30
			13.40m Channel offset 0.60m E.	13.40	14.95	1.55	4051
		14.95m Channel offset 0.60m E.	14.95	16.35	1.40	4052	30/20
			16.35	17.75	1.40	4053	0
			17.75	19.25	1.50	4054	20
			19.25	20.75	1.50	4055	0
		20.75m Channel offset 0.60m E.	20.75	22.55	1.80	4056	0
			22.55m Channel offset 1.00m W.	22.55	24.05	1.50	4057

File: T2-C4; HEATHER/LAKE
10/FEB/1988

HEATHER LAKE PROJECT: TRENCH #2 CHANNEL #5

CHANNEL START: (0 meters)

LATITUDE: 1+04S

LONGITUDE: 4+03W

CHANNEL END

LATITUDE: 0+95S

LONGITUDE: 4+05W

AZIMUTH: North

CHANNEL LENGTH: 9.40m

CHANNEL LENGTH SAMPLED: 9.40m

CHANNEL SIZE: 2" x 1 1/2" STARTED: NOVEMBER 3, 1987

FINISHED: NOVEMBER 6, 1987

SAMPLED BY: M. PESTONJI, K. ETMANSKI, J. STEWART

LOGGED BY: M. PESTONJI

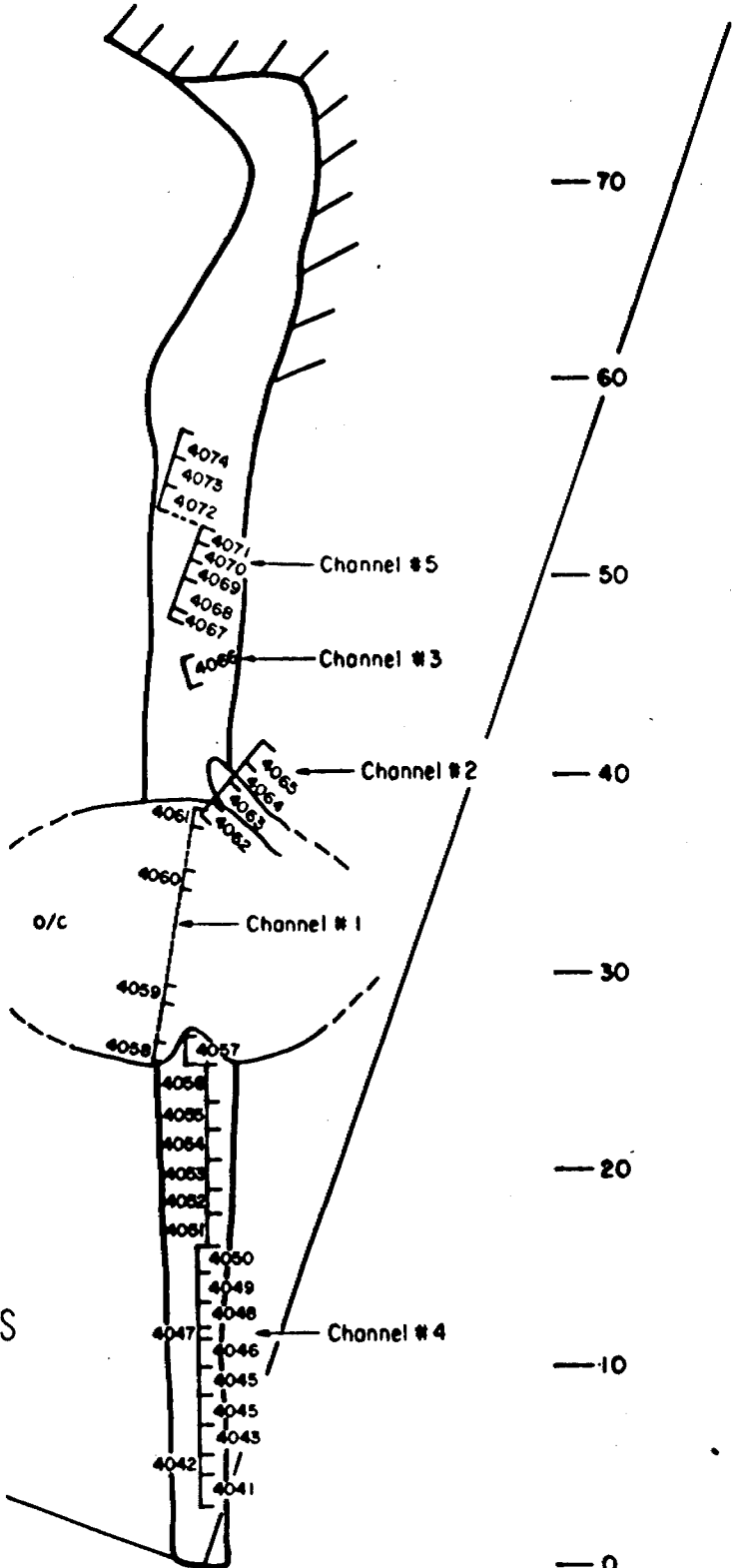
DATE: 11/06/87

FROM	TO	DESCRIPTION	SAMPLED		SAMPLE LENGTH (m)	SAMPLE NUMBER	GOLD PPB
			FROM	TO			
0	9.40m	<u>PORPHYRY:</u> Hard , medium grained, green, with large quartz phenocryats.	0	0.60	0.60	4067	20
			0.60	2.10	1.50	4068	110/250
			2.10	3.10	1.00	4069	20
			3.10	4.10	1.00	4070	0
			4.10	5.15	1.05	4071	0
			5.15	6.55	1.40	4072	0
			6.55	8.05	1.50	4073	20
			8.05	9.40	1.35	4074	0
					5.15m Channel offset 2.7m west		

File: T2-C5; HEATHER/LAKE
10/FEB/1988

80

80



CHANNEL SAMPLE NUMBERS
TRENCH #2
 (75m)



PROJECT: HEATHER LAKE OPTION

SECTION: _____

MINGOLD RESOURCES INC.

SCALE: 1:400 LOOKING: P100

DATE: 29/01/87 LOGGED BY: _____

GROUP: Heather Lake DRAWN BY: Geoff

CLAIM NO.: L643854 APPROVED BY: _____



Grid Line 3+65 W

Grid Line 1+50 S

APPENDIX 4

COST OF EXPLORATION



DOCUMENT No.
W8808-048



41P09NE0027 2.10876 BRYCE

900

Typical Survey(s) **2.10876**
OVERBURDEN SAMPLING AND ASSAYS
 Claim Holder(s) **JAMES MORRIS**
 Address **P.O. Box 248, ENGLEHART, ONTARIO, POJ 1H0**
 Survey Company **MINGOLD RESOURCES INC.**
 Name and Address of Author (of Geo-Technical report) **RAYMOND DAVIES, BOX 28 TORONTO-DOMINION CENTRE TORONTO, ONTARIO**
 Date of Survey (from & to) **18:08:87** to **24:11:87**
 Total Miles of line Cut **—**
 Township or Area **BRYCE TOWNSHIP**
 Prospector's Licence No. **K 20143**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
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 RECEIVED MAR 02 1988	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	980370	60			
	980371	60			
	980372	60			
	980373	60			
	980891	60			
	980892	60			
	980893	60			

MINING LANDS SECTION

LARDER LAKE MINING DIV.
 FEB 22 1988
 7:18 AM

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES OFFICE
 MAR 15 1988
 RECEIVED

Expenditures (excludes power stripping)
 Type of Work Performed **Sec. 77(19)**
 Performed on Claim(s) **L 643854 AND L 643855**
 Calculation of Expenditure Days Credits
 Total Expenditures **\$9583.36** ÷ Total Days Credits **15** = **638**

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 **22 FEBRUARY 1988**
 Recorder/Holder or Agent (Signature) **R Davies**

For Office Use Only
 Total Days Cr. Recorded **420**
 Date Recorded **23 Feb 1988**
 Date Approved as Recorded **3 March 88**
 Mining Recorder **[Signature]**
 Branch Director **[Signature]**

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 **RAYMOND DAVIES, BOX 28, TORONTO-DOMINION CENTRE, TORONTO, ONTARIO**
 Date Certified **22 FEBRUARY, 1988**
 Certified by (Signature) **[Signature]**

BRYCE

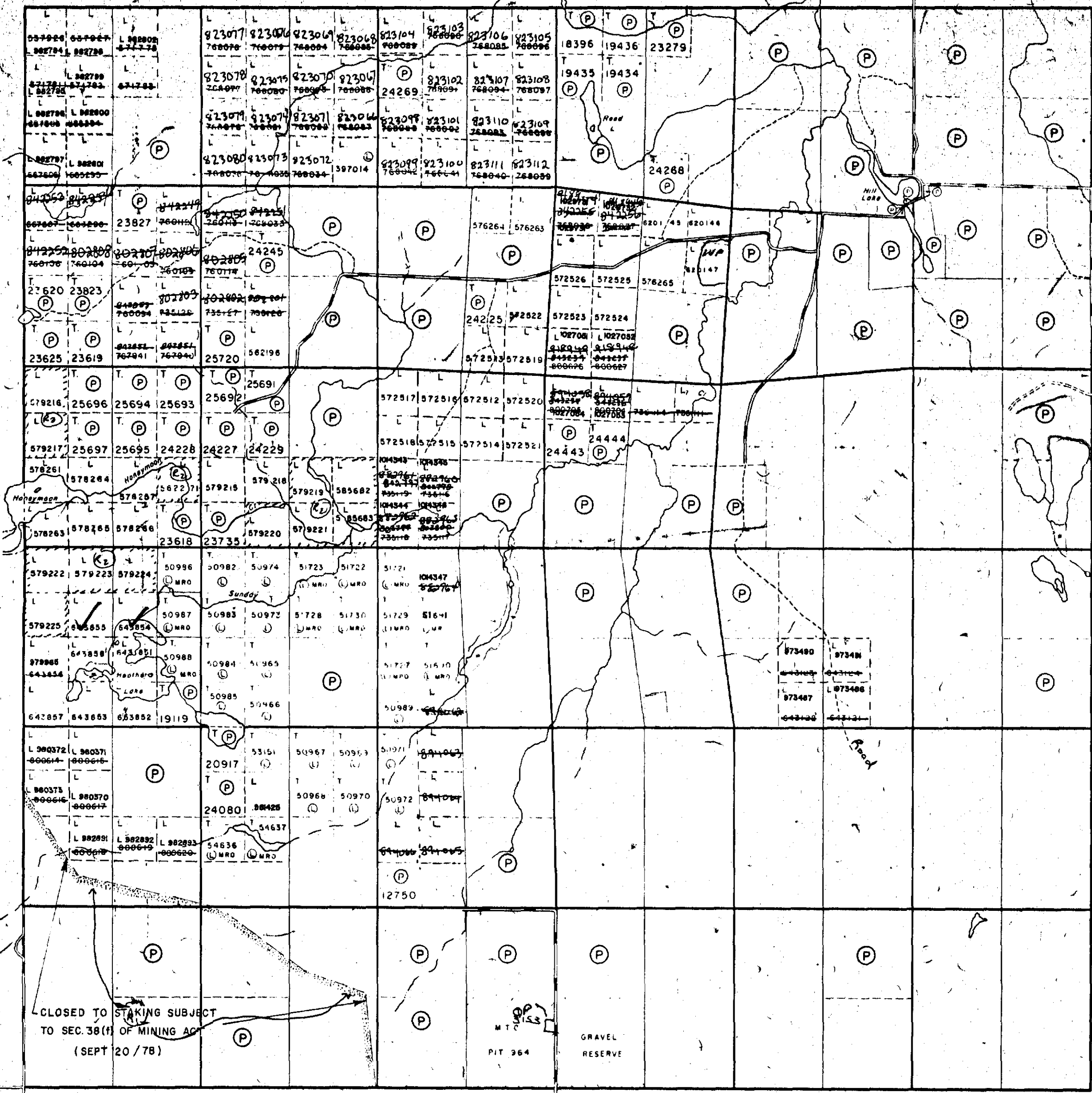
DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

TUDHOPE TWP. M-252

BEAUCHAMP TWP. M-412



CLOSED TO STAKING SUBJECT
TO SEC. 38 (F) OF MINING ACT
(SEPT 20 / 78)

LEGEND

- PATENTED LAND ● or P
- CROWN LAND SAIT C.S.
- LEASES L
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED
- PATENTED S.R.O.

NOTES

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

Areas withdrawn from staking under Section
43 of the Mining Act (1950-1970)

File	Date	Disposition
(R1)		Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 65/83
(R2)		Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 18/86

DATE OF ISSUE
JAN 20 1988
LARDER LAKE
MINING DIVISION'S OFFICE

1112-0303

PLAN NO. **M-282 #28**

