



52J10SE0001 52J10SE0021 SOLITUDE LAKE

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REPORT ON THE GEOLOGY
OF THE
HANNA (SOLITUDE) LAKE PROPERTY
SOLITUDE LAKE AREA
DISTRICT OF THUNDER BAY
NTS 52-J-7

RECEIVED
MINING LANDS SECTION

December 1986

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Consultant

SUMMARY

The Hanna (Solitude) Lake property is underlain by northeast trending chert-magnetite iron formation overlain by southeast facing massive to pillowed magnesium tholeiitic basalts and intruded by gabbroic sills and dykes. The main iron formation bands are totally engulfed by the gabbro. Granitoid bodies border the volcanic-sedimentary sequence to the north.

The property lies on the north limb of a syncline closing to the west associated with an older (D_1) deformation. Refolding of the D_1 folds and development of shearing accompanies D_2 deformation.

A few localized weak to moderately anomalous gold values were obtained from the iron formation; although little sulphide was encountered. Sulphidic quartz veining associated with shearing in volcanics and gabbro returned very low gold values.

CONCLUSIONS AND RECOMMENDATIONS

Broadly spaced sampling of the iron formation has outlined four areas with weakly anomalous gold contents (>20 ppb):

- 1) at the west boundary of claim Pa 876225 at L23S, 2W
- 2) in the vicinity of drill hole 64 (L20S, 6W) to L16S, 5W on claim Pa 876224
- 3) between L4N, 4E and L8N, 5E on claim Pa 876249, and
- 4) just east of the east boundary of Pa 876243

Additional sampling is required during the 1987 field season in these areas to provide better targeting of diamond drilling. Trenching with a plugger and explosives is necessary to obtain samples from the smooth-surfaced iron formation outcrops. Only analysing for gold is needed as all pathfinder elements are at background levels. Gold in this case is the best indicator of gold.

Ground geophysical surveys (magnetic, H.E.M.) are needed on the existing grid to trace the iron formations in overburden covered areas and provide further information on the structural complexity of the property. Prior to this survey, lines L23S to L16S should be extended by 300 metres to 10W and L0 to L26N by 300 metres to 8E to provide coverage of the entire iron formation.



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INTRODUCTION

A geological mapping and rock sampling program was carried out on the Hanna (Solitude) Lake property from July 26 to August 11, 1986. The writer was assisted by Desmond Cullen who mapped approximately 20% of the property under direct supervision. Mapping was carried out at 1:5000 scale making use of 100 metre grid lines for control.

The property consists of 55 unpatented mining claims (Figure 2) although the grid does not cover the entire claim block. Total grid coverage occurs on claims Pa 876204, 214, 216, 220, 221, 225-227 inclusive, 231, 236-239 inclusive and 255; partial coverage on claims Pa 876203, 205, 213, 215, 217, 219, 222-224 inclusive, 228, 232, 240, 245-247 inclusive, 249 and 254; and no coverage on claims Pa 876201, 202, 206-212 inclusive, 218, 229, 230, 233-235 inclusive, 241-244 inclusive, 248 and 250-253 inclusive. Limited claim line reconnaissance mapping was completed on claims Pa 876234, 235, 241-246 inclusive and 250-253 inclusive.

Part of claim Pa 876230 overlaps leased claim Pa 17652 while an open gore is bounded by claims Pa 17652, Pa 876227 and Pa 876230 (Figure 2).

LOCATION ACCESS AND TOPOGRAPHY

The Hanna Lake property is located approximately 30 kilometres north-northwest of Savant Lake, Ontario and 7 kilometres west of Highway 599 (Figure 1). Summer access is by float plane based near Savant Lake to either Hanna Lake near the centre of the property or Longwok Lake to the northeast. The linecutting crew camped at Longwok Lake while the geologic survey crew erected a camp and dock at Hanna Lake. An old drill tote road branches southwest off Highway 599 approximately 37 kilometres north of Savant Lake but is overgrown and would have to be upgraded for

summer access. During the winter, access would be by ski-plane based at Sioux Lookout 95 kilometres to the south west or Pickle Lake 100 kilometres to the north.

The southern half of the property consists of fairly high ground with moderate outcrop. A steep-sided southwest trending esker traverses the northern part of the property. These higher areas are covered with spruce, poplar and jackpine. Spruce-alder swamp fills narrow valleys between outcrop areas. The northeast part of the property is dominated by a large spruce-tea-tamarack swamp. Boulder fields and piles are common across the claim block. Erratics of granite up to 10 metres high were found.

PREVIOUS WORK

The geology of the surrounding the Hanna Lake property has been compiled on Ontario Department of Mines preliminary map P-354 by Davis and Pryslak (1966). No detailed mapping by government workers has been done on the property but $\frac{1}{4}$ mile scale mapping was conducted by Bond (1977) in McCubbin Township immediately to the south.

The area covered by the claim block was previously staked in 1956 by Northern Canada Mines and acquired by Hanna Mines in 1966. Northern Canada Mines retains a leased claim block to the southwest. Work by Northern Canada Mines was reconnaissance in nature, consisting of a magnetometer survey along claim lines and prospecting. Their leased claims were subject to more detailed ground surveys and diamond drilling. Iron ore was the sought after commodity.

Hanna Mines carried out more detailed work on the "Hanna Lake" property. Magnetometer and detailed geological mapping were completed during 1966 and 1967 respectively. The quality of the detailed mapping supervised by Nelson Hogg is very good. Hanna Mines also drilled one

hole totalling 35.2 metres (#20) in 1966 and five holes totalling 249.5 metres during 1968. All drill holes were located in the field but no core is available. Also, the log for hole #20 has not been filed.

An airborne electromagnetic survey flown by Umex Inc. in 1975 covers the area surrounding the claim block. The claims held by Hanna Mines lapsed in 1985 and were staked for Umex in the spring of 1986.

REGIONAL GEOLOGY

The reader is referred to reports by Trowell (1986), Bond (1977, 1979, 1980) and Skinner (1969) for a review of the regional geology of the Savant Lake Greenstone Belt. The property lies near the northern boundary of the Wabigoon Subprovince. Briefly, it lies near the base of a tholeiitic volcanic sequence underlain by iron formation. This sequence is folded about a synclinal axis well documented from previous mapping, drilling and airborne geophysical surveys.

PROPERTY GEOLOGY

The Hanna Lake property is underlain by a series of northeast trending, southeast dipping chert-magnetite iron formation, intruded by numerous gabbroic sills and dykes, overlain by massive to pillowed mafic volcanics. Granitoid bodies border the claim block to the north but only outcrop in the extreme northeast corner of the grid near Longwok Lake.

The iron formation appears to form several bands that are separated by discontinuous gabbroic sills. It is thought that the iron formation bands were initially one thick chemical sedimentary horizon that was subsequently wedged apart by the intrusions of gabbro. Lateral continuity of the iron formation does not imply stratigraphic continuity.

The iron formation bands vary in thickness from 0.5 to over 100 metres. Thicker sections are due to isoclinal folding. Dips vary between 40° and 80° to the southeast. Hogg (1968) defined four types of iron formation based on magnetite content while the writer, whose mandate was not to assess the iron potential of the property, grouped all magnetite-bearing horizons as iron formation regardless of iron content. The reader is referred to Hogg's excellent 1:1200 scale maps for this detailed subdivision.

Magnetite bands rarely exceed 3 cm in thickness, unlike the chert beds which are much thicker. The cherts are generally grey to creamy-white in colour though speckled varieties were observed. One thin weakly pyritic graphitic argillite was found at 15+25N, 1+80E. Sulphide occurrences were very rare and consisted of minor disseminations (<1%) of pyrite and/or pyrrhotite at the margins of the magnetic bands. No individual sulphide horizons were mapped.

Besides the main iron formation bands, thin magnetite-chert beds generally less than 1 metre in thickness occur as interflow sediments within the mafic volcanic sequence.

Tight isoclinal folding was observed in several exposures of iron formation across the property. In some outcrops two ages of deformation is evident (Figure 3a) while other outcrops show complex relationships of folding, faulting and mafic intrusive activity (Figures 3b, c). Detailed structural analysis was not attempted; in part due to the strong magnetic deflection caused by the iron formation. A sun compass would be needed for a meaningful structural survey.

Overlying the main iron formation horizons are a series of intercalated massive to pillowed mafic volcanics. Some pillowed horizons can be traced along strike for 1500 metres. Tops from pillow shapes and flow contacts

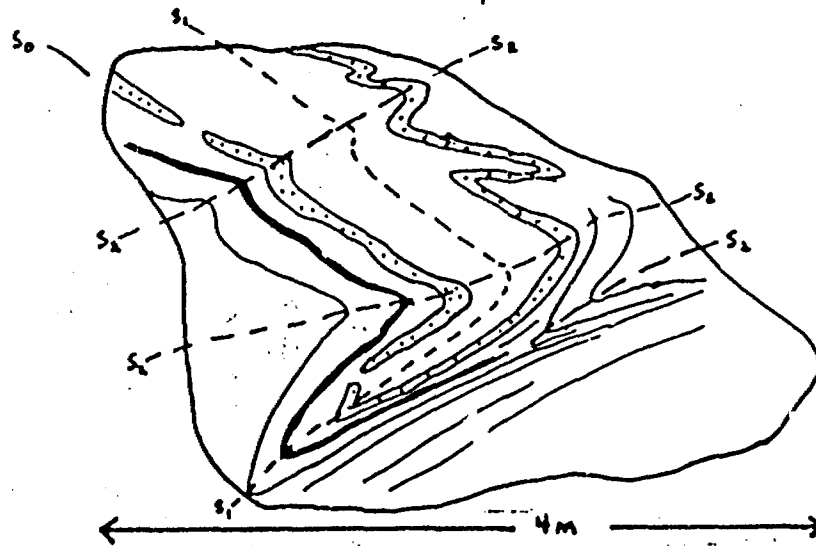


FIGURE 3a: Crossfolding (S_2) of existing isoclinal fold (S_1) in chert-magnetite iron formation, 20+80S, 7+40W.

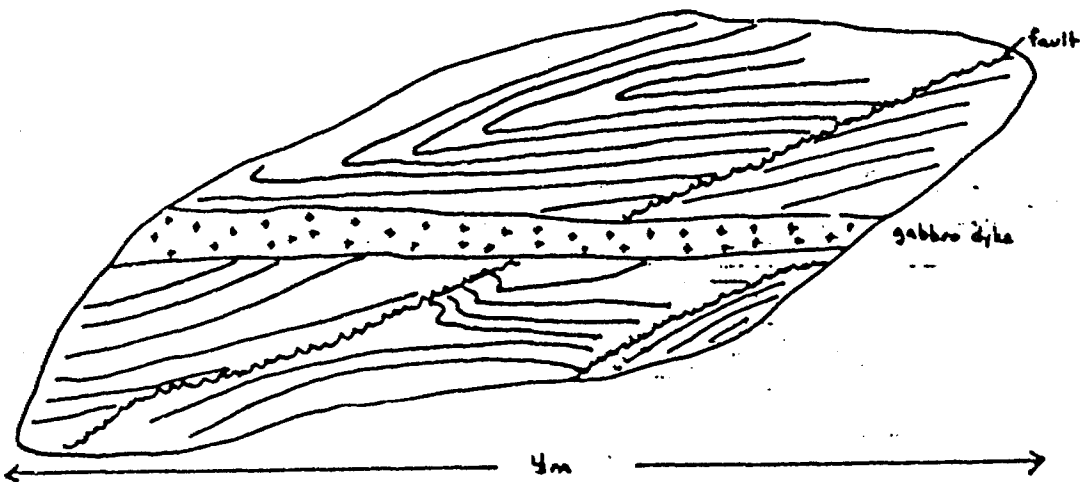


FIGURE 3b: Fold and fault pattern in chert-magnetite iron formation 15+40N, 2+05E.

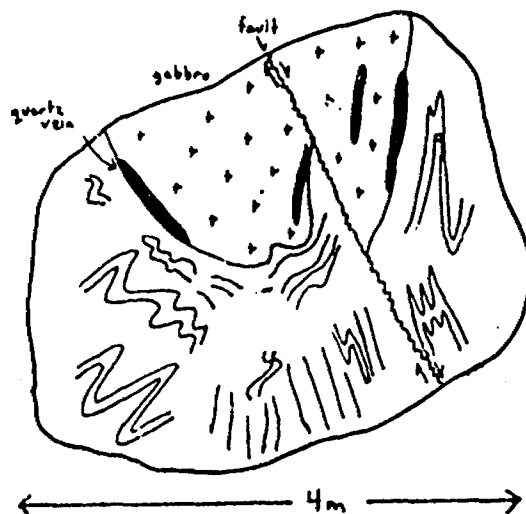


FIGURE 3c: Fold and fault pattern at fold nose with gabbro intrusion, 3+40N, 2+55E.

indicate a south to southeast facing sequence. Pillowed flows are usually thinner than the massive varieties. Strikes generally parallel those of the adjacent iron formation although in the southwest the volcanics swing to a due west trend, almost normal to the iron formation strike. This discordance is probably due to folding and intrusion of the gabbros and not an unconformable relationship with the iron formation.

Some of the coarser grained flows may be finer grained portions of the gabbroic rocks as contact relationships were seldom observed.

Metamorphic differentiation has created banded structures in some volcanic units that have previously been interpreted as mafic tuffs. Thin section study revealed a metamorphic rather than pyroclastic/epiclastic origin.

Crosscutting "bleached" alteration patches were noted in several exposures. This bleaching (sausseritization) is composed of fine grained zoisite with minor quartz. This section study also showed that no feldspar is present, probably destroyed at the expense of zoisite.

Minor gossans associated with narrow shear zones and quartz veining were located near L7S, 3+50E; L15S, 3+75E; L17S, 4+25E and L22S, 4+00W. Pyrite and trace pyrrhotite occur in these gossanous shears.

Intruding the volcanic-sedimentary sequence are medium to coarse grained gabbroic sills and dykes. The bulk of gabbro intruded along the main iron formation-mafic volcanic contact and stopped a significant portion of the iron formation. A prolonged period of intrusive activity is indicated by structural/intrusive relationships with iron formation (Figures 3b, c). Some of the gabbroic rocks may be high level magma chambers feeding flows still higher in the volcanic stratigraphy. Similar relationships between gabbros and iron formation are reported

from the Honeywell Township area east of Red Lake (Johns, 1979) and from the Shaw Dome area south of Timmins (Pyke, 1982) although the latter case involves ultra mafic rather than mafic intrusions. Coarse gabbroic dykes (hornblendite) were observed cutting medium grained gabbro near L23S, 8+50N.

A moderately developed shear zone approximately 300 metres wide trending at 090° and dipping at 40° to 90° south, cuts diagonally across the gabbro near the centre of the gridded area (L0). Narrow quartz-filled weakly pyritic shears are common within the zone. Minor carbonate was observed adjacent to some shears, as were garnet porphoblasts. Small scale folds plunging to the southwest were recorded in the zone as well.

Granitoid bodies border the claim block to the north but are exposed only in the extreme northeast corner of the grid near Longwok Lake. They probably underlie much of the swampy area along the baseline as hornfelsic "baked" textures were noted in some outcrops immediately south of the swamp. Ground magnetic surveys should define the contact zone.

STRUCTURAL GEOLOGY

The property lies on the north limb of a westerly closing synclinal structure. The fold nose lies immediately to the southwest of the claim group. Initial isoclinal folds (D_1), probably related to predominantly vertical motion tectonism associated with granitoid intrusion are modified by a younger predominantly horizontal motion tectonism (D_2) associated with northwesterly regional compression (Schwerdtner et al, 1979). Evidence of the two periods of deformation is graphically displayed in Figure 3a. The initial folding has locally thickened the iron formation horizons.

Gabbro intrusion appears to be both predate and postdate D_1 deformation (Figures 3b, c).

The main shear zone in gabbro may be related to the D_2 deformation event although regional structural analysis was not attempted.

A dextral fault with approximately 200 metre horizontal displacement is interpreted to transect both volcanic and intrusive rocks between L3S and L5S. This fault is subparallel to the above mentioned shear zone and may be related to the same D_2 event. Other faults with small displacements were observed on several exposures across the property.

GEOCHEMISTRY

A total of 63 samples were collected and sent to Acme Analytical Laboratory for their 30 element (ICP) plus gold (AA) analysis. Both sulphidic quartz veins (16) and iron formation (47) were analysed. No anomalous gold or "pathfinder" element (As, B, Bi, Sb, W) contents were encountered in the quartz veins although some copper "kicks" were recorded indicating minor chalcopyrite associated with the pyrite/pyrrhotite.

Five anomalous gold values (>20 ppb) were returned from the iron formations sampled; the highest being 400 ppb Au from sample A93152. This sample is from a very small outcrop of garnetiferous magnetite-bearing material (iron formation?) at the west boundary of the property. Other weakly anomalous areas occur between Hanna drill hole #64 (L20S, 6W) and L16S, 5W; between L4N, 4E and L8N, 5E; and just east of claim Pa 876243. All pathfinder elements are at background levels.

Two samples of pillowed mafic volcanics were sent to X-ray Assay Laboratories for whole rock analysis. Data reveals that at least two types of magnesium tholeiitic basalt occur on the property. This magnesium

chemistry is consistent with the low stratigraphic position of the flows. The two types are a more "primitive basalt characterized by higher MgO, Cr₂O₃ and Ni contents and a less "primitive" basalt characterized by higher TiO₂, P₂O₅, Y, and Zr contents.

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December 23, 1986

REFERENCES

- Bond, W. D.
1977: Geology of McCubbin, Poisson, and McGillis Townships (Savant Lake Area), District of Thunder Bay; Ontario Division of Mines, Geological Report 160, 78p. Accompanied by Map 2357, scale 1:31680
- 1979: Geology of Conant, Jutten, and Smye Townships (Savant Lake Area), District of Thunder Bay; Ontario Geological Survey Report 182, 113p. Accompanied by Map 2398, scale 1:31680
- 1980: Geology of Houghton-Hough Lakes Area (Savant Lake Area), District of Thunder Bay; Ontario Geological Survey Report 195, 112p. Accompanied by Map 2424, scale 1:31680
- Davies, J. C. and Pryslak, A. P.
1966: Miniss Lake Sheet, Districts of Kenora and Thunder Bay; Geological Compilation Series Ontario Department of Mines Preliminary Geological Map P-354, scale 1 inch to 2 miles
- Hobbs, B. E.; Means, W. D. and Williams, P. F.
1976: An Outline of Structural Geology, 571p., John Wiley and Sons
- Hogg, N.
1968: Geological Report, Hanna Lake Claims, Miniss River Project, The Hanna Mining Company, Ontario filed at Resident Geologist's Office, Sioux Lookout, Ontario
- Johns, G. W.
1979: Geology of Honeywell and McNaughton Townships, District of Kenora, Patricia Portion; Ontario Geological Survey Report 177, 60p. Accompanied by Map 2404, scale 1:31680
- Pyke, D. R.
1982: Geology of the Timmins Area, District of Cochrane, Ontario Geological Survey Report 219, 141p. Accompanied by Map 2455, scale 1:50000, 3 charts and 1 sheet microfiche

Schwerdtner, W. M., Stone, D., Osadetz, K., Morgan, J.
and Stott, G. M.

1979: Granitoid Complexes and the Archean Tectonic
Record in the Southern Part of Northwestern
Ontario, Canadian Journal of Earth Science,
Vol. 16, 1965-1979

Skinner, R.

1969: Geology of the Sioux Lookout Map Area, Ontario,
a Part of the Precambrian Shield; Geological
Survey of Canada, Paper 68-45, 10p. Accompanied
by Map 14-1968, scale 1:253440

Trowell, N. F.

1986: Geology of the Savant Lake Area, Districts
of Kenora and Thunder Bay; Ontario Geological
Survey, Open File Report 5606, 181p., 15 figures,
17 tables and 2 maps

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, V, SI, ZR, CE, SM, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 29 1986

DATE REPORT MAILED: Sept 6/86

ASSAYER: D. J. J. DEAN TOYE, CERTIFIED I.C. ASSAYER.

UMEX INC PROJECT - SABIN FILE # 86-2368

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SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mi	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	F	Al	Na	K	W	Au1
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
A93049	1	14	9	4	.2	1	7	120	15.63	6	5	ND	1	6	1	3	4	5	.17	.040	3	2	.09	9	.01	2	.07	.02	.02	1	2
A93050	1	11	15	3	.1	2	11	132	23.38	3	5	ND	1	2	1	2	7	5	.05	.044	2	1	.07	5	.01	2	.01	.01	.02	1	3
A93051	1	35	7	28	.2	1	4	60	5.39	4	5	ND	1	4	1	2	2	4	.14	.047	2	4	.05	2	.01	4	.07	.01	.01	1	10
A93052	3	49	2	277	.1	39	16	368	6.33	4	5	ND	2	3	1	2	2	58	.79	.055	2	60	1.92	9	.08	5	2.79	.11	.03	1	400
A93053	1	63	5	25	.1	16	7	345	6.42	5	5	ND	1	18	1	2	2	35	1.54	.042	2	27	.59	9	.10	4	1.31	.13	.03	1	15
A93054	1	121	14	3	.1	4	12	81	15.43	3	5	ND	2	2	1	2	2	10	.38	.048	2	4	.12	4	.01	2	.24	.03	.01	1	4
A93055	1	13	16	5	.1	3	12	94	26.64	2	5	ND	2	4	1	2	2	9	.22	.050	3	2	.04	5	.01	2	.01	.01	.01	1	2
A93056	1	13	2	5	.1	2	2	59	.94	3	5	ND	1	3	1	2	2	13	.12	.009	2	3	.10	2	.03	2	.16	.03	.01	1	1
A93057	1	825	2	155	.1	22	28	86	1.72	3	5	ND	1	4	1	2	2	4	1.11	.027	2	5	.02	1	.01	4	.64	.01	.01	1	3
A93058	1	9	10	6	.1	1	10	137	28.19	3	5	ND	1	6	1	2	3	7	.22	.077	2	3	.09	7	.01	2	.04	.01	.02	1	2
A93059	1	34	10	3	.1	3	6	160	8.33	2	5	ND	1	3	1	2	2	4	.14	.021	2	3	.08	13	.01	2	.10	.01	.03	1	1
A93060	1	57	3	14	.1	7	6	226	3.78	2	5	ND	1	2	1	2	2	12	.44	.021	2	10	.22	4	.02	6	.30	.04	.02	1	2
A93061	1	39	4	13	.2	3	2	86	3.47	2	5	ND	1	2	1	2	2	1	.12	.015	2	4	.06	1	.01	4	.09	.01	.01	1	67
A93062	1	31	12	84	.1	4	5	352	6.47	2	5	ND	1	15	1	2	2	4	.34	.050	4	4	.11	18	.01	4	.19	.01	.03	1	1
A93063	1	39	6	32	.5	1	4	128	5.70	7	5	ND	1	2	1	2	2	1	.15	.035	2	1	.09	1	.01	4	.02	.01	.01	1	1
A93064	1	11	3	4	.1	2	1	39	.66	2	5	ND	1	1	1	2	2	2	.03	.004	2	2	.01	1	.01	3	.03	.01	.01	1	1
A93065	1	16	21	5	.2	2	12	183	33.09	2	5	ND	2	3	1	2	3	2	.11	.074	9	1	.06	2	.01	2	.05	.01	.01	1	4
A93066	1	19	5	6	.1	2	3	69	4.05	5	5	ND	1	2	1	2	5	1	.25	.039	2	3	.06	1	.01	2	.08	.01	.01	1	42
A93067	1	21	6	2	.1	1	3	49	5.14	2	5	ND	1	3	1	2	2	1	.03	.060	2	1	.03	1	.01	4	.02	.01	.01	1	2
A93068	1	3	21	1	.2	2	7	102	19.10	2	5	ND	1	2	1	2	2	5	.07	.028	2	1	.04	2	.01	3	.01	.01	.01	1	5
A93069	1	9	2	1	.1	3	1	34	.38	2	5	ND	1	1	1	2	2	1	.01	.002	2	2	.01	1	.01	4	.01	.01	.01	1	2
A93070	1	12	10	35	.1	1	4	76	9.92	2	5	ND	1	4	1	3	2	3	.17	.050	2	3	.05	1	.01	6	.01	.01	.01	1	2
A93071	1	168	11	4	.2	2	15	103	18.06	2	5	ND	1	3	1	2	4	11	.22	.050	5	2	.06	19	.01	5	.02	.01	.04	1	5
A93072	1	437	5	20	.2	18	24	143	3.90	2	5	ND	1	17	1	2	2	15	.69	.044	5	11	.43	17	.06	6	.84	.02	.03	1	2
A93073	1	69	2	20	.1	23	10	193	4.43	5	5	ND	1	2	1	2	2	37	.91	.027	2	59	1.19	4	.08	4	1.37	.11	.02	1	6
A93074	1	22	2	47	.1	64	27	630	4.72	7	5	ND	1	7	1	2	2	92	1.37	.024	2	147	2.17	1	.19	2	2.62	.06	.01	2	4
A93075	1	365	4	18	.1	7	23	84	2.12	2	5	ND	1	2	1	2	2	12	.17	.013	2	17	.27	1	.02	2	.34	.02	.01	1	5
A93076	1	194	3	21	.1	9	13	126	1.77	2	5	ND	1	5	1	2	2	20	.47	.016	2	17	.33	2	.04	2	.66	.08	.01	1	7
A93077	1	43	18	5	.1	1	11	147	23.36	3	5	NE	1	3	1	2	3	15	.16	.027	2	1	.06	8	.01	5	.01	.01	.02	1	2
A93078	1	161	2	76	.2	6	11	400	3.90	3	5	ND	1	8	1	2	2	28	1.21	.039	2	19	.39	4	.09	6	.65	.07	.02	1	1
A93079	1	14	3	7	.1	2	3	142	3.56	3	5	ND	1	1	1	2	2	3	.06	.012	2	4	.02	4	.01	9	.04	.01	.01	1	4
A93080	1	32	10	10	.1	2	8	159	11.34	3	5	ND	1	2	1	2	2	35	.50	.039	2	7	.30	7	.06	2	.56	.08	.02	1	1
A93081	1	13	17	13	.2	2	8	160	20.81	5	5	ND	1	4	1	5	2	13	.20	.054	7	6	.11	11	.02	3	.06	.02	.03	1	2
A93082	1	10	3	6	.1	1	5	94	14.04	2	5	ND	1	3	1	2	4	5	.12	.038	2	2	.06	1	.01	2	.01	.01	.01	1	6
A93083	1	29	10	59	.1	2	5	102	7.29	6	5	ND	1	5	1	2	3	2	.17	.034	2	2	.06	4	.01	4	.04	.01	.02	1	68
A93084	1	77	6	9	.1	5	8	99	2.28	2	5	ND	1	1	1	2	2	1	.07	.013	2	3	.03	1	.01	2	.04	.01	.01	1	3
STD C/AU-0.5	21	56	39	132	7.0	67	29	1083	3.96	40	30	7	33	48	17	15	18	62	.48	.103	36	58	.88	178	.08	33	1.73	.06	.13	14	480

UMEX INC PROJECT - 50KIN FILE # B6-2248

PAGE 2

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	In PPM	Sr PPM	Cd PPM	Sb PPM	Pi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Fe PPM	Ti %	Z PPM	Al %	Na %	K %	W PPM	AuI PPM
A93085	2	125	14	180	.1	2	13	114	10.84	2	5	ND	1	6	2	2	5	20	.42	.050	26	12	.11	12	.03	2	.29	.04	.04	1	90
A93086	1	25	8	17	.1	4	9	143	14.11	2	5	ND	1	3	2	2	5	7	.11	.052	17	4	.08	7	.01	8	.01	.01	.02	1	10
A93087	1	32	23	5	.1	6	7	111	13.21	2	5	ND	1	2	1	2	9	4	.13	.062	22	1	.07	10	.01	2	.02	.01	.02	1	3
A93088	1	717	12	5	.1	6	15	115	13.98	2	5	ND	1	1	1	2	6	3	.17	.057	10	1	.07	1	.01	2	.01	.01	.01	1	8
A93089	1	5	12	8	.1	2	5	60	9.98	6	5	ND	1	7	1	2	2	4	.08	.045	20	2	.06	12	.01	2	.04	.01	.02	1	1
A93090	7	121	68	70	.5	6	8	218	6.60	14	5	ND	3	9	1	2	3	58	.08	.026	12	56	.43	92	.17	2	1.27	.05	.39	1	1
A93091	1	59	30	110	.1	36	24	697	6.39	3	5	ND	3	16	3	2	2	118	1.11	.080	20	25	1.16	14	.22	2	2.12	.09	.10	1	1
A93092	2	103	10	162	.2	20	10	418	5.10	6	5	ND	1	3	1	2	2	39	.35	.077	5	35	.47	9	.10	2	.85	.02	.04	1	1
A93093	1	8	51	6	.1	4	10	118	10.42	7	5	ND	1	2	1	2	2	1	.16	.080	66	1	.05	4	.01	17	.03	.01	.01	1	1
A93094	1	48	11	4	.1	20	13	97	17.05	2	5	ND	1	3	1	2	5	6	.21	.048	30	1	.08	4	.01	6	.11	.02	.01	1	1
A93095	1	86	7	204	.1	18	20	2455	19.41	12	5	ND	1	7	1	2	5	8	.28	.096	26	2	.29	2	.01	2	.02	.01	.01	1	1
A93096	1	9	6	9	.1	6	6	74	9.61	4	5	ND	1	5	1	2	2	3	.07	.065	10	1	.05	7	.01	2	.01	.01	.01	1	1
A93097	1	7	8	10	.1	1	5	62	10.89	2	5	ND	1	3	2	2	4	4	.03	.050	20	4	.05	3	.01	2	.01	.01	.01	1	1
A93098	1	21	10	8	.1	8	8	225	14.78	3	5	ND	1	2	1	2	8	9	.18	.056	26	1	.06	3	.01	2	.01	.01	.01	1	3
A93099	1	4	7	1	.1	6	8	90	17.35	2	5	ND	1	5	2	3	10	6	.15	.076	39	4	.07	6	.01	2	.01	.01	.02	1	1
A93100	1	48	2	15	.1	32	9	113	1.59	2	5	ND	1	2	1	2	2	50	.54	.013	4	58	.78	4	.08	3	.79	.10	.01	1	2
A93101	1	66	3	40	.1	18	10	116	3.90	6	5	ND	1	4	1	2	2	82	.25	.021	4	105	2.03	19	.06	3	1.74	.06	.04	1	2
A93102	1	131	14	44	.3	8	13	241	4.67	6	5	ND	1	5	1	2	2	31	1.07	.049	7	19	.80	18	.04	2	.82	.12	.02	1	2
A93103	3	172	5	612	.1	14	18	310	4.39	4	5	ND	2	3	2	2	2	11	.45	.029	12	10	.25	14	.04	2	.73	.04	.04	1	15
A93104	1	20	13	34	.1	4	9	185	21.26	2	5	ND	1	3	1	2	2	6	.22	.052	29	2	.06	5	.01	2	.03	.01	.01	1	51
A93105	1	463	19	20	.2	24	34	216	14.07	2	5	ND	1	6	2	2	5	8	.50	.061	24	4	.05	4	.01	5	.09	.01	.01	1	3
A93106	1	44	13	5	.1	4	3	70	1.00	2	5	ND	1	3	1	2	2	4	.15	.001	2	10	.08	6	.01	3	.07	.01	.01	1	2
A93107	3	206	6	12	.1	4	13	329	10.27	2	5	ND	1	2	1	2	2	16	1.17	.040	13	7	.43	4	.04	2	.65	.09	.02	1	3
A93108	1	54	26	36	.1	6	11	199	19.66	6	5	ND	1	13	1	2	3	5	.36	.036	22	3	.13	6	.01	2	.07	.02	.02	3	19
A93109	1	417	2	5	1.0	8	20	110	1.89	5	5	ND	1	17	1	2	2	11	1.28	.017	4	14	.21	4	.03	2	.80	.02	.01	1	2
A93110	1	76	6	31	.1	10	9	251	4.07	8	5	ND	1	8	1	2	2	102	1.01	.056	14	9	.66	55	.12	2	.84	.18	.09	1	6
A93111	1	119	7	86	.3	8	16	171	10.24	5	5	ND	1	7	2	2	2	10	.33	.047	4	3	.15	9	.01	2	.17	.02	.05	1	3
STD C/AU-G.S	21	59	40	138	7.1	72	31	1118	3.96	41	21	8	33	48	18	16	20	63	.48	.109	35	58	.89	186	.08	35	1.73	.06	.13	13	500

XRAY

CERTIFICATE OF ANALYSIS

TO: UMEX INC.
ATTN: DAVID UNGER
1935 LESLIE STREET
DON MILLS, ONTARIO
M3B 2M3

CUSTOMER NO. 571

DATE SUBMITTED
27-AUG-86

REPORT 29131

REF. FILE 24766-F4

3 ROCKS PROJ. SABIN

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
WRMAJ %	WR	0.010
NI PPM	XRF	10.000
WRMIN PPM	WR	10.000

DATE 10-SEP-86

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY 

X-RAY ASSAY LABORATORIES

10-SEP-86

REPORT 29131

REFERENCE FILE 24766

PAGE 1

SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	SUM
A93112	46.4	16.2	11.5	9.41	2.17	0.22	12.0	0.19	0.68	0.05	0.05	1.00	99.9
A93113	48.9	15.2	9.53	7.16	3.34	0.17	12.9	0.18	0.98	0.08	0.04	0.62	99.1

X-RAY ASSAY LABORATORIES

10-SEP-86

REPORT 29131

REFERENCE FILE 24766

PAGE 2

SAMPLE	RB	SR	Y	ZR	NB	BA
A93112	20	60	<10	20	20	70
A93113	20	50	20	50	20	80

SAMPLE NI PPM

A93112 180
A93113 140

DRILL RECORD

PROPERTY Minick River Property - Hanna Lake State

64

DATE MONTH
 LOCATION DATUM
 DEPARTURE BEARING NS0 W
 ELEVATION OF -45' W

MARKED
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	FROM	TO	WIDTH	ASSAY VALUES			
0- 5	Casing								
5- 34	Basic Dike - amphibolitized								
34- 41	Lean Iron Formation - cherty								
41- 48	Basic Dike - amphibolitized								
48- 50	Lean Iron Formation - cherty								
50-132	Basic Dike or Sill - amphibolitized. Massive, fine to medium grained.								
132-159	Banded Iron Formation Thin bands of magnetite and yellow iron silicates.								
159-200	Amphibolite With plagioclase laths - probably a dike.								
200	END OF HOLE								

NEUTRON COUNT FROM 500 TO 1000

DRILLED BY Heath & Sherwood

Nelson Hogg
 Nelson Hogg

PROPERTY Mine & Pit Property - Hanna Lake Claims
 Claim No. 26291 - 400' x 250' of 27 Post

HOLE No. 65

DATE OF WORK

TO

START

BY

TO

COMPLETED

DEPARTURE

BEARING

ULTIMATE DEPTH

ELEVATION

DIP

40°W 27° - 42°E

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
0- 10	Casing								
10- 32	Amphibolitized Basic Tuff								
	Banded, some biotite, becoming coarse textured at contact								
32-133	Banded Iron Formation								
	Magnetite, iron silicates and sugary quartz in bands almost normal to the core axis. Cut by a few very narrow dikes of amphibolite up to 1/4 foot wide.								
133-159	Lean Iron Formation								
	Less magnetite and increased silicate bands.								

NORTHERN MINING FORM NO. 207 (24)

DRAWN BY

INDEXED

Richard Hogg

PROPERTY Miners River Property - Hanna Lake Claims

HOLE No.

SHEET NUMBER

SECTION

TOWNSHIP

DEPARTMENT

READING

ULTIMATE DEPTH

ELEVATION

DIP

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	FROM	TO	WIDTH	ASSAY VALUES			
153-196	Banded Iron Formation With banding at 70° to core axis. Mainly magnetite and yellow to green silicates.								
196-208	Lean Iron Formation Mainly yellow iron silicates and sugary quartz with minor magnetite in 1/8" laminations.								
208-218	Amphibolitized Basic Tuff Biotitic bands and bands of yellow silicates.								
218-230	Graphitic Tuff Contorted banding - about 30X sulphide, made up mainly of								

PROPERTY MAP FROM THE REV. 1910

DRAWN BY

DATE

Richard J. Hogg

PROPERTY Minnie River Property - Hanna Lake Claims

HOLE No.

SHEET NUMBER

SECTION

TOWNSHIP

RANGE

COUNTY

SECTION

ULTIMATE DEPTH

ELEVATION

DIP

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	FROM	TO	WIDTH	ASSAY VALUES		
	pyrrhotite, with minor pyrite and a few specks of chalcopyrite.							
230-239	Amphibolitized Basic Tuff Some biotitic banding							
239-248	Lean Iron Formation Bands of sugary quartz, yellow and green silicates of iron, with heavy pyrrhotite and minor pyrite.							
248-274	Amphibolitized Basic Tuff Biotitic banding.							
274	END OF HOLE							

NORTHERN FORM 100 001/00

DRAWN BY Heath & Sherwood

DATE

Nelson Hogg
Nelson Hogg

DIAMOND DRILL RECORD

PROPERTY Miniss River Property - Hanna Lake Claims HOLE No. 66
Claim Pa-36612 - 450' East of #3 Post
 SHEET NUMBER 1 of 4 SECTION FROM TO STARTED August 26, 1967
 LATITUDE L208N DATUM COMPLETED August 27, 1967
 DEPARTURE 400'E BEARING N50°W ULTIMATE DEPTH 434'
 ELEVATION DIP -45°W 380' - 39°30' PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
0- 17	Casing								
17- 26	Basic Tuff								
	With biotitic banding at 55° to core.								
26- 52	Lean Iron Formation								
	Brown iron silicate, sugary quartz								
	and magnetite interband at 65° to								
	core. Minor pyrrhotite and pyrite								
52- 78	Banded Iron Formation								
	As above, but magnetite bands are								
	more frequent.								
78- 87	Lean Iron Formation								
87-114	Interbanded Lean Iron formation and								
	amphibolitized basic volcanic.								

NORTHERN MINER FORM 805 REV/64

DRILLED BY

SIGNED

Chelan, Ho99

DIAMOND DRILL RECORD

PROPERTY Miniss River Property - Hanna Lake Claims HOLE No. 66

SHEET NUMBER 2 of 4 SECTION FROM TO STARTED

LATITUDE DATUM COMPLETED

DEPARTURE BEARING ULTIMATE DEPTH

ELEVATION DIP PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
114-135	Lean Iron Formation								
	Banded at 72° to core. Brown iron silicate bands predominate.								
135-177	Banded Iron Formation								
	Bands of magnetite, brown iron silicates and greenish amphibole. Minor pyrrhotite.								
177-182	Amphibolite								
	Basic dike or sill with fine margins.								
182-238	Lean Iron Formation								
	With bands of brown iron silicates and minor magnetite.								
238-291	Banded Iron Formation								
	Bands of magnetite, brown iron								

NORTHERN MINER FORM 503 REV. 74

DRAWN BY

SIGNED

Richard Bogg

DIAMOND DRILL RECORD

PROPERTY Miniss River Property - Hanna Lake Claims HOLE No. 66

SHEET NUMBER 3 of 4 SECTION FROM TO STARTED.....

LATITUDE..... DATUM..... COMPLETED.....

DEPARTURE..... BEARING..... ULTIMATE DEPTH.....

ELEVATION..... DIP..... PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
	silicate and sugary quartz at 70°-								
	80° to core.								
291-315	Lean Iron Formation								
	Only a few narrow magnetite bands.								
	Includes 2 narrow dikes of amphibol-								
	ite, up to 1½ feet thick.								
315-330	Pegmatite								
	Coarse granitic rock, with several								
	inclusions of amphibolite.								
330-392	Amphibolitized Basic Volcanic								
	Generally massive, with faint band-								
	ing - possibly a tuff.								
392-404	Interbedded Lean Iron Formation								
	And basic tuff in bands up to 5' thick.								

D. P. Rhea

DIAMOND DRILL RECORD

PROPERTY Miniss River Property - Hanna Lake Claims HOLE No. 67
Claim Pa-36609 - 400' S65°E of #4 Post
 SHEET NUMBER 1 of 1 SECTION FROM TO STARTED August 28, 1967
 LATITUDE L192N DATUM COMPLETED August 30, 1967
 DEPARTURE 480'E BEARING N50°W ULTIMATE DEPTH 298'
 ELEVATION DIP -45°W 298' - 41° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
0- 12	Casing								
12- 75	Lean Iron Formation								
	Bands of sugary quartz, brown iron silicates and minor magnetite cut the core at 60-80°.								
75- 81	Amphibolitized basic Dike								
81-120	Lean Iron Formation as from 12 - 75								
120-224	Banded Iron Formation								
	Magnetite content increased from 120 to 148 feet, and banding is more prominent at 70° to core.								
224-298	Amphibolite -								
	Medium to coarse-grained with plagioclase laths.								

308 END OF HOLE

NORTHERN MINER FORM 503 REV. 7/54

DRILLED BY

Heath & Sherwood

SIGNED

Nelson

DIAMOND DRILL RECORD

PROPERTY Miniss River Property - Hanna Lake Claims HOLE No. 68
Claim Pa-36610 - 200' N35°W of #3 Post
 SHEET NUMBER 1 of 2 SECTION FROM _____ TO _____ STARTED August 30, 1967
 LATITUDE L 192N DATUM _____ COMPLETED September 1, 1967
 DEPARTURE 170°W BEARING N50°W ULTIMATE DEPTH 334'
 ELEVATION _____ DIP -45°W 318' - 340 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
0- 8	Casing								
8- 25	Amphibolite								
	Probably a basic dike, somewhat sheared at the contact.								
25-123	Banded Iron Formation								
	Magnetite in bands up to 2" thick with brown iron silicate and sugary quartz. Banding cuts core at 65-73°.								
123-144	Amphibolite -								
	Probably a sill as dike, with fine-grained margins.								
144-159	Banded Iron Formation								
	Magnetite bands in equal amount with								

NORTHERN MINER FORM 503 REV./64

DRILLED BY _____

SIGNED _____

Nelson Hogg

DIAMOND DRILL RECORD

PROPERTY Minies River Property - Hanna Lake Claims HOLE No. 68

SHEET NUMBER 2 of 2 SECTION FROM TO STARTED.....

LATITUDE..... DATUM..... COMPLETED.....

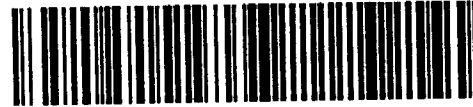
DEPARTURE..... BEARING..... ULTIMATE DEPTH.....

ELEVATION..... DIP..... PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAY VALUES			
	brown silicates and sugary quartz								
	at 70° to core.								
159-258	Lean Iron Formation								
	Silicate bands pre-dominate, with								
	lesser amounts of sugary quartz,								
	magnetite and pyrrhotite. Banding								
	is at 75-85° to core.								
258-271	Banded Iron Formation								
	In which magnetite constitutes 25%.								
271-334	Amphibolite								
	Probably a basic dike, or sill, with								
	laths of feldspar irregularly								
	distributed.								
334	END OF HOLE								

G. C. Olson

HILL LAKE G-2067



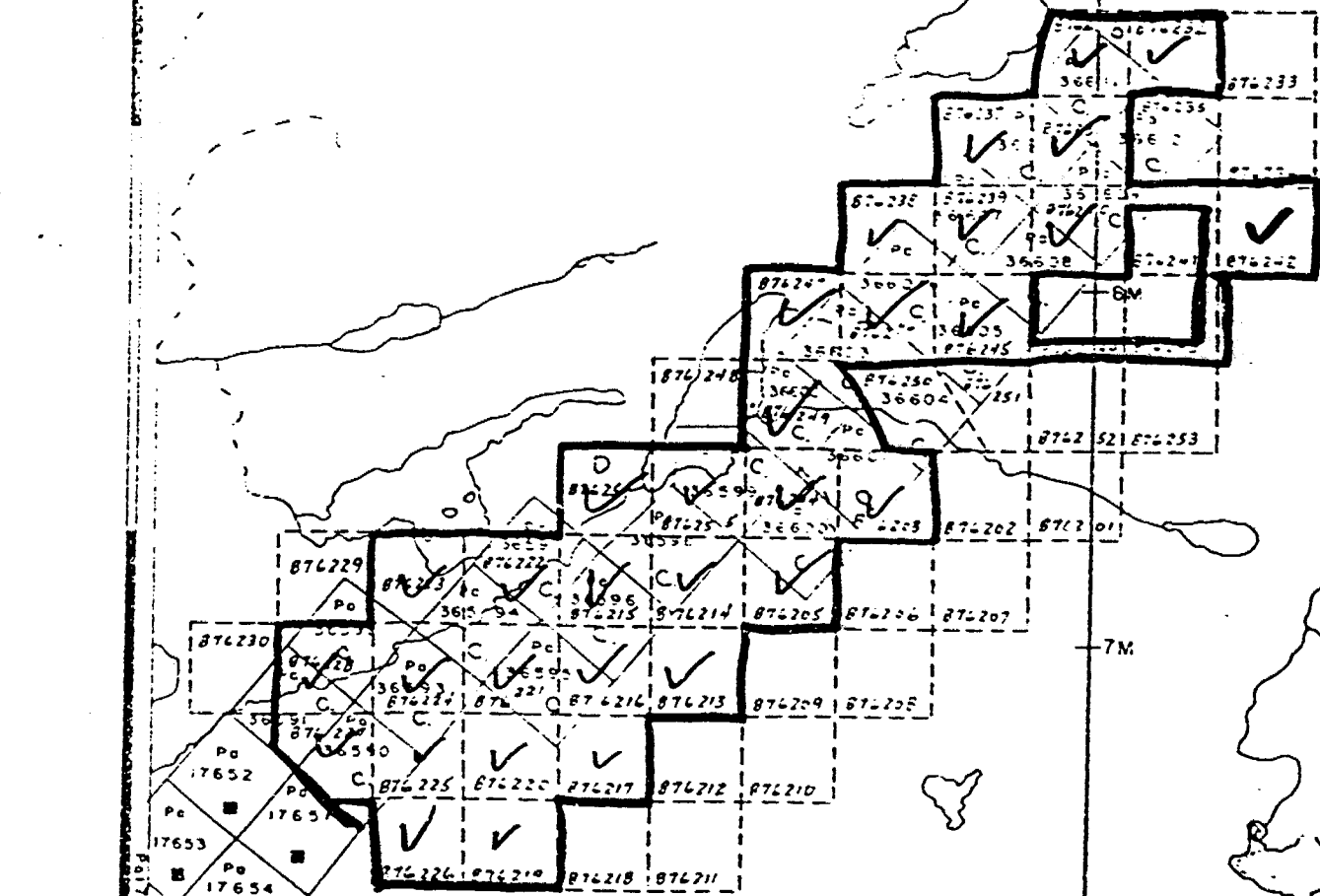
900

52J/10SE
AREA OF
SOLITUDE LK
M-2054
Scale: 1" = 40 chains

MERIDIAN LINE SURVEYED BY H. W. SUTHERLAND

1/2 MILE CUR RESERVE

MISSISSIPPI



50° 30'

90° 45'

44'

43'

42'

41'

40'

39'

38'

37'

36'

M-1804
GREBE LAKE and McCUBBIN Tp. (G-2053)



Ministry of
Northern Affairs
and Mines

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

29711
#87-8

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

R. Pickett

Mining Act

Type of Survey(s) Geological	Township or Area Solitude Lake area, G.2214
Claim Holder(s) UMEX Inc	Inspector's Licence No. T-133
Address 1935 Leslie Street, Don Mills, Ontario M3B 2M3	
Survey Company UMEX Inc	Date of Survey (from & to) 26 07 86 11 08 86 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author (of Geo-Technical report) Dave Mullen, c/o UMEX Inc, 1935 Leslie St., Don Mills, Ont. M3B 2M3	

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here	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 Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
Pa	876203		Pa	876236	
	876204			876237	
	876205			876238	
				876239	
	876213			876240	
	876214				
	876215			876245	
	876216			876246	
	876217			876247	
	876219			876249	
	876220				
	876221			876254	
	876222			876255	
	876223				
	876224				
	876225				
	876226				
	876227				
	876228				
	876231				
	876232				

JAN 19 1987

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures + 15 =

Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date **Jan. 13/87** Recorded Holder or Agent (Signature) *David Unger*

Total number of mining claims covered by this report of work

Pa. 876201

For Office Use Only

Total Days Cr. Recorded **1240** Date Recorded **JAN. 19/87** Mining Recorder *[Signature]*

Date Approved as Recorded *[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
David Unger, c/o UMEX Inc, 1935 Leslie St., Don Mills, Ont. M3B 2M3

Date Certified **Jan. 13/87** Certified by (Signature) *David Unger*



Ministry of
Northern Development
and Mines

Technical Assessment
Work Credits

29711

File 2.9711

Date
January 30, 1987

Mining Recorder's Report of
Work No. 87-8

Recorded Holder
UMEX INC

Township or Area
SOLITUDE LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	PA 876204
Induced polarization _____ days	876214 to 16 inclusive
Other _____ days	876219 to 21 inclusive
Section 77 (19) See "Mining Claims Assessed" column	876224 to 27 inclusive
Geological _____ 40 _____ days	876231
Geochemical _____ days	876236 to 40 inclusive
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	876245 to 47 inclusive
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	876249
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	876255
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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

<u>20 DAYS GEOLOGICAL</u>	<u>10 DAYS GEOLOGICAL</u>
PA 876205	PA 876203
876217	876213
876222-23	876254
876228	
876232	

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

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

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

29711
#87-8

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

Mining Act

Geological
Holder(s)
UMEX Inc
Address
1935 Leslie Street, Don Mills, Ontario M3B 2M3
Survey Company
UMEX Inc
Date of Survey (from & to)
26 07 86 | 11 08 86
Total Miles of line Cut
Township or Area
Solitude Lake area, G.2214
Prospector's Licence No.
T-133
Name and Address of Author (of Geo-Technical report)
Dave Mullen, c/o UMEX Inc, 1935 Leslie St., Don Mills, Ont. M3B 2M3

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	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here	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		Mining Claim	
Prefix	Number	Prefix	Number
Pa	876203	Pa	876236
	876204		876237
	876205		876238
	876213		876239
	876214		876240
	876215		876245
	876216		876246
	876217		876247
	876219		876249
	876220		876254
	876221		876255
	876222		
	876223		
	876224		
	876225		
	876226		
	876227		
	876228		
	876231		
	876232		

JAN 19 1987

Expenditures (excludes power stripping)
Type of Work Performed
Performed on Claim(s)
MINING LANDS SECTION
Calculation of Expenditure Days Credits
Total Expenditures + 15 = Total Days Credits
Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Pa. 876201
Total number of mining claims covered by this report of work: 31
For Office Use Only
Total Days Credits Recorded: 1240
Date Recorded: Jan. 19/87
Mining Recorder: [Signature]
Date Approved as Recorded: [Signature]
Branch Director: [Signature]

Date: Jan. 13/87
Recorded Holder or Agent (Signature): David Unger

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
David Unger, c/o UMEX Inc, 1935 Leslie St., Don Mills, Ont. M3B 2M3
Date Certified: Jan. 13/87
Certified by (Signature): David Unger

2.9711

February 17, 1987

Your File:87-8
Our File:2.9711

Mining Recorder
Ministry of Northern Development and Mines
Court House
P.O. Box 3000
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

RE: Notice of Intent dated January 30, 1987
Geological Survey on Mining Claims
PA 876204, et al, in the Solitude Lake
Area

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

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

Yours sincerely,

J.C. Smith, A/Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Umex Inc
1935 Leslie Street
Don Mills, Ontario
M3B 2M3
Attention: David Unger

Resident Geologist
Sioux Lookout, Ontario

Dave Mullen
c/o Umex Inc
1935 Leslie Street
Don Mills, Ontario
M3B 2M3

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

Encl.



Ontario

Ministry of
Northern Development
and Mines

2.9711

Notice of Intent
for Technical Reports

January 30, 1987

2.9711/87-8

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

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

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

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

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

525/10SE-0021 # 1

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

(X)

