OM86-5-C-106

63.4903

MAGNETOMETER SURVEY

TOTAL FIELD AND VERTICAL GRADIENT
on the property of
G. K. STRINGER LTD.
German Township, Ontario

Timmins, Ontario,
July 21, 1986.

R. J. Bradshaw, P. Eng.
Geologist.

INTRODUCTION

As proposed in the writer's report dated June 12, 1986, a magnetometer survey has been conducted on the G. K. Stringer property along picket lines at 100 metre intervals.

Measurements of the magnetic total field and vertical gradient are plotted on accompanying maps at a scale of 1 : 300. A preliminary geological interpretation of the property is presented based on presently available data.

Currently an overburden drilling programme is underway on the property to acquire soil samples which will be examined and analyzed for gold and metal content in the search for a gold dispersal train. This work will be the subject of a separate report expected to identify targets for diamond drilling.

PROPERTY

The property, held by G. K. Stringer Ltd., consisting of 320 acres, includes the south halves of lots 3 and 4 in Concession I of German Township, Ontario.

LOCATION AND ACCESS

In southeast German Township the property is 38 kilometres east of downtown Timmins, Ontario.

Highway 101 traverses the area from east to west; and a series of gravel or sand roads provides excellent access to the various sectors of the property.

The boundary between German and Macklem Townships forming the south boundary of the property is cleared and marked by numerous survey points.

PREVIOUS WORK

No significant work has ever been completed on this property; however as previously documented (Bradshaw, 1986), Asarco drilled five overburden holes along the south boundary of the property in 1982. Positive results from samples in these holes largely account for the decision to proceed with the present programme.

GEOLOGY

The regional, local and economic geology is described in the writer's report of June 12, 1986.

Gold deposits in the immediate area are found in rocks south of the easterly trending Porcupine - Destor fault which bisects the property. These rocks include highly altered volcanics of the Tisdale Group and unaltered felsic intrusives.

The altered volcanic rocks consisting of a variety of intermediate to mafic schists are covered by very deep overburden ranging from 160 to 220 feet (49 to 67 metres) along the south boundary.

Asarco, operators of the previous overburden drilling programme, describe the bedrock chip samples as talc chlorite or quartz carbonate chlorite rock.

The present programme is comprised of nine holes in a line, parallel and about 100 metres north of the Asarco section. Four holes in the west half of the property have been completed. Hole 86-2 on Line 300 East, Station 0+75 North, stopped in talc chlorite carbonate schist containing better than 5% per cent pyrite.

EQUIPMENT AND SURVEY METHOD

The Scintrex MP-3 proton magnetometer used for the survey is a sophisticated, high resolution microprocessor based instrument. By varying the sensor configuration the same console can be used to measure both total field and vertical gradient with a resolution of 0.1 nT.

Two sensors connected to the console, are mounted on vertical staff. Measurements of the total field are taken from the lower sensor.

When the sensors are simultaneously energized the difference in the total magnetic field between the upper and lower sensor divided by the sensor separation of one metre yields the vertical magnetic gradient in gammas per metre.

Magnetic base stations were established along the base line which coincides with the Township line, at 100 metre intervals. Thereafter diurnal variations of the total field measurements were corrrected by regular readings of the appropriate base station.

MAGNETOMETER SURVEY RESULTS AND INTERPRETATION

The total field and vertical gradient magnetic measurements are plotted on the accompanying maps (Figures 1 and 2). On Figure 1 the total field data is contoured at 100 gamma intervals and on Figure 2 the vertical gradient values are profiled.

The isomagnetics generally trend in an easterly direction coinciding with the regional fabric and most of the relief, of about 700 gammas, is located in the south-central sector of the property.

Based on regional evidence, the major Porcupine - Destor fault is interpreted to approximately coincide with the 59000 gamma contour. An area of low magnetic relief north of the fault, is representative of fine grained laminated and masssive sediments.

Highly altered rocks, equivalent to the Tisdale Group of volcanics, are known to be present south of the fault. The contrasting total field and vertical gradient measurements in the south-central sector of the property are indicative of differing rock types confirmed by overburden drilling.

The positive vertical gradient measurements are interpreted to represent most accurately the outline of a probable mafic altered rock. Based on tenuous evidence the intervening magnetic low area, commencing about 100 metres north of the base line - Township Line may host an easterly trending fault structure favourable to gold mineralization. The unassayed mineralization encountered in hole 86-2, on strike with this zone, is favourable to gold.

A better interpretation of the magnetic data can be made when the analyses of the overburden samples become available.

CONCLUSIONS AND RECOMMENDATIONS

The magnetic data indicates a complex of rock types in the south half of the G. K. Stringer property. More specifically the 59000 gamma contour corresponds to the expected position of the Porcupine - Destor fault.

A rock type represented by an area of positive magnetic gradient may be disrupted by an easterly trending fault zone approximately 100 metres north of the base line - Township Line.

Completion of the overburden drilling, now underway, and availability of the various analyses may substantiate the positioning of the above described structure. Recommendations concerning a diamond drill programme are dependent upon a joint study of the magnetic data and soil sampling results.

Respectfully submitted,

R. J. Bradshaw, P. Eng.,
Geologist.

July 21, 1986,
Timmins, Ontario.

OVERBURDEN DRILLING (R.C.) PROGRAMME
on the
G. K. STRINGER LTD. PROPERTY
German Township, Ontario

Timmins, Ontario,
September 23, 1986

R. J. Bradshaw, P. Eng.
Geologist.

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DRAWINGS

Figure

1 Plan of Overburden Drill Holes

2 Drill Hole Sections

3 Section showing Proposed Diamond Drilling

SHIELD GEOPHYSICS LIMITED
P.O. BOX 630 TIMMINS, ONTARIO P4N 7G2

MINING EXPLORATION CONSULTANTS AND CONTRACTORS
AIRPORT ROAD, TIMMINS, ONTARIO (705) 264-9405

September 4, 1986.

G. K Stringer Ltd.,
P. O. Box 998,
South Porcupine, Ontario, PON 1H0.
Attention: Mr. Ken Stringer

Dear Ken:

Re: Overburden Drilling Programme
German Township Property

I have just received assay results for the bedrock samples from the eight holes recently completed on your property.

Hole 86-2 encountered a talc-chlorite-carbonate rock containing more than 5 per cent pyrite at a depth of 155.4 metres (182 feet). The bedrock sample for a width of one metre (3.28 feet) assayed 7780 ppb gold (0.23 oz. gold per ton).

This constitutes a valid gold discovery and merits a diamond drill investigation.

On receipt of the assay results from the overburden samples a formal report will be prepared which will propose a detailed programme for this discovery.

R. J. Bradshaw, P. Eng.
Geologist.

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8X5
Phone: (61[illegible]9-2220
Telex: 05[illegible]

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 016-3231

PROJECT: NONE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
SH-01-07		<5
SH-02-03		7780
SH-03-03		20
SH-04-11		20
SH-05-[illegible]		65
SH-06-09		<5
SH-07-05		10
SH-08-09		<5

INTRODUCTION

The overburden drilling programme, herein described, was recommended in the writer's report, dated June 12, 1986, which provides a description of the regional, local, and economic geology of the area.

Also recommended was a magnetic vertical gradient survey. Results of this survey are described in a report dated July 21, 1986.

The overburden holes were drilled during the last two weeks of July, 1986. Selected samples of actual or quasi till material were processed by Overburden Exploration Services of Timmins. Heavy metal concentrates of the overburden samples were analyzed for gold by Bondar-Clegg in Ottawa.

PROPERTIES

Two properties in German Township of 4 and 8 claims were the subject of the writer's report, dated June 12, 1986. The overburden drilling was confined to the eight claim property, consisting of 320 acres, held by G. K. Stringer Ltd.

LOCATION AND ACCESS

The property, including the south halves of Lots 3 and 4, Concession I, is situated in southeast German Township, approximately 1.5 kilometres northeast of the Asarco gold mine. The claim group is 38 kilometres east of downtown Timmins, Ontario.

Highway 101 traverses the property from east to west and a series of dirt roads provide excellent access to the various sectors of the claim group.

PREVIOUS WORK

No significant work has been completed on the property;

however, as previously documented (June 12, 1986), Asarco drilled five reverse circulation holes along the south boundary of the property in 1982. Apparently positive results from samples in these holes largely account for the decision to proceed with the present programme.

OBJECT OF RECOVERY AND ANALYSES OF OVERBURDEN SAMPLES

It has been demonstrated that metal deposits that intersect the bedrock - overburden interface can be recogized and located by dispersal trains in the surficial deposits. These zones of anomalous metal values are generally found in glacial tills. The dispersal train may be recognized up to a mile away down ice.

A dispersal train representative of a gold deposit may contain high concentrations of gold and and associate minerals, including arsenopyrite, sphalerite, pyrite and chalcopyrite. A valid dispersal train generally contains 10 or more gold particles in the heavy metal concentrate of the sample. Delicate gold particles, showing little effect from transport, are representative of a nearby source within 100 metres. The greater the effect of transport which ultimately results in a rounded grain, the further away the source.

The overburden samples are recovered by various methods including hand and mechanized digging, augers and sophisticated drilling methods. In this case a dual tube reverse circulation rotary drill rig supplied by Bradley Bros. was utilized. Samples of coarse grained material ranging from.sand-gravel to till are sampled in quantities ranging from 5 to 7 kilograms. Thereafter the sample is screened, split and examined on a shaking table for gold particles (Table 1). Finally the heavy metal concentrate is assayed for gold and possibly associate metals.

Ideally anomalous gold values coincide with samples having greater than 10 gold grains. Most of the time, however, a few relatively coarse gold grains are found in samples with high assays. This is attributed to the so-called nugget effect whereby one or two relatively large and erratic gold particles having a random distant source account for the anomaly. Alternatively the visible gold may be located in the unexamined split of the sample or perhaps the gold occurs as micron sized particles associated with a sulphide mineral.

Of the five holes drilled by Asarco along the south boundary of the Stringer property, holes AQ-82-2 and AQ-82-3 returned anomalous gold values in the till adjacent to bedrock. Holes AQ-82-4 and 5 returned anomalous values slightly higher in the overburden section. Laboratory results of a gold grain count for these samples were not available. However, high arsenic values, particularly in holes AQ-82-3 and 4, associated with the gold values suggested the presence of a valid dispersal train. Because of the proximity of the values to bedrock it was interpreted that the source would be within 100 metres to the north.

Holes on the Stringer property were therefore established 75 metres to the north of the tier drilled by Asarco along the townhship boundary. Object of this set of holes was to either confirm the Asarco results or isolate the apparent dispersal train and gold source between the two tiers of holes.

TREATMENT OF SAMPLES

A total of 58 overburden and 8 bedrock samples were forwarded to Overburden Exploration Services in Timmins. Those samples (38) which displayed extraordinary heavy minerals, including sulphides, when tabled were processed by super panning to determine the number and character of the gold grains.

The 58 samples of heavy mineral concentrates and 8 unconcentrated rock samples were shipped to Bondar-Clegg in Ottawa for assaying. Fire assays were performed on the bedrock samples and neutron activation on the heavy mineral concentrates.

RESULTS FROM SUPERPANNING BY OES

Table 3 from OES displays the examination results for 38 samples, including two bedrock samples with high sulphide content. None of the samples contained a significant number of gold grains.

BEDROCK ASSAYS

Sample 02-03 assayed 7780 ppb gold (0.23 oz. gold per ton). This assay represents a sample about one metre deep starting at 55.4 metres in the hole.

The sample is logged as a talc-chlorite-carbonate rock with more than 5 per cent pyrite. The heavy metal concentrate, as described by OES, contains 85 to 95 per cent unoxidized pyrite, a trace of hematite and ilmenite. The remaining samples returned insignificant assays.

CONCENTRATE ASSAYS

Holes 86-1, 2 and 3 in the west sector of the property did not detect anomalous gold values in the concentrates of the overburden samples. The basal till sample from hole AQ-82-2 midway between and south of holes 86-2 and 86-3 contained 2130 ppb gold.

Four sample concentrates in hole 86-4 returned anomalous values in gold. Samples 2, 7, 8, and 9 returned assays of 3760, 946, 1750, and 1480 ppb gold respectively. Sample 2, from a depth of 45 metres, represents an upper, perhaps the Matheson till unit. Samples 7, 8, and 9 come from the basal unit, a clay till. All of these samples show better than 10 per cent pyrite in the concentrate and one grain of gold was observed in adjacent sample 04-10 which contained 580 ppb gold. The basal till sample in hole AQ-82-3, 75 metres south of 86-4, assayed 4500 ppb.

Only one of 14 samples in hole 86-5 is anomalous. The concentrate from sample 05-13 a clay till, one sample removed from the bedrock interface, assayed 7680 ppb. One comparitively large grain of gold and 15 per cent pyrite was observed in the concentrate.

There were no anomalous values detected in the samples of hole 86-6.

In hole 86-7 sample 3 returned 2270 ppb gold in a concentrate with 15 per cent pyrite and a trace of arsenopyrite and sphalerite. This sample comes from near the top of the basal unit, a clay till with cobbles. A sample from the same stratigraphic elevation, in hole AQ-82-5, southeast of hole 86-7, is strongly anomalous in gold, arsenic and nickel.

Sample 08-02, from an upper till unit substantially removed from the bedrock interface, assayed 1060 ppb gold.

CONCLUSIONS

Gold mineralization has been discovered in the southwest sector of the Stringer property as represented by the value of 7780 ppb (0.23 oz. gold per ton) in the bedrock sample of hole 86-2. Visible gold was not observed in the fine fraction of this pyritic talc-chlorite-carbonate rock thereby suggesting that the gold is intimately associated with the pyrite as micron sized particles. Diamond drilling will be required to determine the size, shape and attitude of the mineralized zone.

Anomalous gold values in the concentrates of the overburden samples apparently are not asssociated with criteria that is normally characteristic of a dispersal train. Specifically a significant number of gold grains were not observed. This aberration may be accounted for by the distribution of the gold primarily as micron sized particles in pyrite or other sulphides. Additional analytical work may be undertaken on the samples to possibly confirm the association.

The lack of gold values in the samples of holes 86-1, 2 and 3 suggest that the gold mineralizated zone exists primarily south of these holes. Gold values in the basal till samples of holes 86-4 and 5 may represent a dispersal train and suggest a source immediately to the north.

Anomalous values in the upper till (Matheson) were intersected in holes 86-4, 86-7, and 86-8. The significance of these values is uncertain because of their substantial distance from bedrock and therefore, uncertain transportation distance.

Based on the evidence at this stage it is highly speculative to infer a possible trend or strike of the gold mineralization detected in hole 86-2. Nevertheless the magnetic vertical gradient map suggests a formational trend of about Az. 075 degrees. If it is assumed that the lack of values in hole 86-3 is caused by a lack of relevant sampling medium because a bedrock high exists in this area, then the zone may be inferred to strike at Az. 075 degrees from hole 86-2 easterly between the outlines of high gradient. Holes 86-4 and 5 which encountered anomalous basal till are located on the north edge of an area of positive vertical gradient.

RECOMMENDATIONS

A diamond drill programme is recommended. Initially it is proposed that two holes be drilled from south to north, inclined at 65 degrees, on Line 3+00 East. If mineralization is encountered and the overburden is difficult to penetrate, the deeper hole would be wedged.

Depending upon the dip of the mineralization and the ease of penetrating the overburden, additional holes may be drilled from north to south. A minimum of 3000 feet (914 metres) is recommended to investigate the occurrence in the bottom of hole 86-2. Because of the exceptional depth of overburden, this programme, including assaying and supervision, may cost up to $40. per foot. An amount of $120,000. should therefore, be allocated.

Should results that merit follow-up drilling be forthcoming, substantial additional expenditures will be required to provide an evaluation of the gold mineralization. The nature and scope of the programme would be based on the initial drilling.

REGISTERED PROFESSIONAL ENGINEER
R. J. BRADSHAW
PROVINCE OF ONTARIO

Shield Geophysics Limited

R. J. Bradshaw, P. Eng.
Geologist.

Timmins, Ontario,
September 23, 1986.

OVERBURDEN DRILLING MANAGEMENT LIMITED

SAMPLE PROCESSING FLOW SHEET TABLE 1

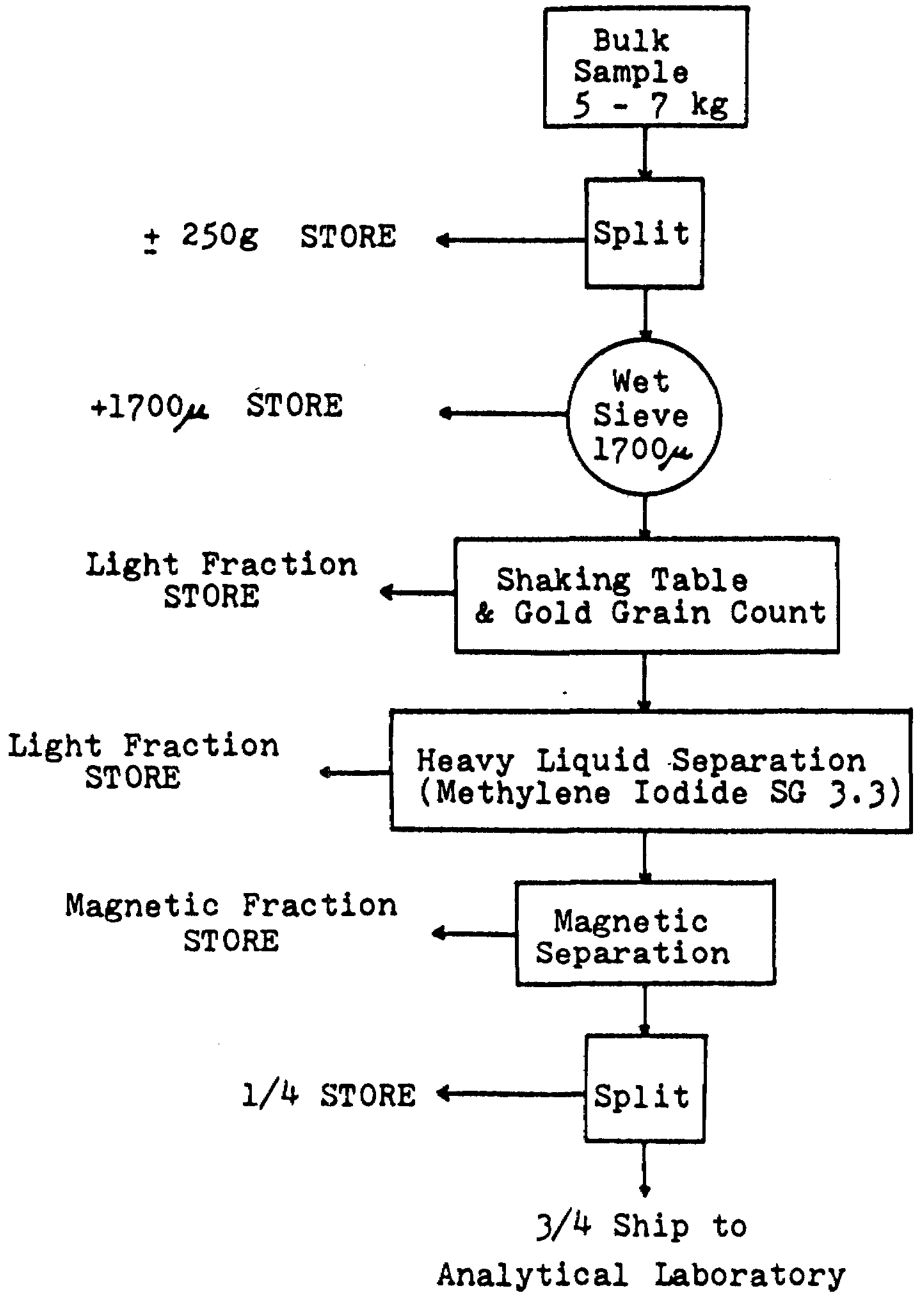


TABLE 2

OVERBURDEN EXPLORATION SERVICES LTD.
REPORT DATE: August 20, 1986

CLIENT: Shield Geophysics Ltd.
PG.1 of 2

	Kg.(wet)			Grams (dry)				
Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
01-01	7	.12	6.88	12.41	1.26	11.15	8.67	2.48
01-02	5.89	.12	5.77	23.33	4.96	18.37	15.02	3.35
01-03	5.95	.15	5.80	10.30	2.10	8.20	6.17	2.03
01-04	3.18	.10	3.08	1.83	.11	1.72	.57	1.15
01-05	4.60	.12	4.48	6.25	1.02	5.23	3.42	1.81
01-06	6.48	0	6.48	10.36	1.78	8.58	5.66	2.92
01-07 BDR	3.16	2.94	.22					
02-01	5.76	.90	4.86	21.10	2.70	18.40	11.74	6.66
02-02	4.66	0	4.66	8.70	1.83	6.87	4.66	2.21
02-03 BDR	2.11	.70	1.41					
03-01	5.22	0	5.22	26.78	3.99	22.79	12.03	10.76
03-02	3.90	0	3.90	17.35	3.51	13.84	8.32	5.52
03-03 BDR	1.20	1.04	.16					
04-01	5.02	.20	4.82	31.58	5.46	26.12	19.84	6.28
04-02	4.43	.35	4.08	18.35	5.96	12.39	6.93	5.46
04-03	3.56	0	3.56	17	5.72	11.28	6.80	4.48
04-04	6.19	.24	5.95	27.19	7.33	19.86	9.31	10.55
04-05	3.23	.02	3.21	6.47	1.39	5.08	1.95	3.13
04-06	5.16	.05	5.11	11.02	2.70	8.32	4.16	4.16
04-07	4.16	.07	4.09	9.30	2.29	7.01	4.47	2.54
04-08	4.56	.05	4.51	18.74	4.31	14.43	6.98	7.45
04-09	2.30	.05	2.25	18.76	6.56	12.20	7.10	5.10
04-10	4.14	.11	4.03	48.60	34.70	13.90	5.54	8.36
04-11 BDR	4.13	.43	3.70					
05-01	5.16	.21	4.95	27.99	4.40	23.59	9.28	14.31
05-02	3.85	.10	3.75	18.77	3.03	15.74	7.92	7.82
05-03	4.06	.24	3.82	6.79	2.36	4.43	2.46	1.97
05-04	4.40	.11	4.29	17.55	5.66	11.89	7.40	4.49
05-05	4.38	.06	4.32	11.28	3.31	7.97	4.88	3.09
05-06	4.88	.14	4.74	13.55	4.15	9.40	5.42	3.98
05-07	1.85	.06	1.79	5.65	1.25	4.40	2.27	2.13
05-08	2.35	.06	2.29	8.48	1.57	6.91	2.94	3.97
05-09	7.75	.31	7.44	18.54	4.74	13.80	7.55	6.25
05-10	7.38	.09	7.29	17.82	4.03	13.79	9.06	4.73
05-11	5.76	.03	5.73	17.81	4.16	13.65	7.88	5.77
05-12	6.23	.13	6.10	12.90	3.81	9.09	6	3.09
05-13	5.26	.09	5.17	21.89	5.39	16.50	9.83	6.67
05-14	2.27	.05	2.22	8.68	2.09	6.59	3.30	3.29
05-15 BDR	6.14	0	6.14					
06-01	7.51	.12	7.39	45.09	6.39	38.70	20.90	17.80
06-02	6.74	.16	6.58	29.08	4.87	24.21	13.24	10.97
06-03	5.58	.05	5.53	43.97	6.50	37.47	24.92	12.55

Kg.(wet)				Grams (dry)				
Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Heav.	M.I.Lites
06-04	7.69	.08	7.61	35.56	6.76	28.80	15.46	13.34
06-05	7.18	.02	7.16	18.63	1.99	16.64	8.38	8.26
06-06	6.88	.08	6.80	52.55	10.54	42.01	23.65	18.36
06-07	5.99	.09	5.90	22.47	4.78	17.69	9.87	7.82
06-08	5.66	0	5.66	29.29	3.71	25.58	14.25	11.33
06-09 BDR	2.04	0	2.04					
07-01	6	.20	5.80	32.93	6.97	25.96	16.84	9.12
07-02	4.11	.01	4.10	12.51	0	12.51	7.14	5.37
07-03	7.32	.15	7.17	33.83	11.99	21.84	14.40	7.44
07-04	6.69	.29	6.40	17.66	6.30	11.36	4.64	6.72
07-05	5.96	.15	5.81	17.86	5.98	11.88	7.08	4.80
07-06	4.92	.12	4.80	16.68	2.28	14.40	10.19	4.21
07-07	5.66	.08	5.58	14.42	4.80	9.62	6.81	2.81
07-08	6.31	.18	6.13	23.96	5.30	18.66	7.63	11.03
07-09 BDR	3.05	0	3.05					
08-01	6.28	.15	6.13	49.39	8.70	40.69	24.74	15.95
08-02	5.75	.17	5.58	34.22	9.13	25.09	19.08	6.01
08-03	5.08	.50	4.58	15.90	2.30	13.60	6.86	6.74
08-04	5.40	.43	4.97	9.04	5.44	3.60	1.83	1.77
08-05	5.11	.23	4.88	24.45	7.74	16.71	10.01	6.70
08-06	5.33	.10	5.23	10.80	3.02	7.78	4.42	3.36
08-07	5.40	.15	5.25	6.68	1.85	4.83	1.58	3.25
08-08	1.86	.03	1.83	10.62	2.86	7.76	3.88	3.88
08-09 BDR	4.64	0	4.64					

OVERBURDEN EXPLORATION SERVICES LTD.

GOLD GRAIN/MINERALOGICAL REPORT FOR SUPERPANNER CONCENTRATES - TABLE 3

Company: SHIELD GEOPHYSICS LTD.
Attn. : R.J. Bradshaw
Sample Series: SH

Date: August 11, 1986

Samp.No.	Gold Grains	Sulphides	Other
01-02		tr. py.	25% hem., unoxid., 10% ilmen., average grain size approx. 100 microns.
02-02		no visible sulphides	30% hem., unoxid. 10% ilmen.,
02-03 mesh (+80) brx.		85% py., unoxid., predominantly subhed. and anhed.	tr. hem., unoxid., tr. ilmen., average grain size approx. 200-400 microns
02-03 mesh (-80) brx.		95% py., predominantly anhed. and subhed. "shards", (i.e. broken fragments of larger grains).	tr. hem., tr. ilmen., average grain size 50-100 microns.
03-02		10% py., unoxid., predominantly anhed. with minor subhed.	25% hem., unoxid., 10% ilmen.
04-02		5% py., unoxid., predominantly anhed. and subhed., a few large grains of 0.5 m.m	15% hem., unoxid., 15% ilmen.
04-03		10% py., unoxid., predominantly anhed. and subhed.	25% hem., unoxid., 10% ilmen.
04-04		15% py., unoxid., predomonantly anhed. and subhed.	25% hem., unoxid., 10% ilmen.
04-05		15% py., unoxid., predominantly anhed. and subhed.	30% hem., minor oxid., 10% ilmen.

OVERBURDEN EXPLORATION SERVICES LTD.

GOLD GRAIN/MINERALOGICAL REPORT

Company: R. J. Bradshaw

Date: August, 1986

Samp.No.	Gold Grains	Sulphides	Other
04-07		10% py., unoxid. predominantly subhed., tr. marcas. framboids, tr. arsenopy., tr. chalcopy.,	20% hem., unoxid., 10% ilmen.
04-08		15% py., unoxid., predominantly anhed. and subhed. tr. galena.	20% hem., unoxid., 10% ilmen.
04-09	1 gold grain, irregular flake, pitted surface, 320 x 200 microns approx. thickness 60 microns (wide end).	15% py., unoxid., predominantly anhed. and subhed., a few larger subhed. gr. >0.5 m.m.	15% hem., unoxid., 5% ilmen.
04-10		15% py., unoxid., predominantly subhed. tr. galena.	10% hem., minor oxid., 10% ilmen.
04-11		70% py., unoxid., anhed. to euh., minor wine-stained euh.	tr. hem., tr. ilmen.
05-01		15% py., unoxid., predominantly anhed. and subhed. tr. marcas. framboids.	10% hem., minor oxid., 10% ilmen.
05-02		10% py., unoxid., predominantly anhed., tr. marcas. framboids.	10% hem., unoxid., 5% ilmen., a few gr. of 0.5 m.m.
05-06		20% py., unoxid., predomonantly anhed. and subhed.	20% hem., unoxid., 5% ilmen.

OVERBURDEN EXPLORATION SERVICES LTD.

GOLD GRAIN/MINERALOGICAL REPORT

Company: R. J. Bradshaw Date: August, 1986

Samp.No.	Gold Grains	Sulphides	Other
05-10		15% py., unoxid., predominantly anhed. and subhed.	20% hem., unoxid., 5% ilmen.
05-11		15% py., unoxid., predomonantly anhed. and subhed.	20% hem., unoxid., 5% ilmen.
05-12		10% py., unoxid., predominantly anhed. and subhed., marcas. framboids, tr. galena.	25% hem., unoxid., 5% ilmen.
05-13	1 gold grain, simple flake, pitted surface, 700 x 450 microns approx. thickness 80 microns.	15% py., unoxid., predominantly anhed. and subhed., a few large subhed. gr. < 0.5 m.m.	30% hem., unoxid., 10% ilmen.
05-14		15% py., unoxid., predominantly anhed. and subhed., a few large subhed. gr. < 0.5 m.m.	30% hem., unoxid., 5% ilmen.
06-02		15% py., unoxid., predominantly anhed. and subhed., tr. marcas. framboids, tr. galena.	25% hem., unoxid., 10% ilmen., average grain size approx. 100 microns .
06-03		5% py., unoxid., predominantly anhed. and subhed. tr. marcas. framboids.	10% hem., unoxid., 20% ilmen.

OVERBURDEN EXPLORATION SERVICES LTD.

GOLD GRAIN/MINERALOGICAL REPORT

Company: R. J. Bradshaw

Date: August, 1986

Samp.No.	Gold Grains	Sulphides	Other
06-04		15% py., unoxid., predominantly anhed. and subhed., a few large subhed. gr. > 0.5 m.m. tr. sphaler.	10% hem., unoxid., 20% ilmen.
06-05		45% py., unoxid., predominantly anhed. and subhed.	10% hem., unoxid., 10% ilmen.
06-06		15% py., unoxid., predominantly anhed., tr. marcas. framboids.	40% hem., unoxid. 10% ilmen.
06-07		15% py., unoxid. predominantly anhed., tr. marcas. framboids.	30% hem., unoxid. 10% ilmen.
07-01		15% py., unoxid. predominantly anhed., tr. arsenopy., tr. galena.	25% hem., unoxid., 15% ilmen.
07-03		15% py., unoxid., predominantly anhed. and subhed. Many large subhed. gr. in the 0.5-1 m.m. size range tr. marcas. framboids, tr. arsenopy., tr. sphaler.	10% hem., minor oxid., 25% ilmen., some gr. as large as 0.5 m.m.
07-04		10% py., unoxid., anhed., subhed. and euh.	40% hem., unoxid., 15% ilmen.
07-05		20% py., unoxid., predominantly anhed. and subhed.,	35% hem, unoxid., 10% ilmen.

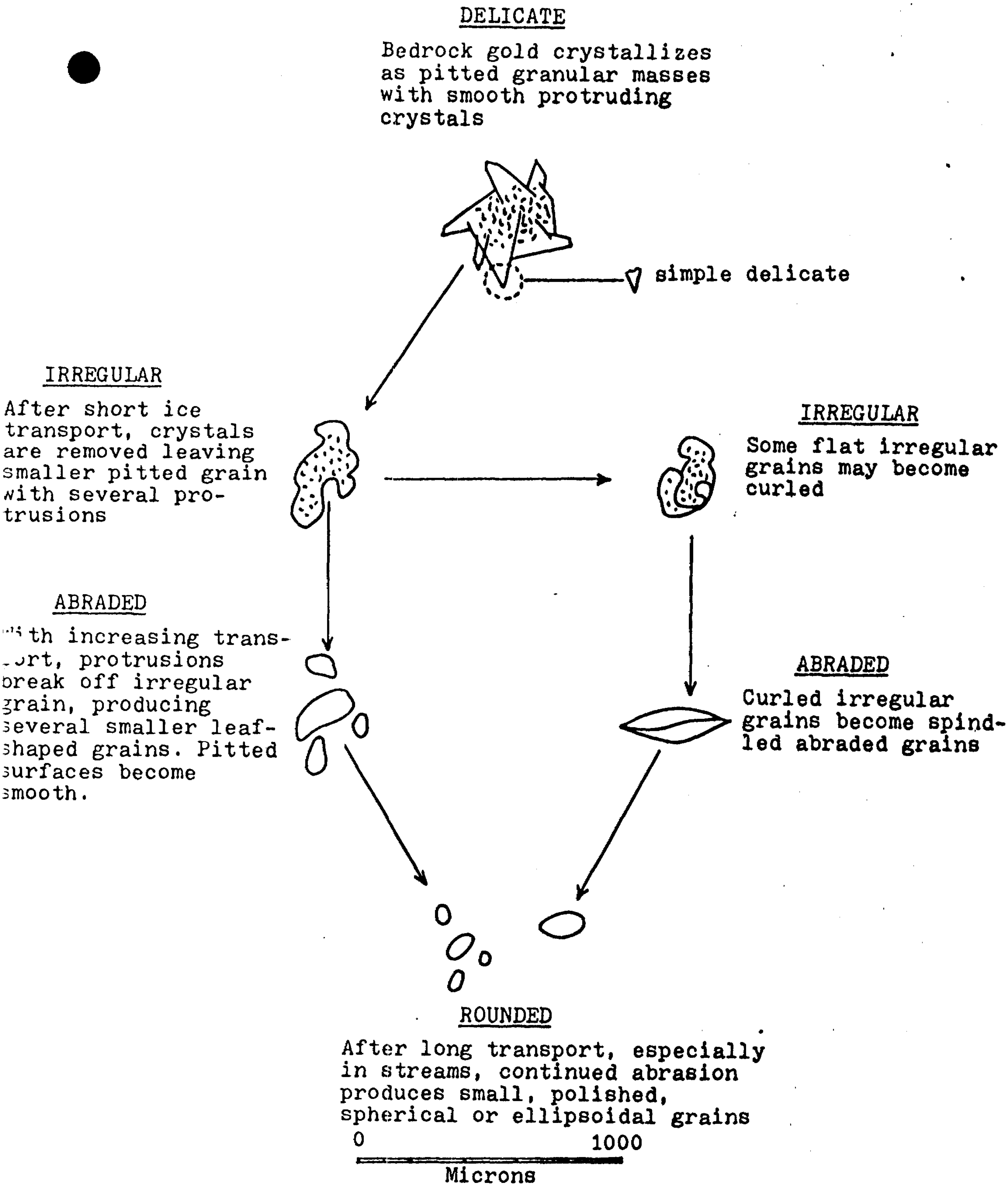
OVERBURDEN EXPLORATION SERVICES LTD.

GOLD GRAIN/MINERALOGICAL REPORT

Company: R. J. Bradshaw

Date: August, 1986

Samp.No.	Gold Grains	Sulphides	Other
08-01		10% py., unoxid., predominantly anhed. and subhed. tr. marcas. framboids. tr. arsenopy.	20% hem., unoxid., 10% ilmen.
08-02		10% py., unoxid., predominantly anhed. and subhed., tr. marcas. framboids, tr. galena.	20% hem., unoxid., 10% ilmen.
08-03		15% py., unoxid., predominantly anhed. and subhed. tr. marcas. framboids.	15% hem., unoxid., 10% ilmen.
08-04		15% py., unoxid., predominantly anhed. and subhed.	15% hem., unoxid., 10% ilmen.
08-06		10% py., unoxid., predominantly anhed., minor wine stained euh. tr. marcas. framboids.	20% hem, unoxid., 20% ilmen.
08-07		35% py., unoxid., predominantly anhed., tr. marcas. framboids	25% hem., unoxid., 10% ilmen.



DELICATE

Bedrock gold crystallizes as pitted granular masses with smooth protruding crystals

IRREGULAR

After short ice transport, crystals are removed leaving smaller pitted grain with several protrusions

IRREGULAR

Some flat irregular grains may become curled

ABRADED

With increasing transport, protrusions break off irregular grain, producing several smaller leaf-shaped grains. Pitted surfaces become smooth.

ABRADED

Curled irregular grains become spindled abraded grains

ROUNDED

After long transport, especially in streams, continued abrasion produces small, polished, spherical or ellipsoidal grains

Effects of Glacial Transport on Gold Particle Size and Shape
(Developed by OVERBURDEN DRILLING MANAGEMENT LTD.)

TABLE 4

Bond[illegible] & Company Ltd.
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Telex: 053-[illegible]

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 016-3231

PROJECT: NONE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
SH-01-07		<5
SH-02-03		7780
SH-03-03		20
SH-04-11		20
SH-05-15		65
SH-06-09		<5
SH-07-09		10
SH-08-09		<5

TABLE 5

[illegible] & Company Ltd.
5420 Canotek Rd.,
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Canada K1J 8X5
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Telex: 053

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Geochemical Lab Report

REPORT: 016-3224 (COMPLETE)

REFERENCE INFO:

CLIENT: SHIELD GEOPHYSICS LIMITED
PROJECT: NONE

SUBMITTED BY: J. RICHARD
DATE PRINTED: 18-SEP-86

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Sc	Scandium	58	0.5 PPM		Neutron Activation
2	Cr	Chromium	58	50 PPM		Neutron Activation
3	Fe	Iron	58	0.5 PCT		Neutron Activation
4	Co	Cobalt	58	10 PPM		Neutron Activation
5	Ni	Nickel	58	50 PPM		Neutron Activation
6	Zn	Zinc	58	200 PPM		Neutron Activation
7	As	Arsenic	58	1 PPM		Neutron Activation
8	Se	Selenium	58	10 PPM		Neutron Activation
9	Rb	Rubidium	58	10 PPM		Neutron Activation
10	Mo	Molybdenum	58	2 PPM		Neutron Activation
11	Ag	Silver	58	5 PPM		Neutron Activation
12	Cd	Cadmium	58	10 PPM		Neutron Activation
13	Sb	Antimony	58	0.2 PPM		Neutron Activation
14	Cs	Cesium	58	1 PPM		Neutron Activation
15	Ba	Barium	58	100 PPM		Neutron Activation
16	La	Lanthanum	58	5 PPM		Neutron Activation
17	Eu	Europium	58	2 PPM		Neutron Activation
18	Tb	Terbium	58	1 PPM		Neutron Activation
19	Yb	Ytterbium	58	5 PPM		Neutron Activation
20	Hf	Hafnium	58	2 PPM		Neutron Activation
21	Ta	Tantalum	58	1 PPM		Neutron Activation
22	W	Tungsten	58	2 PPM		Neutron Activation
23	Ir	Iridium	58	100 PPB		Neutron Activation
24	Au	Gold	58	5 PPB		Neutron Activation
25	Th	Thorium	58	0.5 PPM		Neutron Activation
26	U	Uranium	58	0.5 PPM		Neutron Activation
27	WT	Test Weight	58	0.01 g		

TABLE 6

B[illegible] & Company Ltd.
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Geochemical Lab Report

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PROJECT: NONE

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Rb PPM	Mo PPM	Ag PPM
SH-01-01		103.0	1500	19.0	33	93	<200	<8	<13	<18	6	<8
SH-01-02		106.0	1800	21.0	35	<50	<200	9	<11	<16	3	<7
SH-01-03		109.0	2400	22.0	40	75	<200	<10	<15	<23	<6	<9
SH-01-04		111.0	2000	20.0	40	<130	<460	<28	<38	<51	<17	<25
SH-01-05		107.0	1800	21.0	35	57	<210	<12	<18	36	7	<12
SH-01-06		112.0	1600	23.0	71	96	<200	24	<15	28	<6	<9
SH-02-01		105.0	1600	20.0	36	74	<200	<7	<11	<16	<4	<7
SH-02-02		106.0	2300	22.0	33	<50	<200	<11	<18	<24	6	<10
SH-03-01		109.0	1700	24.0	71	86	<200	79	<13	20	3	<7
SH-03-02		104.0	2300	24.0	140	180	<200	145	<15	29	3	<8
SH-04-01		89.9	1300	19.0	38	74	<200	15	<10	14	<2	<6
SH-04-02		103.0	4000	26.0	180	270	<200	221	<15	<23	6	<9
SH-04-03		92.7	4100	25.0	540	1300	<200	1060	<15	<25	4	<9
SH-04-04		90.9	4900	27.0	460	1800	<200	418	<13	25	8	<8
SH-04-05		85.1	6850	29.0	140	190	810	267	<27	<42	<12	<16
SH-04-06		81.7	5830	26.0	150	210	370	251	<18	<26	<8	<11
SH-04-07		73.4	8750	19.0	130	230	610	179	<14	<21	<6	<9
SH-04-08		89.4	4600	25.0	280	360	290	485	<14	<22	<6	<9
SH-04-09		81.7	3600	25.0	1290	1500	<220	2700	<17	<33	8	<11
SH-04-10		52.3	3400	37.0	2090	1700	620	2930	41	<45	<10	<14
SH-05-01		95.9	1600	22.0	57	86	<200	41	<10	<15	28	<7
SH-05-02		100.0	2200	27.0	70	150	<200	71	<16	22	17	<9
SH-05-03		89.3	2300	24.0	1930	350	<430	324	<32	<62	<14	<20
SH-05-04		93.0	2800	25.0	110	100	<200	95	<13	<19	7	<8
SH-05-05		93.1	6420	27.0	130	140	<200	147	<18	<25	<7	<10
SH-05-06		90.9	5750	33.0	270	820	360	155	<17	<26	<7	<10
SH-05-07		91.8	7270	26.0	110	97	<230	131	<22	<31	<9	<14
SH-05-08		94.1	7700	28.0	190	420	<250	220	<20	<31	<9	<12
SH-05-09		88.9	10500	27.0	150	290	<200	264	<14	<20	<6	<8
SH-05-10		82.2	5850	30.0	170	240	<240	333	<17	<23	13	<8
SH-05-11		94.4	6460	26.0	150	230	<240	198	<15	<22	<6	<9
SH-05-12		89.3	7230	26.0	130	210	<200	226	<16	<24	4	<9
SH-05-13		93.7	5580	25.0	120	190	<200	237	<14	<19	<6	<7
SH-05-14		88.7	5500	27.0	270	210	<230	408	<19	<31	<8	<12
SH-06-01		103.0	1700	22.0	63	76	<200	60	<11	<15	5	<6
SH-06-02		105.0	1600	22.0	63	56	<200	58	<12	20	2	<7
SH-06-03		88.3	1200	18.0	56	54	<200	60	<10	17	<2	<5
SH-06-04		84.4	1500	19.0	97	180	<200	159	<11	<16	<5	<6
SH-06-05		78.3	1900	25.0	99	190	<200	255	<14	<19	30	<8
SH-06-06		107.0	3200	27.0	380	430	<200	535	<12	<18	5	<7

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Geochemical Lab Report

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PROJECT: NONE PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Sb PPM	Cs PPM	Ba PPM	La PPM	Eu PPM	Tb PPM	Yb PPM	Hf PPM	Ta PPM	W PPM
SH-01-01		<26	1.3	<1	<130	380	5	9	42	237	11	<27
SH-01-02		<22	0.4	<1	<110	562	8	10	42	300	14	<23
SH-01-03		<30	<0.3	<1	<150	614	8	10	49	337	12	<31
SH-01-04		<88	<0.8	<4	<380	350	<9	8	20	170	7	<89
SH-01-05		<37	<0.4	<2	<190	564	6	10	46	292	11	<40
SH-01-06		<30	1.3	<1	<150	567	6	10	46	275	13	<32
SH-02-01		<21	0.3	<1	<110	470	8	9	40	238	11	<23
SH-02-02		<33	1.8	<2	<160	559	4	9	42	231	21	<34
SH-03-01		<24	0.7	<1	<120	576	8	10	48	295	14	34
SH-03-02		<27	1.3	<1	<140	553	6	9	43	266	12	<28
SH-04-01		<18	0.3	<1	<100	514	9	9	39	288	12	<19
SH-04-02		<30	1.6	<1	<150	524	6	9	46	291	14	<30
SH-04-03		<29	2.3	<1	<140	430	6	8	43	250	9	<30
SH-04-04		<26	2.8	<1	<130	390	6	8	34	160	10	<27
SH-04-05		58	3.5	<3	<260	872	8	10	46	379	14	63
SH-04-06		40	3.3	<2	<170	598	5	9	40	344	12	<37
SH-04-07		<28	2.4	<1	<140	370	4	6	28	200	7	<30
SH-04-08		<28	3.8	<1	<140	440	3	8	35	253	10	53
SH-04-09		<34	5.6	<2	270	320	7	8	37	170	8	<35
SH-04-10		<44	3.9	<2	<220	150	<3	6	22	46	7	936
SH-05-01		<23	0.9	<1	<110	150	7	7	34	50	7	<25
SH-05-02		<29	1.4	<1	<140	570	7	10	37	246	15	<31
SH-05-03		<68	2.4	<3	<360	1020	<7	13	43	306	15	8520
SH-05-04		<26	1.3	<1	<120	440	5	8	37	202	12	<28
SH-05-05		<33	3.1	2	<160	530	6	9	37	297	14	<36
SH-05-06		<34	2.8	<2	<160	470	8	8	39	271	12	<36
SH-05-07		<43	1.9	<2	<200	420	<4	8	39	246	15	<46
SH-05-08		<42	3.5	<2	<200	450	7	8	31	273	14	<43
SH-05-09		<27	3.7	<1	<130	519	3	8	41	305	12	54
SH-05-10		<30	2.5	<1	<150	851	6	11	44	531	17	87
SH-05-11		<30	3.2	<1	<140	800	6	10	40	335	10	43
SH-05-12		<31	3.4	<1	<160	651	6	9	43	382	13	<34
SH-05-13		<26	3.1	<1	<130	490	7	8	39	305	12	<28
SH-05-14		<41	3.8	<2	<200	514	5	8	36	278	12	150
SH-06-01		<20	0.8	<1	<100	521	8	9	43	258	13	40
SH-06-02		<23	0.7	<1	<110	470	5	9	44	243	13	50
SH-06-03		<18	0.7	<1	<100	440	7	8	34	212	11	<19
SH-06-04		<22	1.6	<1	<100	500	7	10	35	265	12	88
SH-06-05		<28	0.7	<1	<130	340	3	7	29	150	11	<30
SH-06-06		<24	3.8	1	<120	490	3	9	42	170	13	<26

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Ir PPB	Au PPB	Th PPM	U PPM	WT g
SH-01-01		<100	48	170.0	21.0	8.79
SH-01-02		<100	<14	268.0	26.0	15.23
SH-01-03		<100	<19	296.0	28.0	6.18
SH-01-04		<230	<51	145.0	14.0	0.55
SH-01-05		<110	<24	265.0	25.0	3.48
SH-01-06		<100	<19	279.0	27.0	5.72
SH-02-01		<100	<14	210.0	21.0	11.72
SH-02-02		<100	<20	289.0	23.0	4.61
SH-03-01		<100	140	286.0	26.0	11.99
SH-03-02		<100	66	276.0	25.0	8.44
SH-04-01		<100	28	229.0	22.0	19.88
SH-04-02		<100	3760	272.0	23.0	6.69
SH-04-03		<100	360	215.0	19.0	6.73
SH-04-04		<100	240	214.0	15.0	9.26
SH-04-05		<150	77	469.0	34.0	1.94
SH-04-06		<100	44	324.0	22.0	4.21
SH-04-07		<100	946	194.0	14.0	4.59
SH-04-08		<100	1750	224.0	19.0	6.92
SH-04-09		<100	1480	155.0	13.0	7.10
SH-04-10		<130	580	102.0	7.5	5.57
SH-05-01		<100	26	42.0	7.5	9.10
SH-05-02		<100	<18	338.0	35.0	7.84
SH-05-03		<210	160	793.0	37.0	2.46
SH-05-04		<100	26	232.0	19.0	7.45
SH-05-05		<100	601	280.0	21.0	4.84
SH-05-06		<100	66	244.0	20.0	5.41
SH-05-07		<120	638	219.0	17.0	2.21
SH-05-08		<120	72	224.0	22.0	2.87
SH-05-09		<100	531	270.0	22.0	7.58
SH-05-10		<100	665	455.0	36.0	9.08
SH-05-11		<100	210	298.0	25.0	7.82
SH-05-12		<100	140	343.0	26.0	5.40
SH-05-13		<100	7680	236.0	21.0	9.81
SH-05-14		<110	774	246.0	22.0	3.26
SH-06-01		<100	110	250.0	24.0	20.75
SH-06-02		<100	270	255.0	25.0	13.11
SH-06-03		<100	44	204.0	20.0	24.89
SH-06-04		<100	94	238.0	24.0	15.35
SH-06-05		<100	<18	178.0	18.0	8.32
SH-06-06		<100	100	289.0	19.0	23.53

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Geochemical Lab Report

REPORT: 016-3224

PROJECT: NONE PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Rb PPM	Mo PPM	Ag PPM
SH-06-07		109.0	2200	25.0	160	390	<200	154	<14	<20	21	<8
SH-06-08		103.0	1400	21.0	93	93	<200	96	<12	<17	<5	<7
SH-07-01		110.0	1900	24.0	76	140	<200	89	<13	<17	<5	<7
SH-07-02		102.0	1300	20.0	70	75	<200	27	<14	<20	9	<9
SH-07-03		90.1	1600	27.0	2640	3900	<240	4110	<17	<36	6	<11
SH-07-04		91.3	4300	28.0	1230	1700	<260	2050	<19	<38	13	<13
SH-07-05		95.1	4800	25.0	280	340	390	457	<14	<23	<6	<8
SH-07-06		64.8	9650	44.0	160	500	<200	239	<11	<19	30	<7
SH-07-07		95.7	8960	30.0	310	340	<200	639	<15	<23	<7	<9
SH-07-08		89.4	8350	30.0	400	390	<200	1120	<14	<24	<6	<9
SH-08-01		105.0	1830	22.0	65	91	<200	66	<12	<15	<5	<6
SH-08-02		110.0	2000	24.0	85	130	<200	83	<14	<17	<6	<7
SH-08-03		109.0	1900	23.0	85	90	<200	88	<15	<23	4	<9
SH-08-04		82.2	5050	24.0	250	860	<310	366	<25	<42	<12	<15
SH-08-05		114.0	2700	27.0	110	98	<200	128	<16	24	<6	<8
SH-08-06		110.0	2200	25.0	100	130	<210	95	<18	<27	10	<11
SH-08-07		97.7	2700	26.0	270	450	<340	154	<29	<46	<14	<17
SH-08-08		89.0	1800	24.0	940	1800	<370	1500	<20	38	7	<13

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PROJECT: NONE PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Sb PPM	Cs PPM	Ba PPM	La PPM	Eu PPM	Tb PPM	Yb PPM	Hf PPM	Ta PPM	W PPM
SH-06-07		<28	1.1	<1	<140	490	9	9	39	170	11	220
SH-06-08		<23	0.8	<1	<110	450	11	9	43	265	12	<27
SH-07-01		<24	0.3	<1	<110	574	4	10	41	249	13	85
SH-07-02		<30	0.5	<1	<140	556	10	10	40	312	13	120
SH-07-03		47	9.0	<2	<170	420	7	7	39	203	12	63
SH-07-04		<43	9.0	<2	<210	440	5	7	31	180	10	253
SH-07-05		<29	2.7	<1	<140	440	5	7	38	229	9	46
SH-07-06		<25	2.4	<1	<120	290	5	4	25	180	9	67
SH-07-07		<32	3.9	<1	<150	480	5	8	39	279	14	<36
SH-07-08		<31	3.7	<1	<150	410	4	7	37	251	9	140
SH-08-01		<22	0.4	<1	<100	590	5	10	43	259	16	<24
SH-08-02		<25	0.7	<1	<120	746	5	11	45	305	17	69
SH-08-03		<32	0.8	<1	<150	642	4	11	49	298	13	309
SH-08-04		<55	1.6	<3	380	652	<6	9	40	287	12	68
SH-08-05		<29	1.1	<1	<130	571	<3	9	41	201	19	<33
SH-08-06		<38	1.1	<2	<180	613	10	13	54	270	16	96
SH-08-07		<64	2.7	<3	<290	650	12	13	42	470	11	88
SH-08-08		<45	3.5	<2	<210	410	6	8	37	180	12	<49

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 016-3224

PROJECT: NONE PAGE 2C

SAMPLE NUMBER	ELEMENT UNITS	Ir PPB	Au PPB	Th PPM	U PPM	WT g
SH-06-07		<100	<18	244.0	20.0	9.80
SH-06-08		<100	<15	194.0	22.0	14.11
SH-07-01		<100	28	294.0	24.0	16.84
SH-07-02		<100	<19	277.0	28.0	7.08
SH-07-03		<100	2270	210.0	20.0	14.35
SH-07-04		<120	470	226.0	15.0	4.51
SH-07-05		<100	370	216.0	16.0	6.98
SH-07-06		<100	140	146.0	12.0	10.08
SH-07-07		<100	480	264.0	19.0	6.78
SH-07-08		<100	400	218.0	19.0	7.60
SH-08-01		<100	<14	298.0	26.0	24.63
SH-08-02		<100	1060	390.0	31.0	18.88
SH-08-03		<100	32	324.0	30.0	6.77
SH-08-04		<150	<37	397.0	33.0	1.85
SH-08-05		<100	260	319.0	22.0	9.98
SH-08-06		<110	41	336.0	29.0	4.56
SH-08-07		<170	<40	428.0	48.0	1.64
SH-08-08		<120	140	186.0	19.0	3.95

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 15 1986

SHIFT HOURS

____ TO ____

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86 - 1 LOCATION L 1+00E. 0+75N

GEOLOGIST M BRADSHAW DRILLER M WHISELL BIT NO CB68220 BIT FOOTAGE :

MOVE TO HOLE Move drill from shop to drill site.

DRILL 11:10 - 12:32 1:06 - 3:15

MECHANICAL DOWN TIME 12:32 - 1 06 Pull rods and clean bit

DRILLING PROBLEMS Fine silt slow drilling

OTHER

MOVE TO NEXT HOLE 3:15 - 4 00

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	* *			Organics
1				grey silt
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
				grey clay
13				
14				grey silt with fine sand, a number of large mica flakes @ 23m
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 15 1986

SH[illegible]T HOURS

____ TO ____

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-1 LOCATION ____

GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____

MOVE TO HOLE ____

DRILL ____

MECHANICAL DOWN TIME ____

DRILLING PROBLEMS ____

OTHER ____

MOVE TO NEXT HOLE ____

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
21				fine grey silt						
22										
3										
4				fine sand with accassional pebbles						
5										
6										
7										
8			1	Till? grey silt with pebbles and gravel	48					
9										
30			2	grey silt with gravel 80% mafic pebbles	<14					
11				grey silt with minor sand						
12										
13										
14										
15										
16			3	gravel with sand.	<19					
17			4	gravel with sand	<51					
18										
19				silt with a few pebbles						
40										

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 15 1986

SHIFT HOURS

_______ TO _______

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-1 LOCATION _______

GEOLOGIST _______ DRILLER _______ BIT NO. _______ BIT FOOTAGE : _______

MOVE TO HOLE _______

DRILL _______

MECHANICAL DOWN TIME _______

DRILLING PROBLEMS _______

OTHER _______

MOVE TO NEXT HOLE _______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
41				silt with a few pebbles						
2										
3			5	Till pebbles with sand	<24					
4										
5				grey silt with minor sand						
6										
7										
8			6	fine to coarse sand	<19.					
49	▨		7	Bedrock: light green schistose felsic rock with white carbonate	Boulder? <5					
10				Foot of hole 49.7 m						
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 15 1986

SHIFT HOURS

_____ TO _____

TOTAL HOURS

_____

CONTRACT HOURS

_____

HOLE NO 86-2 LOCATION L3+00E 0+75N

GEOLOGIST M. BRADSHAW DRILLER N. WHISSEL BIT NO. SR68220 BIT FOOTAGE :

MOVE TO HOLE

DRILL 4:05 - 4:45 July 16/86 8:17 - 9:57 10:30 - 12:32

MECHANICAL DOWN TIME 9:57 - 10:30 12:32 - 1:45

DRILLING PROBLEMS Pull rods clean bit, Change bit @ 12:32

OTHER Drill 1:45 - 2:51

MOVE TO NEXT HOLE

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
	* *			Organics						
1				brown sand and clay						
2				brown silt with occ pebbles and brown clay						
3										
4										
5										
6										
7										
8										
9										
10										
11										
12				grey clay						
13				grey clay and silt						
14				grey silt						
15										
16										
17										
18										
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

________ TO ________

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-2 LOCATION ________

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE ________

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb
21				grey silt	
2					
3					
4					
25					
6				brown sand with a few pebbles	
7					
8					
9			1	Till - pebbles and cobbles with sand	<14
30				Till	
11			2		<20
32					
13				grey silt with occ pebbles	
14					
15					
16					
17					
18					
19					
20					

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-2 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
41				grey silt with occ pebbles						
2										
3										
4										
5										
6										
7										
48										
				pebbles and cobbles						
9				Mafic boulder						
50				Gravel with boulders - no matrix						
11										
12				Granite boulder						
13				Mafic boulder	New	bit	CB68224	@	.53.3m	
				grey clay with pebbles						
14										
55				blue grey clay						
			2	Bedrock: green talc-chl rock						

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 16 1986

HOLE NO 86-3 LOCATION L5+00E 20's of 0+75N

GEOLOGIST M.BRADSHAW DRILLER M.WHISSEL BIT NO. CB68224 BIT FOOTAGE

S[illegible]T HOURS

____ TO ____

MOVE TO HOLE 2:51 - 4:00

DRILL 1:00 - 5:00 July 17/86 8:10 - 10:25

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

MOVE TO NEXT HOLE

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				Organics
				brownclay
1				little or no return
2				
3				
4				
5				
6				
7				
8				brown silt
9				
10				
11				
12				
13				
14				
15				brown clay
16				brown silt
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-3 LOCATION ________

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
				brown silt						
21										
2										
3				grey silt; local occ pebbles @ 31m						
4										
5										
6										
7										
8										
9										
30										
11										
12										
13										
14										
15										
16										
17										
18										
19										
40										

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 ___

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-3 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb						
				grey silt							
41											
2											
43											
4			1	Till sand matrix	140						
				Mafic boulder							
5				Boulder, cobbles and pebbles - Gravel							
				Granite boulder							
6			2	Pebbles and cobbles with sand matrix	66						
7	▨		3	Bedrock: white and dark green qtz-carb-chl rock minor py.	20						
8				Foot of hole @ 47.5m							
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 17 1986

S FT HOURS

____ TO ____

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-4 LOCATION L7+00 E 0+75 N

GEOLOGIST M. BRADSHAW DRILLER M. WHISSEL BIT NO. CB68223 BIT FOOTAGE:

MOVE TO HOLE 10:25 - 11:30

DRILL 11:30 - 4:33 / July 18 8:17 - 3:00 / July 21 2:20 - 3:00

MECHANICAL DOWN TIME Change bit @ 4:33 Rods stuck in hole @ 3:00

DRILLING PROBLEMS Put down 215' of NW casing 8:00 - 2:00 July 21/86

OTHER New bit CB68222 New sub July 18

MOVE TO NEXT HOLE

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
				Organics						
1				brown clay						
2				brown clay and silt						
3										
4										
5										
6										
7				brown clay						
8				grey brown silt with clay						
9										
10										
11				grey brown silt						
12										
13				brown clay						
14				grey brown silt with a few pebbles @ 16.5m						
15										
16										
17				grey silt						
18										
19										
20				clay						

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-4 LOCATION L7+00E 0+75N

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE: ________

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au ppb					
21				grey silt						
2										
3										
4										
5										
6										
7										
8				grey clay with numerous pebbles						
9				Clay Till - pebbles, cobbles, clay						
30					28					
11				clay with pebbles Grey clay						
12				clay with pebbles						
13										
14				silt with clay and pebbles						
15										
16										
17										
18				clay silt with clay and pebbles						
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-4 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
				Gneiss boulder						
				cobbles with clay						
				green felsic boulder						
			2	Cobbles, boulders and gravel	3760					
			3	Gravel with clay	360					
				green felsic boulder						
				clay with pebbles						
				silt						
				Cobbles, boulders and gravel						
			4	Gravel with clay	240					
				green felsic boulder						
			5	pebbles, cobbles, clay	77					
			6	Clay Till	44					
			7	Clay Till	946					
			8		1750					

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 ___

S FT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-4 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
			8	more clay than sample 7	1750					
			9	Clay with very few pebbles	1480					
			10	Clay	580					
	▨		11	Bedrock: Talc-chlorite gouge 2% py	20					

Foot of hole @ 65.5m

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 21 1986

S FT HOURS

____ TO ____

TOTAL HOURS

CONTRACT HOURS

HOLE NO 86-5 LOCATION L9+00E 0+75N

GEOLOGIST M. BRADSHAW DRILLER M. WHISSEL BIT NO. CR6B222 BIT FOOTAGE

MOVE TO HOLE 3:00 - 4:20

DRILL 4:20 - 5:00 / July 22 8:20-12:34 1:20-5:00

MECHANICAL DOWN TIME July 22 Change bit @ 12:34 @ 181'

DRILLING PROBLEMS

OTHER July 23, Drill 8:15 - 12:00

MOVE TO NEXT HOLE

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				Organics
1				brown clay
2				
3				
4				
5				
6				
7				brown clay and silt
8				brown silt with clay seams
9				
10				
11				brown silt
12				
13				
14				grey silt
15				
16				clay seam
17				grey silt with minor clay
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

[illegible]FT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-5 LOCATION ________

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE ______

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
21				grey silt						
2										
3										
4										
5										
6										
7										
				clay						
8				grey silt						
9										
30										
11										
12										
13										
14										
15										
16										
				clay						
17				grey silt						
18										
19										
40										

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

________ TO ________

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-5 LOCATION ________

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE ________

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au ppb					
1				grey silt						
2				clay						
3				grey silt						
4										
5										
6				Granite boulder Granodiorite						
7				Boulders and cobbles						
8			1	Cobbles boulders and pebbles						
9					26					
10										
11			2	Gravelly Till	<18					
12				Clay - dense						
13										
14										
15										
16			3	Boulders, cobbles with clay	160					
17			4	Clay Till	26					
18			5	Clay Till with mafic boulder	601					
19										
20				Granite boulder						

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

________ TO ________

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-5 LOCATION ________

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE ________

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
			6	Gravel with boulders and clay	66					
1			7		638					
2			8		72					
				Boulder						
3 4 5			9	Gravel, minor clay	531					
6 7 8			10	Boulders, cobbles with clay	605					
9 10			11	Pebbles, cobbles with increasing clay content	210					
				Granodiorite boulder						
11 12 13 14			12	more clay than pebbles green felsic boulder	140					
15 16 17			13	Till clay with pebbles	7680					
18 19			14	Till clay with pebbles	774					
20	▨		15	Bedrock: green talc-chl gouge	65					

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 23 19 86

SHIFT HOURS

____ TO ____

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-6 LOCATION 150' E of L10+00E 0+75N

GEOLOGIST M. BRADSHAW DRILLER M. WHISSEL BIT NO. C000171 BIT FOOTAGE :

MOVE TO HOLE

DRILL 2:15 - 5:00 / July 24 8:30 - 9:05 10:00 - 12:30

MECHANICAL DOWN TIME Clean water tank

DRILLING PROBLEMS Pull rods clean bit 9:05 - 10:00.

OTHER

MOVE TO NEXT HOLE

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
				Organics						
1										
2				Brown sand						
3										
4										
5										
6										
7										
8				Varved clay						
9										
10										
11										
12										
13										
14				grey silt with minor clay						
15										
16										
17										
18										
19										
20				grey silt						

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

HIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-6 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				grey silt
2				
3				
4				
5				
6				
7				clay
8				grey silt
9				
30				
11				
12				
13				
14				
15				
16				
17				clay
18				grey silt
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

IFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-6 LOCATION ____________

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE : ________

MOVE TO HOLE ____________

DRILL ____________

MECHANICAL DOWN TIME ____________

DRILLING PROBLEMS ____________

OTHER ____________

MOVE TO NEXT HOLE ____________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
41				grey silt						
2										
3										
4										
5										
6										
7										
8										
9			1	Gravel with boulders	110					
10										
11				Granodiorite boulder						
12			2	Gravelly Till : boulders and cobbles with clay	270					
13										
14			3	Grovelly Till	44					
15				Grey clay with some pebbles @ 59m						
16										
17										
18										
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-6 LOCATION ________

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE ________

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
1			4	Clay Till	94					
2			5	Clay Till	<18					
3			6	Clay Till	100					
4	▨			Granodiorite boulder						
5			7	Gravel	<18					
6				grey clay						
7				grey silt						
8										
9			8	silt with pebbles	<15					
10	▨		9	Bedrock: green talc-chlorite gouge	<5					
11				Foot of hole @70.7m						
12										
13										
14										
15										
16										
17										
18										
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 24 1986

SHIFT HOURS

____ TO ____

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-7 LOCATION L12+00E 1+00N

GEOLOGIST M BRADSHAW DRILLER ____ BIT NO. C000172 BIT FOOTAGE : ____

MOVE TO HOLE ____

DRILL 1:30 - 5:00 / July 25 8:40 - 10:09 11:07 - 2:40

MECHANICAL DOWN TIME ____

DRILLING PROBLEMS Pull rods change bit C000170

OTHER ____

MOVE TO NEXT HOLE ____

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				organics
1				brown sand
2				
3				
4				
5				
6				
7				
8				
9				
10				brown silt with bands of brown clay
11				
12				
13				brown clay
14				
15				
16				mainly silt with bands of blue-grey clay
17				brown silt
18				grey silt
				grey clay
19				grey silt
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

HIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-7 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				grey silt						
2										
3										
4				grey silt with occ thin clay bands						
5										
6										
7				mainly grey silt with occ clay						
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-7 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
1 2 3 4 5 6 7 8 9 10 11 12				grey silt						
13 14 15			1	Gravelly Till · gravel, cobbles with clay	28					
16 17			2	Clay Till - fewer pebbles	<19					
18 19 20				dense grey clay						

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

________ TO ________

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86-7 LOCATION ________

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE ________

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
1 2 3 4 5 6				dense grey clay						
7 8 9	⊛		3	Till: clay pebbles pebbles of talc-chl rock Mafic boulder	2270					
10 11			4	Gravelly Till: cobbles, boulders	470					
12 13 14			5	cobbles with clay	370					
15 16 17			6	increasing clay content with depth, cobbles	140					
18 19 20			7	cream to grey coloured clay with cobbles	480					

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-7 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au ppb					
81				tale and clay with small tale-chl pebbles						
2			8		400					
3										
4	▨		9	Bedrock: green tale-chl gouge with minor py	10					
85	▨									
6				Foot of hole @ 85.3m						
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE July 25 19 86

SHIFT HOURS

_____ TO _____

TOTAL HOURS

_____

CONTRACT HOURS

_____

HOLE NO 86-8 LOCATION 160' W of LISE 0+75N

GEOLOGIST M. BRADSHAW DRILLER _____ BIT NO. C000170 BIT FOOTAGE : _____

MOVE TO HOLE 3:00 - 4:00

DRILL 4:15 - 5:00 / July 26 8:00 - 4:00

MECHANICAL DOWN TIME July 27 Unstick rods 8:00 - 11:00

DRILLING PROBLEMS Rods stuck in hole 4:00

OTHER July 26 9:17 Pull rods change bit CB68230

MOVE TO NEXT HOLE July 27 DRILL 11:00 - 12:00 - 2:00 - 3:40
WAIT FOR RODS 12:00 - 2:00

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
				Organics						
1				grey silt						
2										
3										
4				grey silt with clay						
5										
6										
7										
8				brown sand and silt						
9										
10										
11										
12										
13				brown sand with clay						
14										
15				silt with varved clay						
16										
17										
18										
19										
20				Varved clay						

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-8 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb						
				Varved clay							
1											
2											
3											
4											
5											
6											
7											
8											
9											
30											
11				grey silt							
12				grey silt with minor clay							
13											
14											
15											
16											
17			1	Till: pebbles and cobbles with sand	<14						
18			2	Boulders and cobbles with sand	1060						
19			3	Gravel with silt, clay and pebbles	32						
20											

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-8 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
1			4	Gravel with boulders	<37					
2			5	Gravel	260					
3				Mafic boulder						
4				dense grey clay						
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

________ TO ________

TOTAL HOURS

____

CONTRACT HOURS

____

HOLE NO 86 - 8 LOCATION ________

GEOLOGIST ________ DRILLER ________ BIT NO. ________ BIT FOOTAGE ________

MOVE TO HOLE ________

DRILL ________

MECHANICAL DOWN TIME ________

DRILLING PROBLEMS ________

OTHER ________

MOVE TO NEXT HOLE ________

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
1				dense grey clay						
2				green qtz-carbonate boulder						
3			6	Till: Boulders and cobbles with clay	41					
4 5			7	Boulders, cobbles with clay	<40					
6 7 8 9 10				very fine silt						
				clay						
11 12 13 14 15 16 17 18 19				very fine silt						
20				clay						

REVERSE CIRCULATION DRILL HOLE LOG

DATE ________ 19 __

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO 86-8 LOCATION ______

GEOLOGIST ______ DRILLER ______ BIT NO. ______ BIT FOOTAGE : ______

MOVE TO HOLE ______

DRILL ______

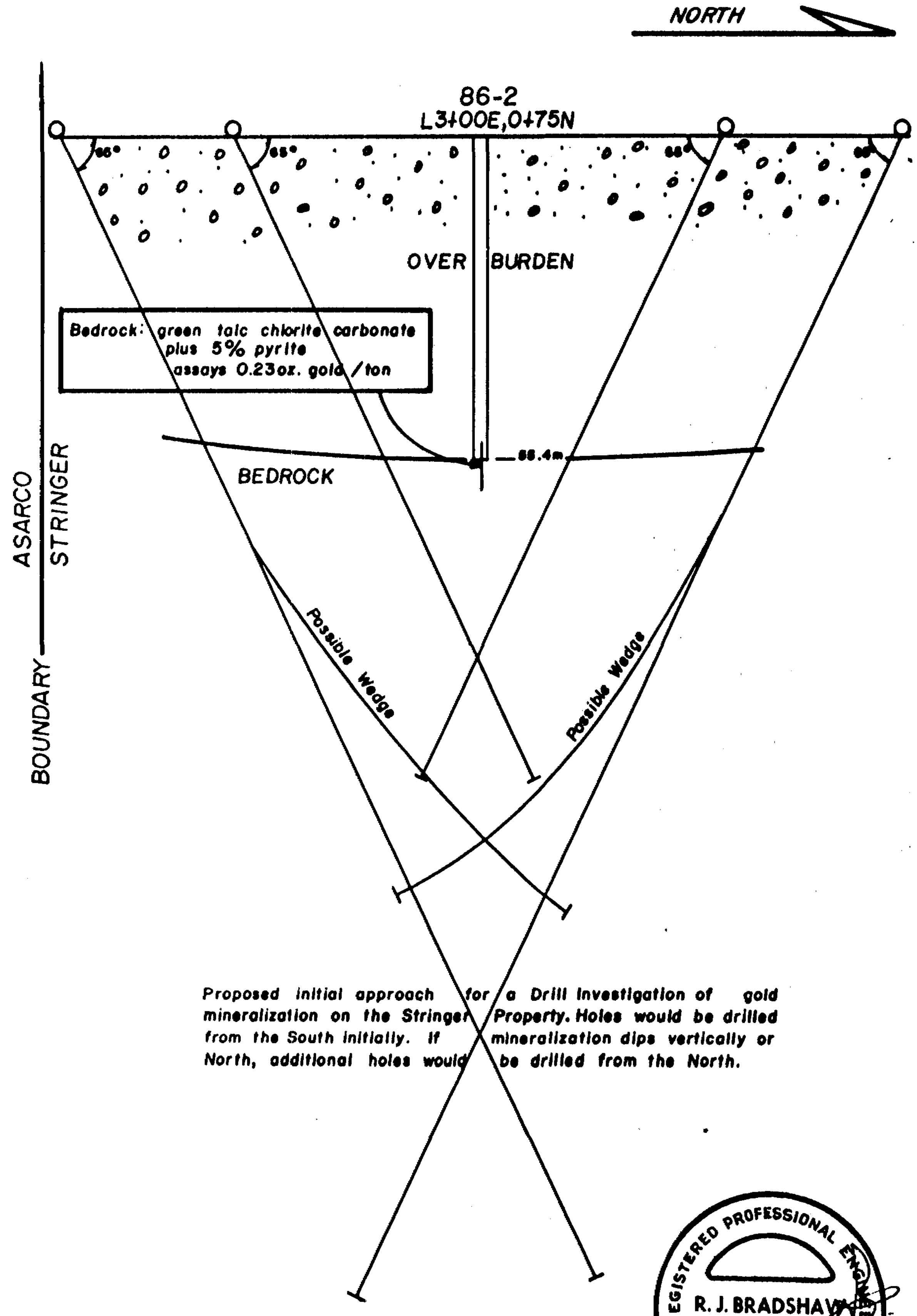
MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE ______

IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Au/ppb					
				very fine silt						
1										
2										
3										
4										
5										
6										
7										
8										
9				very fine silt with a few pebbles						
90				clay						
				very fine silt						
11										
12			8	Till: pebbles and cobbles with talc	440	clay				
13	▨		9	Bedrock: green talc-chl gouge minor py	<5					
94	▨									
15				Foot of hole @ 94.2m						
16										
17										
18										
19										
20										



Proposed initial approach for a Drill Investigation of gold mineralization on the Stringer Property. Holes would be drilled from the South initially. If mineralization dips vertically or North, additional holes would be drilled from the North.

SECTION LOOKING WEST

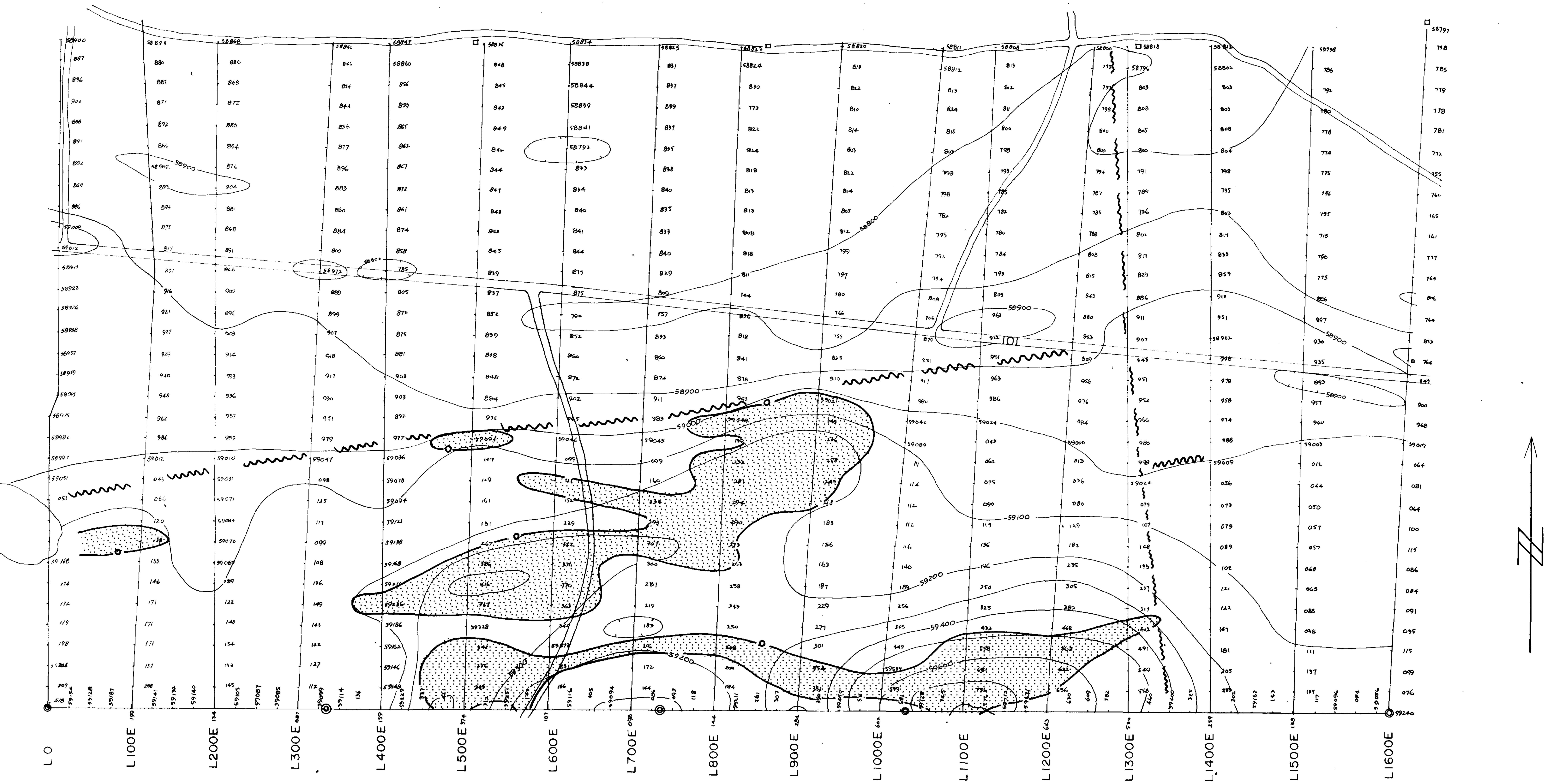
LINE 3+00 EAST

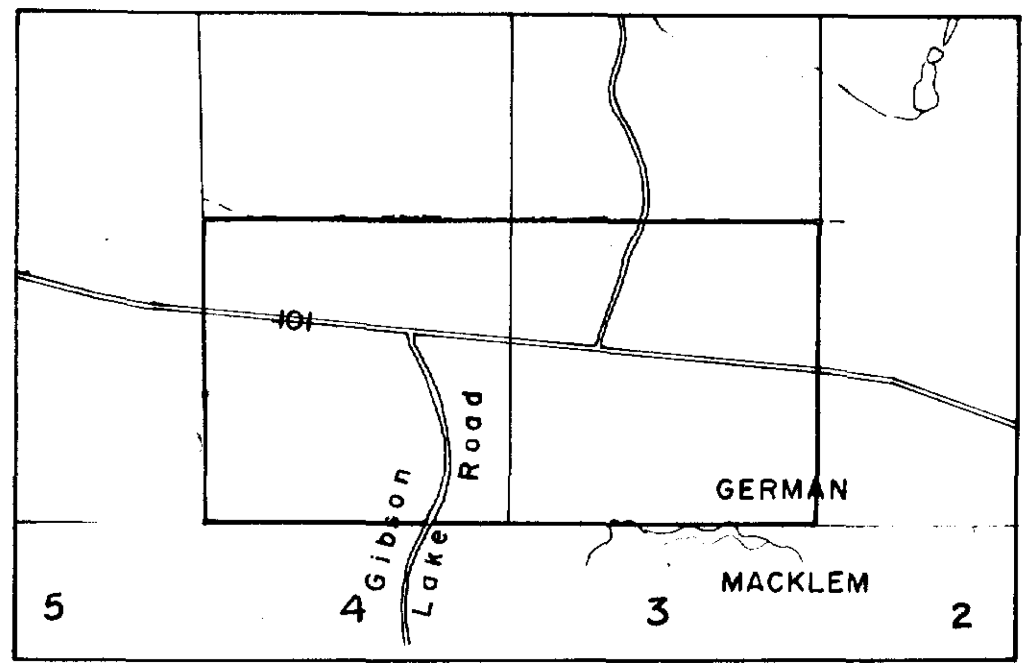
SCALE 1:100

R. J. BRADSHAW

23.86

Figure 3





KEY MAP 1:20,000

LEGEND

- | Measurement station
- |59273 Magnetic total field value
- 59000 Magnetic contour
- 58800 Magnetic depression
- ● Iron Pin
- ▨ Area of positive vertical gradient
- 〰 Fault

INSTRUMENT: No. 8503234

MAGNETIC TOTAL FIELD SURVEY

ON THE PROPERTY OF

G.K. STRINGER LTD.

GERMAN TOWNSHIP, ONTARIO

SCALE
0 100 200m
0 200 400 600ft.

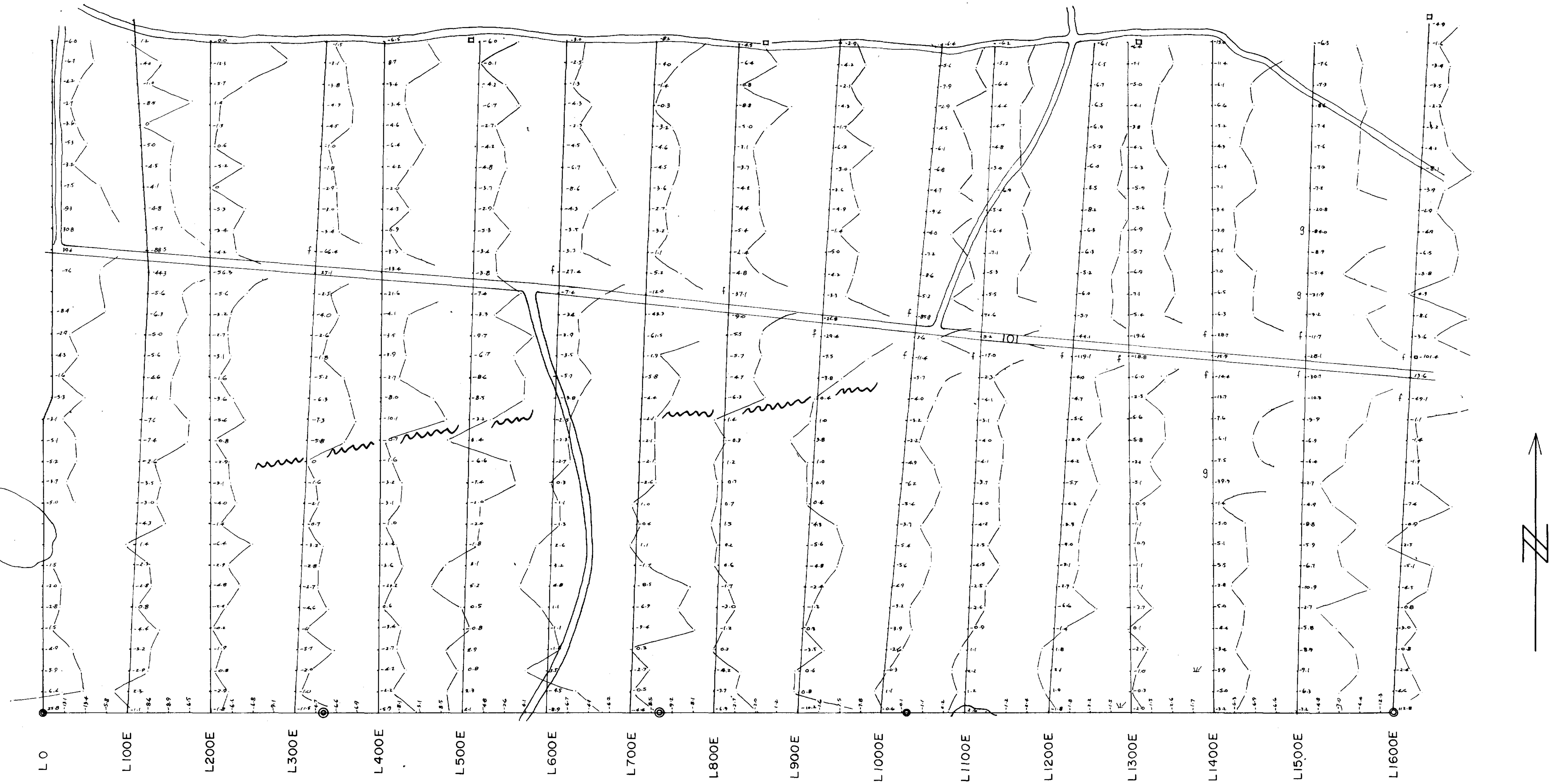
JULY, 1986

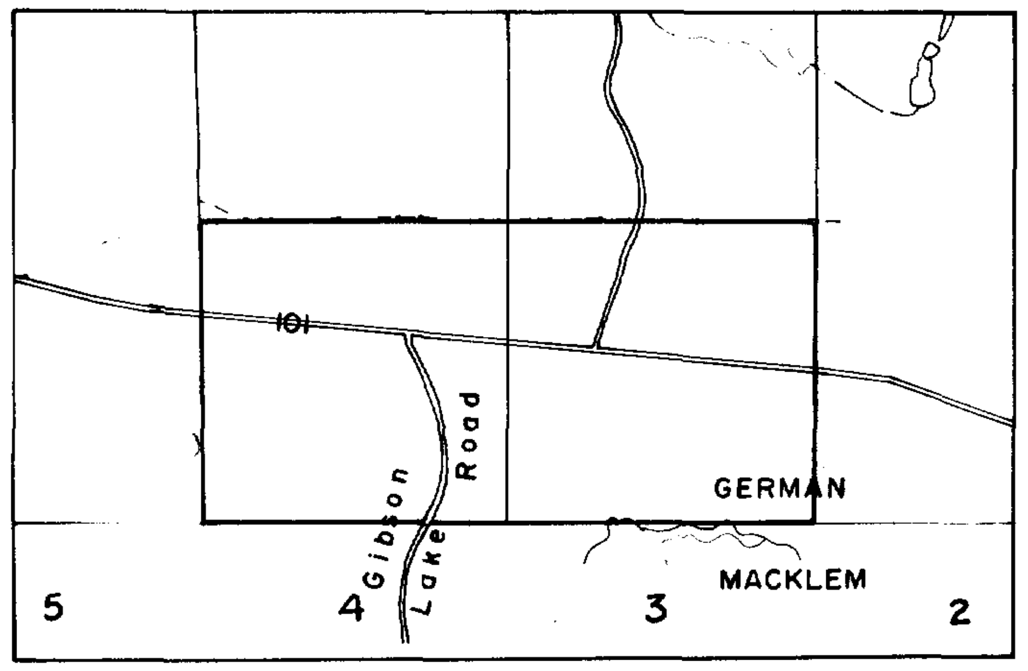
Figure I

200

OM86-106

63.4903





KEY MAP 1:20,000

LEGEND

Measurement station marked by picket

-1.2 Vertical magnetic gradient (gammas / metre)

4.8 1.1 -1.1 Profile of vertical magnetic gradient (gammas / metre)

5 + 0 - 5

INSTRUMENT: Scintrex MP3 Proton Magnetometer, No.8503234

MAGNETIC VERTICAL GRADIENT SURVEY

ON THE PROPERTY OF

G.K. STRINGER LTD.

GERMAN TOWNSHIP, ONTARIO

SCALE

0 100 200m

0 200 400 600ft.

JULY, 1986

Figure 2

210

0M86-106

63.4903