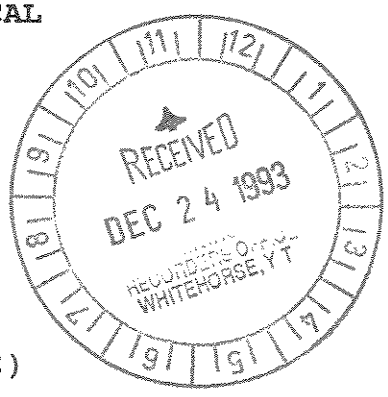
1993
GEOLOGICAL, PHYSICAL, GEOPHYSICAL, GEOCHEMICAL AND DIAMOND DRILLING ASSESSMENT REPORT ON THE CLEAR LAKE PROPERTY



Whitehorse M.D., Yukon
June 4th - August 5th, 1993

Claims: Clear 1-448 (YB25815-26262)
Clear 490 (26304)
Clear 491-593 (YB27222-27324)
Clear 594-598 (YB27376-27380)
CLEAR 599-674 (YB36109-36184)
SUE 611-616 (Y81261-81266)
SUE 635 (Y81285)
SUE 2010-2015 (YA22730-22735)
SUE 2018-2019 (YA22946-22947)
SUE 2026, 2028 (YA22748, 22746)
SUE 3003FR-3005FR (YA59692-59694)
SUE 3040FR (YA61583)
SUE 339-346 (Y80989-80996)

Location: 1. 225 km N of Whitehorse, Yukon
2. NTS 105L/11, 14, 15
3. Latitude 62o 48' N
Longitude 135o 10' W

By: H. W. Sellmer, M.Sc.,P.Geol.
Rick Zuran, B.Sc.
Atsushi Gomi, B.Sc.
Minoru Machida, M.Sc.

ENERGOLD MINERALS INC
1500-700 West Pender Street
Vancouver, B. C.
V6C 1G8

November 1993.

093145

EXECUTIVE SUMMARY

In 1993, Energold Minerals Inc. as operator of the Clear Lake Project, a joint venture between Energold Minerals Inc. and Mitsui Kinzoku Resources of Canada Inc., carried out an exploration program on the Clear Lake property. The property is located on the height of land between the MacMillan and the Pelly Rivers, 225 kilometers north of Whitehorse, Yukon Territory. It is accessible by winter road from Pelly Crossing and by means of a gravel airstrip suitable for fixed wing aircraft.

The Clear Lake deposit is a shale hosted stratiform zinc-lead-silver pyritic massive sulphide deposit in a fault bounded wedge of Middle-Upper Devonian Earn Group shales, immature sandstones and minor exhalites.

Greater than 5% combined lead-zinc mineralization in the main zone occurs as lenses 5 to 30 meters thick, 450 meters in length and extending 300 meters downdip. Although the sulphide layer appears to pinch with depth, the same stratigraphy continues downdip, providing the possibility of additional lenses laterally and at depth.

In addition there exist on the property, numerous as yet untested EM, magnetic, PLMT, IP/Resistivity geochemical and gravity anomalies both within the Earn Group as well as in the older Kechika Group and in Askin Group. The 1993 program tested several such targets in Areas 1, 3, 4 and 23 of the property.

The 1993 program consisted of 1,364 meters of diamond drilling in 6 holes in Area 1 (3), Area 3 (1) and Area 4 (2); linecutting, auger soil sampling, geological mapping as well as gravity and magnetometer surveys at a total cost of $500,000.00.

The surveys outlined areas of anomalous metals in soils combined with gravity, magnetic and conductivity anomalies in Kechika Group rocks in Areas 1, 3 and 4. Subsequent drill testing intersected locally elevated metal contents in graphite-rich siliceous or limy chlorite or biotite phyllites but no massive sulphide bodies. The results are deemed adequate to explain the anomalies and no further testing is recommended for these areas.

Gravity, magnetic and soil sampling data coupled with geologic mapping indicate that Area 23 is underlain in part by a quartz diorite intrusion and the area surveyed does not contain any massive sulphide targets.

Based on previous and the current mapping, it remains unclear to what extent the Earn Group underlies the property to the west of the Clear Lake deposit. Several targets in the general area of the deposit which were recommended for further testing remain.

TABLE OF CONTENTS

Page

LIST OF TABLES

Page

LIST OF FIGURES

LIST OF APPENDICES

1.0 CONCLUSIONS

Drill testing of combined magnetic, PLMT, gravity and geochemical anomalies in areas underlain by Kechika Group rocks in Areas 1,3, and 4 did not result in the discovery of new massive sulphide bodies.

Area 23 is underlain by a quartz diorite intrusion and did not yield any drill targets.

1.1 AREA 1

Three holes - DDH-93-77, 79, and 80 - intersected a variably graphitic, steeply south-dipping horizon 25-50 meters thick. It is mainly siliceous, only locally calcareous and contains accumulations of pyrite and pyrrhotite ranging from less than one to up to ten percent sulphides. Graphite content is locally high, especially so in zones of intense shearing. Metal content from samples taken from the core indicate that the horizon is at best only weakly anomalous in copper and zinc.

It appears likely that the geophysical and geochemical anomalies found directly above the unit are adequately explained by the drill results.

Minor sphalerite and galena were intercepted at 100 meters downdip from the creek showing in Hole 93-80.

1.2 AREA 3

Hole 93-78, which was drilled to test a combined magnetic high and gravity anomaly failed to intersect any economic sulphides. The hole did intersect a +50 meter thick volcanic unit which was found to be magnetic and is probably more dense than the surrounding chloritic phyllites and thus may be the cause of the gravity anomaly.

1.3 AREA 4

Hole 93-81 was drilled at an azimuth of 028 degrees and a dip of -50 degrees to a depth of 214.9 meters on line 3+25W at 19+33N to test a combined EM conductor, PLMT anomaly and magnetic high. Overburden in the area precludes geochemical expression. The hole intersected chlorite phyllite with variable amounts of graphitic material and locally disseminated pyrite, pyrrhotite and traces of chalcopyrite but no zinc or lead sulphides.

Hole 93-82 drilled 325 meters to the east at 0+0, 20+15N to a depth of 146.0 meters at -60 degrees on an azimuth of 028 degrees. It gave similar results.

1.4 AREA 23

The gravity survey did not indicate any anomalies in Area 23 and no geochemical anomalies were found. The magnetometer data outlines a quartz diorite intrusion which underlies much of the area. The hornfelsed clastic rocks surrounding the intrusion may or may not be part of the Earn Group.

No drill targets were identified in Area 23.

2.0 RECOMMENDATIONS

Combined gravity, magnetic, soil and EM anomalies in the Kechika in Areas 1, 3, and 4 have been tested without any positive results. Several similar targets remain elsewhere on the property but it is difficult to assign them a high priority in light of the results achieved to date.

Gravity surveys augmented with seismic surveys to provide accurate corrections for overburden depths and Max-Min Horizontal Loop EM are seen as the most effective geophysical methodology. However, Seismic is an expensive method and was discarded for this reason for the 1993 program.

Only exceptionally strong gravity anomalies which to do not appear related to overburden/bedrock topography, or ones in the Earn Group should be considered for future targets.

It is recommended that the gravity data on the property be carefully reviewed in search of high contrast anomalies for further testing.

Some of the recommendations from the 1992 exploration program not followed up during the 1993 program must be reviewed to see if they warrant further work.

3.0 INTRODUCTION

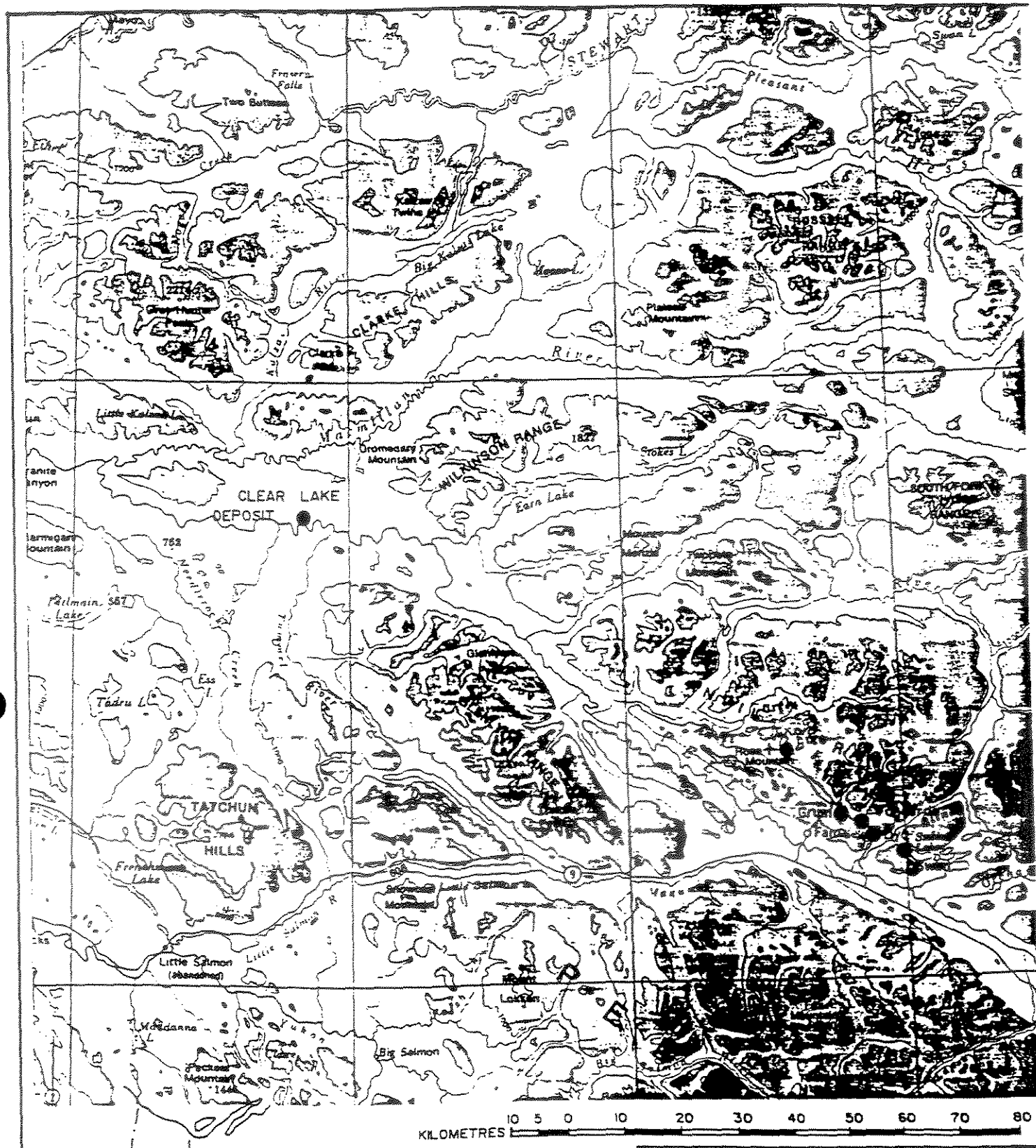
This report describes the 1993 exploration program and provides the documentation required under the assessment regulations of the Yukon Quartz Mining Act. It describes exploration work carried out from June 4th - August 8th, 1993 by Energold Minerals Inc. as operator and Mitsui Kinzoku Resources of Canada Inc. both of whom are registered owners of the claims.

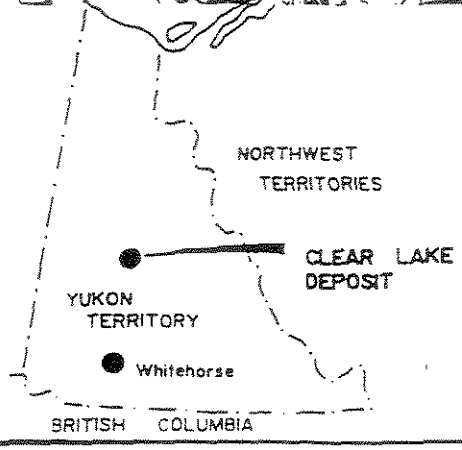
Exploration work consisted of diamond drilling (1,364 meters in 6 holes), geophysics (gravity and magnetometer), linecutting, auger assisted soil sampling, rock chip sampling of outcrops and drill cores, and geological mapping for the purpose of locating base metal sedex type deposits in Areas 1, 3, 4 and 23 (see Figure 3).

4.0 LOCATION & ACCESS

The Clear Lake Property is located in southcentral Yukon, 225 kilometers north of Whitehorse. The property covers the height of land between the confluence of the Pelly and MacMillan Rivers. The approximate center of the claim block is located at 62 degrees, 48' North latitude and 135 degrees 10' West longitude on NTS map area 105 L/14. Portions of the property are also on NTS map areas 105 L/15 and 105 L/11.

Access is via helicopter based in Carmacks, located approximately 90 kilometers to the southwest, or from Whitehorse. A dirt airstrip approximately 1000 meters long located at the Clear Lake lead-zinc deposit is capable of handling bush planes. A winter road links the property to the all-weather North Klondike Highway at Pelly Crossing, approximately 65 kilometers to the west (Figure 1).





ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT

LOCATION MAP

N.T.S.:	TECH:	DATE:
105 L		OCTOBER, 1993
SCALE: 1:1,000,000	DRAFTING:	FIGURE: 1

5.0 CLIMATE, TOPOGRAPHY & VEGETATION

The climate in southwestern Yukon is one of contrast with short, moderately dry summers (30 cm annual precipitation) and long, cold winters with moderate snowfall. The exploration season extends from mid-May through to late September-early October.

The property covers rolling upland between the MacMillan and Pelly Rivers with numerous small lakes and swampy basins contained by low hills. Topography is moderate with approximately 200 meters of relief. The highest point on the property is 800 meters above sea level.

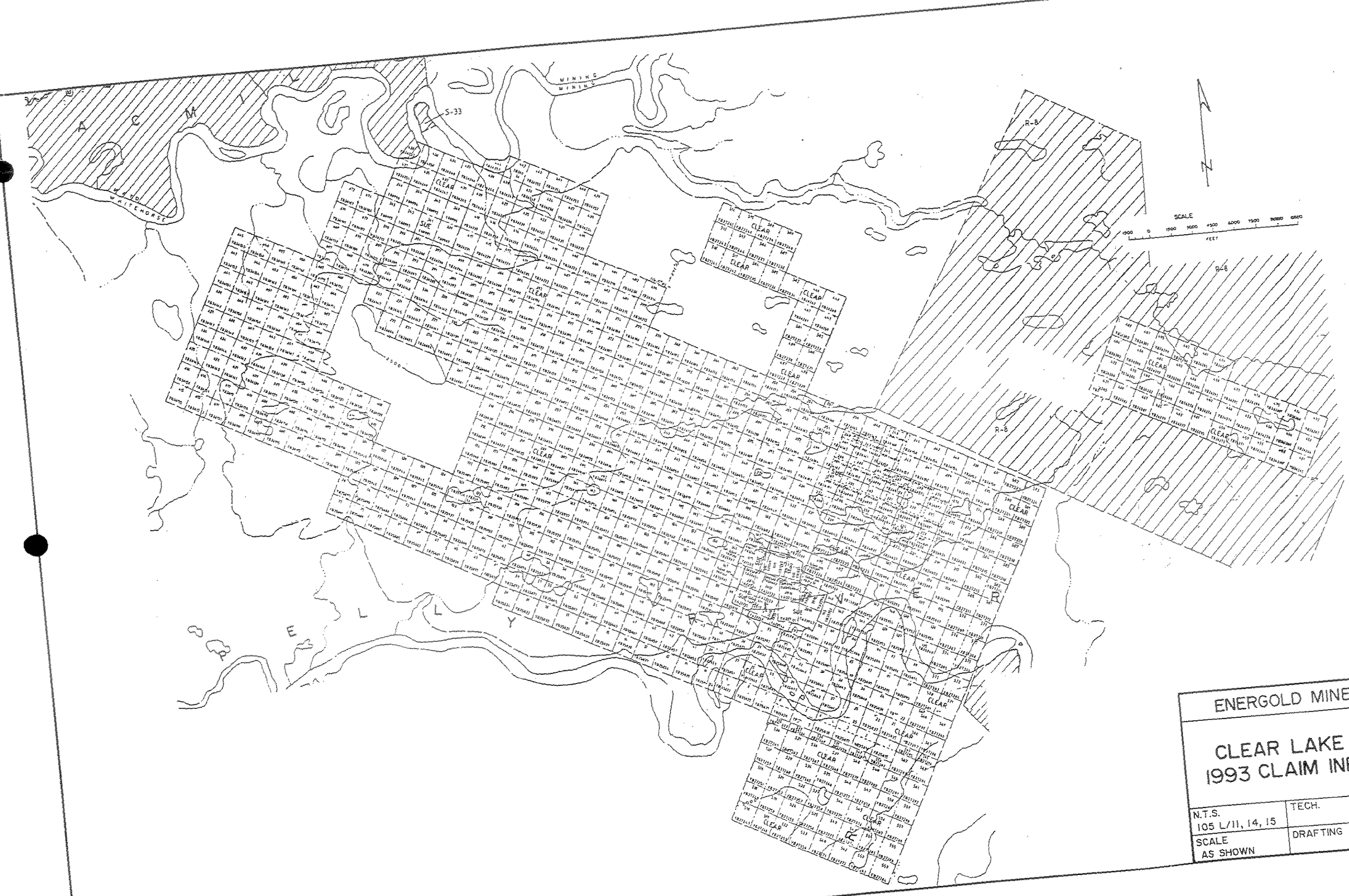
Vegetation on north and east facing slopes consists of stunted white and black spruce, willow, labrador tea and moss. South and west facing slopes sustain white spruce, aspen, poplar, lodgepole pine, and various grasses and shrubs. Cottonwood is restricted to river and stream valleys and stands of lodgepole pine grow on some dry, flat areas. Large areas have been burned within the last 25 years. They are now covered by stands of small spruce, poplar, and pine along with extensive growths of alder, birch and willow. Windfall is usually a serious hindrance to travel in the burns.

6.0 CLAIM STATUS

The property consists of 701 surveyed and unsurveyed mineral claims covering a total of 14,608 hectares, staked in accordance with the Yukon Quartz Mining Act (Figure 2). The claims are shown on D.I.A.N.D. Quartz and Placer Map sheets 105 L/11, 14, 15. Twenty-one claims covering the Clear Lake deposit have been surveyed. Claims data for the entire property are summarized in the table below.

MacMillan/Clear Lake Claim Status

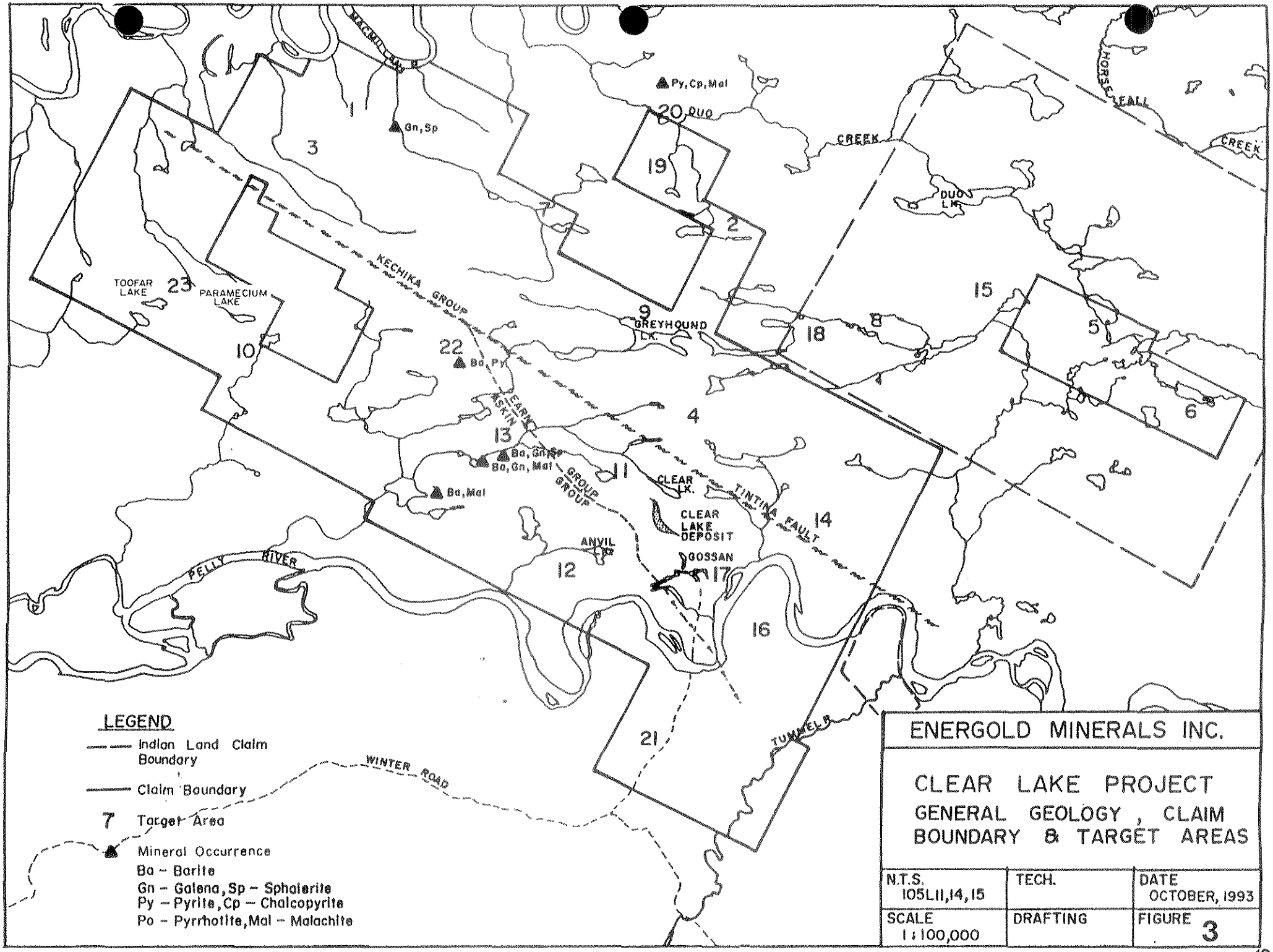
Claim Name	Grant Numbers	Expiry Date	Claim Name	Grant Numbers	Expiry Date
Clear 1-21	YB25815-YB25835	Dec.1, 2000	Clear 169-174	YB25983-YB25988	Dec.1,2000
Clear 22	YB25836	Dec.1, 2001	Clear 175-182	YB25989-YB25996	Dec.1,2001
Clear 23	YB25837	Dec.1, 2000	Clear 183-184	YB25997-YB25998	Dec.1,2002
Clear 24	YB25838	Dec.1, 2001	Clear 185	YB25999	Dec.1,2001
Clear 25	YB25839	Dec.1, 2000	Clear 186-204	YB26000-YB26018	Dec.1,2002
Clear 26	YB25840	Dec.1, 2001	Clear 205-264	YB26019-YB26078	Dec.1,2001
Clear 27	YB25841	Dec.1, 2000	Clear 265-448	YB26259-YB26262	Dec.1,2000
Clear 28	YB25842	Dec.1, 2001	Clear 451-489	YB26265-YB26302	Dec.1,1995
Clear 29	YB25843	Dec.1, 2000	Clear 490	YB26304	Dec.1,2000
Clear 30	YB25844	Dec.1, 2001	Clear 491-496	YB27222-YB27227	Dec.1,2002
Clear 31	YB25845	Dec.1, 2000	Clear 497-593	YB27228-YB27323	Dec.1,2000
Clear 32	YB25846	Dec.1, 2001	Clear 594-598	YB27376-YB27380	Dec.1,2004
Clear 33	YB25847	Dec.1, 2000	Clear 599-674	YB36109-YB36184	Dec.1,1999
Clear 34	YB25848	Dec.1, 2001	Sue 339-346	Y 80989-Y 80996	Dec.1,2000
Clear 35	YB25849	Dec.1, 2000	Sue 611-616	Y 81261-Y 81266	Dec.1,2006
Clear 36	YB25850	Dec.1, 2001	Sue 635	Y 81285	Dec.1,2006
Clear 37	YB25851	Dec.1, 2000	Sue 2010-2015	YA22730-YA22735	Dec.1,2006
Clear 38	YB25852	Dec.1, 2001	Sue 2018-2019	YA22946-YA22947	Dec.1,2006
Clear 39	YB25853	Dec.1, 2000	Sue 2026	YA22746	Dec.1,2006
Clear 40	YB25854	Dec.1, 2001	Sue 2028	YA22748	Dec.1,2006
Clear 41	YB25855	Dec.1, 2000	Sue 3003-3005Fr	YA59692-YA59693	Dec.1,2006
Clear 42	YB25856	Dec.1, 2001	Sue 3040 Fr	YA61583	Dec.1,2006
Clear 43	YB25857	Dec.1, 2000			
Clear 44	YB25858	Dec.1, 2001			
Clear 45	YB25859	Dec.1, 2000			
Clear 46	YB25860	Dec.1, 2001			
Clear 47	YB25861	Dec.1, 2000			
Clear 48	YB25862	Dec.1, 2001			
Clear 49	YB25863	Dec.1, 2000			
Clear 50	YB25864	Dec.1, 2001			
Clear 51	YB25865	Dec.1, 2000			
Clear 52	YB25866	Dec.1, 2001			
Clear 53	YB25867	Dec.1, 2000			
Clear 54	YB25868	Dec.1, 2001			
Clear 55	YB25869	Dec.1, 2000			
Clear 56	YB25870	Dec.1, 2001	Subject to the acceptance of 1993 work filed.		
Clear 57	YB25871	Dec.1, 2000			
Clear 58	YB25872	Dec.1, 2001			
Clear 59-78	YB25873-YB25892	Dec.1, 2000			
Clear 79-81	YB25893-YB25895	Dec.1, 2001			
Clear 82-104	YB25896-YB25918	Dec.1, 2002			
Clear 105-114	YB25919-YB25928	Dec.1, 2001			
Clear 115-134	YB25929-YB25948	Dec.1, 2000			
Clear 135-137	YB25949-YB25951	Dec.1, 2001			
Clear 138-162	YB25952-YB25976	Dec.1, 2002			
Clear 163-166	YB25977-YB25980	Dec.1, 2001			
Clear 167	YB25981	Dec.1, 2000			
Clear 168	YB25982	Dec.1, 2001			



ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT
1993 CLAIM INFORMATION

N.T.S. 105 L/11, 14, 15	TECH.	DATE OCTOBER, 1993
SCALE AS SHOWN	DRAFTING	FIGURE 2



LEGEND

- Indian Land Claim Boundary
- Claim Boundary
- 7 Target Area
- Mineral Occurrence
  - Ba – Barite
  - Gn – Galena, Sp – Sphalerite
  - Py – Pyrite, Cp – Chalcopyrite
  - Po – Pyrrhotite, Mal – Malachite

ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT
GENERAL GEOLOGY, CLAIM BOUNDARY & TARGET AREAS

N.T.S. 105L11,14,15	TECH.	DATE OCTOBER, 1993
SCALE 1:100,000	DRAFTING	FIGURE 3

7.0 GEOLOGY

7.1 REGIONAL GEOLOGY

Regional geological data is taken from the Glenlyon 1:250,000 map sheet (105L) which was first mapped by Campbell in 1967 (Campbell, R.B., 1967) and the 1977 revised 1:1,000,000 scale MacMillan River map sheet by Gabrielse (Gabrielse et al., 1977).

The region comprises Palaeozoic deepsea clastic sedimentary rocks of the Selwyn Basin, deformed intermediate to mafic volcanic rocks of the Cassiar Belt and locally Mesozoic intrusive rocks. The Tintina Fault separates the Selwyn Basin and Anvil Allochthon in the northeast from the Cassiar Belt in the southwest.

Thrust sheets and parallel faults have complicated the geology, particularly in the Clear Lake area. The Anvil Allochthon was formed by westerly derived thrust sheets that were active during late Triassic to mid-Cretaceous. Recent interpretation of regional geology suggests that numerous major faults occur in the area (1991, Abbott, G., pers. comm.). Key tectonic elements and stratigraphy are shown below.

Tectonic Element	Group or Formation	Age	Deposits
SELWYN BASIN			
Anvil Allochton	Anvil Range	Miss-Triassic	Faro
	Earn	Devono-Miss	Clear Lk Tea, Kathy
	Road River	Ord- Sil	Howards Pass
	Rabbitkettle	Cambro-Ord	
OMINECA CRYSTALLINE BELT			
Cassiar Belt	Askin (McDame-BC)	Sil-Dev	
	Kechika	Cambro-Ord	

The geologic setting, deposit type, and host rocks (Earn Group) of the Clear Lake Zone are similar to the Cirque deposit in northern British Columbia.

During the Pleistocene epoch two lobes of the Cordilleran ice sheet scoured a westerly glacial fabric across the region resulting in hundreds of drumlins, moraines and outwash deposits. Overburden in the Clear Lake area ranges from 1 to over 50 meters and outcrop exposure is generally poor.

7.2 PROPERTY GEOLOGY

The Clear Lake property is underlain by Kechika Group and Rabbit Kettle Formation in the north and Earn Group, Askin Group, and Road River Formation in the south. The Tintina Fault which strikes northwest across the middle of the property separates the two packages.

Table 1 shows a lithological legend for the property; detailed descriptions of the lithologies are found in the 1991 property report and the detailed geology for the areas covered in 1993 is shown on maps for each area (Figures 5, 6 and 8) as well as in Figure 4 (in pocket).

TABLE 1: LITHOLOGY LEGEND

INTRUSIVE ROCKS

TERTIARY, MESOZOIC (?) OR MISSISSIPPIAN (?)

- K_2 — MAFIC INTRUSIVE ROCKS a) Gabbro, Diorite; b) Diabase
- K_1 — FELSIC INTRUSIVE ROCKS a) Felsite b) Granodiorite

MISSISSIPPIAN AND/OR EARLIER

- DM_{CPC} — CHERT PEBBLE CONGLOMERATE locally heterolithic with Kechika group fragments.

EARN GROUP

MISSISSIPPIAN

- DM_B — BARITE
- DM_A — MASSIVE SULPHIDE
- DM_6 — MAFIC VOLCANIC FLOW ROCKS
- DM_5 — TUFF a) Lapilli; b) Ash
- DM_4 — CHERT dark grey, massive
- DM_3 — BRECCIA, CONGLOMERATE
- DM_2 — ARGILLITE/SHALE a) massive, carbonaceous; b) with minor sandstone, siltstone bands; c) with many sandstone siltstone bands; d) siliceous and/or silicified; e) calcareous with thin limestone interbeds; f) with thin light brown dolomitic bands.
- ? DM_1 — SANDSTONE a) massive; b) laminated
- DM_{LST} — LIMESTONE
- DM_{CHT} — CHERT Dark green to brown, banded

DEVONIAN

HAMMER HILL THRUST

ASKIN GROUP

DEVONIAN

- SD_4 — QUARTZITE
- SD_3 — DOLOSTONE locally recrystallized by chert
- SD_2 — ARGILLITE/SHALE locally dolomitic and micaceous
- SD_1 — AMYGDALOIDAL ANDESITE

SILURIAN

ROAD RIVER FORMATION

SILURIAN

- $0S$ — SHALE graptolitic

ORDOVICIAN

TINTINA FAULT

KECHIKA GROUP MENZIE CK FORMATION

ORDOVICIAN

- CO_{4c} — TUFF BRECCIA
- CO_{4b} — TUFF
- CO_{4a} — SEDIMENTARY ROCKS variegated mudstone, siltstone, chert, limestone and greywacke.

VANGORDA FORMATION

- CO_{3c} — LIMESTONE
- CO_{3b} — METABASALT
- CO_{3a} — PHYLLITE calcareous, undifferentiated (formerly 5)

MT MYE FORMATION

- CO_{2e} — GRAPHITE QUARTZ PHYLLITE non-calcareous with sulphides
- CO_{2d} — GRAPHITE RICH PHYLLITE graphite > chlorite
- CO_{2c} — LIMESTONE
- CO_{2b} — CHLORITE RICH PHYLLITE chlorite > graphite
- CO_{2a} — PHYLLITE undifferentiated

CAMBRIAN

RABBITKETTLE FORMATION

ORDOVICIAN

- CO_1 — ARENITE dolomitic, calcareous, with micaceous silty bedded limestone and calc-silicate

CAMBRIAN

DESCRIPTIVE SUBSCRIPTS

ALTERATION:	ca	calcareous
	do	dolomitic
	si	silicified
	cy	clay altered
	ch	chloritic
	se	sericitic
	mc	micaceous
	gr	graphitic
	ep	epidote
	ch	chert replacement
DETRITUS:	pe	pebbly
	sa	sandy
	si	silty
BEDDING:	ma	massive
	pl	planar
	no	nodular
	wa	wavy
	xb	x-bedded
	la	laminated
ANGULARITY:	bx	brecciated
	cg	conglomeratic

7.3 MINERALIZATION & ALTERATION

7.3.1 Clear Lake Zone

The Clear Lake deposit is a shale-hosted stratiform deposit which contains approximately 30 million tons of sulphide (mostly pyrite). The deposit is approximately 1000 meters long and up to 120 meters thick dipping steeply to the north. Ore minerals are sphalerite and galena disseminated within the massive pyrite.

To date, no massive sulphide zones have been found on the property in the Kechika Group, the unit, or a time equivalent to those which host the Anvil deposits to the south.

8.0 1993 EXPLORATION PROGRAM

8.1 SUMMARY OF WORK

Physical work on the Clear Lake property during the 1993 program consisted of mobilization, auger overburden sampling in areas 1, 3, 4 and 23, linecutting and picketting (30.2 km), and 1,364 meters of diamond drilling in 6 holes.

8.1.1 Mobilization

Mobilization to the site took place June 4th to June 11th using a Cessna 206 and 207. All the necessary supplies including drill rods, mud, fuel, core boxes, lumber, oil and miscellaneous supplies were flown from Pelly Crossing to Clear Lake.

Diesel fuel left over from the 1992 program was used in 1993. A helicopter portable drill unit which was flown from the Dromedary Mountain property some 25 kilometers to the northeast was used to drill Areas 1 and 3.

8.1.2 Line Cutting

A total of 30.2 kilometers of line were cut by hand on Areas 3 (7.4 km.), 4 (5.0 km.) and 23 (17.75 km.). No new lines were cut in Area 1. However several lines were flagged to the east of the existing grid using compass and topofil chains as control.

8.1.3 Diamond Drilling

The 1993 drill program was directed towards the discovery of new massive sulphide bodies by testing a combination of gravity, magnetic, conductive and geochemical anomalies in Kechika Group rocks in Areas 1, 3 and 4.

1,364 meters of NQ and BQ wireline drilling was completed in 6 holes between June 26th and August 5th. Hole locations are given in Figure 4, are shown on the detailed area maps (Figures 5 through 7); sections of individual holes are given in Figures 5(c,d,e), 6(b) and 7(b,c).

The contractor, Kluane Drilling Ltd. of Whitehorse, supplied 4 drillers, a catskinner, a Longyear "Super 38" drill, and a D6 bulldozer in addition to the helicopter borne drill from Dromedary Mountain.

A total of 53 core samples were analyzed geochemically for zinc, lead, copper, barium, mercury and silver by Bondar-Clegg Laboratories Ltd. of North Vancouver.

The diamond drill hole collars were not surveyed in. Chain and compass traverses were deemed sufficiently

accurate to locate the holes with respect to the grid at this stage. Acid dip tests were used to check deviations in the dip angle at approximately 75 meter intervals.

8.2 GEOLOGIC MAPPING

Geological mapping was completed in Areas 1, 3, 4, and 23 at a scale of 1:5,000. The data are plotted on Figures 4 and 5 through 8 at a scale of 1:20,000 and 1:10,000.

8.3 GEOCHEMISTRY

A total of 357 soil, 7 silt and 17 rock chip samples were taken on the Clear Lake property in 1993. Samples were analyzed for zinc, lead, copper, silver, mercury, and rock chip samples were analyzed for barium as well. Appendix A presents analytical procedures and results.

Soil samples were taken at 50 meter spacing along grid lines with a hand auger which could reach a maximum depth of 2.0 meters with an extension. Sampled areas include parts of Area 1, 3, 4 and Area 23 (Figures 5(a), 6(a), 7 and 8(a)).

Table 2 shows the thresholds derived for elements analyzed based on sampling completed in previous exploration programs.

TABLE 2: CLASSIFICATION OF GEOCHEMICAL RESULTS

Element (ppm)	Possibly Anomalous	Probably Anomalous	Highly Anomalous
Zn	120-150	150-240	>240
Pb	30-50	50-80	>80
Cu	40-60	60-70	>70
Ag	0.5-0.8	0.8-1.1	>1.1
Ba	1800-2250	2250-2700	>2700
Hg	0.130-0.230	0.230-0.670	>0.670

The data were contoured and evaluated in combination with results from previous work. Results are discussed by area in the appropriate sections.

8.4 GEOPHYSICS

Gravity surveys totalling 14.625 kilometers were carried out in Area 4 (2.475 km.) and Area 23 (12.15 km.) by Peter E. Walcott & Associates Ltd. No formal report was written on the results; the techniques and instrumentation are the same as for the 1992 survey and are described in

detail in the 1992 report. Gravity data is presented in profile form in Appendix C.

Magnetometer surveys were completed in Area 1 (9.9 km.), Area 3 (12.55 km.), Area 4 (7.175 km.) and Area 23 (9.7 km.) for a total of 39.325 km. using a Scintrex Omni Mark IV field unit and base station.

The base station magnetometer was synchronized with the field unit at the beginning of each days surveying and the data was simultaneously dumped into a computer program which calculated the station readings corrected for diurnal variations.

Surveying was not undertaken during periods of severe magnetic storm activity and in general, the diurnal variation was sufficiently low to give reliable data.

Results are presented in contour form on Figures 5(b), 7(a) and 8(b); magnetic data are given in Appendix B and profiles are shown for selected lines in the appropriate drill sections.

9.0 EXPLORATION AREAS

Exploration work carried out in 1993 is covered by area in the following sections. In each case the geology is described based on the mapping carried out; the geochemical results and the geophysical data are summarized and an interpretation of the data is given.

9.1 AREA 1

9.1.1 Geological Mapping

The Area 1 grid was extensively remapped at 1:5,000 scale between lines 92+00W with hip chain (topofil) additions to the existing grid of 4 lines extending the grid 600 meters to the east to include lines 73+00W, 74+50W, 76+00W and 77+50W.

The area is characterized by a tightly folded, northwest-striking, steeply south-dipping sequence of siliceous and limy phyllites with phyllitic limestone and quartzite interbeds. At least two strongly graphitic units - termed quartz-graphite phyllite in the field - are recognized and are traceable throughout the entire grid area as strong EM conductors. These units contain fracture controlled and disseminated pyrite and/or pyrrhotite, locally up to 5-7% and averaging 1-3%. A sphalerite-galena showing in the creek at 86+35W, 47+50N appears to be localized at the transitional contact from siliceous to limy graphitic phyllite of the more southerly of the two units (Figure 5).

The mineralized zone outcrops over a distance of about 4 meters and a vertical extent of 2 meters on the south side of the Creek. Fine-grained black to brown sphalerite and galena with 1-3% pyrite and minor pyrrhotite occur in a limy graphitic chlorite phyllite over about one meter interval as 2-4, 5 cm., wide bands.

Previous sampling returned low values in zinc and lead. A sample taken from the zone in 1993 returned 2.7 ppm Ag, 1,219 ppm Pb, 13,696 ppm Zn and 1.277 ppm Hg.

9.1.2 Geochemistry

A total of 172 soil samples were taken at 50 meter intervals from lines 93+00W to 73+00W. Results are tabulated in Appendix A.

Two test pits were dug on line 79+00W to determine the soil profiles in an area of anomalous zinc and copper values. The first profile at 49+35N is made up of 4 samples

Approx. claim boundary

MacMillan River

486000 E

487000 E

488000 E

GRID NORTH

28°

83-17-02

L 87+00 W

47+75 N

47+50 N

47+25 N

86,25,38,1.0,10,4954

L 53+50 N

POW GRID

SHOWING
2% diss. sulphides
po, py, sp, gc
2 veinlets along folae (2 X 80 cm)

R2001 (zone) 13696, 1219, 18, 2.7, 1277 (0.06)
R2002 (FW) 1003, 65, 29, <0.2, 23 (0.03)
R2003 (HW) 1240, 143, 23, <0.2, 44 (0.05)

R2004 py + limonite + jarosite (1%) in milky white qtz lenses 117, 25, 92, 0.7, 10 (0.30)

water falls

CLEAR 434
CLEAR 433
CLEAR 432
CLEAR 431
CLEAR 430
CLEAR 429
CLEAR 428
CLEAR 427

93-77
83-17-03
83-17-01
83-17-04
93-80
83-17-05
93-79

TEST PIT A (Data)
TEST PIT B (Data)
TEST PIT C (Data)

graphitic phyllite 25,5, 18, 0.3, 22, 1404 (rock chip)

Scale 1:1000
0 10 20 30 metres

0 100 200 300 400 500 metres

LEGEND

KECHIKA GROUP

MENZIE CK. FORMATION

Ordovician

- CO_{4c} TUFF BRECCIA
- CO_{4b} TUFF
- CO_{4a} SEDIMENTARY ROCKS — Mudstone, Siltstone, Chert, Greywacke, Limestone

VANGORDA FORMATION

- CO_{3c} LIMESTONE
- CO_{3b} METABASALT

MT. MYE FORMATION

- CO_{2e} GRAPHITE QUARTZ PHYLLITE — non-calcareous with sulphides
- CO_{2d} GRAPHITE RICH PHYLLITE — graphite > chlorite
- CO_{2b} CHLORITE RICH PHYLLITE — chlorite > graphite

RABBITKETTLE FORMATION

- CO_1 ARENITE — dolomitic, calcareous with silty banded limestone and calc-silicate

Cambrian

- geologic boundary
- fault
- limit of outcrop exposure
- bedding, foliation, joint, and lineation (Lcren = crenulation lineation)
- diamond drill hole
- claim post
- test pit
- rock chip sample; results listed as: Zn ppm, Pb ppm, Cu ppm, Ag ppm, Hg ppb, Ba ppm* (width in metres, in brackets)
- (H) helicopter pad cut in 1993
- (C) campsite (1993)
- * barium not always analyzed for

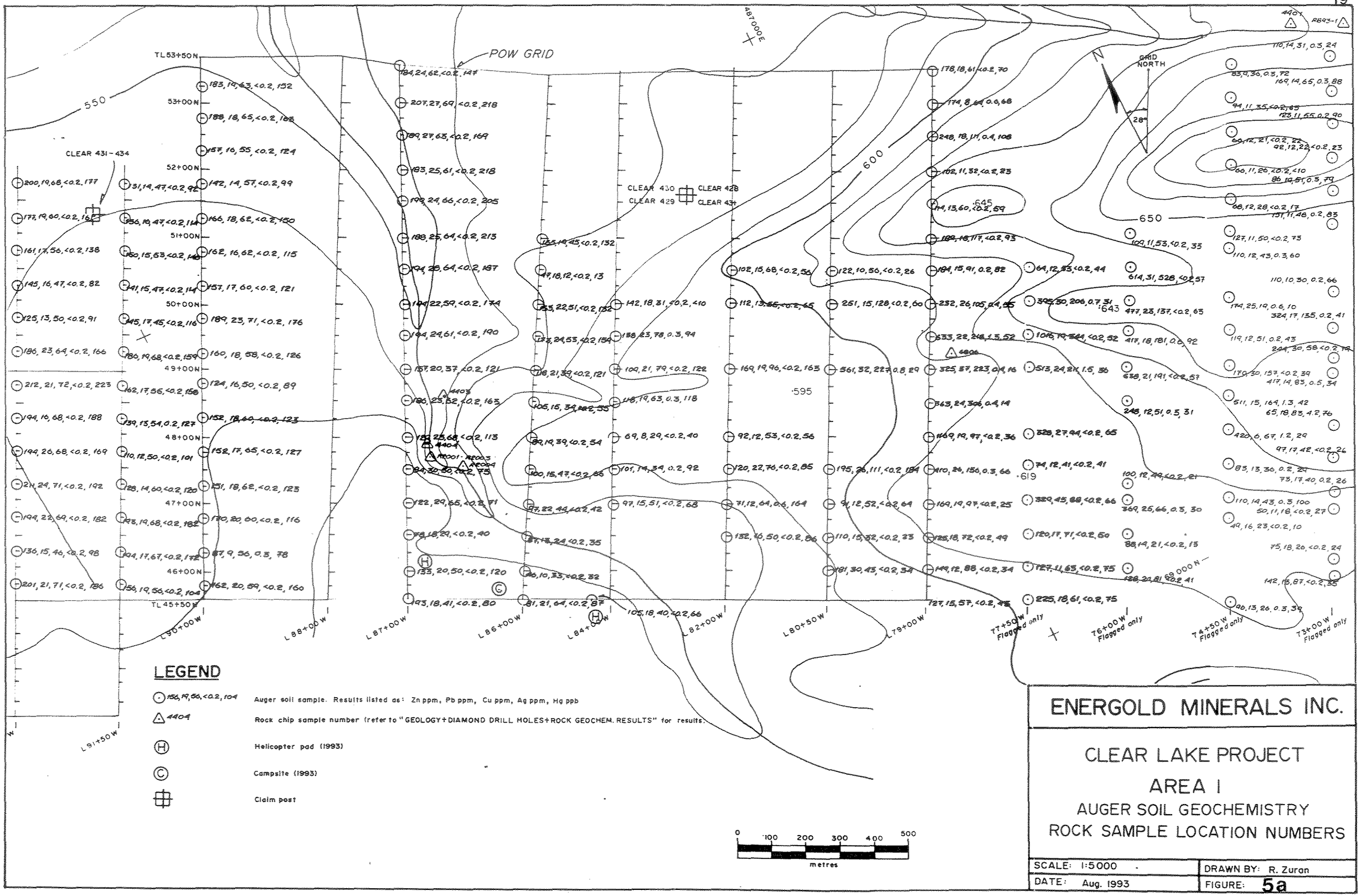
ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT

AREA I

GEOLOGY, DIAMOND DRILL HOLES, ROCK GEOCHEMISTRY RESULTS

SCALE: 1:10000	DRAWN BY: R. Zuran
DATE: Oct., 1993	FIGURE: 5



LEGEND

- 156, 19, 56, <0.2, 104 — Auger soil sample. Results listed as: Zn ppm, Pb ppm, Cu ppm, Ag ppm, Hg ppb
- △ 4404 — Rock chip sample number (refer to "GEOLOGY+DIAMOND DRILL HOLES+ROCK GEOCHEM. RESULTS" for results)
- (H) — Helicopter pad (1993)
- (C) — Campsite (1993)
- ⊞ — Claim post

0 100 200 300 400 500
metres

ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT
AREA I
AUGER SOIL GEOCHEMISTRY
ROCK SAMPLE LOCATION NUMBERS

SCALE: 1:5000	DRAWN BY: R. Zuran
DATE: Aug. 1993	FIGURE: 5a

over a 1.4 meter vertical interval including a thin AE horizon (P-1), silty sand (P-2), and partly oxidized cobbly outwash gravels (P-3, P-4) immediately above bedrock.

The lower 2 samples in oxidized outwash gravels were anomalous in silver (4,3.2 ppm), Copper (133,229 ppm) lead (53, 38 ppm) and P4 nearest bedrock - a graphitic siliceous argillite with rusty specks - ran 1200 ppm Zinc.

The second profile at 79+00W, 49+55N was situated on a steep slope beside a small creek. It did not encounter bedrock at 1.8 meters. A poorly developed AE horizon yielded low metal contents much as at site 49+35N, underlying argillite sands were moderately anomalous in Ag (1.1 ppm), strongly anomalous in copper (130 ppm) and moderately anomalous in zinc (529 ppm). The next 2 samples in relatively unoxidized silty clay were near background in the lower sample and moderately anomalous in Ag, Cu, Zn in the upper, slightly more oxidized one.

The lack of strongly anomalous values in lead suggests that the more permeable, oxidized gravels are sites for at least locally transported, and possibly hydromorphically enhanced, anomalies.

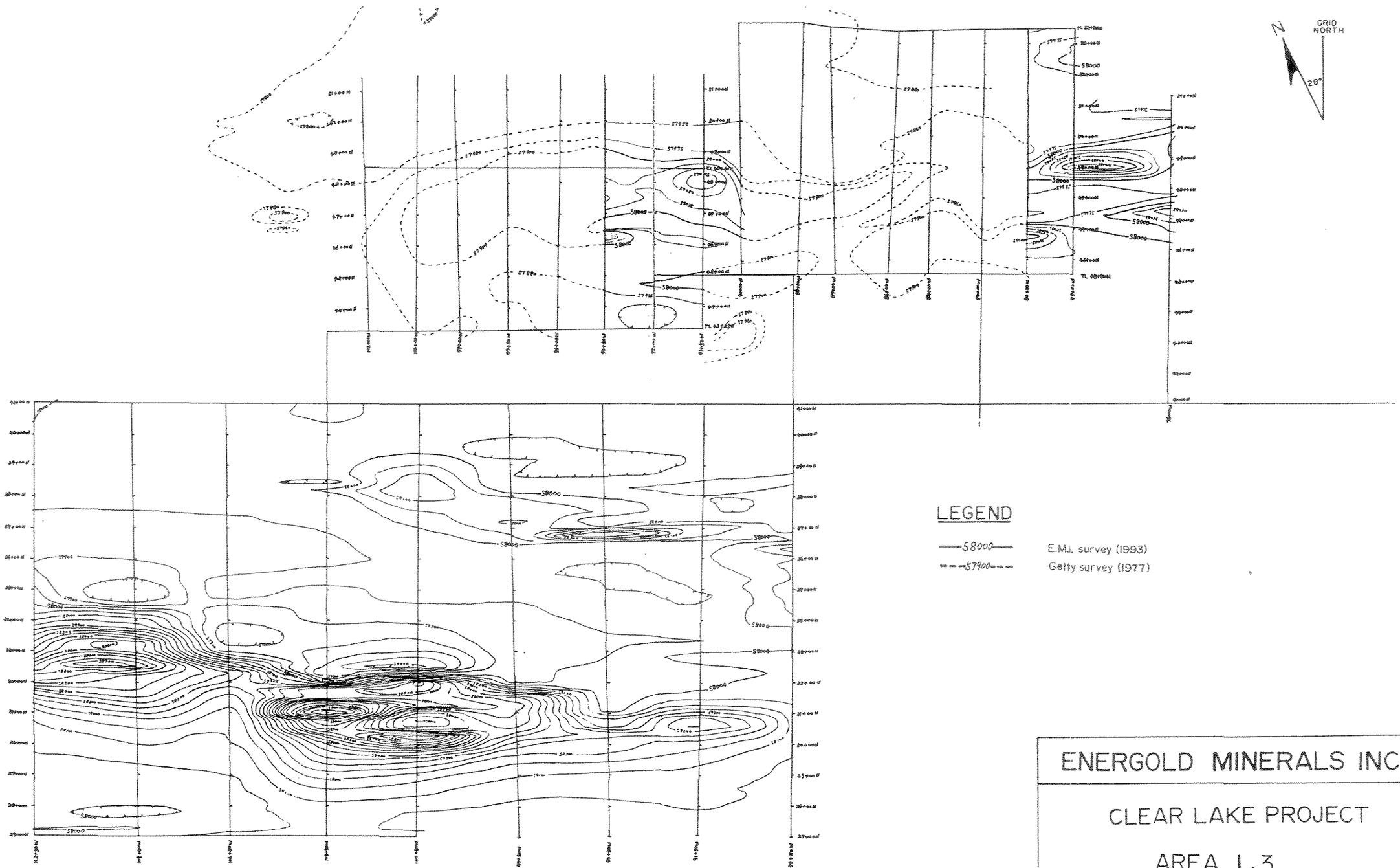
Anomalous values in zinc and copper were found at 49+50N and 50+00N on line 79+00W. The anomalies appear to correspond to the northerly quartz-graphite phyllite unit, a 100 gamma magnetic high and a broad .2mgal gravity anomaly. Other weaker geochemical anomalies which occur elsewhere on the grid appear to correspond well with the distribution of the graphitic units.

9.1.3 Geophysics

A magnetometer survey using Scintrex Omni Mark IV Unit and base station was completed over Area 1. Contoured total field magnetic data are shown in Figure 5(b).

Using 58,000 gammas as a datum level, weak (75-100) gamma peaks occur at 3 locations on the grid - in each case corresponding to a segment of a quartz-graphite phyllite unit.

Gravity survey work carried out in 1983 indicated the presence of several residual anomalies with a general northwest trend corresponding to that of the lithologic units. A gravity high with a .8mgal peak on line 92+00W appears to lie over the downdip extension of a quartz-graphite unit as does a weaker one on line 79+00W.



LEGEND

—58000— E.M.I. survey (1993)

---57900--- Getty survey (1977)

ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT

AREA 1, 3

TOTAL FIELD MAGNETICS

SCALE: 1:12500	DRAWN BY: M. Machida
DATE: Oct. 1993	FIGURE: 5b

9.1.4 Diamond Drilling

Three holes were drilled in Area 1 - DDH-93-77, 79 and 80 for a total of 778.2 meters. In each case the holes were drilled to test co-incident anomalies located on the graphitic units referred to above. Hole 93-80 was drilled underneath the showing in the creek.

Drill hole 93-77, (Figure 5(c)), located at 91+50W and 46+18N, was drilled at an azimuth of 028 degrees, a dip of -50 degrees for a total depth of 249.9 meters. It tested a .8mgal gravity anomaly, a slight magnetic high (75 gammas) and a zone of very low PLMT resistivity.

After penetrating 19.2 meters of overburden, the hole encountered variably graphitic calcareous chlorite quartz phyllite to 148.1 meters. From 148.1 meters to 204.8 meters the hole intersected quartz graphite phyllite with an average of 2%-5%, locally up to 20%, pyrrhotite and pyrite. From 204.8 to 233.8 meters it hit siliceous quartz graphite phyllite, interbedded graphitic limestone or calcareous graphite phyllite to the end of the hole at 249.9 meters.

The sulphides which extend over approximately 90 meters in the hole and consist of variable amounts of magnetic pyrrhotite with locally abundant graphite adequately explain the geophysical signatures.

Drill hole 93-79, located at 79+00W, 47+58N, was drilled at an azimuth of 028 degrees with a dip of 60 degrees to a depth of 283.5 meters to test a strong zinc (1169 ppm) and copper (306 ppm) soil anomaly in an area of low apparent resistivity, a broad .2mgal gravity anomaly and a 120 gamma magnetic high (Figure 5(d)).

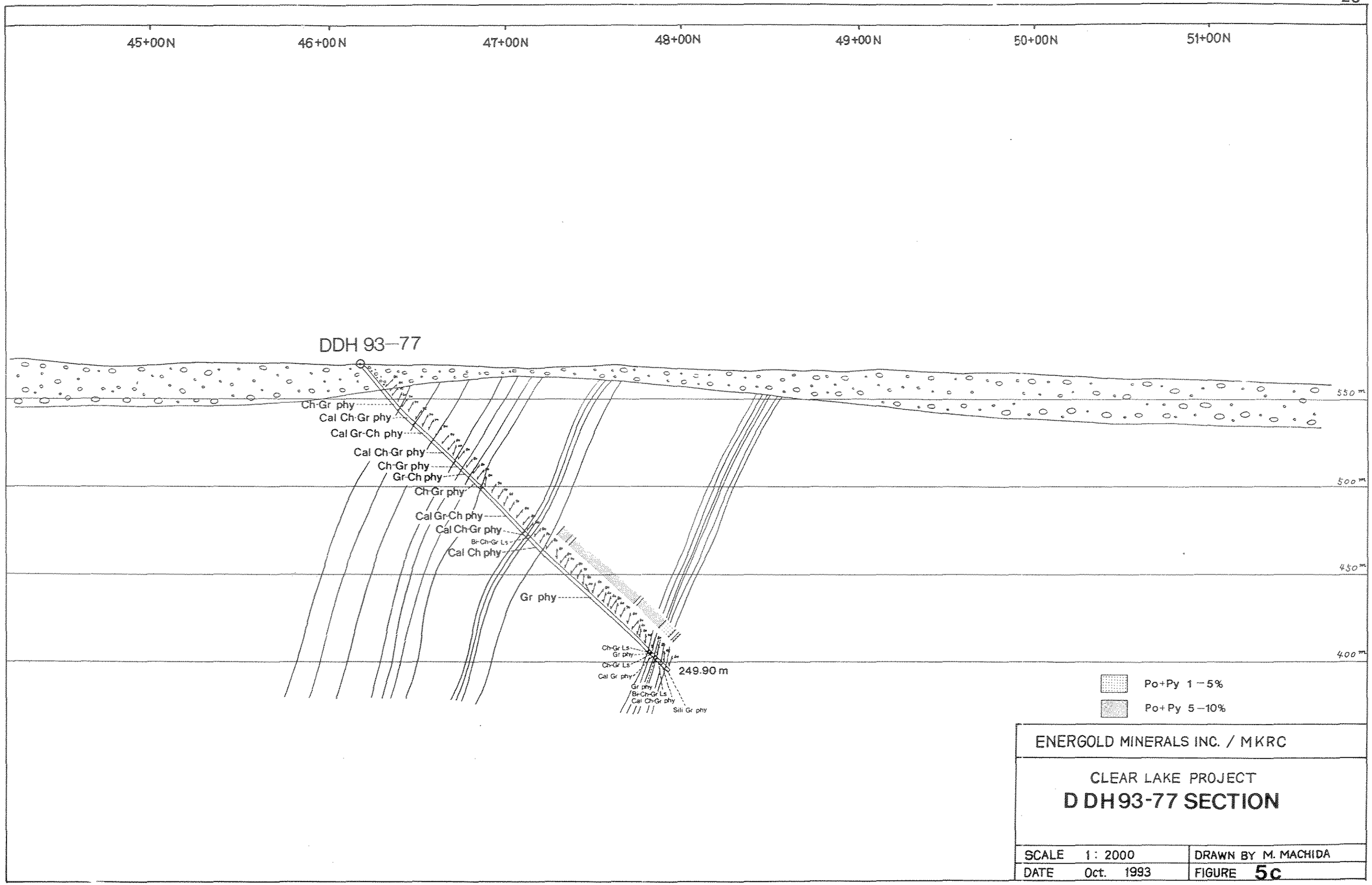
After 14.9 meters of overburden, the hole intercepted variably calcareous or siliceous graphite quartz phyllite with minor pyrite (less than 1%) to a depth of 139.9 meters. From 139.9 meters to the bottom of the hole at 283.5 meters the rocks are variably graphitic, limy or siliceous and contain between 1% and 7% pyrite and pyrrhotite. In several intercepts pyrrhotite is more abundant than pyrite and combined sulphides attain 5% to 7% over several meters. The intervals 184.7 to 195.7, 207.3 to 214.9 and 226.2 to 257.9 meters contain minor amounts of brown biotite.

Zones of strong shearing, generally accompanied by an increase in graphite, were noted at 68.6 to 83.2 meters and near the end of the hole.

A penetrative foliation which is also prominent in many outcrops, displays angles to core axis ranging from 50 to less than 10 degrees. On average the foliation and minor lithologic contacts are intercepted at approximately 30 to

LEGEND

Minerals :	Gr	:Graphite
	Ch	:Chlorite
	Bi	:Biotite
	Qtz	:Quartz
	Ep	:Epidote
	Po	:Pyrrhotite
	Py	:Pyrite
	Mt	:Magnetite
Rocks :	phy	:Phyllite
	Ls	:Limestone
Alteration :	Cal	:Calcareous
	Sili	:Siliceous

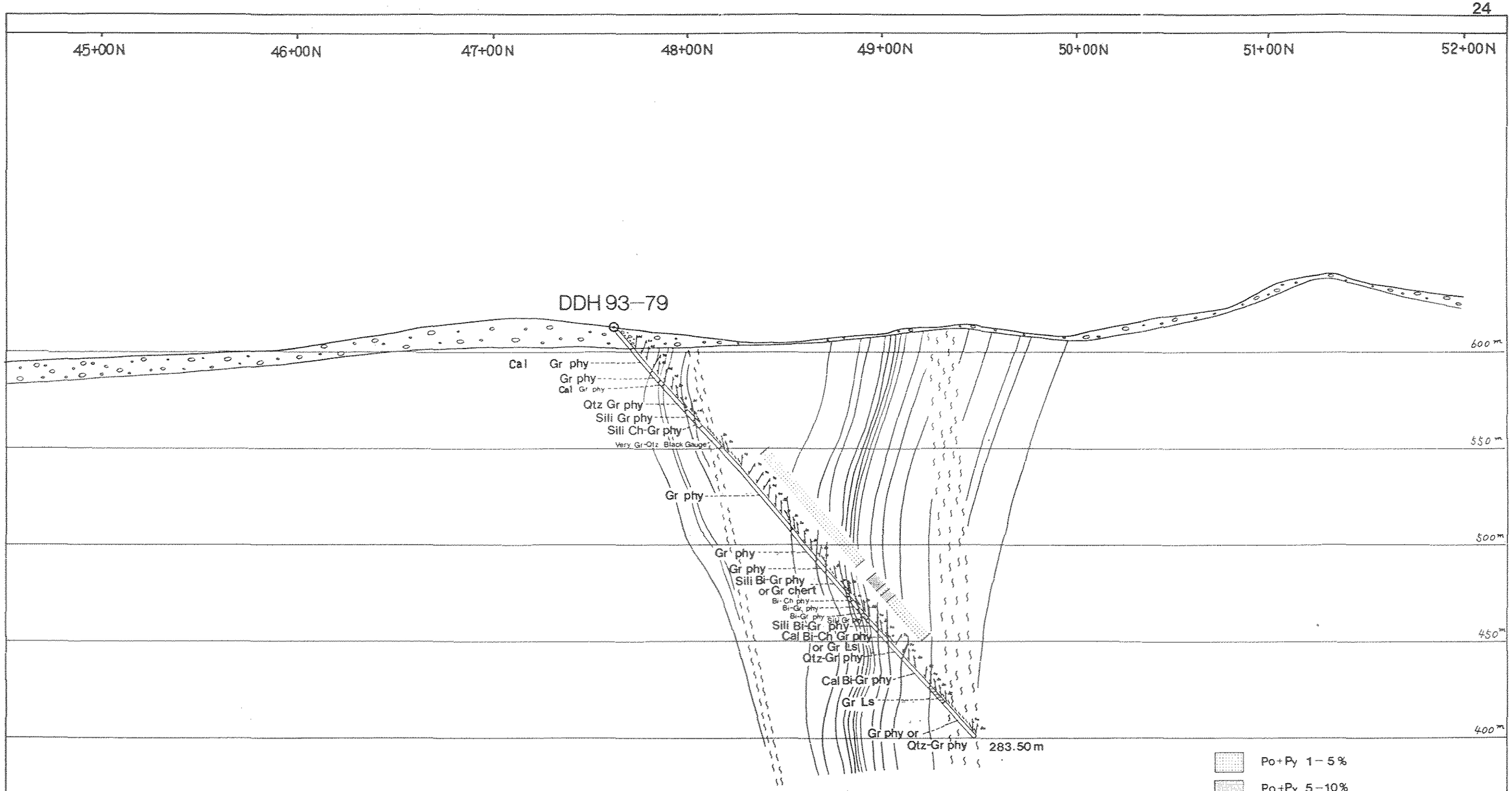


ENERGOLD MINERALS INC. / MKRC

CLEAR LAKE PROJECT

DDH93-77 SECTION

SCALE 1 : 2000	DRAWN BY M. MACHIDA
DATE Oct. 1993	FIGURE 5c

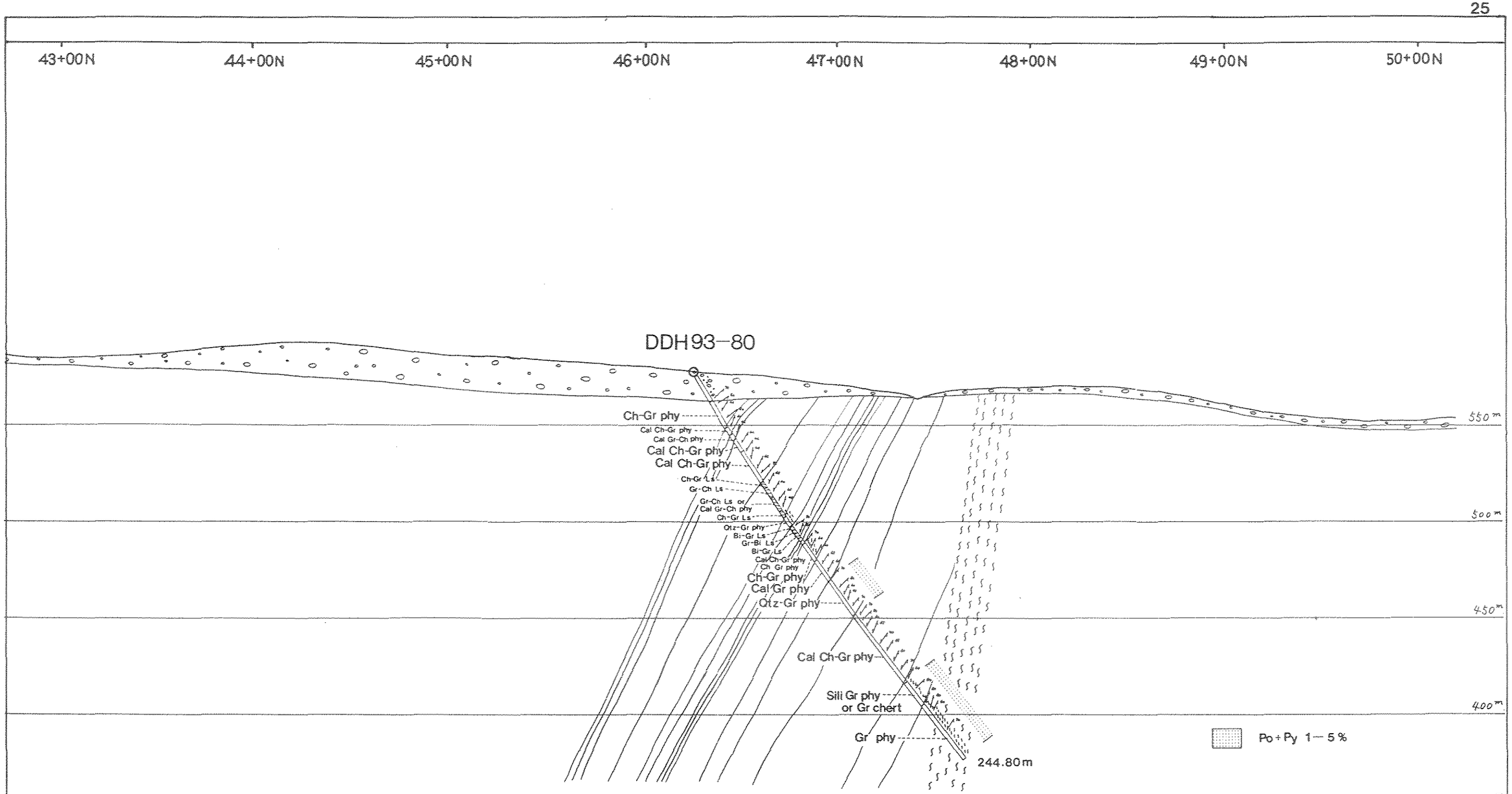


ENERGOLD MINERALS INC. / MKRC

CLEAR LAKE PROJECT

D DH 93-79 SECTION

SCALE 1 : 2000	DRAWN BY M. MACHIDA
DATE Oct. 1993	FIGURE 5d



ENERGOLD MINERALS INC. / MKRC

CLEAR LAKE PROJECT

D DH93-80 SECTION

SCALE 1:2000	DRAWN BY M. MACHIDA
DATE Oct. 1993	FIGURE 5e

50 degrees to core axis, indicating the foliation and bedding are essentially parallel and dip steeply to the south.

Samples taken from the core at 10 meter intervals returned only slightly elevated values in copper, zinc, barium and mercury from the more sulphide-rich sections of graphitic argillite (Appendix A).

The magnetic anomaly corresponds closely to pyrrhotite content in the core, the low apparent resistivities probably reflect the graphite content, the residual gravity anomaly may be caused by the sulphide content but it is a broad, shallow relatively weak feature which reflects either a low contrast unit, or a source which lies below the current drilling.

Hole 93-80, (Figure 5(e)), located at 86+35W, 46+25N was drilled for a length of 224.8 meters at -60 degrees. The hole was drilled to test the mineralized horizon about 100 meters below the showing.

The hole intersected calcareous chlorite-graphite-quartz phyllite for the initial 100 meters followed by 25 meters of quartz-graphite phyllite with pyrite, pyrrhotite and locally, minor disseminations and veinlets of sphalerite and galena. The last 125 meters were calcareous chlorite-graphite quartz phyllite.

The section of graphitic phyllite with sulphides was intercepted 100 meters downdip of the surface showing and is similar to it. Mineralization is scattered and weak and does not approach economic quantities.

9.2 AREA 3

The grid in Area 3 was extended by 1,200 meters to the east from line 100+50W to 88+50W to cover possible extensions of a gravity, PLMT and magnetic anomaly.

9.2.1 Geology

Northwesterly-trending lithologies which have been assigned to the Mt. Mye and Menzie Creek Formations underlie the grid. From north to south they comprise calcareous graphitic phyllite and chlorite-sericite-biotite phyllite assigned to the Mt. Mye Formation and green chloritic mafic volcanic tuff, a greywacke-mudstone clastic sedimentary unit followed by another chloritic tuff unit assigned to the Menzie Creek Formation (Figure 6).

Approx. claim boundary

484 000 E

685 000 E

486 000 E

L 112+50 W

L 109+50 W

L 106+50 W

L 103+50 W

L 100+50 W

L 97+50 W

L 94+50 W

L 91+50 W

L 88+50 W

TL 41+00 N

40+00 N

35+00 N

30+00 N

TL 27+00 N

70 000 N

69 000 N

POW GRID

83-17-05

83-17-04

93-78

78-4

550

600

650

700

662

668

728

729

593

GRID NORTH

28°

LEGEND

KECHIKA GROUP

MENZIE CK. FORMATION

Ordovician

- CO_{4c} TUFF BRECCIA
- CO_{4b} TUFF
- CO_{4a} SEDIMENTARY ROCKS
  Mudstone, Siltstone, Chert, Greywacke, Limestone

VANGORDA FORMATION

- CO_{3c} LIMESTONE
- CO_{3b} METABASALT

MT. MYE FORMATION

- CO_{2e} GRAPHITE QUARTZ PHYLLITE
  non-calcareous with sulphides
- CO_{2d} GRAPHITE RICH PHYLLITE
  graphite > chlorite
- CO_{2b} CHLORITE RICH PHYLLITE
  chlorite > graphite

RABBITKETTLE FORMATION

- CO_1 ARENITE
  dolomitic, calcareous with silty banded limestone and calc-silicate

Cambrian

- geologic boundary
- fault
- limit of outcrop exposure
- bedding, foliation
- diamond drill hole

0 100 200 300 400 500 metres

ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT

AREA 3

GEOLOGY,
DIAMOND DRILL HOLES

SCALE: 1:10000	DRAWN BY: R. Zuran
DATE: Oct., 1993	FIGURE: 6

The lithologies are strongly foliated; both the foliation and bedding where recognized strike 080-108 degrees and dip steeply to moderately to the south.

9.2.2 Geochemistry

To assist in definition of magnetic and gravity anomalies, 65 soil samples were collected at 50 meter intervals on 3 lines using an auger to achieve penetration of up to 2 meters (Figure 6(a)).

Area 3 is characterized by rolling topography which drains to the northwest into the MacMillan River; persistent till and local outwash deposits and only limited exposures of limy chlorite phyllite mainly in the southeastern part of the grid.

Soil samples returned no silver anomalies, scattered weakly anomalous copper values (up to 62 ppm) with one strong copper anomaly (280 ppm) at 100+50W, 38+00N. Lead values were all below 20 ppm except for one probably anomalous value of 65 ppm at 97+50W, 38+00N. Zinc returned six possibly anomalous values between 120 ppm to a high of 139 ppm zinc and a probably anomalous value of 161 ppm zinc at 100+50W, 41+00N. Mercury gave low values with only one sample at the possibly anomalous threshold at 0.143 ppm mercury co-incident with the high zinc value at 100+50W, 42+00N.

The scattered nature of the results and limited apparent correlation with geophysical features suggests that glacial dispersion is effectively masking bedrock expression in Area 3.

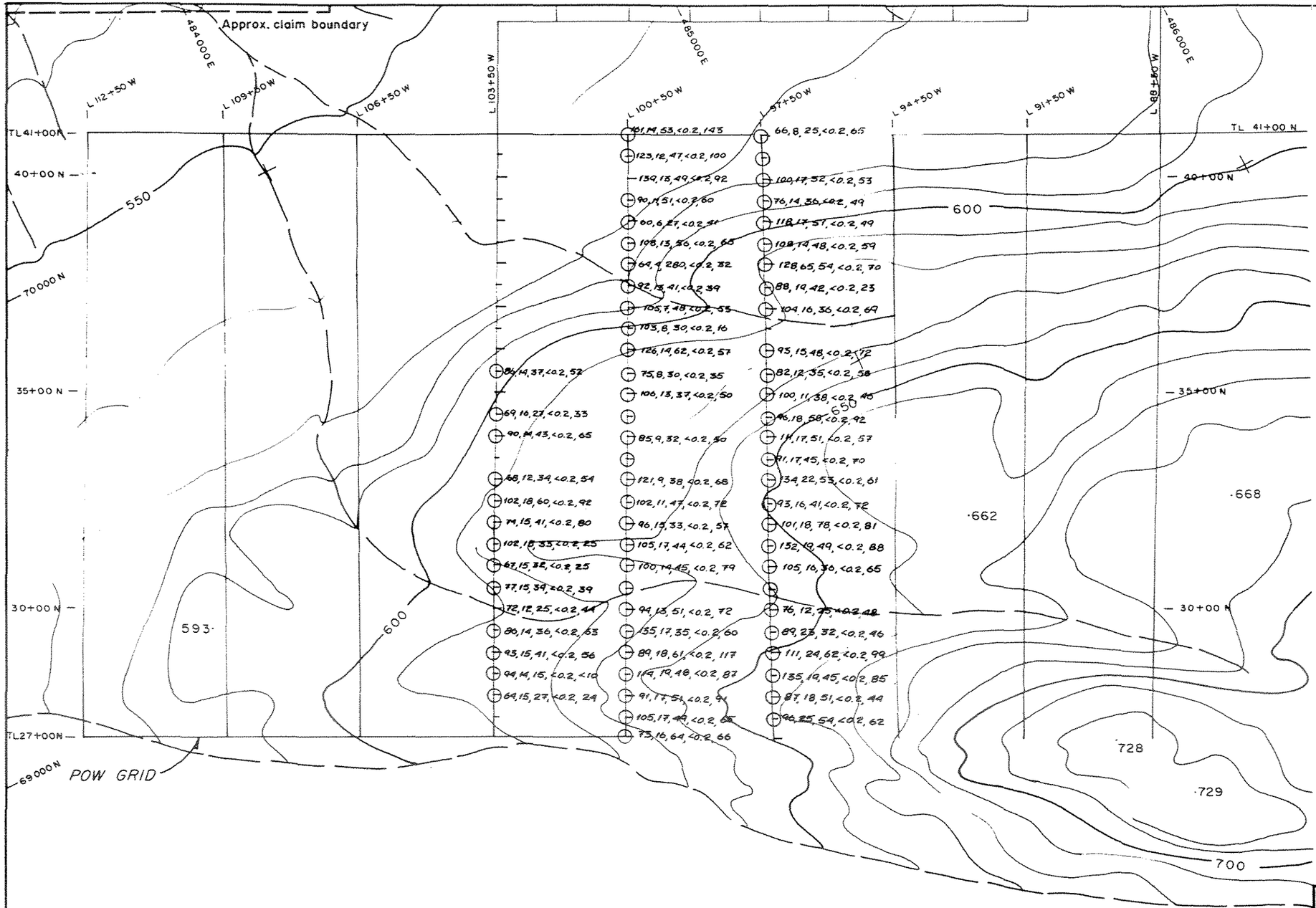
9.2.3 Geophysics

To enhance the existing gravity and PLMT data, a magnetometer survey was carried out on lines 112+50W to 88+50W.

The magnetic contrast for the grid area is relatively high compared to elsewhere on the Clear Lake property; the range of total field values is between 57,700 and 59,200 gammas. A datum level of 58,000 gammas was selected for contouring (Figure 5(b)).

The magnetic data for Area 3 shows a strong linear high trending from 88+50W, 30+50N to 112+50W, 32+50N. The high becomes a complex feature with several peaks at line 100+50W. It is separated from a less pronounced high which extends from 88+50W, 37+00N to 100+50W, 39+00N.

The latter corresponds closely with a .8 mgal gravity anomaly at 100+50W, 38+50N outlined by previous surveys.



GRID NORTH

28°

LEGEND

161,14,55,<0.2,145 — Auger soil sample, results listed as: Zn ppm, Pb ppm, Cu ppm, Ag ppm, Hg ppb

ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT

AREA 3

AUGER SOIL GEOCHEMISTRY

SCALE: 1:10000	DRAWN BY: R. Zuran
DATE: Aug. 1993	FIGURE: 6a

35+00N 36+00N 37+00N 38+00N 39+00N 40+00N 41+00N 42+00N

600 m

DDH 93–78

Ch-Gr Ls
Cal Ch phy
Gr-Qtz Ls
Cal Gr phy
Ch phy
Cal Gr phy
Cal Gr-Ch phy
Cal Ch phy
Cal Ch-Gr phy
Cal Ch phy
Gr phy Fault Gauge

Mt-Ep-Ca-Ch
Metabasalt

224.94 m

550 m

500 m

450 m

ENERGOLD MINERALS INC. / MKRC

CLEAR LAKE PROJECT

D DH 93–78 SECTION

SCALE 1 : 2000	DRAWN BY M. MACHIDA
DATE Oct. 1993	FIGURE 6b

9.2.4 Diamond Drilling

DDH 93-78 was drilled at 100+50W, 37+37N to test the .8mgal. gravity anomaly and the 100 gamma magnetic high for massive sulphides in an area underlain by permissive lithologies. The hole was drilled on an azimuth of 028 degrees at -60 degrees for a total depth of 224.9 meters.

After penetrating 10.45 meters of overburden, the hole hit chlorite graphite phyllite limestone and sheared chloritic, locally graphitic phyllite. At 117.04 meters to the end of the hole, it intersected a magnetite bearing meta-basalt. The core from the meta-basalt is moderately magnetic and locally contains abundant magnetite.

It appears likely that the meta-basalt unit is the causative body for both the gravity and the magnetic anomaly (Figure 6(b)).

9.3 AREA 4

Four lines totalling 5,000 meters were recut and picketted to be used as control for the geophysical and geochemical surveys as well as for geological mapping.

9.3.1 Geology

Area 4 is underlain by calcareous chlorite phyllites of the Kechika Group which are variably graphitic, locally contain biotite and minor amounts of pyrite, pyrrhotite with trace amounts of chalcopyrite. Beds strike north west and dip steeply south. Minor limestone interbeds occur infrequently.

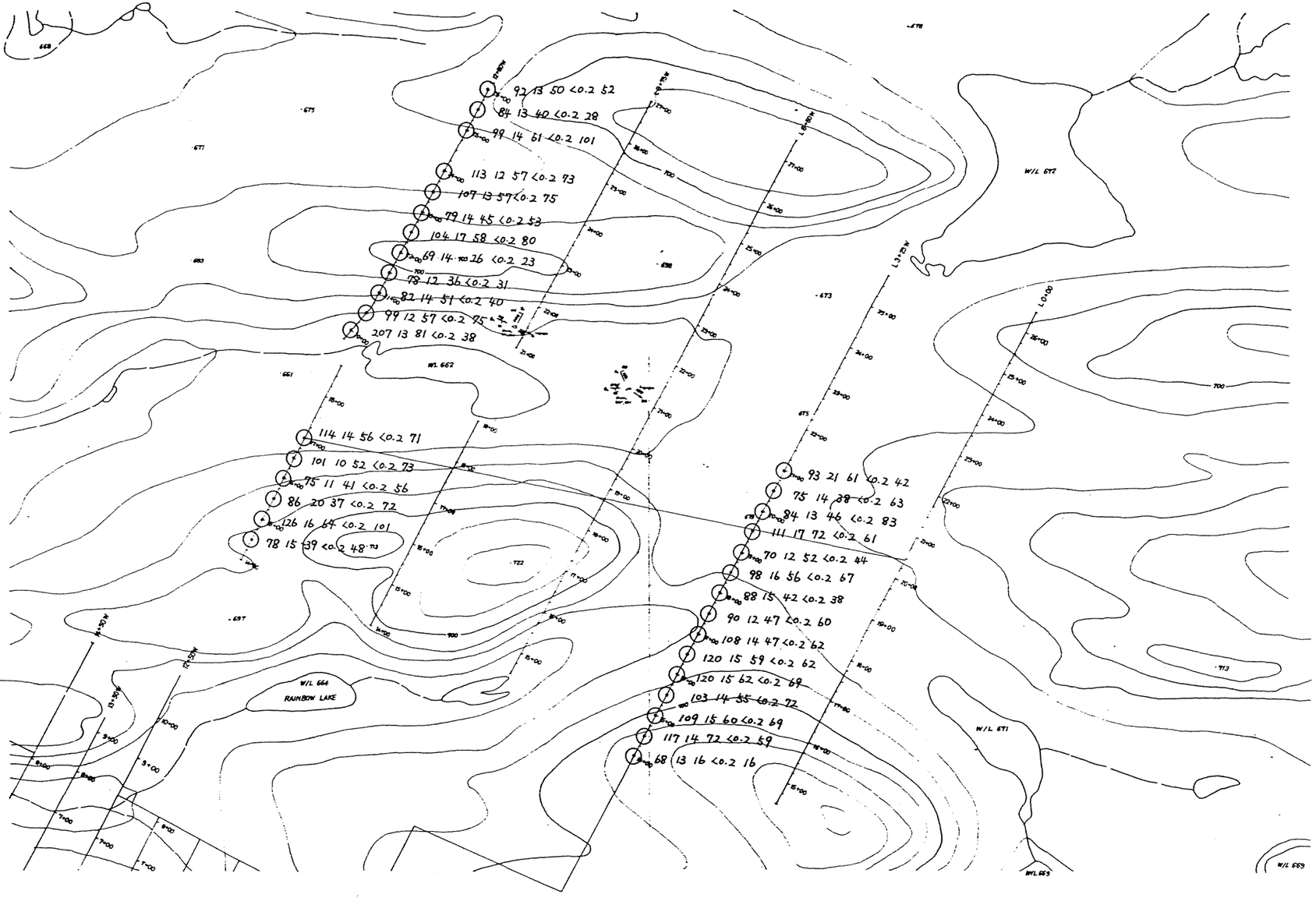
9.3.2 Geochemistry

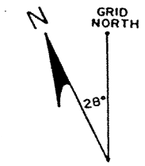
33 soil samples were collected on lines 12+80W and 3+25W to augment earlier sampling in the area (Figure 7). Sample spacing of 50 meters was used where the overlying swamp and/or ash horizon could be penetrated by auger with an extension to a total depth of 2 meters.

As is the case elsewhere on the property, Area 4 is characterized by rolling topography with moderate to low relief and interrupted drainages. Glacial till deposits up to 30 meters thick cover most of the area. Outcrops are rare.

Of the 33 samples collected none were above threshold values in silver, lead or mercury; 8 were at or above 60 ppm

copper and 4 above 120 ppm zinc. A sample at 12+80W, 20+00N gave the highest values at 81 ppm copper and 207 ppm zinc.





LEGEND

⊙ 68,12,24,<0.2,16 — Auger soil sample. Results list as:

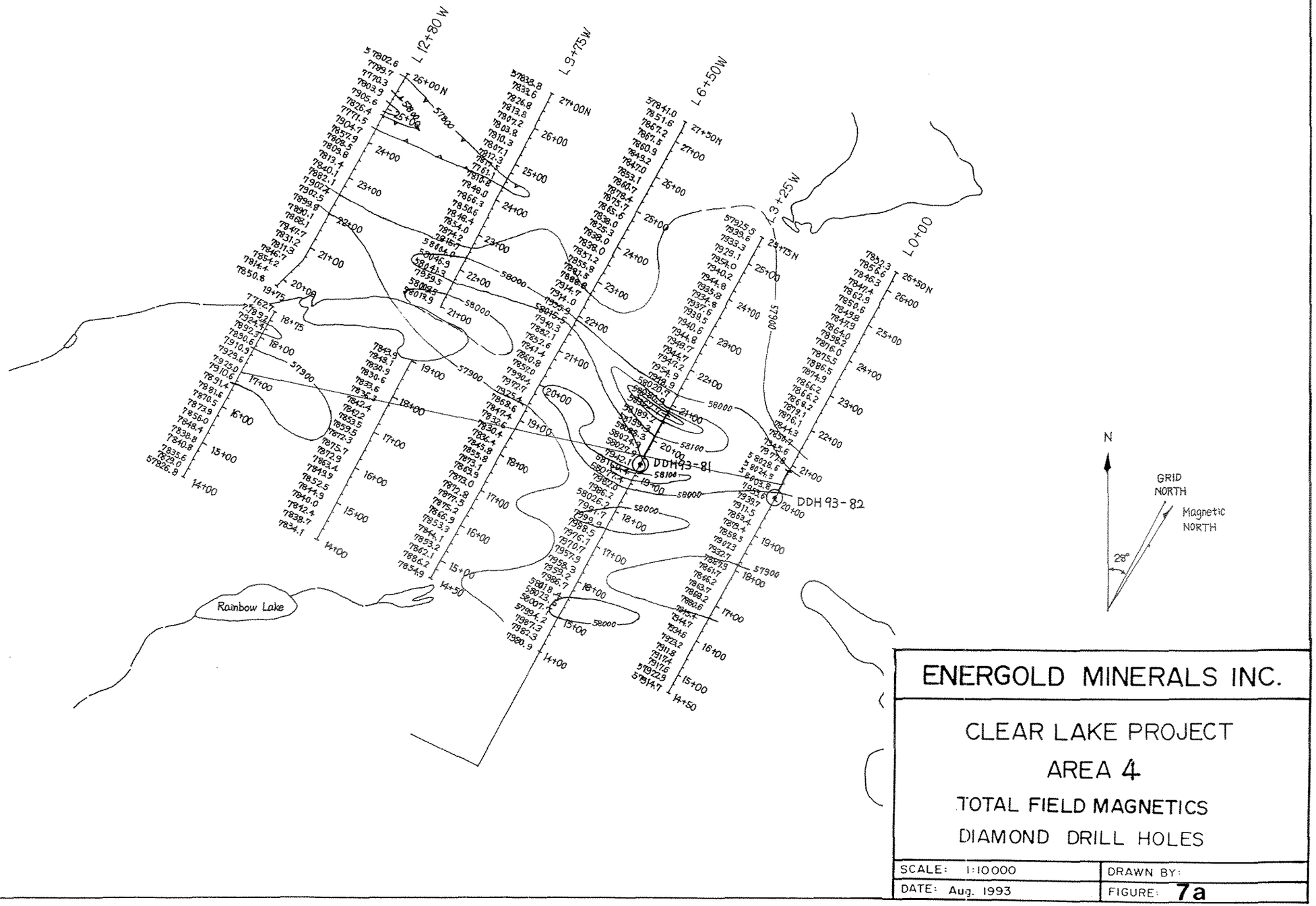
Zn(ppm), Pb(ppm), Cu(ppm), Ag(ppm), Hg(ppb).

ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT
AREA 4

AUGER SOIL GEOCHEMISTRY

SCALE: 1:10000	DRAWN BY:
DATE: Aug. 1993	FIGURE: 7



ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT

AREA 4

TOTAL FIELD MAGNETICS

DIAMOND DRILL HOLES

SCALE: 1:10000	DRAWN BY:
DATE: Aug. 1993	FIGURE: 7a

17+00N 18+00N 19+00N 20+00N 21+00N 22+00N 23+00N 24+00N

DDH 93–81

650 m

600 m

550 m

500 m

Cal Gr-Ch phy
Cal sili Gr-Ch phy
Cal Gr-Ch phy
Cal Gr-Ch phy
Cal Ch phy
Cal Ch-Gr phy
Cal Gr phy
Gr Ls
Cal Gr phy
Cal Ch-Bi-Gr phy
Cal Bi-Ch-Gr phy
Cal Gr-Ch phy
Cal Ch-Gr phy
Qtz-cal vein
Cal Ch-Gr phy
Gr-Ch phy
Ch-Gr-Po-Qtz vein
Gr-Ch phy

214.88 m

Po+Py 1–5%

Po+Py 5–10%

ENERGOLD MINERALS INC. / MKRC

CLEAR LAKE PROJECT

D DH93-81 SECTION

SCALE 1: 2000	DRAWN BY M. MACHIDA
DATE Oct. 1993	FIGURE 7b

17+00N 18+00N 19+00N 20+00N 21+00N 22+00N 23+00N 24+00N

DDH 93—82

Sili rock
Cal Ch Gr phy
Sili rock
Ch Gr Ls
Cal Ch Gr phy
Cal Gr Ch phy
Cal Ch Gr phy
Qtz vein
Cal Bi Ch Gr phy
Cal Ch Gr phy
146.00 m

650 m
600 m
550 m

Po+Py 1—5%
Po+P 5—10%

ENERGOLD MINERALS INC. / MKRC

CLEAR LAKE PROJECT

DDH93-82 SECTION

SCALE 1 : 2000	DRAWN BY M. MACHIDA
DATE Oct. 1993	FIGURE 7c

9.3.3 Geophysics

2.47 kilometers of gravity and 7.175 kilometers of magnetic survey were completed on the recut grid (Figure 7(a)) to confirm and better define a previously identified gravity and 1992 PLMT anomaly as a drill target.

Magnetic profiles on line 0+00W and 3+25W show broad, rather weak magnetic features with a 200 gamma high at 20+50N on line 3+25W in otherwise relatively flat magnetics.

PLMT surveys carried out in 1992 show a corresponding break in the apparent resistivity data from 1,000 ohm-meters to the south to 100 ohm-meters to the north.

9.3.4 Diamond Drilling

Two holes totalling 360.9 meters were drilled in Area 4 to test a combined magnetic and PLMT feature on lines 0+00 and 3+25W.

Hole 93-81, on line 3+25W at 19+33N was drilled at an angle of -50 degrees on an azimuth of 028 degrees for a total depth of 214.9 meters (Figure 7(b)).

The hole intersected minor limestone beds in locally graphitic calcareous chlorite phyllites with pyrrhotite and pyrite but no zinc.

Hole 93-82 on line 0+00 at 20+15N was drilled at an angle of -60 degrees at an azimuth of 028 degrees to a depth of 146.0 meters (Figure 7(c)).

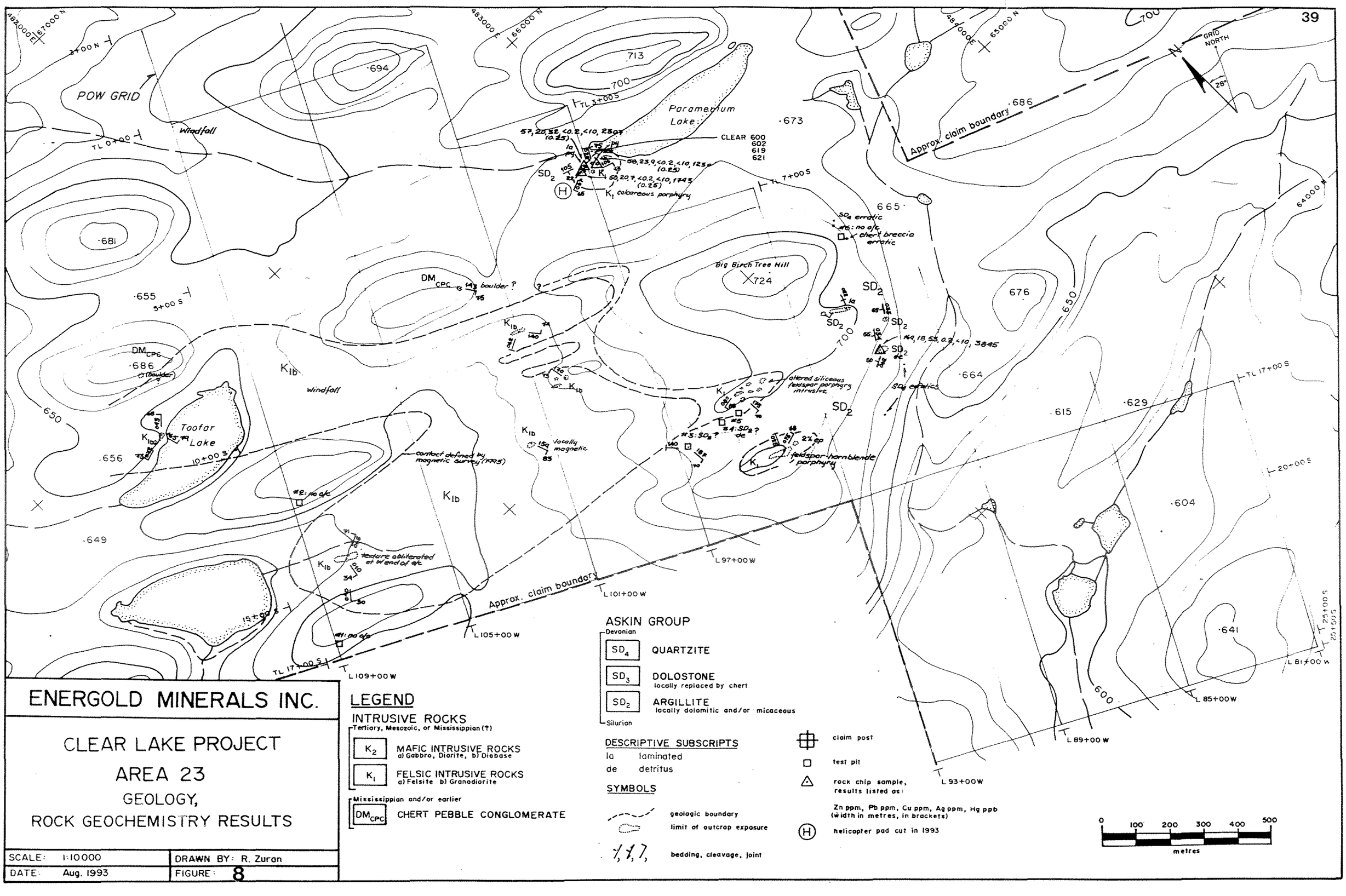
After 20 meters of overburden the hole entered calcareous chlorite phyllite with minor limestone and locally graphite-rich chlorite phyllite. Disseminated pyrrhotite, pyrite, locally up to 5% over short intervals, and trace chalcopyrite occur throughout much of the hole.

9.4 AREA 23

A total of 17.75 km. of line were cut and picketed in Area 23 to serve as control for gravity and magnetic surveys, soil sampling and geological mapping.

9.4.1 Geology

The eastern portion of Area 23 is underlain by argillites, chert-breccia conglomerate and their hornfelsed equivalents and the western part by a quartz diorite intrusion composed of a least 2 phases (Figure 8). Outcrops are relatively rare comprising about 3% of the area.



ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT
AREA 23
GEOLOGY,
ROCK GEOCHEMISTRY RESULTS

SCALE: 1:10000	DRAWN BY: R. Zuran
DATE: Aug. 1993	FIGURE: 8

LEGEND

INTRUSIVE ROCKS

Tertiary, Mesozoic, or Mississippian (?)

- K_2 — MAFIC INTRUSIVE ROCKS a) Gabbro, Diorite, b) Diabase
- K_1 — FELSIC INTRUSIVE ROCKS a) Felsite b) Granodiorite

Mississippian and/or earlier

- DM_{CPC} — CHERT PEBBLE CONGLOMERATE

ASKIN GROUP

Devonian

- SD_4 — QUARTZITE
- SD_3 — DOLOSTONE locally replaced by chert
- SD_2 — ARGILLITE locally dolomitic and/or micaceous

Silurian

DESCRIPTIVE SUBSCRIPTS

- la laminated
- de detritus

SYMBOLS

- geologic boundary
- limit of outcrop exposure
- bedding, cleavage, joint
- claim post
- test pit
- rock chip sample, results listed as: Zn ppm, Pb ppm, Cu ppm, Ag ppm, Hg ppb (width in metres, in brackets)
- (H) helicopter pad cut in 1993

0 100 200 300 400 500 metres

Bedding in the argillite strikes north-northeast and dips steeply to the northwest; northeast of the intrusion bedding strikes east with shallow dips to the south. A northeast striking moderately northwest dipping axial plane cleavage was observed in argillite outcrops.

Near the campsite at 97+00W, 5+00S trace amounts of disseminated pyrite were found in hornfelsed argillites rocks near the intrusive contact. A feldspar porphyry phase of the intrusion near 94+50W, 15+00S contains 2% epidote in 1 mm. disseminations.

9.4.2 Geochemistry

86 soil samples were collected at 50 meter spacing on lines 105+00W, 97+00W and 93+00W using an auger. 4 rock chip samples were taken from argillite and the intrusion. 6 stream sediment samples were also taken.

Three lines, 105+00W, 97+00W and 93+00W were sampled at 50 meter intervals for a total of 86 soil samples as well as 4 rock chips and 5 stream silt samples from Area 23.

Soil samples were collected using an auger which, with an extension could penetrate up to 2 meters of depth.

Sampling and analytical procedures are described in Appendix D.

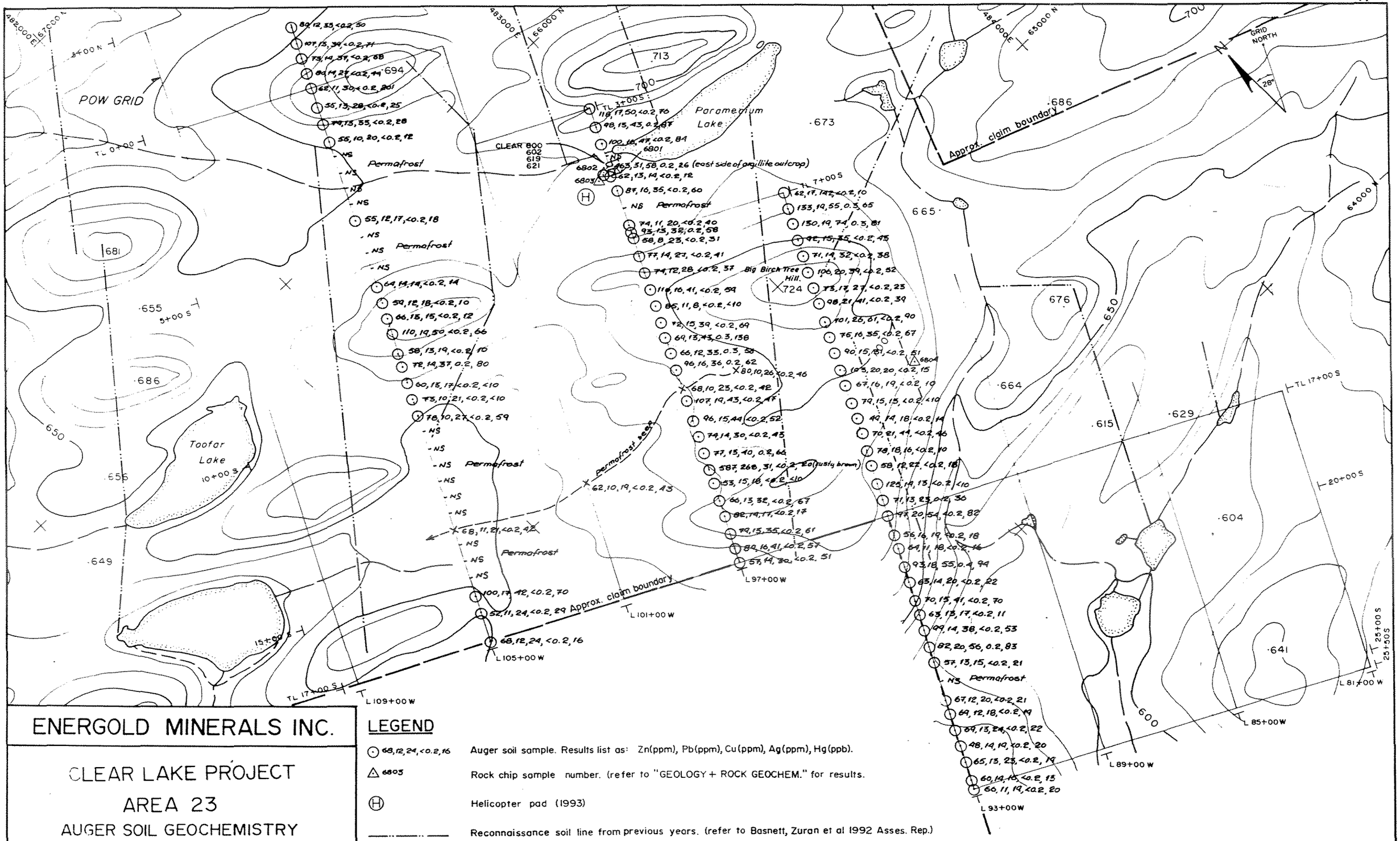
Area 23 is characterized by interrupted drainages, swamps and ponds in hilly, glaciated terrain with sparse outcrops and an extensive cover of glacial till and outwash deposits. Relief is low, in the order of 50 meters. Patchy permafrost occurs under north facing slopes with a thick moss cover and stunted black spruce. Jackpine growth is common on dry, previously burned areas or on the hilltops where sandy outwash or outcrops are found.

Sixteen sites on line 105+00W could not be sampled because they were in mossy valley bottoms with permafrost immediately below the moss (Figure 8(a)).

Of the 86 soil samples only a few were anomalous in one or more metals; none were above the .5 ppm threshold value in silver; copper was most frequently above threshold with 22 samples; Zn with 5, lead with 2 and mercury with only one.

The highest values in copper at 143 ppm and 74 ppm occur at 93+00W, 7+00S and 8+00S, respectively; the latter is also just at threshold value in zinc (130 ppm).

Only two samples were above threshold in lead, both were highly anomalous in zinc as well. Sample 97+00W, 14+00S ran 268 ppm lead and 587 ppm lead; sample 97+04W,



ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT

AREA 23

AUGER SOIL GEOCHEMISTRY

ROCK SAMPLE LOCATION NUMBERS

SCALE: 1:10000	DRAWN BY: R. Zuran
DATE: [illegible] 1993	FIGURE: 82

LEGEND

⊙ 68,12,24,<0.2,16	Auger soil sample. Results list as: Zn(ppm), Pb(ppm), Cu(ppm), Ag(ppm), Hg(ppb).
△ 6803	Rock chip sample number. (refer to "GEOLOGY + ROCK GEOCHEM." for results.
Ⓗ	Helicopter pad (1993)
——·——·——	Reconnaissance soil line from previous years. (refer to Basnett, Zuran et al 1992 Asses. Rep.)
×	Stream sediment sample. Results listed as: Zn (ppm), Pb (ppm), Cu (ppm), Ag (ppm), Hg (ppm).
⊞	Claim post

4+90S ran 31 ppm lead and 463 ppm zinc. The sample was taken near another soil sample, 97+00W,5+00S, which was low in all metals analyzed for. Three rock chips taken from the outcrop nearby were also not anomalous.

It appears likely that both samples represent erratic glacial dispersion from a source to the east-northeast.

9.4.3 Geophysics

A magnetometer survey of 9.7 kilometers using the established grid lines as control was carried out in an attempt to better define the geology in the area.

The magnetic data was contoured at 100 gamma intervals using 57,000 gammas as the datum (Figure 8(b)). Several features are readily identifiable in the data.

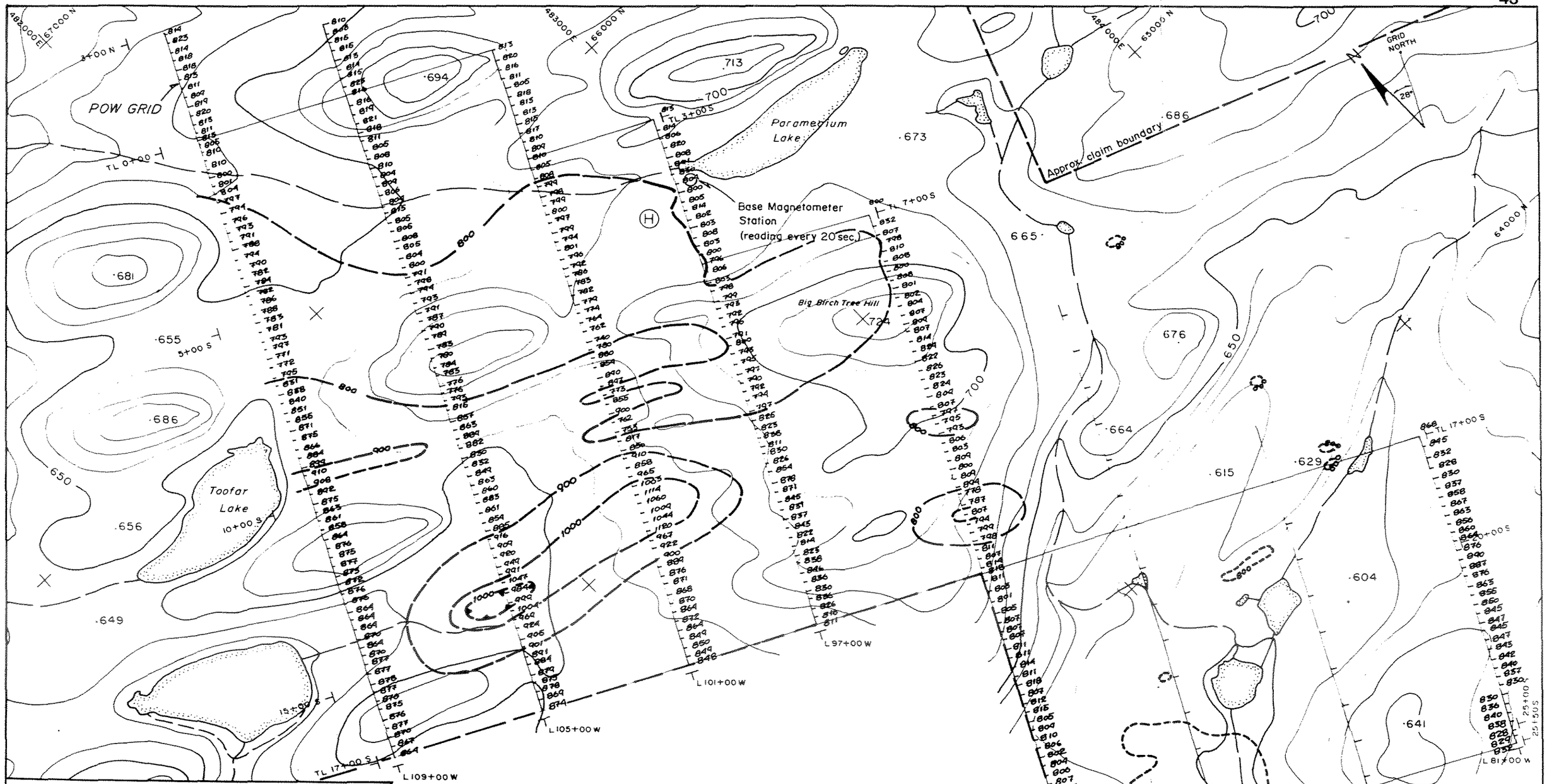
The intrusion is slightly more magnetic than the surrounding sediments. The intrusive contact is roughly defined by the 880 gamma contour and appears to be complexly interfingered with hornfelsed sediments to the east and dips moderately to the south. It remains open to the west.

A 12.15 km. gravity survey was completed by Peter E. Walcott & Associates on the Area 23 grid using a Sodin Prospector 200-T gravimeter and a theodolite and EDM unit for survey control to an accuracy of plus/minus .01 mgals. and .1 meters vertical and .3 meters horizontal.

The Bouger gravity data was reduced to residual gravity values using the appropriate terrain corrections and are shown in profile form in Appendix C.

An inspection of the gravity profiles reveals no residual anomalies which warrant further work.

Neither the magnetic data nor the gravity results indicated the presence of a potential target.



ENERGOLD MINERALS INC.

CLEAR LAKE PROJECT
AREA 23
TOTAL FIELD MAGNETICS

SCALE: 1:10000	DRAWN BY: R. Zuran
DATE: Oct., 1993	FIGURE: 8b

LEGEND

— 800 — E.M.I. survey (1993)

---800--- Getty survey (1983)

Contour Interval: 100 gammas

Base datum level: 57000 gammas

⊙ Base magnetometer station

Ⓗ Helicopter pad (cut in 1993)

survey done with base & field "Omni 4 - EDA" magnetometers

10.0 REFERENCES

Basnett, R., Zuran, R. J, et al. March 01-August 29, 1992: Geological, Physical, Geophysical, Geochemical and Diamond Drilling Assessment Report on the Clear Lake Property; 36p

Basnett, R.,Zuran, R.J., March 9-September 7, 1991: Geological, Physical, Geophysical, Geochemical, and Diamond Drilling Assessment Report on the Clear Lake Property; 52p

Basnett, R., May 25-June 5, 1990: Geochemical and Geological Assessment Report on the Clear Lake Property; 32p.

Basnett, R July 5-19, October 2-8, 1990: Geochemical and Geological Assessment Report on the Clear Lake Property; 45p.

Campbell, R.B., 1967: Geology of Glenlyon Map-Area, Yukon Territory (105 L); Geological Survey of Canada, Memoir 52.

Gabrielse, H., Templeman-Kluit, D.J., Blusson, S.L., and Campbell, R.B., 1980: MacMillan River Map 1398A; Geological Survey of Canada.

Grapes, K.J., 1987, Lithological and Textural Study of the Clear Lake Fe-Zn-Pb-Ag-Ba Massive Sulphide Deposit, Yukon Territory, Canada; Unpublished M.Sc. thesis; Carleton University; 331p.

11.0 STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS:

I, RICHARD BASNETT, hereby certify that:

1. I am a graduate of the University of British Columbia, having obtained a B.Sc. in Geology in 1975.

2. I have been employed as a Geologist in the mining and mineral exploration industry in Canada for 17 years.

3. I directly supervised the work in this report as Yukon Exploration Manager for Energold Minerals Inc.

Date:_____

Richard Basnett, B.Sc.,P. Geo.

STATEMENT OF QUALIFICATIONS:

I, RICK ZURAN, hereby certify that:

1. I am a graduate of the University of British Columbia, having obtained a B.Sc. in Geology in 1987.

2. I have been engaged in mineral exploration since 1977 for base metals, uranium, and gold in Northwest Territories, Saskatchewan, Labrador, British Columbia and Yukon Territory.

3. I was employed by Energold Minerals Inc. as "Geologist" at the Clear Lake Project and participated in writing this report.

Date:_____

Rick J. Zuran, B.Sc.

STATEMENT OF QUALIFICATIONS:

I, H. WALTER SELLMER, hereby certify that:

1. I am a graduate of the University of British Columbia, having obtained a B.Sc. in Honors Geology in 1964 and an M.Sc. in Honors Geology in 1966.

2. I have been continuously engaged in mineral exploration in Canada and the United States of America for the past 27 years.

3. I am a Registered Professional Geoscientist in good standing in the Province of British Columbia (Reg. # 18558).

4. I supervised the work conducted during the 1993 exploration program on the Clear Lake property in the capacity of consultant for Energold Minerals Inc. and participated in the writing and preparation of this report.

Date:_____

_____

H. W. Sellmer, P. Geol.

12.0 SUMMARY OF EXPENDITURES:

12.0 SUMMARY OF EXPENDITURES:

Field work was carried out on the Clear Lake property between June 4th and August 5th, 1993.

1.) Physical Work

A.	Line Cutting (30.2 km., June 10-26th, 1993)	$24,130.00
B.	Diamond Drilling (1,364 m., June 26-Aug 5, 1993)	$136,974.50
C.	Auger Sampling (357 samples, 10 man/days @ $350.00 June 10- Aug 1, 1993)	$5,250.00

2.) Geological, Geophysical, Geochemical

A. Geological Mapping, core logging, magnetometer

R. Basnett, P. Geol. (25 days @ $00.00/day)
A. Gomi, B.Sc. (40 days @ $350.00/day)
M. Machida, M.Sc. (40 days @ $350.00/day)
R. Zuran, B.Sc. (15 days @ $350.00/day)
$39,250.00

B. Analyses

357 geochemical soil analyses
53 core samples
17 rock chip samples
5 silt samples
$3,207.00

C. Geophysical Surveys

Gravity Survey
(14.625 km., June 21-July 8, 1993) $15,051.51

3.) Support Costs

A.	Camp Accommodation & Board	$14,083.43
	Wages, cook (75 days @ $135.00/day)	$10,125.00
B.	Helicopter & Aircraft charter	$103,947.61
C.	Radio Telephone & Couriers	$4,783.87
D.	Field Supplies	$8,872.03
E.	Sationery, Maps & Supplies	$574.00

4.) Research and Report Preparation

H. W. Sellmer, P. Geol.
(5 days @ $650.00/day)
R. Zuran, B.Sc.
(10 days @ $350.00/day)

$6,750.00

Drafting & Copying $500.00

TOTAL CREDITS AVAILABLE **$377,498.95**

MacMillan/Clear Lake JV, 1993 Exploration Program

STATEMENT OF EXPENDITURES
(based on General Ledger to August 31, 1993.)

1.)	**Diamond Drilling(1,364m)** (Contractors Invoices)		$136,974.50
	Support Costs: Aircraft Charter	$103,947.61	
	Accom. & Bd.	$14,083.43	
	Field Supplies	$8,872.03	
	Labour	$79,680.17	
	Total Support Costs	$206,585.24	
	Allocated to drilling @ 60%		$123,949.94
	All in cost of drilling		$260,924.44
	All in cost per meter of drilling ($260,924.44/1,364 meters drilled)		**$191.29**
2.)	**Line Cutting(30.2km)** (Contractors Invoices)		$24,130.00
	Support Costs: Aircraft (5hrs@$760.00)	$3,800.00	
	Supervision (5 days @ $350.00)	$1,750.00	
	Total Support Costs	$5,550.00	
	Total all in costs linecutting		$25,680.00
	All in cost per kilometer of line ($25,680.00/30.2)		**$850.33**
3.)	**Auger Sampling(356 samples)**		
	Support Costs: Labour (15 days @ $350.00)	$5,250.00	
	Aircraft (5 hours @ $760.00)	$3,800.00	
	Accom. & Bd. (15 days @ $30.00)	$525.00	
	All in cost of Auger Sampling		$9,575.00
	All in cost per sample ($9,575.00/356 samples)		**$26.90**

APPENDIX A: GEOCHEMICAL ANALYSES

Bondar Clegg
Inchcape Testing Services

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue
North Vancouver, B.C.
V7P 2R5
Tel: (604) 985-0681
Fax: (604) 985-1071

May 21, 1993

Mr. Walter Sellmer
Energold Minerals,

Fax: 681-9501

Dear Sir,

Please accept this proposal to cover your analytical requirements for 1993. We understand you expect to generate approximately 300 to 600 samples. Please note that Bondar-Clegg offers a large variety of sample preparation and analytical methods and we would be happy to offer other element combinations/analytical techniques if your needs should change.

Bondar-Clegg is pleased to offer the following analytical services:

Sample Preparation

Rock and Drill Core

1. All field material submitted will be dried if required and reduced to -10 mesh using Jaw and Cone Crushers.

2. A 250 g representative split of the -10 mesh material will be obtained using a Jones Riffle Splitter.

3. The representative split will be pulverized to -150 mesh using a ring and puck pulverizer.

4. The pulverized material will be homogenized, bagged and labelled.

5. All sample reject material will be stored for 60 days free of charge, after which Bondar-Clegg's routine storage charges will apply.

6. All sample pulps will be stored for one year free of charge, after which Bondar-Clegg's routine storage charges will apply.

Your cost for rock sample preparation/sample: $ 3.75

(+$1.75 for 4kg-
5 2kg sample.
+$.75 2-6 kg
$5.25 6-12kg-

Soil and Sediment Samples

1. All field material will be dried at 60 °C.

2. The dried sample will be screened for the -80 mesh particle fraction, unless an alternative fraction is requested.

3. The -80 mesh fraction will be homogenized, bagged and labelled.

Your cost for soil sample preparation/sample: $ 1.25

Analytical Determinations

1. Determination of the following elements using a HNO3/HCl extr.-ICP Atomic Emission Spectroscopy: As....5 ppm
   Cu....1 ppm
   Pb....2 ppm
   Zn....1 ppm
   Ag....0.2 ppm

2. Determination of Ba by X-Ray Fluorescence, detection level of 20 ppm.

This determination by X-Ray Fluorescence, is capable of generating very precise and accurate values for Ba. Multi-acid and Aqua-regia digestions may be (and usually are) incomplete for certain mineral forms

3. Determination of Hg using a HNO3/HCl extraction-Cold Vapour AAS, detection level of 0.010 ppm.

Your cost for the above package, not including sample preparation: $ 9.00

Thank you for allowing us the opportunity to quote on your analytical work and we look forward to helping you have a successful exploration season.

turnaround time. - 7 days max
Ba - up to 2 wks.

Sincerely,

Rick McCaffrey
Manager, Geochemical Department
Bondar-Clegg & Company Ltd.

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

REPORT: V93-00632.0 (COMPLETE) REFERENCE:

CLIENT: ENERGOLD MINERALS SUBMITTED BY: R. BASNETT
PROJECT: CLEAR LAKE DATE PRINTED: 6-JUL-93

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	17	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
2	Cu	Copper	17	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
3	Pb	Lead	17	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
4	Zn	Zinc	17	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
5	Hg	Mercury	17	0.010 PPM	HCL:HNO3 (3:1)	COLD VAPOR AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOIL	17	1 -80	17	DRY, SIEVE -80	17

REPORT COPIES TO: #21 - 1114 FIRST AVENUE
#1500 - 700 W. PENDER ST.

INVOICE TO: #21 - 1114 FIRST AVENUE

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

REPORT: V93-00632.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
S1 L79+00W 45+50N		<0.2	57	15	127	0.043
S1 L79+00W 46+00N		<0.2	88	12	149	0.034
S1 L79+00W 46+50N		<0.2	72	18	125	0.049
S1 L79+00W 47+00N		<0.2	97	19	169	0.025
S1 L79+00W 47+50N		0.3	156	26	410	0.066
S1 L79+00W 48+00N		<0.2	97	19	1169	0.036
S1 L79+00W 48+50N		0.4	306	24	363	0.014
S1 L79+00W 49+00N		0.4	223	37	325	0.016
S1 L79+00W 49+50N		1.3	218	22	633	0.052
S1 L79+00W 50+00N		0.4	105	26	232	0.055
S1 L79+00W 50+50N		0.2	91	15	184	0.082
S1 L79+00W 51+00N		<0.2	117	18	189	0.093
S1 L79+00W 51+50N		<0.2	60	13	114	0.059
S1 L79+00W 52+00N		<0.2	32	11	102	0.023
S1 L79+00W 52+50N		0.4	111	18	248	0.108
S1 L79+00W 53+00N		0.6	64	8	174	0.068
S1 L79+00W 53+50N		<0.2	61	18	178	0.070

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

DATE PRINTED: 6-JUL-93

REPORT: V93-00632.0 (COMPLETE) PROJECT: CLEAR LAKE PAGE 2

STANDARD NAME	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
GEO TRACE STD1(1989)		33.5	218	15	57	0.030
Number of Analyses		1	1	1	1	1
Mean Value		33.50	218.2	15.2	57.3	0.0300
Standard Deviation		-	-	-	-	-
Accepted Value		36.0	190	15	62	0.030
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010
Number of Analyses		1	1	1	1	1
Mean Value		0.10	0.5	1.0	0.5	0.0050
Standard Deviation		-	-	-	-	-
Accepted Value		0.2	1	2	1	0.010

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

REPORT: V93-00632.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
L79+00W 46+50N		<0.2	72	18	125	0.049
Duplicate		<0.2	56	12	103	0.044

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

REPORT: V93-00631.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
S1 L86+00W 45+50N		<0.2	64	21	81	0.087
S1 L86+00W 46+00N		<0.2	33	10	46	0.032
S1 L86+00W 46+50N		<0.2	24	13	87	0.035
S1 L86+00W 47+00N		<0.2	44	22	97	0.042
S1 L86+00W 47+50N		<0.2	47	15	100	0.066
S1 L86+00W 48+00N		<0.2	39	19	89	0.054
S1 L86+00W 48+50N		<0.2	34	15	105	0.055
S1 L86+00W 49+00N		<0.2	39	21	118	0.121
S1 L86+00W 49+50N		<0.2	53	24	173	0.159
S1 L86+00W 50+00N		<0.2	51	22	153	0.132
S1 L86+00W 50+50N		<0.2	12	18	47	0.013
S1 L86+00W 51+00N		<0.2	45	19	155	0.132
S1 L87+00W 45+50N		<0.2	41	18	193	0.080
S1 L87+00W 46+00N		<0.2	50	20	133	0.120
S1 L87+00W 46+50N		<0.2	29	18	78	0.040
S1 L87+00W 47+00N		<0.2	65	29	122	0.071
S1 L87+00W 47+50N		<0.2	50	30	84	0.075
S1 L87+00W 48+00N		<0.2	68	23	129	0.113
S1 L87+00W 48+50N		<0.2	62	23	186	0.163
S1 L87+00W 49+00N		<0.2	37	20	157	0.121
S1 L87+00W 49+50N		<0.2	61	24	194	0.190
S1 L87+00W 50+00N		<0.2	59	22	194	0.174
S1 L87+00W 50+50N		<0.2	64	28	194	0.187
S1 L87+00W 51+00N		<0.2	64	25	188	0.213
S1 L87+00W 51+50N		<0.2	66	24	199	0.205
S1 L87+00W 52+00N		<0.2	61	25	183	0.218
S1 L87+00W 52+50N		<0.2	63	27	189	0.169
S1 L87+00W 53+00N		<0.2	69	27	207	0.218
S1 L87+00W 53+50N		<0.2	62	24	184	0.147
S1 L97+50W 27+50N		<0.2	54	25	96	0.062
S1 L97+50W 28+00N		<0.2	51	18	87	0.044
S1 L97+50W 28+50N		<0.2	45	19	135	0.085
S1 L97+50W 29+00N		<0.2	62	24	111	0.099
S1 L97+50W 29+50N		<0.2	32	23	89	0.046
S1 L97+50W 30+00N		<0.2	25	12	76	0.048
S1 L97+50W 31+00N		<0.2	36	16	105	0.065
S1 L97+50W 31+50N		<0.2	49	19	132	0.088
S1 L97+50W 32+00N		<0.2	78	18	101	0.081
S1 L97+50W 32+50N		<0.2	41	16	93	0.072
S1 L97+50W 33+00N		<0.2	53	22	134	0.061

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00631.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
S1 L97+50W 33+50N		<0.2	45	17	91	0.070
S1 L97+50W 34+00N		<0.2	51	17	111	0.057
S1 L97+50W 34+50N		<0.2	58	18	96	0.092
S1 L97+50W 35+00N		<0.2	38	11	100	0.046
S1 L97+50W 35+50N		<0.2	35	12	82	0.058
S1 L97+50W 36+00N		<0.2	48	15	93	0.072
S1 L97+50W 37+00N		<0.2	36	16	104	0.069
S1 L97+50W 37+50N		<0.2	42	19	88	0.023
S1 L97+50W 38+00N		<0.2	54	65	128	0.070
S1 L97+50W 38+50N		<0.2	48	14	108	0.059
S1 L97+50W 39+00N		<0.2	51	17	118	0.049
S1 L97+50W 39+50N		<0.2	36	14	76	0.049
S1 L97+50W 40+00N		<0.2	32	17	100	0.053
S1 L97+50W 41+00N		<0.2	25	8	66	0.065
S1 L100+50W 27+00N		<0.2	64	16	73	0.066
S1 L100+50W 27+50N		<0.2	49	17	105	0.065
S1 L100+50W 28+00N		<0.2	51	17	91	0.091
S1 L100+50W 28+50N		<0.2	48	19	114	0.087
S1 L100+50W 29+00N		<0.2	61	18	89	0.117
S1 L100+50W 29+50N		<0.2	35	17	135	0.060
S1 L100+50W 30+00N		<0.2	51	13	94	0.072
S1 L100+50W 31+00N		<0.2	45	14	100	0.079
S1 L100+50W 31+50N		<0.2	44	17	105	0.062
S1 L100+50W 32+00N		<0.2	33	15	96	0.057
S1 L103+50W 28+00N		<0.2	27	15	64	0.024
S1 L103+50W 28+50N		<0.2	15	14	94	<0.010
S1 L103+50W 29+00N		<0.2	41	15	93	0.056
S1 L103+50W 29+50N		<0.2	36	14	86	0.063
S1 L103+50W 30+00N		<0.2	25	12	72	0.044
S1 L103+50W 30+50N		<0.2	39	15	77	0.039
S1 L103+50W 31+00N		<0.2	32	15	67	0.025
S1 L103+50W 31+50N		<0.2	33	15	102	0.025
S1 L103+50W 32+00N		<0.2	41	15	74	0.080
S1 L103+50W 32+50N		<0.2	60	18	102	0.092
S1 L103+50W 33+00N		<0.2	34	12	68	0.054
S1 L103+50W 34+00N		<0.2	43	14	90	0.065
S1 L103+50W 34+50N		<0.2	27	16	69	0.033
S1 L103+50W 35+50N		<0.2	37	14	86	0.052
R2 0001		2.7	18	1219	13696	1.277
R2 0002		<0.2	29	65	1003	0.023

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00631.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
R2 0003		<0.2	23	145	1240	0.044
R2 0004		0.7	92	25	117	0.010

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00631.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE PAGE 4

STANDARD NAME	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
GEO TRACE STD1(1989)		36.5	205	21	54	0.030
Number of Analyses		1	1	1	1	1
Mean Value		36.52	204.7	21.1	54.3	0.0300
Standard Deviation		-	-	-	-	-
Accepted Value		36.0	190	15	62	0.030
GS89-2		3.6	920	220	509	3.748
Number of Analyses		1	1	1	1	1
Mean Value		3.65	920.5	219.6	509.4	3.7476
Standard Deviation		-	-	-	-	-
Accepted Value		5.0	820	250	500	3.550
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010
Number of Analyses		3	3	3	3	3
Mean Value		0.10	0.5	1.0	0.5	0.0050
Standard Deviation		<0.001	<0.01	<0.01	<0.01	<.00001
Accepted Value		0.2	1	2	1	0.010
TRACE GEOCHEM STD		<0.2	290	36	244	0.028
Number of Analyses		1	1	1	1	1
Mean Value		0.10	289.7	35.5	243.9	0.0279
Standard Deviation		-	-	-	-	-
Accepted Value		0.5	290	33	255	0.030

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00631.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
L86+00W 46+00N		<0.2	33	10	46	0.032
Duplicate		<0.2	32	10	45	0.038
L87+00W 49+00N		<0.2	37	20	157	0.121
Duplicate		<0.2	39	21	165	0.126
L97+50W 32+50N		<0.2	41	16	93	0.072
Duplicate		<0.2	40	14	92	0.064
L100+50W 27+50N		<0.2	49	17	105	0.065
Duplicate		<0.2	48		105	0.065
L103+50W 34+00N		<0.2	43	14	90	0.065
Duplicate		<0.2	43	14	88	0.057

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

DATE PRINTED: 6-JUL-93

REPORT: V93-00600.0 (COMPLETE) PROJECT: CLEAR LAKE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
S1 L91+50W 45+25N		<0.2	56	19	156	0.104
S1 L91+50W 45+75N		<0.2	67	17	194	0.172
S1 L91+50W 46+25N		<0.2	68	19	193	0.182
S1 L91+50W 46+75N		<0.2	60	14	128	0.120
S1 L91+50W 47+25N		<0.2	50	12	110	0.101
S1 L91+50W 47+75N		0.2	54	13	139	0.127
S1 L91+50W 48+25N		<0.2	55	17	162	0.158
S1 L91+50W 48+75N		<0.2	68	19	186	0.159
S1 L91+50W 49+25N		<0.2	45	17	145	0.116
S1 L91+50W 49+75N		<0.2	47	15	141	0.114
S1 L91+50W 50+25N		<0.2	53	15	150	0.146
S1 L91+50W 50+75N		<0.2	47	16	136	0.114
S1 L91+50W 51+25N		<0.2	47	14	131	0.092
S1 L90+00W 45+75N		<0.2	59	20	162	0.160
S1 L90+00W 46+25N		0.3	56	9	87	0.078
S1 L90+00W 46+75N		<0.2	60	20	170	0.116
S1 L90+00W 47+25N		<0.2	62	18	151	0.123
S1 L90+00W 47+75N		<0.2	65	17	152	0.127
S1 L90+00W 48+25N		<0.2	60	18	152	0.123
S1 L90+00W 48+75N		<0.2	50	16	124	0.089
S1 L90+00W 49+25N		<0.2	58	18	160	0.126
S1 L90+00W 49+75N		<0.2	71	23	189	0.176
S1 L90+00W 50+25N		<0.2	60	17	157	0.121
S1 L90+00W 50+75N		<0.2	62	16	162	0.115
S1 L90+00W 51+25N		<0.2	62	18	166	0.150
S1 L90+00W 51+75N		<0.2	57	14	142	0.099
S1 L90+00W 52+25N		<0.2	55	16	157	0.124
S1 L90+00W 52+75N		<0.2	65	18	188	0.163
S1 L90+00W 53+25N		<0.2	63	19	183	0.152
S1 L93+00W 45+25N		<0.2	71	21	201	0.186
S1 L93+00W 45+75N		<0.2	46	15	136	0.098
S1 L93+00W 46+25N		<0.2	69	22	194	0.182
S1 L93+00W 46+75N		<0.2	71	24	211	0.192
S1 L93+00W 47+25N		<0.2	68	26	194	0.169
S1 L93+00W 47+75N		<0.2	68	16	194	0.188
S1 L93+00W 48+25N		<0.2	72	21	212	0.223
S1 L93+00W 48+75N		<0.2	64	23	186	0.166
S1 L93+00W 49+25N		<0.2	50	13	125	0.091
S1 L93+00W 49+75N		<0.2	47	16	145	0.082
S1 L93+00W 50+25N		<0.2	56	17	161	0.138

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00600.0 (COMPLETE)

DATE PRINTED: 6-JUL-93
PROJECT: CLEAR LAKE PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
S1 L93+00W 50+75N		<0.2	60	19	177	0.161
S1 L93+00W 51+25N		<0.2	68	19	200	0.177
S1 L100+50W 32+50N		<0.2	47	11	102	0.072
S1 L100+50W 33+00N		<0.2	38	9	121	0.068
S1 L100+50W 34+00N		<0.2	32	9	85	0.050
S1 L100+50W 35+00N		<0.2	37	13	106	0.050
S1 L100+50W 35+50N		<0.2	30	8	75	0.035
S1 L100+50W 36+00N		<0.2	62	14	126	0.057
S1 L100+50W 36+50N		<0.2	30	8	103	0.016
S1 L100+50W 37+00N		<0.2	48	7	105	0.053
S1 L100+50W 37+50N		<0.2	41	13	92	0.039
S1 L100+50W 38+00N		<0.2	280	4	64	0.032
S1 L100+50W 38+50N		<0.2	56	13	108	0.065
S1 L100+50W 39+00N		<0.2	27	6	63	0.041
S1 L100+50W 39+50N		<0.2	51	11	90	0.060
S1 L100+50W 40+00N		<0.2	49	13	139	0.092
S1 L100+50W 40+50N		<0.2	47	12	123	0.100
S1 L100+50W 41+00N		<0.2	53	14	161	0.143

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00600.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE PAGE 3

STANDARD NAME	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
TRACE GEOCHEM STD		<0.2	284	32	253	0.025
Number of Analyses		1	1	1	1	1
Mean Value		0.10	284.0	31.8	252.6	0.0247
Standard Deviation		-	-	-	-	-
Accepted Value		0.5	290	33	255	0.030
GS89-2		5.1	859	199	470	3.415
Number of Analyses		1	1	1	1	1
Mean Value		5.09	859.1	199.1	470.4	3.4152
Standard Deviation		-	-	-	-	-
Accepted Value		5.0	820	250	500	3.550
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010
Number of Analyses		2	2	2	2	2
Mean Value		0.10	0.5	1.0	0.5	0.0050
Standard Deviation		<0.001	<0.01	<0.01	<0.01	<.00001
Accepted Value		0.2	1	2	1	0.010

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00600.0 (COMPLETE)

DATE PRINTED: 6-JUL-93

PROJECT: CLEAR LAKE PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM
L91+50W 45+25N		<0.2	56	19	156	0.104
Duplicate		<0.2	52	19	145	0.099
L90+00W 48+25N		<0.2	60	18	152	0.123
Duplicate		<0.2		16	137	0.120
L93+00W 49+25N		<0.2	50	13	125	0.091
Duplicate		<0.2	48	13	119	0.089
L100+50W 40+00N		<0.2	49	13	139	0.092
Duplicate		<0.2	45	12	133	0.087

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

REPORT: V93-00655.0 (COMPLETE)

DATE PRINTED: 27-JUL-93

PROJECT: CLEAR LAKE PAGE 1

Area 23

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
S1 L93+00W 7+00S		<0.2	145	17	62	0.010	
S1 L93+00W 7+50S		0.3	55	19	133	0.065	
S1 L93+00W 8+00S		0.3	74	19	130	0.081	
S1 L93+00W 8+50S		<0.2	35	15	92	0.043	
S1 L93+00W 9+00S		<0.2	32	14	71	0.038	
S1 L93+00W 9+50S		<0.2	39	20	106	0.052	
S1 L93+00W 10+00S		<0.2	27	17	73	0.023	
S1 L93+00W 10+50S		<0.2	41	21	98	0.039	
S1 L93+00W 11+00S		<0.2	61	26	101	0.090	
S1 L93+00W 11+50S		<0.2	35	16	75	0.067	
S1 L93+00W 12+00S		<0.2	31	15	90	0.051	
S1 L93+00W 12+50S		<0.2	20	20	103	0.015	
S1 L93+00W 13+00S		<0.2	19	16	67	<0.010	
S1 L93+00W 13+50S		<0.2	13	15	79	<0.010	
S1 L93+00W 14+00S		<0.2	18	14	49	0.014	
S1 L93+00W 14+50S		<0.2	44	21	70	0.046	
S1 L93+00W 15+00S		<0.2	16	18	78	<0.010	
S1 L93+00W 15+50S		<0.2	22	12	58	0.018	
S1 L93+00W 16+00S		<0.2	13	14	125	<0.010	
S1 L93+00W 16+50S		0.2	23	13	71	0.036	
S1 L93+00W 17+00S		<0.2	54	20	97	0.082	
S1 L93+00W 17+50S		<0.2	19	16	56	0.018	
S1 L93+00W 18+00S		<0.2	18	11	64	0.016	
S1 L93+00W 18+50S		0.4	55	18	93	0.094	
S1 L93+00W 19+00S		<0.2	20	14	63	0.022	
S1 L93+00W 19+50S		<0.2	41	15	70	0.070	
S1 L93+00W 20+00S		<0.2	17	13	63	0.011	
S1 L93+00W 20+50S		<0.2	38	14	99	0.053	
S1 L93+00W 21+00S		0.2	56	20	82	0.083	
S1 L93+00W 21+50S		<0.2	15	13	57	0.021	
S1 L93+00W 22+50S		<0.2	20	12	67	0.021	
S1 L93+00W 23+00S		<0.2	18	12	69	0.019	
S1 L93+00W 23+50S		<0.2	24	13	69	0.022	
S1 L93+00W 24+00S		<0.2	19	14	48	0.020	
S1 L93+00W 24+50S		<0.2	23	13	65	0.019	
S1 L93+00W 25+00S		<0.2	15	14	60	0.013	
S1 L93+00W 25+50S		<0.2	19	11	66	0.020	
S1 L97+00W 3+00S		<0.2	50	17	118	0.076	
S1 L97+00W 3+50S		0.2	43	13	98	0.087	
S1 L97+00W 4+00S		<0.2	47	16	100	0.084	

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

REPORT: V93-00655.0 (COMPLETE)

DATE PRINTED: 27-JUL-93

PROJECT: CLEAR LAKE

Area 23

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
S1 L97+00W 5+00S		<0.2	14	13	62	0.012	
S1 L97+00W 5+50S		<0.2	35	16	87	0.060	
S1 L97+00W 6+50S		<0.2	20	11	74	0.040	
S1 L97+00W 6+70S		0.2	32	13	93	0.058	
S1 L97+00W 7+00S		<0.2	23	8	58	0.031	
S1 L97+00W 7+50S		<0.2	27	14	77	0.041	
S1 L97+00W 8+00S		<0.2	28	12	74	0.037	
S1 L97+00W 8+50S		<0.2	41	16	110	0.059	
S1 L97+00W 9+00S		<0.2	8	11	85	<0.010	
S1 L97+00W 9+50S		<0.2	39	15	72	0.069	
S1 L97+00W 10+00S		0.3	43	13	69	0.138	
S1 L97+00W 10+50S		0.3	33	12	66	0.056	
S1 L97+00W 11+00S		0.2	36	16	96	0.062	
S1 L97+00W 11+65S		<0.2	23	10	68	0.042	
S1 L97+00W 12+00S		<0.2	43	19	107	0.047	
S1 L97+00W 12+50S		<0.2	44	15	96	0.052	
S1 L97+00W 13+00S		<0.2	30	14	74	0.043	
S1 L97+00W 13+50S		0.2	40	13	77	0.066	
S1 L97+00W 14+00S		<0.2	31	268	587	0.020	
S1 L97+00W 14+43S		<0.2	18	15	53	<0.010	
S1 L97+00W 15+00S		<0.2	32	13	66	0.067	
S1 L97+00W 15+50S		<0.2	17	14	82	0.017	
S1 L97+00W 16+00S		<0.2	35	13	79	0.061	
S1 L97+00W 16+50S		<0.2	41	16	89	0.057	
S1 L97+00W 17+00S		<0.2	30	14	57	0.051	
S1 L105+00W 2+00N		<0.2	33	12	80	0.050	
S1 L105+00W 1+50N		<0.2	39	13	107	0.071	
S1 L105+00W 1+00N		<0.2	37	14	73	0.068	
S1 L105+00W 0+50N		<0.2	27	14	80	0.044	
S1 L105+00W 0+00N		<0.2	30	11	62	0.201	
S1 L105+00W 0+50S		<0.2	28	13	55	0.025	
S1 L105+00W 1+00S		<0.2	33	13	79	0.028	
S1 L105+00W 1+50S		<0.2	20	10	55	0.012	
S1 L105+00W 4+00S		<0.2	17	12	55	0.018	
S1 L105+00W 6+00S		<0.2	14	14	64	0.014	
S1 L105+00W 6+50S		<0.2	18	12	59	<0.010	
S1 L105+00W 7+00S		<0.2	15	13	66	0.012	
S1 L105+00W 7+50S		<0.2	50	19	110	0.066	
S1 L105+00W 8+00S		<0.2	19	13	58	<0.010	
S1 L105+00W 8+50S		0.2	37	14	72	0.080	

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00655.0 (COMPLETE)

DATE PRINTED: 27-JUL-93

PROJECT: CLEAR LAKE PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
S1 L105+00W 9+00S		<0.2	17	13	60	<0.010	
S1 L105+00W 9+50S		<0.2	21	10	73	<0.010	
S1 L105+00W 10+00S		<0.2	27	10	78	0.059	
S1 L105+00W 13+60S		<0.2	21	11	68	0.042	
S1 L105+00W 15+50S		<0.2	42	17	100	0.070	
S1 L105+00W 16+00S		<0.2	24	11	52	0.029	
S1 L105+00W 17+00S		<0.2	24	12	68	0.016	
S1 L101+00W 13+45S		<0.2	19	10	62	0.043	
S1 90+75W 16+75S		<0.2	8	6	56	0.027	
S1 91+25W 18+75S		<0.2	12	9	63	0.020	
S1 96+50W 11+50S		<0.2	26	10	80	0.046	
S1 97+04W 4+90S		0.2	58	31	463	0.026	
R2 6801		<0.2	9	23	58	<0.010	1230
R2 6802		<0.2	32	20	57	<0.010	2307
R2 6803		<0.2	7	20	56	<0.010	1743
R2 6804		0.2	53	18	169	<0.010	3845

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

DATE PRINTED: 27-JUL-93

REPORT: V93-00655.0 (COMPLETE) PROJECT: CLEAR LAKE PAGE 4

STANDARD NAME	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
GEO TRACE STD1(1989)		33.4	203	18	59	0.030	-
Number of Analyses		1	1	1	1	1	-
Mean Value		33.38	202.8	18.0	58.9	0.0300	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		34.0	190	15	62	0.066	480
ANALYTICAL BLANK		<0.2	<1	2	<1	<0.010	-
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010	-
ANALYTICAL BLANK		<0.2	<1	2	<1	<0.010	-
Number of Analyses		3	3	3	3	3	-
Mean Value		0.10	0.5	1.7	0.5	0.0050	-
Standard Deviation		<0.001	<0.01	0.58	<0.01	<.00001	-
Accepted Value		0.2	1	2	1	0.010	<1
TRACE GEOCHEM STD		0.4	283	31	220	0.028	-
Number of Analyses		1	1	1	1	1	-
Mean Value		0.39	283.3	31.1	220.1	0.0276	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		0.5	290	33	255	0.030	420
GS89-2		4.6	887	222	461	3.828	-
Number of Analyses		1	1	1	1	1	-
Mean Value		4.65	886.5	221.8	461.4	3.8277	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		5.0	820	250	500	3.550	600
BCC HIGH XRF STD		-	-	-	-	-	12409
BCC HIGH XRF STD		-	-	-	-	-	12438
Number of Analyses		-	-	-	-	-	2
Mean Value		-	-	-	-	-	12423.5
Standard Deviation		-	-	-	-	-	20.40
Accepted Value		-	-	-	-	-	-

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

DATE PRINTED: 27-JUL-93

REPORT: V93-00655.0 (COMPLETE) PROJECT: CLEAR LAKE PAGE 5

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
L93+00W 9+50S		<0.2	39	20	106	0.052	
Duplicate		<0.2	38	19	108	0.042	
L93+00W 18+00S		<0.2	18	11	64	0.016	
Duplicate		<0.2	17	12	63	0.016	
L97+00W 6+50S		<0.2	20	11	74	0.040	
Duplicate		<0.2	20	11	71	0.046	
L97+00W 14+43S		<0.2	18	15	53	<0.010	
Duplicate		<0.2	19	13	54	0.012	
L105+00W 8+50S		0.2	37	14	72	0.080	
Duplicate		0.2	38	12	73	0.099	

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

DATE PRINTED: 27-JUL-93

REPORT: V93-00682.0 (COMPLETE) PROJECT: CLEAR LAKE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
S1 L12+80W 14+50N		<0.2	39	15	78	0.048	
S1 L12+80W 15+00N		<0.2	64	16	126	0.101	
S1 L12+80W 15+50N		<0.2	37	20	86	0.072	
S1 L12+80W 16+00N		<0.2	41	11	75	0.056	
S1 L12+80W 16+50N		<0.2	52	10	101	0.073	
S1 L12+80W 17+00N		<0.2	56	14	114	0.071	
S1 L12+80W 20+00N		<0.2	81	13	207	0.038	
S1 L12+80W 20+50N		<0.2	57	12	99	0.075	
S1 L12+80W 21+00N		<0.2	51	14	82	0.040	
S1 L12+80W 21+50N		<0.2	36	12	78	0.031	
S1 L12+80W 22+00N		<0.2	26	14	69	0.023	
S1 L12+80W 22+50N		<0.2	58	17	104	0.080	
S1 L12+80W 23+00N		<0.2	45	14	79	0.053	
S1 L12+80W 23+50N		<0.2	57	13	107	0.075	
S1 L12+80W 24+00N		<0.2	57	12	113	0.073	
S1 L12+80W 25+00N		<0.2	61	14	99	0.101	
S1 L12+80W 25+50N		<0.2	40	13	84	0.028	
S1 L12+80W 26+00N		<0.2	50	13	92	0.052	
S1 L3+25W 14+00N		<0.2	16	13	68	0.016	
S1 L3+25W 14+50N		<0.2	72	14	117	0.059	
S1 L3+25W 15+00N		<0.2	60	15	109	0.069	
S1 L3+25W 15+50N		<0.2	55	14	103	0.072	
S1 L3+25W 16+00N		<0.2	62	15	120	0.069	
S1 L3+25W 16+50N		<0.2	59	15	120	0.062	
S1 L3+25W 17+00N		<0.2	47	14	108	0.062	
S1 L3+25W 17+50N		<0.2	47	12	90	0.060	
S1 L3+25W 18+00N		<0.2	42	15	88	0.038	
S1 L3+25W 18+50N		<0.2	56	16	98	0.067	
S1 L3+25W 19+00N		<0.2	52	12	70	0.044	
S1 L3+25W 19+50N		<0.2	72	17	111	0.061	
S1 L3+25W 20+00N		<0.2	46	13	84	0.083	
S1 L3+25W 20+50N		<0.2	36	14	75	0.063	
S1 L3+25W 21+00		<0.2	61	21	93	0.042	
S1 L76+00W 46+00N		<0.2	81	20	128	0.041	
S1 L76+00W 46+50N		<0.2	21	14	88	0.013	
S1 L76+00W 47+00N		0.3	66	25	369	0.030	
S1 L76+00W 47+25N		<0.2	49	12	100	0.021	
S1 L76+00W 48+50N		0.3	51	12	248	0.031	
S1 L76+00W 49+00N		<0.2	191	21	538	0.057	
S1 L76+00W 49+50N		0.6	181	18	417	0.092	

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00682.0 (COMPLETE)

DATE PRINTED: 27-JUL-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
S1 L76+00W 50+00N		<0.2	137	23	477	0.063	
S1 L76+00W 50+50N		<0.2	528	31	614	0.057	
S1 L76+00W 51+00N		<0.2	53	11	109	0.033	
S1 L77+50W 45+50N		<0.2	61	18	225	0.075	
S1 L77+50W 46+00N		<0.2	63	11	127	0.075	
S1 L77+50W 46+50N		<0.2	71	17	120	0.050	
S1 L77+50W 47+00N		<0.2	88	45	329	0.066	
S1 L77+50W 47+50N		<0.2	41	12	74	0.041	
S1 L77+50W 48+00N		<0.2	94	27	328	0.065	
S1 L77+50W 49+00N		1.5	211	24	513	0.036	
S1 L77+50W 49+50N		<0.2	344	19	1016	0.052	
S1 L77+50W 50+00N		0.7	206	30	395	0.031	
S1 L77+50W 50+50N		<0.2	53	12	64	0.044	
S1 L80+50W 46+00N		<0.2	43	30	181	0.034	
S1 L80+50W 46+50N		<0.2	32	15	110	0.023	
S1 L80+50W 47+00N		<0.2	52	12	91	0.064	
S1 L80+50W 47+50N		<0.2	111	26	195	0.184	
S1 L80+50W 49+00N		0.8	227	32	561	0.029	
S1 L80+50W 50+00N		<0.2	128	15	251	0.060	
S1 L80+50W 50+50N		<0.2	56	10	122	0.026	
S1 L82+00W 46+50N		<0.2	50	16	132	0.086	
S1 L82+00W 47+00N		0.6	64	12	71	0.164	
S1 L82+00W 47+50N		<0.2	76	22	120	0.085	
S1 L82+00W 48+00N		<0.2	53	12	92	0.056	
S1 L82+00W 49+00N		<0.2	96	19	169	0.163	
S1 L82+00W 50+00N		<0.2	55	13	112	0.065	
S1 L82+00W 50+50N		<0.2	68	15	102	0.056	
S1 L73+00W 47+50		<0.2	19	11	63	0.014	
S1 L73+00W 49+00N		0.5	83	14	417	0.034	
S1 L73+00W 49+50N		<0.2	58	30	244	0.019	
S1 B-3		<0.2	42	13	106	0.055	
R2 B-2		0.5	58	13	161	0.027	
R2 B-5		0.2	39	6	370	0.015	
R2 B-7		0.6	62	18	683	0.027	
R2 6805		0.3	18	5	25	0.022	1404
R2 6806		0.4	19	13	24	0.010	819

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

30 36
5 R < 40
1.3.8 76

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

DATE PRINTED: 27-JUL-93

REPORT: V93-00682.0 (COMPLETE) PROJECT: CLEAR LAKE PAGE 3

STANDARD NAME	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
GEO TRACE STD1(1989)		34.5	192	14	54	-	-
Number of Analyses		1	1	1	1	-	-
Mean Value		34.50	192.0	14.0	54.5	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		34.0	190	15	62	0.066	480
ANALYTICAL BLANK		<0.2	1	3	<1	0.010	-
ANALYTICAL BLANK		<0.2	<1	<2	<1	0.010	-
ANALYTICAL BLANK		<0.2	1	<2	<1	<0.010	-
Number of Analyses		3	3	3	3	3	-
Mean Value		0.10	1.0	1.6	0.5	0.0084	-
Standard Deviation		<0.001	0.41	0.96	<0.01	0.00295	-
Accepted Value		0.2	1	2	1	0.010	<1
TRACE GEOCHEM STD		0.4	287	29	256	0.034	-
Number of Analyses		1	1	1	1	1	-
Mean Value		0.40	286.6	28.6	256,1	0.0344	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		0.5	290	33	255	0.030	420
GS89-2		4.9	815	227	468	3.568	-
Number of Analyses		1	1	1	1	1	-
Mean Value		4.87	814.9	227.0	467.6	3.5684	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		5.0	820	250	500	3.550	600
BCC HIGH XRF STD		-	-	-	-	-	12160
Number of Analyses		-	-	-	-	-	1
Mean Value		-	-	-	-	-	12160.0
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00682.0 (COMPLETE)

DATE PRINTED: 27-JUL-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
L12+80W 15+50N		<0.2	37	20	86	0.072	
Duplicate		<0.2	38	21	84	0.070	
L3+25W 14+00N		<0.2	16	13	68	0.016	
Duplicate		<0.2	15	15	69	0.023	
L76+00W 49+00N		<0.2	191	21	538	0.057	
Duplicate		<0.2	179	19	515	0.061	
L80+50W 47+00N		<0.2	52	12	91	0.064	
Duplicate		<0.2	47	14	89	0.071	
6806		0.4	19	13	24	0.010	819
Duplicate		0.6	20	13	24	<0.010	

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

REPORT: V93-00709.0 (COMPLETE)

DATE PRINTED: 30-JUL-93

PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
S1 L73+00W TL45+50N		<0.2	87	13	142	0.035	
S1 L73+00W 46+00N		<0.2	26	18	75	0.024	
S1 L73+00W 46+75N		<0.2	18	11	50	0.027	
S1 L73+00W 47+00N		0.2	40	17	73	0.026	
S1 L73+00W 47+50N		<0.2	42	17	97	0.026	
S1 L73+00W 48+00N		√4.2	83	18	65	0.076	
S1 L73+00W 48+75N		0.2	√135	17	✓324	0.041	
S1 L73+00W 50+10N		0.2	30	10	110	0.066	
S1 L73+00W 51+00N		0.2	48	11	151	0.083	
S1 L73+00W 51+50N		0.3	51	19	86	0.079	
S1 L73+00W 52+00N		<0.2	22	12	92	0.023	
S1 L73+00W 52+50N		0.2	55	11	123	0.090	
S1 L73+00W 53+00N		0.3	65	14	169	0.088	
S1 L73+00W 53+50N		0.3	31	14	110	0.024	
S1 L74+50W 45+50N		0.3	26	13	96	0.039	
S1 L74+50W 46+68N		<0.2	23	16	49	<0.010	
S1 L74+50W 47+00N		0.3	43	14	110	0.100	
S1 L74+50W 47+50N		0.2	36	13	'83	0.029	
S1 L74+50W 48+00N		√1.2	67	6	√420	0.029	
S1 L74+50W 48+50N		✓1.3	✓164	15	✓511	0.042	
S1 L74+50W 49+00N		<0.2	✓157	30	170	0.039	
S1 L74+50W 49+50N		0.2	51	12	119	0.043	
S1 L74+50W 50+00N		✓0.6	19	25	174	<0.010	
S1 L74+50W 50+75N		0.3	43	12	110	0.060	
S1 L74+50W 51+00N		<0.2	50	11	127	0.073	
S1 L74+50W 51+50N		<0.2	28	12	68	0.017	
S1 L74+50W 52+00N		<0.2	26	11	66	<0.010	
S1 L74+50W 52+50N		<0.2	21	12	66	0.022	
S1 L74+50W 53+00N		<0.2	35	11	94	0.063	
S1 L74+50W 53+50N		0.3	36	9	83	0.072	
S1 L79+00W 49+35N P-1		<0.2	16	14	99	<0.010	
S1 L79+00W 49+35N P-2		✓0.5	67	11	163	0.043	Profile
S1 L79+00W 49+35N P-3		✓4.0	✓133	✓53	✓241	0.139	
S1 L79+00W 49+35N P-4		✓3.2	√229	38	✓1200	0.046	
S1 L79+00W 49+55N P-1		0.3	50	13	101	0.051	
S1 L79+00W 49+55N P-2		√1.1	✓130	20	✓529	0.051	profile
S1 L79+00W 49+55N P-3		✓0.6	81	20	✓277	0.044	
S1 L79+00W 49+55N P-4		0.3	32	11	97	0.042	
S1 L84+00W 47+00N		<0.2	51	15	97	0.068	
S1 L84+00W 47+50N		0.2	34	14	101	0.092	

46

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

DATE PRINTED: 30-JUL-93

REPORT: V93-00709.0 (COMPLETE) PROJECT: NONE GIVEN PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
S1 L84+00W 48+00N		<0.2	29	8	69	0.040	
S1 L84+00W 48+50N		0.3	63	19	118	0.118	
S1 L84+00W 49+00N		<0.2	79	21	109	0.122	
S1 L84+00W 49+50N		0.3	78	23	138	0.094	
S1 L84+00W 50+00N		<0.2	31	18	142	<0.010	
S2 L84+25W 45+50N		<0.2	40	18	105	0.066	
T2 RB93-1		<0.2	20	10	134	0.019	
T2 RB93-2		<0.2	27	10	165	0.032	
R2 E4401		✓1.2	✓97	16	✓418	0.046	✓6686
R2 E4402		<0.2	18	11	77	<0.010	1728
R2 E4403		✓0.6	71	8	56	0.017	1194
R2 E4404		✓1.0	38	25	86	<0.010	✓4954

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

46
42
44
52 5

REPORT: V93-00709.0 (COMPLETE)

DATE PRINTED: 30-JUL-93

PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba PPM
L73+00W 51+50N		0.3	51	19	86	0.079	
Duplicate		0.4	52	19	88	0.067	
L74+50W 52+00N		<0.2	26	11	66	<0.010	
Duplicate		<0.2	26	11	66	0.016	
RB93-1		<0.2	20	10	134	0.019	
Duplicate		<0.2	22	8	131	0.023	

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

BONDAR-CLEGG

Geochemical Lab Report

Inchcape Testing Services

DATE PRINTED: 27-AUG-93

REPORT: V93-00788.0 (COMPLETE)

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba* PPM
D2 6807		<0.2	62	7	58	0.217	1774
D2 6808		<0.2	57	5	73	0.096	1962
D2 6809		<0.2	71	6	41	0.013	1789
D2 6810		<0.2	54	8	65	0.150	1366
D2 6811		<0.2	58	6	42	0.187	1338
D2 6812		<0.2	55	6	29	0.020	1238
D2 6813		<0.2	54	6	53	0.122	1537
D2 6814		<0.2	48	5	91	0.043	2306
D2 6815		<0.2	62	6	43	0.024	1364
D2 6816		<0.2	54	4	34	0.097	1362
D2 6817		<0.2	51	4	53	0.035	1459
D2 6818		<0.2	68	6	49	0.059	1250
D2 6819		<0.2	69	2	41	0.119	1065
D2 6820		<0.2	43	13	159	0.092	2200
D2 6821		<0.2	47	11	182	0.532	2686
D2 6822		<0.2	46	15	265	0.234	2905
D2 6823		<0.2	41	13	160	0.100	2403
D2 6824		<0.2	55	13	229	0.026	2904
D2 6825		<0.2	42	12	387	0.509	2672
D2 6826		<0.2	75	11	188	0.099	3113
D2 6827		<0.2	77	16	198	0.026	1500
D2 6828		0.4	112	30	626	0.271	1593
D2 6829		0.7	103	137	1144	0.234	1620
D2 6830		<0.2	53	13	31	0.026	462
D2 6831		0.5	105	11	723	0.561	1031
D2 6832		0.4	131	12	454	0.175	2126
D2 6833		0.4	121	8	360	0.051	1834
D2 6834		0.6	66	10	175	0.140	2339
D2 6835		0.4	59	10	496	0.252	1940
D2 6836		0.9	120	17	382	0.031	4087
D2 6837		0.7	98	9	474	0.150	2321
D2 6838		0.4	153	14	270	0.220	3722
D2 6839		0.4	60	13	67	0.026	1232
D2 6840		0.5	143	11	427	0.077	3101
D2 6841		0.5	149	15	211	0.112	2950
D2 6842		0.4	179	10	454	0.043	7680
D2 6843		0.5	144	15	352	0.076	6709
D2 6844		0.7	115	10	183	0.055	1791
D2 6845		0.5	110	19	439	0.025	2600
D2 6846		0.8	170	34	277	0.030	4080

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

REPORT: V93-00788.0 (COMPLETE)

DATE PRINTED: 27-AUG-93

PROJECT: CLEAR LAKE

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba* PPM
D2 6847		0.4	167	11	519	0.023	6299
D2 6848		0.3	119	5	247	0.061	1552
D2 6849		0.4	135	11	175	0.031	2328
D2 6850		<0.2	134	8	628	0.033	5435
D2 6867		<0.2	172	11	441	0.089	4084
D2 6868		<0.2	120	10	308	0.044	4988
D2 6869		<0.2	90	6	243	0.022	2607
D2 6870		0.5	144	6	202	0.057	2273
D2 6871		0.4	101	8	276	0.056	3845
D2 6872		0.3	144	7	215	0.061	4537
D2 6873		0.2	132	7	597	0.041	4207
D2 6874		<0.2	92	7	301	0.018	3375
D2 6875		<0.2	61	12	268	0.017	2619

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

DATE PRINTED: 27-AUG-93

REPORT: V93-00788.0 (COMPLETE) PROJECT: CLEAR LAKE PAGE 3

STANDARD NAME	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Hg PPM	Ba* PPM
BCC GEOCHEM STD 2		32.3	212	12	58	0.059	-
Number of Analyses		1	1	1	1	1	-
Mean Value		32.30	212.0	12.3	58.1	0.0593	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		34.0	190	15	62	0.066	-
BCC GEOCHEM STD 3		-	-	-	-	-	596
Number of Analyses		-	-	-	-	-	1
Mean Value		-	-	-	-	-	596.0
Standard Deviation		-	-	-	-	-	-
Accepted Value		5.0	820	250	500	3.550	-
ANALYTICAL BLANK		<0.2	<1	<2	1	<0.010	-
ANALYTICAL BLANK		<0.2	<1	<2	<1	<0.010	-
Number of Analyses		2	2	2	2	2	-
Mean Value		0.10	0.5	1.0	0.8	0.0050	-
Standard Deviation		<0.001	<0.01	<0.01	0.38	<.00001	-
Accepted Value		0.2	1	2	1	0.010	<1
MISC STD		-	-	-	-	-	12742
MISC STD		-	-	-	-	-	12313
Number of Analyses		-	-	-	-	-	2
Mean Value		-	-	-	-	-	12527.5
Standard Deviation		-	-	-	-	-	303.37
Accepted Value		-	-	-	-	-	-
BCC GEOCHEM STD 4		0.5	273	31	232	0.025	-
Number of Analyses		1	1	1	1	1	-
Mean Value		0.51	272.8	30.9	231.7	0.0251	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		0.5	290	33	255	0.030	-
BCC GEOCHEM STD 1		-	-	-	-	-	523
Number of Analyses		-	-	-	-	-	1
Mean Value		-	-	-	-	-	523.0
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-

Bondar-Clegg & Company Ltd.
130 Pemberton Avenue, North Vancouver, B.C., V7P 2R5, Canada
Tel: (604) 985-0681, Fax: (604) 985-1071

APPENDIX B: MAGNETOMETER SURVEY DATA

FILE AREA 83.DMP.
1/6

EDA OMNI-IV Tie-line MAG Ser #255138
TOTAL FIELD DATA (Base stn. corrected)
Date: 1 JUL 93
Operator: 3000
Reference field: 57800.0
Datum subtracted: 0.0
Records: 285
Bat: 16.0 Volt Lithium: 3.50 Volt
Last time update: 7/01 7:43:00
Start of print: 7/01 19:09:43

Base stn. Pos: 54+25 N Line: 91+50 E
Last time update: 7/01 7:43:00
Start of print: 7/01 19:09:43

Line: 97+00 W Date: 1 JUL 93 #1

POSITION	FIELD	ERR	DRIFT	TIME	DS
5+00 S	57799.9	.05	35.1	8:11:52	88
5+25 S	57804.6	.05	37.6	8:12:49	88
5+50 S	57813.7	.06	39.3	8:13:31	88
5+75 S	57801.5	.06	39.1	8:14:10	88
6+00 S	57802.7	.05	42.0	8:15:21	88
6+25 S	57807.5	.05	42.1	8:16:10	88
6+50 S	57802.5	.05	42.4	8:16:51	88
6+75 S	57800.1	.04	42.2	8:17:44	88
7+00 S	57795.4	.05	43.0	8:18:25	88
7+25 S	57805.8	.05	42.6	8:19:08	88
7+50 S	57802.8	.05	43.5	8:19:44	88
7+75 S	57798.2	.05	43.5	8:20:27	88
8+00 S	57799.0	.05	43.6	8:21:05	88
8+25 S	57793.7	.05	44.0	8:21:46	88
8+50 S	57791.7	.06	45.0	8:22:36	88
8+75 S	57795.9	.05	46.2	8:23:20	88
9+00 S	57790.7	.05	47.4	8:23:59	88
9+25 S	57800.2	.05	47.4	8:24:36	88
9+50 S	57792.8	.06	48.5	8:25:12	88
9+75 S	57795.3	.05	49.6	8:26:04	88
10+00 S	57797.1	.05	50.0	8:26:39	88
10+25 S	57790.4	.06	50.8	8:27:17	88
10+50 S	57792.4	.06	51.8	8:28:14	88
10+75 S	57794.4	.05	51.4	8:28:51	88
11+00 S	57796.5	.05	57.9	8:30:54	88
11+25 S	57824.6	.05	59.9	8:31:36	88
11+50 S	57823.2	.05	59.5	8:32:15	88
11+75 S	57837.7	.05	59.9	8:32:52	88
12+00 S	57810.8	.05	61.7	8:33:30	88
12+25 S	57829.7	.05	61.7	8:34:07	88
12+50 S	57826.3	.05	61.9	8:34:45	88
12+75 S	57854.3	.05	61.9	8:35:22	88
13+00 S	57878.3	.05	62.6	8:36:02	88
13+25 S	57871.5	.06	64.7	8:36:40	88
13+50 S	57844.8	.05	66.9	8:37:17	88
13+75 S	57839.0	.05	67.7	8:37:52	88
14+00 S	57837.2	.06	68.7	8:38:28	88
14+25 S	57843.6	.05	70.1	8:39:04	88
14+50 S	57821.6	.05	72.5	8:39:38	88

15+00	S	57823.0	.05	73.2	8:40:50 88
15+25	S	57837.5	.05	75.6	8:41:33 88
15+50	S	57846.4	.05	76.6	8:42:08 88
15+75	S	57835.6	.05	77.0	8:42:45 88
16+00	S	57829.7	.05	78.4	8:43:20 88
16+25	S	57835.8	.06	81.3	8:44:17 88
16+50	S	57825.6	.05	83.8	8:44:53 88
16+75	S	57816.0	.05	85.1	8:45:27 88
17+00	S	57811.6	.05	83.0	8:46:07 88

14175 S 57814.3 .06 73.3
15400 S 57823.0 .05 73.2

2/6

Line: ~~10+10~~ 10+00 W Date: 1 JUL 93 #50

POSITION		FIELD	ERR	DRIFT	TIME	DS
17+00	S	57848.3	.05	87.5	8:54:18	88
16+75	S	57849.0	.05	88.7	8:55:04	88
16+50	S	57850.4	.05	88.9	8:55:45	88
16+25	S	57849.1	.05	89.0	8:56:26	88
16+00	S	57863.9	.05	84.1	9:00:51	88
15+75	S	57872.3	.05	84.9	9:01:29	88
15+50	S	57863.6	.04	85.4	9:02:06	88
15+25	S	57870.4	.05	83.5	9:02:40	88
15+00	S	57867.7	.05	81.5	9:03:19	88
14+75	S	57871.3	.05	80.9	9:04:01	88
14+50	S	57876.1	.05	83.0	9:04:36	88
14+25	S	57888.5	.05	83.3	9:05:09	88
14+00	S	57899.0	.05	82.5	9:05:44	88
13+75	S	57922.4	.06	82.0	9:06:18	88
13+50	S	57966.8	.07	82.9	9:06:59	88
13+25	S	58120.0	.06	82.9	9:07:42	88
13+00	S	58044.3	.07	80.4	9:08:19	88
12+75	S	58009.7	.06	77.8	9:08:56	88
12+50	S	58060.8	.07	77.1	9:09:34	88
12+25	S	58114.1	.06	78.4	9:10:08	88
12+00	S	58063.2	.07	79.7	9:10:45	88
11+75	S	57964.5	.06	79.5	9:11:23	88
11+50	S	57858.4	.05	79.7	9:11:59	88
11+25	S	57910.3	.05	78.8	9:12:35	88
11+00	S	57850.3	.05	79.0	9:13:11	88
10+75	S	57817.0	.05	79.2	9:13:48	88
10+50	S	57752.6	.06	79.5	9:14:23	88
10+25	S	57762.0	.06	78.9	9:14:59	88
10+00	S	57899.6	.06	78.6	9:15:41	88
9+75	S	57855.3	.05	80.6	9:18:19	88
9+50	S	57772.8	.06	80.4	9:18:56	88
9+25	S	57896.9	.05	81.0	9:19:41	88
9+00	S	57890.2	.06	81.3	9:20:22	88
8+75	S	57854.0	.05	80.2	9:21:04	88
8+50	S	57879.7	.04	80.2	9:21:54	88
8+25	S	57780.4	.05	82.6	9:25:01	88
8+00	S	57740.4	.05	83.5	9:25:58	88
7+75	S	57761.5	.05	83.8	9:26:32	88
7+50	S	57764.4	.06	84.1	9:27:08	88
7+25	S	57773.6	.06	84.4	9:27:43	88
7+00	S	57778.8	.05	85.4	9:28:15	88
6+75	S	57782.3	.06	86.2	9:28:51	88
6+50	S	57783.2	.05	87.0	9:29:28	88
6+25	S	57785.8	.06	87.2	9:30:05	88
6+00	S	57792.2	.05	87.9	9:30:42	88
5+75	S	57795.9	.06	88.7	9:31:18	88
5+50	S	57800.6	.05	88.7	9:31:56	88

5+00	S	57798.9	.06	88.5	9:33:09 88
4+75	S	57797.4	.06	89.1	9:33:44 88
4+50	S	57799.6	.05	88.9	9:34:26 88
4+25	S	57799.1	.06	86.4	9:35:14 88
4+00	S	57798.1	.05	88.4	9:36:24 88
3+75	S	57799.1	.05	89.2	9:37:08 88
3+50	S	57808.1	.05	88.8	9:37:48 88
3+25	S	57804.9	.06	88.0	9:38:25 88
3+00	S	57809.6	.05	86.9	9:38:59 88
2+75	S	57809.1	.05	88.4	9:39:39 88
2+50	S	57810.0	.05	91.0	9:40:16 88
2+25	S	57816.7	.05	90.6	9:40:59 88
2+00	S	57814.8	.05	89.2	9:41:33 88
1+75	S	57813.2	.06	87.7	9:42:10 88
1+50	S	57813.2	.05	88.3	9:43:02 88
1+25	S	57817.9	.06	89.2	9:43:39 88
1+00	S	57804.7	.06	88.6	9:44:14 88
0+75	S	57810.6	.06	88.1	9:44:50 88
0+50	S	57815.5	.06	88.6	9:45:33 88
0+25	S	57820.1	.05	89.1	9:46:18 88
0+00	N	57813.4	.06	89.8	9:46:59 88

5725S 57793.7 .05 885
5700S 57798.9 .06 885

3/6

105+00
Line: ~~10+50~~ W Date: 1 JUL 93 #119

POSITION		FIELD	ERR	DRIFT	TIME	DS
2+00	N	57810.3	.05	89.8	9:59:59	88
1+75	N	57807.8	.05	90.9	10:01:01	88
1+50	N	57814.8	.06	90.0	10:02:54	88
1+25	N	57814.8	.05	89.8	10:03:28	88
1+00	N	57812.9	.05	88.5	10:04:14	88
0+75	N	57814.4	.05	86.9	10:05:01	88
0+50	N	57815.4	.05	87.3	10:05:44	88
0+25	N	57822.9	.05	87.1	10:06:25	88
0+00	N	57815.9	.05	87.7	10:07:16	88
0+25	S	57816.2	.05	87.9	10:07:54	88
0+50	S	57818.8	.05	88.0	10:08:34	88
0+75	S	57820.8	.06	87.7	10:09:14	88
1+00	S	57817.7	.05	88.9	10:09:54	88
1+25	S	57810.9	.05	89.3	10:10:34	88
1+50	S	57804.9	.05	88.6	10:11:16	88
1+75	S	57807.6	.06	87.1	10:11:58	88
2+00	S	57809.5	.05	86.4	10:12:42	88
2+25	S	57803.6	.06	85.8	10:13:21	88
2+50	S	57808.4	.05	85.6	10:13:57	88
2+75	S	57805.7	.05	86.0	10:14:35	88
3+00	S	57803.5	.05	86.4	10:15:11	88
3+25	S	57815.4	.05	86.0	10:15:54	88
3+50	S	57805.1	.05	85.9	10:16:30	88
3+75	S	57805.0	.06	86.7	10:17:10	88
4+00	S	57807.5	.06	87.5	10:17:53	88
4+25	S	57804.9	.05	87.5	10:18:31	88
4+50	S	57803.6	.05	87.2	10:19:08	88
4+75	S	57799.5	.05	87.0	10:19:47	88
5+00	S	57791.4	.05	87.5	10:20:25	88
5+25	S	57797.8	.05	87.7	10:21:02	88
5+50	S	57793.6	.05	87.2	10:21:46	88
5+75	S	57792.7	.05	86.9	10:22:31	88
6+00	S	57791.2	.05	86.5	10:23:14	88
6+25	S	57786.6	.06	85.7	10:24:03	88
6+50	S	57790.1	.04	85.7	10:24:45	88

4/6

7+00	S	57782.8	.06	83.3	10:26:03	88
7+25	S	57780.4	.05	82.2	10:26:48	88
7+50	S	57784.4	.05	83.1	10:27:27	88
7+75	S	57783.0	.06	84.5	10:28:08	88
[illegible]+00	S	57775.6	.05	83.0	10:28:54	88
[illegible]+25	S	57775.8	.05	82.0	10:29:32	88
8+50	S	57792.8	.06	82.0	10:30:09	88
8+75	S	57815.4	.04	81.4	10:30:46	88
9+00	S	57856.5	.06	81.1	10:31:41	88
9+25	S	57862.5	.05	81.3	10:32:31	88
9+50	S	57888.5	.05	80.6	10:33:13	88
9+75	S	57882.0	.05	79.6	10:33:55	88
10+00	S	57830.4	.05	79.6	10:34:33	88
10+25	S	57832.4	.05	80.0	10:35:17	88
10+50	S	57848.7	.06	79.9	10:35:55	88
10+75	S	57862.5	.05	78.2	10:36:53	88
11+00	S	57860.4	.05	77.5	10:40:19	88
11+25	S	57883.1	.05	77.6	10:40:52	88
11+50	S	57860.9	.05	77.6	10:41:45	88
11+75	S	57854.1	.05	77.2	10:42:19	88
12+00	S	57885.2	.05	77.6	10:42:54	88
12+25	S	57915.5	.06	77.8	10:43:28	88
12+50	S	57909.4	.05	76.9	10:44:02	88
12+75	S	57920.1	.05	75.2	10:44:39	88
13+00	S	57948.7	.06	74.4	10:45:16	88
13+25	S	57991.3	.06	73.1	10:45:54	88
13+50	S	58047.9	.07	72.1	10:46:31	88
13+75	S	57983.9	.06	72.0	10:47:09	88
14+00	S	57998.6	.06	72.2	10:47:48	88
14+25	S	58004.9	.06	72.4	10:48:31	88
[illegible]+50	S	57969.2	.06	71.7	10:49:23	88
14+75	S	57924.0	.05	70.4	10:53:05	88
15+00	S	57904.6	.05	69.3	10:54:07	88
15+25	S	57900.8	.05	69.1	10:54:45	88
15+50	S	57891.0	.05	69.2	10:55:22	88
15+75	S	57884.3	.06	69.0	10:55:59	88
16+00	S	57878.8	.05	67.6	10:56:38	88
16+25	S	57875.2	.05	67.1	10:57:15	88
16+50	S	57877.5	.05	68.9	10:58:17	88
16+75	S	57869.3	.05	69.8	10:58:54	88
17+00	S	57873.8	.05	69.2	10:59:30	88

Line: ~~10+90~~ 109+00 W Date: 1 JUL 93 #196

POSITION		FIELD	ERR	DRIFT	TIME	DS
17+00	S	57864.3	.06	64.9	11:16:50	88
16+75	S	57867.1	.05	64.5	11:17:43	88
16+50	S	57870.1	.05	63.7	11:18:34	88
16+25	S	57877.0	.06	63.1	11:19:24	88
16+00	S	57876.2	.05	63.6	11:20:02	88
15+75	S	57875.0	.05	63.2	11:20:40	88
15+50	S	57875.7	.06	60.5	11:21:16	88
15+25	S	57876.5	.05	59.4	11:21:53	88
15+00	S	57878.4	.05	61.0	11:22:35	88
14+75	S	57876.8	.05	62.1	11:23:13	88
14+50	S	57876.5	.06	61.2	11:23:52	88
[illegible]+25	S	57869.4	.05	60.1	11:24:30	88
[illegible]+00	S	57866.9	.06	59.9	11:25:10	88
13+75	S	57869.9	.05	59.1	11:25:47	88
13+50	S	57863.9	.05	59.1	11:26:37	88

13+00	S	57864.1	.06	59.6	11:27:55	88
12+75	S	57875.5	.05	60.8	11:28:33	88
12+50	S	57875.7	.05	61.3	11:29:18	88
12+25	S	57871.8	.05	59.8	11:30:04	88
[illegible]+00	S	57872.9	.06	62.2	11:33:52	88
11+75	S	57876.9	.05	62.4	11:34:48	88
11+50	S	57874.6	.05	62.8	11:35:29	88
11+25	S	57875.5	.05	61.9	11:36:11	88
11+00	S	57864.2	.05	60.4	11:36:51	88
10+75	S	57858.0	.05	59.1	11:37:28	88
10+50	S	57860.8	.05	58.8	11:38:04	88
10+25	S	57863.1	.05	59.3	11:38:41	88
10+00	S	57874.9	.05	59.4	11:39:18	88
9+75	S	57892.1	.06	60.0	11:39:55	88
9+50	S	57907.7	.06	59.2	11:40:35	88
9+25	S	57909.5	.05	57.7	11:41:14	88
9+00	S	57898.5	.05	56.8	11:41:58	88
8+75	S	57883.5	.05	57.5	11:42:36	88
8+50	S	57865.5	.05	57.6	11:43:15	88
8+25	S	57875.0	.05	57.9	11:43:57	88
8+00	S	57871.3	.06	55.8	11:44:45	88
7+75	S	57854.6	.05	54.0	11:45:33	88
7+50	S	57850.9	.05	53.5	11:46:07	88
7+25	S	57840.0	.05	54.8	11:47:04	88
7+00	S	57838.3	.06	56.5	11:47:54	88
6+75	S	57831.4	.05	57.2	11:48:33	88
6+50	S	57795.3	.06	56.2	11:49:12	88
6+25	S	57771.5	.06	55.5	11:49:53	88
6+00	S	57770.7	.05	54.0	11:50:32	88
[illegible]+75	S	57796.9	.05	53.4	11:51:43	88
[illegible]+50	S	57793.0	.05	54.9	11:52:48	88
5+25	S	57780.5	.05	55.8	11:53:34	88
5+00	S	57783.1	.06	57.7	11:59:10	88
4+75	S	57788.3	.05	56.5	12:00:05	88
4+50	S	57785.6	.05	55.9	12:00:40	88
4+25	S	57782.0	.05	53.9	12:01:13	88
4+00	S	57783.5	.05	52.5	12:01:50	88
3+75	S	57782.2	.05	52.6	12:02:32	88
3+50	S	57790.2	.05	53.4	12:03:05	88
3+25	S	57794.2	.05	53.7	12:03:48	88
3+00	S	57788.0	.05	53.1	12:04:22	88
2+75	S	57790.9	.05	52.4	12:04:55	88
2+50	S	57792.5	.05	52.8	12:06:15	88
2+25	S	57795.8	.06	53.0	12:06:53	88
2+00	S	57794.0	.05	53.0	12:07:24	88
1+75	S	57797.0	.06	52.7	12:07:55	88
1+50	S	57803.9	.05	52.5	12:08:28	88
1+25	S	57801.4	.05	53.4	12:09:35	88
1+00	S	57800.4	.06	53.8	12:10:17	88
0+75	S	57809.8	.06	50.7	12:15:14	88
0+50	S	57809.6	.05	51.3	12:15:49	88
0+25	S	57805.4	.05	50.9	12:16:26	88
0+00	N	57812.9	.05	51.1	12:17:12	88
0+25	N	57811.4	.05	51.4	12:18:30	88
0+50	N	57812.9	.06	51.7	12:19:09	88
[illegible]+75	N	57818.9	.06	51.7	12:19:46	88
1+00	N	57818.7	.05	52.0	12:20:28	88
1+25	N	57809.3	.05	52.7	12:21:07	88
1+50	N	57810.5	.05	54.0	12:21:43	88

13+25 S 57864.2 .05 59.2
13+00 S 57864.1 .06 59.6

5/6

ROM

2+00	N	57817.9	.05	49.2	12:23:03	88
2+25	N	57818.2	.06	52.3	12:23:47	88
2+50	N	57813.7	.06	53.9	12:24:34	88
2+75	N	57823.3	.05	53.0	12:25:18	88
3+	N	57814.7	.05	52.5	12:26:10	88

1476N 57813.3 .05
2100N 57817.9 .05 4

6/6

ine: 97+00 W Date: 1 JUL 93 #277

OSITION		FIELD	ERR	DRIFT	TIME	DS
3+00	S	57813.3	.05	49.6	12:58:53	88
3+25	S	57813.7	.05	51.5	12:59:39	88
3+50	S	57805.9	.05	53.0	13:00:18	88
3+75	S	57820.0	.05	53.6	13:00:54	88
4+00	S	57808.3	.06	54.0	13:01:27	88
4+25	S	57800.6	.05	54.4	13:02:03	88
4+50	S	57829.8	.06	53.0	13:03:12	88
4+75	S	57803.7	.05	51.7	13:03:50	88
5+00	S	57814.5	.05	51.1	13:04:41	88

EOF

RLE AREA 23-2.DMP
1/3

EDA OMNI-IV Tie-line MAG Ser #255138
TOTAL FIELD DATA (Base stn. corrected)
Date: 3 JUL 93
Operator: 3000
Reference field: 57800.0
Datum subtracted: 0.0
Records: 110
Bat: 16.7 Volt Lithium: 3.50 Volt
Last time update: 7/01 7:43:00
Start of print: 7/03 20:42:08

Base stn. Pos: 2+00 S Line: 2+00 W
Last time update: 2/00 2:00:02
Start of print: 7/03 20:42:08

Line: 81+00 W Date: 3 JUL 93 #1

POSITION	FIELD	ERR	DRIFT	TIME	DS
17+00 S	57867.9	.05	88.1	16:31:21	88
17+25 S	57845.0	.05	87.8	16:32:05	88
17+50 S	57832.4	.05	86.9	16:33:11	88
17+75 S	57828.3	.05	87.8	16:33:45	88
18+00 S	57830.2	.06	89.3	16:34:24	88
18+25 S	57837.4	.05	91.0	16:34:56	88
18+50 S	57858.1	.05	90.9	16:35:30	88
18+75 S	57866.5	.05	90.8	16:36:04	88
19+00 S	57863.1	.05	90.8	16:36:37	88
19+25 S	57855.6	.05	91.5	16:37:13	88
19+50 S	57859.7	.05	92.2	16:37:44	88
19+75 S	57863.7	.05	91.8	16:38:18	88
20+00 S	57875.9	.05	91.5	16:38:53	88
20+25 S	57889.5	.05	92.4	16:39:32	88
20+50 S	57887.1	.05	92.9	16:40:06	88
20+75 S	57875.8	.05	92.9	16:40:41	88
21+00 S	57863.2	.06	91.3	16:41:14	88
21+25 S	57854.8	.06	91.3	16:41:57	88
21+50 S	57849.7	.05	93.0	16:42:38	88
21+75 S	57845.1	.05	92.2	16:43:14	88
22+00 S	57846.5	.05	91.1	16:43:47	88
22+25 S	57844.7	.05	90.0	16:44:23	88
22+50 S	57846.5	.05	89.8	16:45:01	88
22+75 S	57842.5	.05	89.3	16:45:36	88
23+00 S	57842.2	.05	89.0	16:46:14	88
23+25 S	57839.8	.05	88.9	16:46:45	88
23+50 S	57837.1	.05	90.0	16:47:17	88
23+75 S	57830.1	.05	89.8	16:47:49	88
24+00 S	57830.4	.05	90.3	16:48:23	88
24+25 S	57835.7	.05	89.7	16:48:56	88
24+50 S	57839.7	.05	87.9	16:49:57	88
24+75 S	57837.9	.05	87.6	16:50:30	88
25+00 S	57827.8	.06	89.4	16:51:03	88
25+25 S	57829.1	.06	91.6	16:51:58	88
25+50 S	57832.0	.05	91.8	16:52:31	88

Line: 93+00 W Date: 3 JUL 93 #36

POSITION	FIELD	ERR	DRIFT	TIME	DS
25+50 S	57798.7	.06	97.4	17:11:41	88

25+00	S	57806.6	.06	96.0	17:12:57	88
24+75	S	57804.7	.04	95.2	17:13:33	88
24+50	S	57802.2	.06	94.4	17:14:05	88
24+25	S	57796.6	.06	95.1	17:14:40	88
[illegible]+00	S	57801.5	.05	95.7	17:15:12	88
23+75	S	57801.2	.05	96.2	17:15:45	88
23+50	S	57802.7	.05	94.8	17:16:18	88
23+25	S	57801.2	.05	94.0	17:16:52	88
23+00	S	57806.7	.06	94.5	17:17:24	88
22+75	S	57807.3	.05	95.5	17:17:58	88
22+50	S	57805.9	.05	95.6	17:18:30	88
22+25	S	57804.0	.04	95.9	17:19:01	88
22+00	S	57802.2	.05	95.4	17:19:33	88
21+75	S	57805.5	.05	94.5	17:20:06	88
21+50	S	57809.7	.05	94.7	17:20:39	88
21+25	S	57808.6	.05	95.0	17:21:11	88
21+00	S	57804.8	.06	95.8	17:21:50	88
20+75	S	57815.0	.05	95.1	17:22:23	88
20+50	S	57812.4	.05	93.1	17:22:56	88
20+25	S	57807.3	.05	93.7	17:23:29	88
20+00	S	57818.0	.06	98.6	17:24:14	88
19+75	S	57811.3	.06	99.1	17:24:49	88
19+50	S	57813.9	.05	96.3	17:25:23	88
19+25	S	57810.7	.05	95.7	17:25:57	88
19+00	S	57811.1	.05	97.9	17:26:29	88
18+75	S	57806.5	.05	99.7	17:27:03	88
18+50	S	57806.7	.06	100.4	17:28:51	88
18+25	S	57807.4	.05	101.8	17:29:26	88
18+00	S	57804.5	.06	102.3	17:29:58	88
[illegible]+75	S	57801.4	.05	101.7	17:30:32	88
[illegible]+50	S	57802.7	.06	101.4	17:31:07	88
17+25	S	57810.9	.05	103.2	17:31:42	88
17+00	S	57817.5	.05	104.6	17:32:18	88
16+75	S	57813.8	.05	104.4	17:32:50	88
16+50	S	57806.5	.05	103.2	17:33:23	88
16+25	S	57810.5	.05	103.0	17:33:58	88
16+00	S	57797.5	.05	103.4	17:34:31	88
15+75	S	57798.6	.06	104.3	17:35:24	88
15+50	S	57794.3	.05	104.8	17:35:56	88
15+25	S	57806.6	.06	105.1	17:36:31	88
15+00	S	57786.9	.06	104.9	17:37:07	88
14+75	S	57777.8	.06	105.4	17:37:49	88
14+50	S	57894.4	.07	107.3	17:38:37	88
14+25	S	57808.7	.05	109.2	17:39:19	88
14+00	S	57799.8	.05	109.6	17:39:57	88
13+75	S	57809.3	.05	109.0	17:40:38	88
13+50	S	57803.4	.06	109.5	17:41:11	88
13+25	S	57805.8	.05	110.3	17:41:53	88
13+00	S	57793.2	.05	110.3	17:42:32	88
12+75	S	57795.3	.05	110.6	17:43:05	88
12+50	S	57797.1	.06	111.2	17:43:44	88
12+25	S	57807.1	.05	111.8	17:44:22	88
12+00	S	57809.1	.09	111.8	17:45:01	88
11+75	S	57823.6	.05	112.4	17:45:33	88
11+50	S	57822.6	.05	113.3	17:46:06	88
[illegible]+25	S	57826.4	.06	113.8	17:46:42	88
11+00	S	57821.6	.06	113.8	17:47:18	88
10+75	S	57826.0	.05	113.8	17:47:51	88
10+50	S	57813.5	.06	113.4	17:48:26	88

25125 S 57806.3 .05 97.1
25100 S 57806.6 .06 96.0

2/3

10+00	S	57809.3	.06	115.0	17:49:36	88
9+75	S	57807.0	.06	115.3	17:50:11	88
9+50	S	57803.9	.05	115.4	17:50:46	88
9+25	S	57802.2	.05	115.8	17:51:22	88
9+00	S	57800.5	.05	115.9	17:51:54	88
8+75	S	57807.9	.06	115.4	17:52:42	88
8+50	S	57799.5	.05	116.9	17:53:36	88
8+25	S	57807.9	.05	119.7	17:55:39	88
8+00	S	57809.8	.05	119.2	17:56:21	88
7+75	S	57797.8	.06	119.4	17:56:58	88
7+50	S	57806.8	.06	120.2	17:57:32	88
7+25	S	57832.2	.06	120.6	17:58:10	88
7+00	S	57800.1	.05	121.8	17:58:47	88

10+25 S 57807.4 .05 114.1
10+00 S 57809.3 .06 115.0

3/3

EOF

FILE AREA1-1.BAS

1/1

EDA OMNI-IV Tie-line MAG Ser #255138
TOTAL FIELD DATA (Base stn. corrected)
Date: 12 JUL 93
Operator: 3000
Reference field: 57800.0
Datum subtracted: 0.0
Records: 33
Bat: 16.2 Volt Lithium: 3.50 Volt
Last time update: 7/12 13:12:00
Start of print: 7/12 22:09:02

Base stn. Pos: -200 Line: -200
Last time update: 7/12 13:12:00
Start of print: 7/12 22:09:02

Line: -7300 Date: 12 JUL 93 #1

POSITION	FIELD	ERR	DRIFT	TIME	DS
5350	57777.3	.05	152.2	16:16:58	88
5325	57769.6	.05	154.1	16:18:40	88
5300	57763.4	.05	154.1	16:20:07	88
5275	57749.3	.06	154.2	16:21:20	88
5250	57799.3	.06	155.4	16:23:35	88
5225	57788.4	.06	156.8	16:25:22	88
5200	57789.1	.05	160.2	16:26:46	88
5175	57787.6	.06	161.9	16:28:16	88
5150	57798.5	.06	163.3	16:29:41	88
5125	57807.2	.05	164.0	16:31:37	88
5100	57837.7	.07	163.9	16:33:18	88
5075	57806.9	.06	163.0	16:34:16	88
5050	57771.3	.06	162.7	16:34:59	88
5025	57773.5	.05	161.0	16:35:51	88
5000	57796.4	.05	161.7	16:36:37	88
4975	57802.2	.05	161.6	16:37:34	88
4950	57790.6	.05	162.5	16:38:13	88
4925	57757.8	.05	161.6	16:39:16	88
4900	57777.1	.05	162.3	16:40:23	88
4875	57780.0	.05	158.2	16:41:34	88
4850	57786.3	.05	159.4	16:42:23	88
4825	57772.5	.05	158.0	16:43:06	88
4800	57769.9	.05	157.8	16:43:47	88
4775	57789.2	.06	157.6	16:44:22	88
4750	57792.4	.05	155.3	16:45:16	88
4725	57800.3	.06	155.9	16:46:23	88
4700	57793.2	.05	155.3	16:47:35	88
4675	57795.4	.06	155.6	16:48:28	88
4650	57787.7	.05	154.2	16:49:15	88
4625	57808.0	.06	150.9	16:51:34	88
4600	57811.2	.05	147.5	16:52:30	88
4575	57827.4	.05	147.3	16:53:31	88
4550	57805.0	.05	146.4	16:54:27	88

EOF

EDA OMNI-IV Tie-line MAG Ser #255138
TOTAL FIELD DATA (Base stn. corrected)
Date: 14 JUL 93
Operator: 3000
Reference field: 57800.0
Datum subtracted: 0.0
Records: 117
Bat: 16.3 Volt Lithium: 3.50 Volt
Last time update: 7/14 13:10:00
Start of print: 7/14 16:29:24

Base stn. Pos: -200 Line: -200
Last time update: 7/14 13:10:00
Start of print: 7/14 16:29:24

Line: -7750 Date: 14 JUL 93 #1

POSITION	FIELD	ERR	DRIFT	TIME	DS
4550	57817.1	.06	116.5	13:31:15	88
4575	57823.9	.05	116.6	13:32:24	88
4600	57826.9	.05	116.4	13:33:36	88
4625	57820.5	.05	116.5	13:34:56	88
4650	57807.8	.06	116.3	13:35:57	88
4675	57802.5	.05	4700	57802.6 .06	116.0 13:37:45 88
4725	57802.9	.05	116.3	13:39:22	88
4750	57831.0	.05	116.1	13:40:05	88
4775	57819.8	.05	115.7	13:41:02	88
4800	57783.7	.05	116.1	13:41:53	88
4825	57806.2	.05	116.2	13:42:51	88
4850	57777.1	.05	115.9	13:43:35	88
4875	57779.3	.05	115.6	13:44:27	88
4900	57764.5	.06	115.9	13:45:08	88
4925	57787.8	.05	115.9	13:46:21	88
4950	57776.2	.05	116.2	13:48:12	88
4975	57774.5	.05	116.6	13:49:57	88
5000	57760.0	.06	116.9	13:52:11	88
5025	57759.0	.09	117.0	13:53:36	88
5050	57788.4	.11	117.2	13:56:20	88
5075	57803.7	.05	117.9	13:58:12	88
5100	57807.7	.07	118.7	14:00:20	88
5100	57800.7	.05	119.1	14:05:51	88
5125	57807.6	.05	118.7	14:08:24	88
5150	57803.9	.05	117.7	14:10:15	88
5175	57764.8	.07	118.4	14:12:23	88
5200	57775.7	.06	118.7	14:14:30	88
5225	57802.3	.05	119.2	14:15:44	88
5250	57832.1	.14	120.0	14:17:07	88
5275	57887.2	.08	120.4	14:18:56	88
5300	57870.2	.05	120.4	14:22:31	88
5325	57799.9	.05	121.3	14:24:47	88
5350	57780.4	.05	120.2	14:26:11	88

Line: -7900 Date: 14 JUL 93 #35

POSITION	FIELD	ERR	DRIFT	TIME	DS
5025	57765.2	.05	121.1	14:50:02	88
5000	57766.7	.06	121.4	14:50:49	88
4975	57782.2	.05	121.5	14:51:33	88
4950	57833.9	.05	121.7	14:52:10	88
4925	57873.8	.06	121.5	14:52:51	88
4900	58031.4	.07	121.5	14:53:38	88
4875	57853.8	.06	121.4	14:54:12	88
4850	57788.8	.05	121.7	14:54:45	88
4825	57779.9	.05	121.6	14:55:18	88

4825 57779.9 0.05 121.6
4800 57771.4 .05 121.4

4725	57801.0	.05	121.0	14:58:35	88
4700	57812.9	.05	120.8	14:59:05	88
4675	57824.8	.05	121.0	14:59:33	88
4650	57830.4	.05	120.9	15:00:01	88
4625	57836.2	.05	120.7	15:00:34	88
4600	57834.7	.05	120.4	15:01:01	88
4575	57818.3	.05	120.3	15:01:35	88
4550	57814.8	.05	120.3	15:02:07	88

4725 57801.0 .05 121.0

2/3

Line: -8200 Date: 14 JUL 93 #53

POSITION	FIELD	ERR	DRIFT	TIME	DS
4550	57791.1	.06	119.9	15:08:10	88
4575	57798.4	.06	120.2	15:09:00	88
4600	57839.0	.06	120.2	15:09:28	88
4625	57802.1	.05	120.1	15:09:59	88
4650	57793.8	.05	120.0	15:10:29	88
4675	57784.5	.05	119.8	15:11:00	88
4700	57760.8	.06	120.2	15:11:42	88
4725	57772.7	.06	120.3	15:12:19	88
4750	57763.4	.06	120.0	15:12:52	88
4775	57758.3	.05	120.1	15:13:32	88
4800	57765.3	.05	120.0	15:14:02	88
4825	57766.5	.06	120.0	15:14:33	88
4850	57733.3	.06	120.0	15:15:10	88
4875	57725.6	.05	120.0	15:15:46	88
4900	57757.3	.05	119.8	15:16:19	88
4925	57760.9	.06	119.8	15:16:51	88
4950	57765.3	.05	119.7	15:17:23	88
4975	57772.2	.06	119.9	15:17:57	88
5000	57766.8	.06	119.9	15:18:35	88
5025	57767.1	.05	119.8	15:19:09	88
5050	57764.1	.05	119.8	15:19:52	88
5075	57754.1	.05	119.5	15:21:05	88
5100	57761.2	.06	119.7	15:21:57	88
5125	57762.9	.06	119.7	15:22:33	88
5150	57764.8	.05	120.0	15:23:15	88
5175	57764.3	.05	120.2	15:23:49	88
5200	57765.8	.06	120.4	15:24:24	88
5225	57772.0	.06	120.5	15:24:57	88
5250	57776.1	.06	120.3	15:25:32	88
5275	57781.7	.06	120.6	15:26:05	88
5300	57775.8	.05	121.0	15:26:42	88
5325	57778.0	.05	121.1	15:27:15	88
5350	57768.3	.05	121.1	15:27:53	88

Line: -8400 Date: 14 JUL 93 #86

POSITION	FIELD	ERR	DRIFT	TIME	DS
5325	57776.8	.05	123.0	15:33:24	88
5300	57775.3	.06	123.3	15:33:54	88
5275	57775.1	.06	123.6	15:34:23	88
5250	57777.2	.06	123.7	15:34:55	88
5225	57777.7	.06	123.7	15:35:29	88
5200	57771.8	.05	124.1	15:35:59	88
5175	57767.3	.06	124.4	15:36:31	88
5150	57765.3	.06	124.6	15:36:59	88
5125	57762.7	.05	125.0	15:37:29	88
5100	57758.7	.06	125.0	15:37:58	88
5075	57747.4	.06	125.1	15:38:31	88
5050	57767.9	.05	125.4	15:39:07	88
5025	57771.5	.05	125.6	15:39:44	88
5000	57766.5	.06	125.5	15:40:21	88
4975	57765.6	.05	125.5	15:40:51	88
4950	57725.7	.06	125.9	15:41:25	88

4925 57788.2 .06 126.1

4900 57780.6 .05 126.0

FROM

4850	57777.7	.06	126.2	15:43:54	88
4825	57766.6	.06	126.2	15:44:36	88
4800	57775.7	.05	126.3	15:45:09	88
4775	57791.1	.05	126.4	15:45:38	88
4750	57804.3	.05	126.4	15:46:13	88
4725	57822.2	.05	126.4	15:46:38	88
4700	57862.1	.06	126.6	15:47:12	88
4675	57853.5	.05	126.5	15:47:54	88
4650	57827.0	.05	126.4	15:48:25	88
4625	57825.5	.06	126.6	15:48:55	88
4600	57816.0	.05	126.8	15:49:41	88
4575	57797.6	.05	126.3	15:54:00	88
4550	57754.7	.05	126.6	15:54:40	88

4875 57781.6 .05 126.0
4850 57777.7 .06 126.2

3/3.

EOF

FILE AREA1-2.BAS

1/2

EDA OMNI-IV Tie-line MAG Ser #255138
TOTAL FIELD DATA (Base stn. corrected)
Date: 13 JUL 93
Operator: 3000
Reference field: 57800.0
Datum subtracted: 0.0
Records: 66
Bat: 16.1 Volt Lithium: 3.50 Volt
Last time update: 7/12 13:12:00
Start of print: 7/13 21:47:15

Base stn. Pos: -200 Line: -200
Last time update: 7/12 13:12:00
Start of print: 7/13 21:47:14

Line: 7450 Date: 13 JUL 93 #1

POSITION	FIELD	ERR	DRIFT	TIME	DS
5350	57788.5	.05	117.7	14:30:43	88
5325	57784.0	.05	117.2	14:32:42	88
5300	57779.6	.05	117.2	14:33:48	88
5275	57788.9	.05	117.6	14:34:58	88
5250	57801.9	.11	116.5	14:37:11	88
5225	57817.6	.06	117.0	14:38:41	88
5200	57857.5	.05	118.2	14:40:50	88
5175	57868.0	.06	119.5	14:42:48	88
5150	57832.9	.05	122.6	14:45:20	88
5125	57811.4	.05	124.2	14:47:10	88
5100	57797.7	.05	124.5	14:48:59	88
5075	57794.1	.06	124.8	14:50:43	88
5050	57778.3	.06	124.5	14:51:40	88
5025	57816.4	.05	125.1	14:52:31	88
5000	57790.4	.09	125.3	14:53:56	88
4975	57808.1	.05	125.4	14:54:53	88
4950	57840.7	.06	125.0	14:55:40	88
4925	57865.0	.05	125.1	14:56:23	88
4900	57845.6	.06	125.4	14:57:09	88
4875	57812.1	.06	125.9	14:57:58	88
4850	57798.6	.06	126.3	14:59:02	88
4825	57790.0	.06	126.8	15:00:18	88
4800	57784.3	.05	126.8	15:01:28	88
4775	57781.2	.06	127.9	15:02:26	88
4750	57795.9	.05	128.4	15:03:27	88
4725	57796.1	.06	128.6	15:04:20	88
4700	57807.3	.05	127.4	15:05:27	88
4675	57817.6	.06	128.7	15:06:24	88
4650	57818.0	.06	129.5	15:07:42	88
4625	57815.5	.05	129.4	15:08:26	88
4600	57825.7	.05	130.0	15:09:08	88
4575	57859.0	.06	130.9	15:09:49	88
4550	57849.2	.06	132.0	15:10:35	88

Line: -7750 Date: 13 JUL 93 #34

POSITION	FIELD	ERR	DRIFT	TIME	DS
5350	57912.8	.06	0.0	18:28:38	88
5325	57936.4	.06	0.0	18:30:06	88
5300	58006.5	.08	0.0	18:31:43	88
5275	58011.7	.09	0.0	18:33:10	88
5250	57965.9	.05	0.0	18:34:21	88
5225	57935.6	.06	0.0	18:35:34	88
5200	57911.3	.06	0.0	18:36:42	88
5175	57900.4	.06	0.0	18:38:21	88

5150 57939.8 .05 0.0

5100	57935.1	.04	0.0	18:42:57	88
5075	57925.0	.06	0.0	18:44:05	88
5050	57902.4	.06	0.0	18:45:18	88
5025	57894.4	.05	0.0	18:46:12	88
5000	57895.1	.05	0.0	18:47:13	88
4975	57913.4	.06	0.0	18:48:12	88
4950	57915.7	.05	0.0	18:49:31	88
4925	57928.6	.05	0.0	18:50:32	88
4900	57902.9	.05	0.0	18:51:25	88
4875	57915.8	.05	0.0	18:52:03	88
4850	57911.5	.06	0.0	18:52:44	88
4825	57941.5	.05	0.0	18:53:24	88
4800	57918.9	.06	0.0	18:54:02	88
4775	57951.8	.05	0.0	18:54:39	88
4750	57964.5	.05	0.0	18:55:22	88
4725	57938.7	.05	0.0	18:55:58	88
4700	57937.7	.05	0.0	18:56:35	88
4675	57937.8	.05	0.0	18:57:15	88
4650	57944.5	.05	0.0	18:58:02	88
4625	57956.6	.06	0.0	18:59:00	88
4600	57959.5	.06	0.0	19:00:13	88
4575	57959.2	.05	0.0	19:01:09	88
4550	57952.1	.05	0.0	19:02:09	88

5125 57946.0 .06
5100 57935.1 .04

2/2

EOF

2
FILE AREA4-DMP.

1/4

EDA OMNI-IV Tie-line MAG Ser #255138
TAL FIELD DATA (Base stn. corrected)
Date: 4 JUL 93
Operator: 3000
Reference field: 57800.0
Datum subtracted: 0.0
Records: 209
Bat: 16.5 Volt Lithium: 3.50 Volt
Last time update: 7/04 10:37:00
Start of print: 7/04 19:49:37

Base stn. Pos: 2+00 S Line: 2+00 W
Last time update: 7/04 10:37:00
Start of print: 7/04 19:49:35

Line: 12+80 E Date: 4 JUL 93 #1

POSITION	FIELD	ERR	DRIFT	TIME	DS
14+25 N	57826.3	.05	135.0	11:01:30	88
14+50 N	57826.7	.06	134.9	11:01:52	88
14+75 N	57828.9	.05	134.9	11:02:40	88
14+00 N	57827.4	.05	135.0	11:06:06	88
14+25 N	57826.7	.05	134.9	11:07:11	88
14+50 N	57829.7	.05	134.6	11:07:51	88
14+75 N	57834.7	.05	135.1	11:08:54	88
15+00 N	57840.4	.05	135.2	11:09:57	88
14+00 N	57826.7	.05	133.2	11:14:17	88
14+25 N	57826.8	.05	133.2	11:14:36	88
14+50 N	57829.0	.05	132.6	11:15:21	88
14+75 N	57835.6	.05	133.6	11:16:14	88
15+00 N	57840.8	.05	134.4	11:17:00	88
15+25 N	57838.8	.05	134.1	11:18:15	88
15+50 N	57848.4	.05	133.5	11:19:05	88
15+75 N	57856.0	.05	133.4	11:19:49	88
16+00 N	57873.9	.04	134.3	11:21:08	88
16+25 N	57870.5	.06	134.0	11:23:03	88
16+50 N	57881.6	.06	135.1	11:23:58	88
16+75 N	57891.4	.06	135.3	11:24:51	88
17+00 N	57910.6	.06	134.5	11:25:49	88
17+25 N	57925.0	.06	133.3	11:26:46	88
17+50 N	57929.6	.06	132.9	11:31:06	88
17+75 N	57910.9	.06	130.9	11:34:20	88
18+00 N	57890.6	.06	130.1	11:35:16	88
18+25 N	57892.3	.06	131.0	11:36:08	88
18+50 N	57924.4	.06	131.1	11:37:01	88
18+75 N	57789.2	.06	130.9	11:38:03	88
19+00 N	57762.7	.05	130.6	11:39:18	88
19+75 N	57851.3	.04	133.0	12:08:14	88
20+00 N	57850.8	.05	133.3	12:08:42	88
20+25 N	57814.4	.05	131.7	12:09:41	88
20+50 N	57854.2	.05	131.6	12:10:51	88
20+75 N	57846.7	.04	131.3	12:11:48	88
21+00 N	57811.3	.05	130.8	12:13:10	88
21+25 N	57831.2	.05	131.7	12:15:39	88
21+50 N	57847.7	.05	133.0	12:16:42	88
21+75 N	57868.1	.05	134.6	12:18:02	88

22+00	N	57890.1	.07	134.5	12:18:51 88
22+25	N	57899.8	.06	134.7	12:19:52 88
22+50	N	57902.5	.07	134.4	12:20:40 88
22+75	N	57902.4	.06	134.1	12:21:26 88
23+00	N	57882.1	.06	134.2	12:22:12 88
23+25	N	57840.1	.06	133.7	12:23:00 88
23+50	N	57813.4	.05	133.3	12:23:54 88
23+75	N	57809.8	.05	132.7	12:24:55 88
24+00	N	57808.5	.05	132.3	12:25:39 88
24+25	N	57857.9	.05	131.0	12:26:36 88
24+50	N	57904.7	.05	131.2	12:27:48 88
24+75	N	57771.5	.06	132.5	12:28:53 88
25+00	N	57826.4	.05	135.4	12:31:21 88
25+25	N	57905.6	.05	135.8	12:32:28 88
25+50	N	57803.9	.06	136.2	12:33:39 88
25+75	N	57770.3	.05	135.2	12:34:32 88
26+00	N	57789.7	.05	134.4	12:35:37 88
26+25	N	57802.6	.05	134.5	12:36:32 88

22+00N 57890.1 .07 134.5
22+25N 57899.8 .06 1347

2/4

Line: 9+75 E Date: 4 JUL 93 #57

POSITION		FIELD	ERR	DRIFT	TIME	DS
27+00	N	57838.5	.06	134.2	13:11:22	88
27+25	N	57838.6	.05	134.2	13:11:35	88
27+00	N	57838.8	.05	133.8	13:12:49	88
26+75	N	57838.8	.05	133.9	13:13:06	88
26+50	N	57833.6	.06	133.9	13:14:26	88
26+25	N	57826.8	.05	133.9	13:15:09	88
26+00	N	57813.8	.05	134.6	13:15:53	88
25+75	N	57807.2	.05	134.7	13:16:38	88
25+50	N	57803.8	.07	134.4	13:17:23	88
25+25	N	57810.3	.05	134.6	13:18:04	88
25+00	N	57807.1	.05	134.2	13:18:48	88
24+75	N	57812.3	.06	133.9	13:19:28	88
24+50	N	57817.5	.05	133.9	13:20:09	88
24+25	N	57761.1	1.6	133.6	13:20:47	88
24+00	N	57810.8	.05	133.1	13:21:30	88
23+75	N	57848.0	.05	133.3	13:22:14	88
23+50	N	57866.3	.04	133.6	13:22:54	88
23+25	N	57850.6	.05	133.8	13:23:41	88
23+00	N	57848.4	.05	134.3	13:24:31	88
22+75	N	57854.0	.05	134.5	13:25:27	88
22+50	N	57874.2	.05	135.2	13:26:10	88
22+25	N	57915.7	.07	135.3	13:26:51	88
22+00	N	58004.0	.06	135.5	13:27:41	88
21+75	N	58046.9	.06	135.9	13:28:32	88
21+50	N	58041.3	.06	136.5	13:29:12	88
21+25	N	57959.5	.07	136.7	13:29:49	88
21+00	N	58009.5	.06	136.6	13:30:34	88

Line: 6+50 E Date: 4 JUL 93 #84

POSITION		FIELD	ERR	DRIFT	TIME	DS
27+50	N	57841.1	.08	138.5	14:05:07	88
27+25	N	57841.0	.05	138.5	14:05:16	88
27+00	N	57851.6	.05	140.2	14:06:31	88
26+75	N	57867.2	.05	140.0	14:07:19	88
26+50	N	57867.5	.07	140.1	14:08:12	88
26+25	N	57860.9	.06	140.1	14:08:59	88
26+00	N	57849.2	.07	140.2	14:09:45	88
25+75	N	57847.0	.04	140.2	14:10:36	88
25+50	N	57853.1	.05	139.8	14:11:35	88

25+25	N	57860.7	.05	139.6	14:12:46 88
25+00	N	57878.4	.07	139.3	14:13:33 88
24+75	N	57875.7	.07	139.1	14:14:23 88
24+50	N	57865.6	.06	139.4	14:15:09 88
24+25	N	57838.0	.06	139.9	14:15:57 88
[illegible]+00	N	57825.3	.05	139.9	14:16:47 88
23+75	N	57838.0	.05	139.5	14:17:36 88
23+50	N	57838.0	.05	139.5	14:18:22 88
23+25	N	57851.2	.05	139.0	14:19:11 88
23+00	N	57855.8	.05	138.0	14:19:54 88
22+75	N	57881.5	.07	137.3	14:20:47 88
22+50	N	57888.8	.06	137.3	14:21:30 88
22+25	N	57914.7	.07	137.4	14:22:07 88
22+00	N	57914.0	.07	136.8	14:22:49 88
21+75	N	57955.9	.06	136.7	14:23:33 88
21+50	N	58015.5	.06	136.5	14:24:14 88
21+25	N	57940.3	.07	136.5	14:24:57 88
21+00	N	57882.1	.06	136.4	14:25:40 88
20+75	N	57852.6	.08	136.0	14:26:23 88
20+50	N	57841.4	.06	135.6	14:27:13 88
20+25	N	57860.8	.05	135.7	14:29:28 88
20+00	N	57857.0	.05	135.5	14:30:16 88
19+75	N	57990.4	.05	138.5	14:31:03 88
19+50	N	57972.7	.06	135.8	14:31:52 88
19+25	N	57925.4	.06	136.0	14:32:42 88
19+00	N	57868.6	.07	135.3	14:33:46 88
18+75	N	57847.4	.06	135.6	14:34:49 88
18+50	N	57832.6	.06	135.7	14:35:38 88
18+25	N	57830.4	.05	135.0	14:49:11 88
18+00	N	57836.4	.06	135.4	14:50:14 88
[illegible]+75	N	57845.8	.04	135.7	14:51:10 88
[illegible]+50	N	57855.8	.06	136.0	14:52:02 88
17+25	N	57873.1	.05	135.0	14:53:11 88
17+00	N	57869.9	.07	134.8	14:53:58 88
16+75	N	57873.0	.06	135.0	14:54:42 88
16+50	N	57872.8	.07	135.4	14:55:25 88
16+25	N	57877.5	.06	134.9	14:56:10 88
16+00	N	57875.2	.06	134.7	14:56:56 88
15+75	N	57866.9	.06	135.0	14:57:56 88
15+50	N	57853.3	.06	135.4	14:58:53 88
15+25	N	57844.1	.06	135.0	15:00:00 88
15+00	N	57853.2	.05	135.4	15:00:58 88
14+75	N	57862.1	.05	135.6	15:02:08 88
14+50	N	57886.2	.05	135.7	15:02:56 88
14+25	N	57854.9	.06	135.8	15:04:05 88

25+25N 57860.7 .05 139.6
25+00N 57878.4 .07 139.3

3/4

Line: 9+75 E Date: 4 JUL 93 #138

POSITION		FIELD	ERR	DRIFT	TIME	DS
19+00	N	57843.9	.04	141.1	15:29:04	88
18+75	N	57843.9	.05	141.1	15:29:15	88
18+50	N	57843.1	.05	141.2	15:30:09	88
18+25	N	57830.9	.05	141.7	15:31:03	88
18+00	N	57830.6	.05	141.9	15:31:57	88
17+75	N	57833.6	.05	142.0	15:32:51	88
17+50	N	57836.3	.05	141.7	15:33:43	88
17+25	N	57842.4	.04	141.8	15:34:34	88
[illegible]+00	N	57842.2	.05	141.9	15:35:34	88
16+75	N	57853.5	.05	141.9	15:36:30	88
16+50	N	57859.5	.05	142.0	15:37:39	88
16+25	N	57872.3	.07	142.0	15:38:34	88

15+75	N	57872.9	.06	142.1	15:40:26 88
15+50	N	57863.4	.06	142.2	15:41:10 88
15+25	N	57849.9	.06	141.9	15:41:57 88
15+00	N	57852.5	.05	141.6	15:42:46 88
14+75	N	57844.9	.05	141.5	15:43:35 88
14+50	N	57840.0	.05	141.2	15:44:24 88
14+25	N	57842.4	.05	141.5	15:45:02 88
14+00	N	57838.7	.05	141.8	15:45:47 88
13+75	N	57834.1	.05	142.3	15:46:35 88

16+00N 57875.7 .06 142.1
15+75N 57872.9 .06 142.1

4/4

Line: 0+00 E Date: 4 JUL 93 #160

POSITION		FIELD	ERR	DRIFT	TIME	DS
26+50	N	57852.5	.05	143.8	16:25:46	88
26+25	N	57852.3	.05	144.1	16:26:00	88
26+00	N	57856.6	.05	145.2	16:27:15	88
25+75	N	57846.3	.07	145.4	16:28:04	88
25+50	N	57847.4	.05	145.5	16:28:58	88
25+25	N	57862.9	.05	145.9	16:29:42	88
25+00	N	57850.6	.06	146.9	16:30:25	88
24+75	N	57849.8	.05	148.0	16:31:10	88
24+50	N	57847.9	.05	148.6	16:31:55	88
24+25	N	57864.0	.04	148.8	16:32:38	88
24+00	N	57898.2	.07	149.0	16:33:28	88
23+75	N	57876.0	.07	150.2	16:34:20	88
23+50	N	57875.5	.07	151.8	16:35:11	88
23+25	N	57886.5	.06	152.9	16:35:55	88
23+00	N	57874.9	.06	153.6	16:36:40	88
22+75	N	57866.2	.06	154.8	16:37:36	88
22+50	N	57866.2	.07	155.6	16:38:18	88
22+25	N	57868.2	.06	156.3	16:39:05	88
22+00	N	57879.1	.06	156.9	16:40:00	88
21+75	N	57876.1	.06	158.3	16:40:45	88
21+50	N	57844.3	.07	159.8	16:41:35	88
21+25	N	57850.7	.07	160.1	16:42:18	88
21+00	N	57945.6	.06	160.2	16:43:03	88
20+75	N	57977.8	.06	160.6	16:43:48	88
20+50	N	58028.6	.06	161.4	16:44:27	88
20+25	N	58024.3	.06	161.5	16:45:15	88
20+00	N	58003.8	.06	161.8	16:46:00	88
19+75	N	57953.6	.06	161.8	16:46:50	88
19+50	N	57939.7	.07	161.5	16:47:35	88
19+25	N	57911.5	.07	161.7	16:48:15	88
19+00	N	57863.4	.06	162.4	16:49:01	88
18+75	N	57879.4	.06	163.1	16:49:51	88
18+50	N	57858.5	.06	163.5	16:50:37	88
18+25	N	57907.3	.07	164.0	16:51:22	88
18+00	N	57932.7	.07	164.2	16:52:07	88
17+75	N	57887.9	.06	164.9	16:53:22	88
17+50	N	57861.7	.06	165.5	16:54:15	88
17+25	N	57866.2	.07	165.6	16:55:29	88
17+00	N	57863.7	.06	165.7	16:56:39	88
16+75	N	57868.2	.06	164.7	16:57:40	88
16+50	N	57880.6	.07	165.4	16:59:34	88
16+25	N	57915.4	.07	166.1	17:00:34	88
16+00	N	57944.7	.06	166.2	17:01:32	88
15+75	N	57934.6	.07	166.4	17:02:26	88
15+50	N	57923.2	.06	166.9	17:03:26	88
15+25	N	57911.8	.07	167.1	17:04:22	88
15+00	N	57917.4	.06	166.9	17:05:16	88
14+75	N	57917.6	.07	167.4		
14+50	N	57922.9	.06	167.4		
14+25	N	57914.7	.06	167.1	17:07:40	

FILEAREA4-1.DMP
1/2

EDA OMNI-IV Tie-line MAG Ser #255138
TOTAL FIELD DATA (Base stn. corrected)
Date: 26 JUN 93
Operator: 3000
Reference field: 58000.0
Datum subtracted: 0.0
Records: 96
Bat: 16.5 Volt Lithium: 3.50 Volt
Last time update: 6/25 21:46:00
Start of print: 6/26 20:30:11

Base stn. Pos: 5425 Line: 9150
Last time update: 6/25 21:46:00
Start of print: 6/26 20:30:10

Line: 325 Date: 26 JUN 93 #1

POSITION	FIELD	ERR	DRIFT	TIME	DS
1400	45919.4	14.	26.4	9:07:40	45
1425	57977.4	.06	25.0	9:09:48	88
1450	57980.7	.07	24.2	9:10:32	88
1475	57988.4	.06	23.6	9:11:11	88
1500	58001.3	.06	23.4	9:11:56	88
1525	58017.4	.06	23.1	9:12:35	88
1550	58012.0	.06	22.9	9:13:11	88
1575	57981.3	.06	22.2	9:13:45	88
1600	57953.8	.06	20.8	9:14:20	88
1625	57951.7	.06	21.3	9:14:57	88
1650	57953.3	.05	20.8	9:15:37	88
1675	57966.5	.05	20.1	9:16:10	88
1700	57970.2	.05	20.3	9:16:45	88
1725	57984.4	.06	19.2	9:17:55	88
1750	57994.1	.06	19.1	9:18:36	88
1775	58011.0	.07	-5.6	9:19:16	88
1800	58017.0	.07	19.7	9:20:13	88
1825	57976.6	.07	19.8	9:20:50	88
1850	57976.9	.05	19.3	9:21:27	88
1875	58079.5	.07	18.8	9:22:34	88
1900	58144.5	.06	19.1	9:23:40	88
1925	57944.6	.07	19.0	9:24:18	88
1950	58017.0	.05	19.0	9:25:12	88
1975	58017.9	.06	19.2	9:25:55	88
2000	58080.7	.06	19.8	9:27:29	88
2025	58186.5	.06	20.0	9:28:11	88
2050	58183.3	.06	20.5	9:28:53	88
2075	58362.3	.06	20.9	9:29:29	88
2100	58073.2	.06	21.2	9:30:18	88
2125	58017.5	.07	21.4	9:31:01	88
2150	57942.4	.06	21.6	9:31:45	88
2175	57950.5	.06	22.7	9:33:18	88
2200	57939.3	.06	23.4	9:34:15	88
2225	57937.5	.05	23.7	9:34:56	88
2250	57943.1	.05	31.8	9:48:09	88
2275	57939.2	.05	32.1	9:50:22	88
2300	57934.2	.05	32.4	9:50:58	88
2325	57935.2	.05	32.5	9:51:35	88
2350	57932.5	.05	32.4	9:52:12	88

2400	57932.9	.06	32.6	9:53:36	88
2425	57937.8	.05	32.3	9:54:17	88
2450	57932.8	.05	32.0	9:55:09	88
2475	57946.2	.04	31.7	9:55:53	88
2500	57924.1	.05	31.6	9:56:27	88
2525	57928.0	.05	31.6	9:57:05	88
2550	57934.3	.05	31.3	9:57:42	88
2575	57919.1	.05	30.8	9:58:26	88
2550	57925.5	.05	30.4	10:00:59	88
2525	57939.6	.05	29.9	10:01:45	88
2500	57933.3	.04	29.9	10:02:17	88
2475	57929.1	.05	29.5	10:02:59	88
2450	57954.0	.05	29.3	10:03:31	88
2425	57940.2	.05	28.9	10:04:01	88
2400	57944.8	.05	28.4	10:04:44	88
2375	57935.8	.05	28.0	10:05:19	88
2350	57934.8	.05	27.5	10:05:55	88
2325	57937.6	.05	26.6	10:06:31	88
2300	57939.5	.05	26.1	10:07:07	88
2275	57940.6	.05	25.7	10:07:37	88
2250	57944.8	.05	25.2	10:08:10	88
2225	57949.7	.05	24.6	10:08:41	88
2200	57944.7	.05	23.9	10:09:13	88
2175	57947.2	.05	23.2	10:09:49	88
2150	57954.9	.05	22.8	10:10:34	88
2125	57948.9	.05	22.0	10:11:16	88
2100	58020.7	.04	20.9	10:11:54	88
2075	58080.9	.06	20.0	10:12:28	88
2050	58362.7	.05	19.4	10:13:01	88
2025	58189.2	.05	18.4	10:13:37	88
2000	58199.3	.06	17.0	10:14:12	88
1975	58088.3	.07	16.5	10:14:45	88
1950	58024.9	.06	15.9	10:15:23	88
1925	58027.9	.06	14.9	10:16:01	88
1900	57942.1	.06	7.2	10:23:58	88
1875	58160.4	.04	8.1	10:24:44	88
1850	58077.4	.06	8.0	10:25:20	88
1825	57982.0	.06	8.5	10:25:52	88
1800	57986.2	.05	10.1	10:26:26	88
1775	58026.2	.05	11.1	10:27:01	88
1750	57991.7	.06	10.2	10:27:42	88
1725	57999.9	.06	10.0	10:28:15	88
1700	57988.5	.06	10.5	10:28:50	88
1675	57976.1	.05	10.7	10:29:21	88
1650	57970.7	.05	12.2	10:30:26	88
1625	57957.9	.05	12.1	10:31:02	88
1600	57958.3	.05	12.1	10:31:37	88
1575	57959.2	.05	12.1	10:32:10	88
1550	57986.7	.05	12.2	10:33:34	88
1525	58018.4	.05	13.9	10:34:15	88
1500	58023.5	.06	15.1	10:34:55	88
1475	58007.7	.06	16.2	10:35:32	88
1450	57994.2	.06	16.5	10:36:09	88
1425	57987.3	.06	15.3	10:36:53	88
1400	57982.3	.07	15.6	10:37:31	88
1375	57980.9	.05	16.2	10:38:04	88

2375 57930.6 32.5 9:52:50
2400 57932.9 32.6

42

Checksum Error! Record #97

END

MAGNETIC DATA
POW 1

X	Y	Station	Reading	Drift	Final Reading
Line -9000					
-9000	4550	4550	57923.4	73.2	57996.6
-9000	4575	4575	57919.9	73.0	57992.9
-9000	4600	4600	57915.0	73.0	57988.0
-9000	4625	4625	57916.8	73.2	57990.0
-9000	4650	4650	57917.7	73.0	57990.7
-9000	4675	4675	57924.3	73.1	57997.4
-9000	4700	4700	57947.9	72.9	58020.8
-9000	4725	4725	57959.8	72.8	58032.6
-9000	4750	4750	57956.6	72.8	58029.4
-9000	4775	4775	57953.2	72.6	58025.8
-9000	4800	4800	57934.9	73.0	58007.9
-9000	4825	4825	57935.7	72.8	58008.5
-9000	4850	4850	57927.3	72.6	57999.9
-9000	4875	4875	57913.5	72.8	57986.3
-9000	4900	4900	57895.7	72.7	57968.4
-9000	4925	4925	57880.7	72.6	57953.3
-9000	4950	4950	57876.6	73.1	57949.4
-9000	4975	4975	57879.0	73.0	57952.0
-9000	5000	5000	57881.5	73.6	57955.1
-9000	5025	5025	57882.5	73.5	57956.0
-9000	5050	5050	57877.5	73.5	57951.0
-9000	5075	5075	57873.0	73.7	57946.7
-9000	5100	5100	57869.1	73.7	57942.8
-9000	5125	5125	57865.2	73.5	57938.7
-9000	5150	5150	57867.1	73.5	57940.6
-9000	5175	5175	57871.4	73.1	57944.5
-9000	5200	5200	57876.0	73.0	57949.0
-9000	5225	5225	57880.8	73.1	57953.9
-9000	5250	5250	57881.3	73.1	57954.4
-9000	5275	5275	57881.3	73.1	57954.4
-9000	5300	5300	57883.1	73.1	57956.2
-9000	5325	5325	57880.8	73.1	57953.9
-9000	5350	5350	57879.9	73.1	57953.0
Line -9150					
-9150	5200	5200	57874.3	74.9	57949.2
-9150	5175	5175	57870.3	74.6	57944.9
-9150	5150	5150	57867.1	74.3	57941.4
-9150	5125	5125	57867.9	73.8	57941.7
-9150	5100	5100	57867.9	73.7	57941.6
-9150	5075	5075	57867.2	73.3	57940.5
-9150	5050	5050	57867.4	73.3	57940.7
-9150	5025	5025	57873.2	73.1	57946.3
-9150	5000	5000	57875.6	73.3	57948.9
-9150	4975	4975	57879.5	73.3	57952.8
-9150	4950	4950	57885.2	73.4	57958.6
-9150	4925	4925	57891.7	73.9	57965.6
-9150	4900	4900	57906.6	74.0	57980.6
-9150	4875	4875	57938.9	74.4	58013.3
-9150	4850	4850	57978.7	74.8	58053.5
-9150	4825	4825	58012.8	74.8	58087.6
-9150	4800	4800	58015.2	74.8	58090.0
-9150	4775	4775	57991.9	74.7	58066.6
-9150	4750	4750	57963.6	74.7	58038.3
-9150	4725	4725	57953.5	74.5	58028.0
-9150	4700	4700	57941.5	74.1	58015.6

-9150	4675	4675	57931.5	73.7	58005.2
-9150	4650	4650	57912.8	73.2	57986.0
-9150	4625	4625	57902.5	73.2	57975.7
-9150	4600	4600	57898.6	72.7	57971.3
-9150	4575	4575	57908.8	73.1	57981.9
-9150	4550	4550	57914.9	72.7	57987.6
-9150	4525	4525	57923.1	73.2	57996.3
-9150	4500	4500	57930.7	73.6	58004.3
-9150	4475	4475	57930.4	74.0	58004.4
-9150	4450	4450	57924.1	74.4	57998.5
-9150	4425	4425	57911.6	75.0	57986.6
-9150	4400	4400	57894.5	74.7	57969.2
-9150	4375	4375	57894.1	74.6	57968.7
-9150	4350	4350	57895.3	74.3	57969.6
-9150	4325	4325	57907.2	73.3	57980.5
Line -9300					
-9300	4325	4325	57879.6	72.4	57952.0
-9300	4350	4350	57866.5	72.6	57939.1
-9300	4375	4375	57859.7	73.2	57932.9
-9300	4400	4400	57870.5	73.7	57944.2
-9300	4425	4425	57892.1	73.8	57965.9
-9300	4450	4450	57921.1	74.3	57995.4
-9300	4475	4475	57929.4	74.3	58003.7
-9300	4500	4500	57917.1	74.3	57991.4
-9300	4525	4525	57910.7	74.3	57985.0
-9300	4550	4550	57915.1	73.9	57989.0
-9300	4575	4575	57915.3	73.5	57988.8
-9300	4600	4600	57909.0	73.6	57982.6
-9300	4625	4625	57902.0	73.0	57975.0
-9300	4650	4650	57902.1	72.5	57974.6
-9300	4675	4675	57912.9	72.0	57984.9
-9300	4700	4700	57921.2	73.0	57994.2
-9300	4725	4725	57936.6	73.3	58009.9
-9300	4750	4750	57949.7	73.0	58022.7
-9300	4775	4775	57947.9	73.1	58021.0
-9300	4800	4800	57956.2	73.5	58029.7
-9300	4825	4825	57956.0	73.0	58029.0
-9300	4850	4850	57942.9	74.0	58016.9
-9300	4875	4875	57925.7	74.0	57999.7
-9300	4900	4900	57909.7	74.4	57984.1
-9300	4925	4925	57897.5	73.6	57971.1
-9300	4950	4950	57888.1	74.3	57962.4
-9300	4975	4975	57882.7	73.9	57956.6
-9300	5000	5000	57875.6	73.7	57949.3
-9300	5025	5025	57872.4	73.7	57946.1
-9300	5050	5050	57870.5	73.1	57943.6
-9300	5075	5075	57869.9	73.1	57943.0
-9300	5100	5100	57872.4	72.5	57942.9
-9300	5125	5125	57873.9	72.2	57946.1
-9300	5150	5150	57872.8	71.8	57944.6
Line -9450					
-9450	5150	5150	57864.7	72.0	57936.7
-9450	5125	5125	57865.6	71.1	57936.7
-9450	5100	5100	57863.9	71.3	57935.2
-9450	5075	5075	57865.7	71.4	57937.1
-9450	5050	5050	57866.7	71.4	57938.1
-9450	5025	5025	57872.3	70.9	57943.2
-9450	5000	5000	57879.1	70.9	57950.0
-9450	4975	4975	57887.4	70.9	57958.3
-9450	4950	4950	57900.1	71.4	57971.5
-9450	4925	4925	57917.1	71.6	57988.7

-9450	4900	4900	57936.9	72.0	58008.9
-9450	4875	4875	57945.7	71.7	58017.4
-9450	4850	4850	57949.6	72.2	58021.8
-9450	4825	4825	57951.6	72.4	58024.0
-9450	4800	4800	57958.5	72.4	58030.9
-9450	4775	4775	57973.4	72.1	58045.5
-9450	4750	4750	57983.1	72.2	58055.3
-9450	4725	4725	57967.6	71.8	58039.4
-9450	4700	4700	57940.6	71.4	58012.0
-9450	4675	4675	57918.0	71.5	57989.5
-9450	4650	4650	57903.7	71.1	57974.8
-9450	4625	4625	58038.7	70.4	58109.1
-9450	4600	4600	57923.6	70.4	57994.1
-9450	4575	4575	57916.7	70.5	57987.2
-9450	4550	4550	57913.1	70.8	57983.9
-9450	4525	4525	57910.3	71.0	57981.3
-9450	4500	4500	57914.1	71.3	57985.5
-9450	4475	4475	57914.0	72.0	57986.0
-9450	4450	4450	57903.0	71.7	57974.7
-9450	4425	4425	57893.4	71.9	57965.3
-9450	4400	4400	57891.0	72.2	57963.2
-9450	4375	4375	57890.7	72.4	57963.1
-9450	4350	4350	57891.2	72.1	57963.3
-9450	4325	4325	57886.1	72.0	57958.1
Line -8050					
-8050	4550	4550	57958.2	75.9	58024.1
-8050	4575	4575	57932.1	76.4	58008.5
-8050	4600	4600	57945.6	75.8	58021.4
-8050	4625	4625	57964.8	74.3	58039.1
-8050	4650	4650	57999.2	73.2	58072.4
-8050	4675	4675	58044.9	72.6	58117.5
-8050	4700	4700	57968.1	73.1	58041.4
-8050	4725	4725	57884.1	73.7	57957.8
-8050	4750	4750	57870.1	74.1	57944.2
-8050	4775	4775	57895.7	73.6	57969.3
-8050	4800	4800	57894.2	73.2	57967.4
-8050	4825	4825	57909.6	72.6	57982.2
-8050	4850	4850	57918.1	72.2	57990.3
-8050	4875	4875	57948.6	72.3	58020.9
-8050	4900	4900	57919.4	72.7	57992.1
-8050	4925	4925	57893.7	73.4	57967.1
-8050	4950	4950	57870.0	74.0	57944.0
-8050	4975	4975	57875.9	74.2	57950.1
-8050	5000	5000	57890.3	73.7	57964.0
-8050	5025	5025	57888.8	73.7	57962.5
-8050	5050	5050	57884.0	73.7	57957.7
-8050	5075	5075	57880.5	73.6	57954.1
-8050	5100	5100	57875.8	73.4	57949.2
-8050	5125	5125	57876.9	73.2	57950.1
-8050	5150	5150	57876.6	72.9	57949.5
-8050	5175	5175	57881.7	72.8	57954.5
-8050	5200	5200	57878.0	73.2	57951.2
-8050	5225	5225	57893.7	73.6	57967.3
-8050	5250	5250	57896.3	74.1	57970.4
-8050	5275	5275	57892.2	74.2	57966.4
-8050	5300	5300	57893.6	74.2	57967.8
-8050	5325	5325	57887.3	74.1	57961.4
-8050	5350	5350	57864.5	75.0	57939.5
Line -7900					
-7900	5350	5350	57896.1	74.5	57970.6
-7900	5325	5325	57892.8	74.4	57967.2

-7900	5300	5300	57929.2	75.1	58004.3
-7900	5275	5275	57937.1	75.2	58002.3
-7900	5250	5250	57947.7	76.1	58023.8
-7900	5225	5225	57912.6	76.4	57989.0
-7900	5200	5200	57897.3	76.5	57973.8
-7900	5175	5175	57884.5	76.9	57961.4
-7900	5150	5150	57891.4	77.5	57968.9
-7900	5125	5125	57894.4	77.3	57971.7
-7900	5100	5100	57894.6	77.6	57972.0
-7900	5075	5075	57894.8	77.1	57971.9
-7900	5050	5050	57883.1	77.1	57960.2
-7900	5025	5025	57876.9	77.1	57954.0
-7900	5000	5000	57877.6	77.4	57955.0
-7900	4975	4975	57893.4	76.9	57970.3
-7900	4950	4950	57959.1	77.7	58036.8
-7900	4925	4925	58012.0	78.1	58090.1
-7900	4900	4900	58162.5	78.0	58140.5
-7900	4875	4875	57965.7	78.0	58043.7
-7900	4850	4850	57901.3	78.5	57979.8
-7900	4825	4825	57891.8	78.1	57969.9
-7900	4800	4800	57883.3	78.1	57961.4
-7900	4775	4775	57883.2	78.5	57961.7
-7900	4750	4750	57891.0	78.3	57969.3
-7900	4725	4725	57907.7	78.6	57986.3
-7900	4700	4700	57922.7	78.9	58001.6
-7900	4675	4675	57933.3	78.4	58011.7
-7900	4650	4650	57940.1	78.7	58018.8
-7900	4625	4625	57946.8	78.6	58025.4
-7900	4600	4600	57944.6	78.5	58023.1
-7900	4575	4575	57928.4	78.4	58006.8
-7900	4550	4550	57924.2	78.2	58003.0
Line -7600					
-7600	4100	4100	57902.4	72.7	57975.1
-7600	4125	4125	57914.0	69.8	57983.8
-7600	4150	4150	57917.4	72.9	57990.3
-7600	4175	4175	57915.0	74.2	57989.2
-7600	4200	4200	57910.3	71.2	57981.5
-7600	4225	4225	57915.8	66.4	57982.2
-7600	4250	4250	57921.0	68.6	57989.6
-7600	4275	4275	57935.0	70.0	58005.0
-7600	4300	4300	57933.0	71.5	58004.5
-7600	4325	4325	57918.8	68.6	57987.4
-7600	4350	4350	57910.7	72.1	57982.8
-7600	4375	4375	57911.9	75.3	57987.2
-7600	4400	4400	57947.1	75.1	58022.2
-7600	4425	4425	57914.4	77.1	57991.5
-7600	4450	4450	57945.7	73.3	58019.0
-7600	4475	4475	57965.7	72.5	58038.2
-7600	4500	4500	57979.8	71.7	58051.5
-7600	4525	4525	57971.1	71.2	58042.3
-7600	4550	4550	57961.9	68.7	58030.6
-7600	4575	4575	57954.8	65.0	58019.8
-7600	4600	4600	57948.8	59.8	58008.6
-7600	4625	4625	57938.9	59.8	57998.7
-7600	4650	4650	57934.7	61.1	57995.8
-7600	4675	4675	57949.2	59.7	58008.9
-7600	4700	4700	57976.2	61.0	58037.2
-7600	4725	4725	58006.1	63.5	58069.6
-7600	4750	4750	57944.0	63.0	58007.0
-7600	4775	4775	57905.8	64.0	57969.8
-7600	4800	4800	57929.9	65.1	57995.0

-7600	4825	4825	57926.0	69.7	57995.7
-7600	4850	4850	57912.5	70.0	57982.5
-7600	4875	4875	57937.1	70.1	58007.8
-7600	4900	4900	57922.9	72.7	57995.6
-7600	4925	4925	57912.8	74.6	57987.4
-7600	4950	4950	57920.7	75.4	57996.1
-7600	4975	4975	57936.8	71.1	58007.9
-7600	5000	5000	57900.2	72.1	57972.3
-7600	5025	5025	57874.6	72.6	57947.2
-7600	5050	5050	57898.3	73.1	57971.4
-7600	5075	5075	57916.6	75.6	57992.2
-7600	5100	5100	57905.8	76.6	57982.4

MAGNETIC DATA
POW 3

X	Y	Station	Reading	Drift	Final Reading
Line -10950					
-10950	4100	4100	57899.4	81.0	57980.4
-10950	4075	4075	57896.5	80.7	57977.2
-10950	4050	4050	57894.0	80.0	57974.0
-10950	4025	4025	57895.3	79.4	57974.7
-10950	4000	4000	57891.9	78.4	57970.3
-10950	3975	3975	57891.0	78.4	57969.4
-10950	3950	3950	57888.4	78.6	57967.0
-10950	3925	3925	57885.6	79.1	57964.7
-10950	3900	3900	57887.1	79.5	57966.6
-10950	3875	3875	57880.9	80.2	57961.1
-10950	3850	3850	57879.8	80.5	57960.3
-10950	3825	3825	57876.3	80.2	57956.5
-10950	3800	3800	57873.6	79.5	57953.1
-10950	3775	3775	57874.2	79.0	57953.2
-10950	3750	3750	57869.7	78.3	57948.0
-10950	3725	3725	57863.5	78.0	57941.5
-10950	3700	3700	57861.1	77.4	57938.5
-10950	3675	3675	57850.8	78.1	57928.9
-10950	3650	3650	57848.5	78.9	57927.4
-10950	3625	3625	57838.5	79.0	57917.5
-10950	3600	3600	57823.2	79.8	57903.0
-10950	3575	3575	57805.9	80.3	57886.2
-10950	3550	3550	57784.3	81.0	57865.3
-10950	3525	3525	57756.3	81.9	57838.2
-10950	3500	3500	57722.7	81.4	57804.1
-10950	3475	3475	57722.3	81.1	57803.4
-10950	3450	3450	57803.5	81.3	57884.8
-10950	3425	3425	57952.5	81.5	58034.0
-10950	3400	3400	58044.5	82.0	58126.5
-10950	3375	3375	58099.8	79.9	58179.7
-10950	3350	3350	58265.1	79.8	58344.9
-10950	3325	3325	58409.4	79.3	58488.7
-10950	3300	3300	58393.1	78.8	58471.9
-10950	3275	3275	58526.6	78.4	58605.0
-10950	3250	3250	58622.4	78.1	58700.5
-10950	3225	3225	58428.2	81.3	58509.5
-10950	3200	3200	58386.2	85.8	58472.0
-10950	3175	3175	58364.9	87.3	58452.2
-10950	3150	3150	58316.6	86.8	58403.4
-10950	3125	3125	58242.4	84.8	58327.2
-10950	3100	3100	58171.2	82.6	58253.8
-10950	3075	3075	58109.2	80.3	58189.5
-10950	3050	3050	58074.7	78.4	58153.1
-10950	3025	3025	58045.9	77.8	58123.7
-10950	3000	3000	58025.8	78.4	58104.2
-10950	2975	2975	58000.4	79.0	58079.4
-10950	2950	2950	57977.4	79.6	58057.0
-10950	2925	2925	57965.9	80.3	58046.2
-10950	2900	2900	57956.1	81.2	58037.3
-10950	2875	2875	57941.9	81.7	58023.6
-10950	2850	2850	57941.1	82.0	58023.1
-10950	2825	2825	57932.4	82.5	58014.9
-10950	2800	2800	57920.1	83.0	58003.0
-10950	2775	2775	57892.2	83.1	57975.3
-10950	2750	2750	57937.4	83.0	58020.4

-10950	2725	2725	57917.6	81.9	57999.5
-10950	2700	2700	57960.3	80.6	58040.9
Line -11250					
-11250	2700	2700	57918.9	82.5	58001.1
-11250	2725	2725	57918.2	81.5	57999.7
-11250	2750	2750	57961.4	75.2	58036.6
-11250	2775	2775	57949.9	74.8	58024.7
-11250	2800	2800	57947.8	75.8	58023.6
-11250	2825	2825	57941.5	77.4	58018.9
-11250	2850	2850	57951.2	78.9	58030.1
-11250	2875	2875	57941.0	80.1	58021.1
-11250	2900	2900	57946.3	80.4	58026.7
-11250	2925	2925	57956.7	79.1	58035.8
-11250	2950	2950	57965.4	77.7	58043.1
-11250	2975	2975	57979.9	76.7	58056.6
-11250	3000	3000	57978.9	74.7	58053.6
-11250	3025	3025	57989.3	72.6	58061.9
-11250	3050	3050	58019.0	70.0	58089.0
-11250	3075	3075	58036.9	68.3	58105.2
-11250	3100	3100	58073.9	66.4	58140.3
-11250	3125	3125	58129.8	65.8	58195.6
-11250	3150	3150	58219.8	65.8	58285.6
-11250	3175	3175	58349.9	65.4	58415.3
-11250	3200	3200	58499.7	64.4	58564.1
-11250	3225	3225	58555.4	64.3	58619.7
-11250	3250	3250	58467.1	64.3	58531.4
-11250	3275	3275	58361.3	64.3	58425.6
-11250	3300	3300	58287.2	64.6	58351.8
-11250	3325	3325	58232.2	65.5	58297.7
-11250	3350	3350	58171.6	64.3	58235.9
-11250	3375	3375	58097.0	61.2	58158.2
-11250	3400	3400	58022.0	59.6	58081.6
-11250	3425	3425	57968.0	58.2	58026.2
-11250	3450	3450	57940.1	58.2	57998.3
-11250	3475	3475	57924.5	59.5	57984.0
-11250	3500	3500	57896.8	60.2	57957.0
-11250	3525	3525	57865.1	61.5	57926.6
-11250	3550	3550	57841.8	62.5	57904.3
-11250	3575	3575	57837.6	61.3	57898.9
-11250	3600	3600	57842.2	59.8	57902.0
-11250	3625	3625	57851.0	58.1	57909.1
-11250	3650	3650	57859.9	56.3	57916.2
-11250	3675	3675	57875.3	54.4	57929.7
-11250	3700	3700	57881.1	53.6	57934.7
-11250	3725	3725	57884.4	55.7	57940.1
-11250	3750	3750	57887.7	57.3	57945.0
-11250	3775	3775	57896.2	57.9	57954.1
-11250	3800	3800	57901.4	59.2	57960.6
-11250	3825	3825	57904.9	60.0	57964.9
-11250	3850	3850	57912.4	59.8	57972.2
-11250	3875	3875	57916.9	58.2	57975.1
-11250	3900	3900	57922.9	57.5	57980.4
-11250	3925	3925	57927.3	57.8	57985.1
-11250	3950	3950	57929.0	58.1	57987.1
-11250	3975	3975	57936.0	57.9	57993.9
-11250	4000	4000	57935.1	57.6	57992.7
-11250	4025	4025	57940.4	58.4	57998.8
-11250	4050	4050	57942.3	58.6	58000.9
-11250	4075	4075	57942.6	58.7	58001.3
-11250	4100	4100	57946.0	59.6	58005.6
Line -10650					

-10650	4100	4100	57905.1	57.4	57962.5
-10650	4075	4075	57902.1	57.7	57959.8
-10650	4050	4050	57907.3	57.9	57965.2
-10650	4025	4025	57905.5	58.1	57963.6
-10650	4000	4000	57904.4	58.8	57963.2
-10650	3975	3975	57902.7	59.9	57962.6
-10650	3950	3950	57899.1	61.0	57960.1
-10650	3925	3925	57898.7	61.8	57960.5
-10650	3900	3900	57896.1	62.6	57958.7
-10650	3875	3875	57896.4	63.0	57959.4
-10650	3850	3850	57897.4	62.7	57960.1
-10650	3825	3825	57899.4	62.4	57961.8
-10650	3800	3800	57897.5	61.9	57959.4
-10650	3775	3775	57896.2	61.6	57957.8
-10650	3750	3750	57892.0	61.7	57953.7
-10650	3725	3725	57884.6	61.5	57946.1
-10650	3700	3700	57876.7	61.2	57937.9
-10650	3675	3675	57867.4	61.2	57928.6
-10650	3650	3650	57862.2	61.0	57923.2
-10650	3625	3625	57869.2	60.9	57930.1
-10650	3600	3600	57876.9	60.7	57937.6
-10650	3575	3575	57870.0	60.1	57930.1
-10650	3550	3550	57879.8	59.6	57939.4
-10650	3525	3525	57912.4	59.3	57971.7
-10650	3500	3500	57917.6	58.9	57976.5
-10650	3475	3475	57912.9	58.5	57971.4
-10650	3450	3450	57856.3	58.6	57914.9
-10650	3425	3425	57813.0	58.9	57871.9
-10650	3400	3400	57809.5	59.7	57869.2
-10650	3375	3375	57775.2	60.5	57835.7
-10650	3350	3350	57759.2	61.2	57820.4
-10650	3325	3325	57767.4	61.3	57828.7
-10650	3300	3300	57811.2	61.3	57872.5
-10650	3275	3275	57919.6	60.9	57980.5
-10650	3250	3250	58128.3	60.3	58188.6
-10650	3225	3225	58288.5	59.5	58348.0
-10650	3200	3200	58245.9	59.1	58305.0
-10650	3175	3175	58189.5	59.0	58248.5
-10650	3150	3150	58136.1	58.9	58195.0
-10650	3125	3125	58101.7	58.8	58160.5
-10650	3100	3100	58080.8	58.3	58139.1
-10650	3075	3075	58069.2	57.4	58126.6
-10650	3050	3050	58066.3	56.6	58122.9
-10650	3025	3025	58052.3	56.0	58108.3
-10650	3000	3000	58046.1	55.1	58101.2
-10650	2975	2975	58031.1	54.7	58085.8
-10650	2950	2950	58021.1	53.9	58075.0
-10650	2925	2925	58011.5	53.5	58065.0
-10650	2900	2900	57999.6	53.7	58053.3
-10650	2875	2875	57989.4	54.1	58043.5
-10650	2850	2850	57988.5	54.5	58043.0
-10650	2825	2825	57978.1	55.2	58033.3
-10650	2800	2800	57967.8	55.7	58023.5
-10650	2775	2775	57976.5	55.6	58032.1
-10650	2750	2750	57970.5	55.7	58026.2
-10650	2725	2725	57974.4	55.6	58030.0
-10650	2700	2700	57989.3	54.9	58054.2
Line -10350					
-10350	2700	2700	57997.2	55.7	58052.9
-10350	2725	2725	58005.7	55.6	58061.3
-10350	2750	2750	58011.4	55.7	58067.1

-10350	2775	2775	58015.4	55.7	58071.1
-10350	2800	2800	58029.8	55.7	58085.5
-10350	2825	2825	58061.7	55.9	58117.6
-10350	2850	2850	58091.8	55.7	58147.5
-10350	2875	2875	58129.5	55.0	58184.5
-10350	2900	2900	58175.9	54.2	58230.1
-10350	2925	2925	58227.5	54.1	58281.6
-10350	2950	2950	58288.6	53.6	58342.2
-10350	2975	2975	58341.3	53.7	58395.0
-10350	3000	3000	58405.7	53.2	58458.9
-10350	3025	3025	58524.6	52.8	58577.4
-10350	3050	3050	58671.6	52.3	58723.9
-10350	3075	3075	58752.7	52.4	58805.1
-10350	3100	3100	59253.6	53.1	59306.7
-10350	3125	3125	58967.6	53.6	59021.2
-10350	3150	3150	58508.4	53.9	58562.3
-10350	3175	3175	58576.7	54.3	58631.0
-10350	3200	3200	57855.3	54.6	57909.9
-10350	3225	3225	57711.4	54.9	57766.3
-10350	3250	3250	57736.4	55.2	57791.6
-10350	3275	3275	57764.0	55.3	57819.3
-10350	3300	3300	57785.2	55.2	57840.4
-10350	3325	3325	57806.5	55.3	57861.8
-10350	3350	3350	57812.1	55.5	57867.6
-10350	3375	3375	57831.6	55.7	57887.3
-10350	3400	3400	57855.4	55.5	57910.9
-10350	3425	3425	57854.2	55.7	57909.9
-10350	3450	3450	57860.8	55.8	57916.6
-10350	3475	3475	57870.5	56.2	57926.7
-10350	3500	3500	57879.5	56.5	57936.0
-10350	3525	3525	57899.7	56.6	57956.3
-10350	3550	3550	57909.1	56.5	57965.6
-10350	3575	3575	57894.0	56.4	57950.4
-10350	3600	3600	57878.7	56.4	57935.1
-10350	3625	3625	57887.3	56.5	57943.8
-10350	3650	3650	57886.0	56.5	57942.5
-10350	3675	3675	57890.7	56.6	57947.3
-10350	3700	3700	57896.2	56.5	57952.7
-10350	3725	3725	57910.1	56.7	57966.8
-10350	3750	3750	57897.1	57.0	57954.1
-10350	3775	3775	57901.2	57.3	57958.5
-10350	3800	3800	57911.2	57.4	57968.6
-10350	3825	3825	57953.5	57.7	58011.2
-10350	3850	3850	57877.1	57.8	57934.9
-10350	3875	3875	57920.5	57.9	57978.4
-10350	3900	3900	57919.3	58.0	57977.3
-10350	3925	3925	57917.0	57.9	57974.9
-10350	3950	3950	57914.1	57.6	57971.7
-10350	3975	3975	57907.0	57.2	57964.2
-10350	4000	4000	57901.5	57.0	57958.5
-10350	4025	4025	57896.6	57.0	57953.6
-10350	4050	4050	57892.1	56.6	57948.7
-10350	4075	4075	57887.0	56.7	57943.7
-10350	4100	4100	57887.3	56.8	57944.1
Line -10050					
-10050	4100	4100	57914.6	56.0	57970.6
-10050	4075	4075	57911.7	56.5	57968.2
-10050	4050	4050	57912.2	56.6	57968.8
-10050	4025	4025	57908.6	56.7	57965.3
-10050	4000	4000	57912.3	56.6	57968.9
-10050	3975	3975	57923.0	56.4	57979.4

-10050	3950	3950	57937.5	56.1	57993.6
-10050	3925	3925	57971.7	55.7	58027.4
-10050	3900	3900	58005.4	55.5	58060.9
-10050	3875	3875	58051.4	55.0	58106.4
-10050	3850	3850	58075.6	54.9	58130.5
-10050	3825	3825	58095.4	55.1	58150.5
-10050	3800	3800	58057.3	55.0	58112.3
-10050	3775	3775	58017.0	55.4	58072.4
-10050	3750	3750	57983.9	55.6	58039.5
-10050	3725	3725	57958.4	55.6	58014.0
-10050	3700	3700	57939.3	55.4	57994.7
-10050	3675	3675	57925.4	55.6	57981.0
-10050	3650	3650	57915.4	55.8	57971.2
-10050	3625	3625	57909.5	55.9	57965.4
-10050	3600	3600	57908.4	55.6	57964.0
-10050	3575	3575	57908.9	55.5	57964.4
-10050	3550	3550	57896.5	55.6	57952.1
-10050	3525	3525	57907.7	56.1	57963.8
-10050	3500	3500	57907.7	56.3	57964.0
-10050	3475	3475	57912.5	56.5	57969.0
-10050	3450	3450	57883.4	56.6	57940.0
-10050	3425	3425	57865.8	56.6	57922.4
-10050	3400	3400	57851.9	56.4	57908.3
-10050	3375	3375	57830.1	56.3	57886.4
-10050	3350	3350	57801.8	56.1	57857.9
-10050	3325	3325	57778.8	55.9	57834.7
-10050	3300	3300	57738.3	55.8	57794.1
-10050	3275	3275	57676.7	55.7	57732.4
-10050	3250	3250	57631.3	55.8	57687.1
-10050	3225	3225	57949.3	56.0	58005.3
-10050	3200	3200	58716.1	56.0	58772.1
-10050	3175	3175	58673.5	56.1	58729.6
-10050	3150	3150	58523.0	56.2	58579.2
-10050	3125	3125	58590.3	56.6	58646.9
-10050	3100	3100	58337.7	56.9	58394.6
-10050	3075	3075	58240.5	57.4	58297.9
-10050	3050	3050	58263.4	57.7	58321.1
-10050	3025	3025	58855.8	57.9	58913.7
-10050	3000	3000	58665.8	57.6	58723.4
-10050	2975	2975	58396.8	56.9	58453.7
-10050	2950	2950	58264.9	56.4	58321.3
-10050	2925	2925	58195.6	55.8	58251.4
-10050	2900	2900	58129.2	55.0	58184.2
-10050	2875	2875	58093.3	54.2	58147.5
-10050	2850	2850	58067.7	53.6	58121.3
-10050	2825	2825	58041.9	53.1	58095.0
-10050	2800	2800	58014.8	52.6	58067.4
-10050	2775	2775	57993.1	52.3	58045.4
-10050	2750	2750	57988.7	52.6	58041.3
-10050	2725	2725	57983.8	52.9	58036.7
-10050	2700	2700	58047.2	54.0	58101.2
Line -9750					
-9750	2750	2750	57976.4	57.2	58033.6
-9750	2775	2775	57971.4	58.4	58029.8
-9750	2800	2800	57984.2	58.7	58042.9
-9750	2825	2825	57994.2	58.6	58052.8
-9750	2850	2850	58006.9	58.6	58065.5
-9750	2875	2875	58027.6	58.0	58085.6
-9750	2900	2900	58048.7	57.3	58106.0
-9750	2925	2925	58074.8	56.4	58131.2
-9750	2950	2950	58118.6	55.6	58174.2

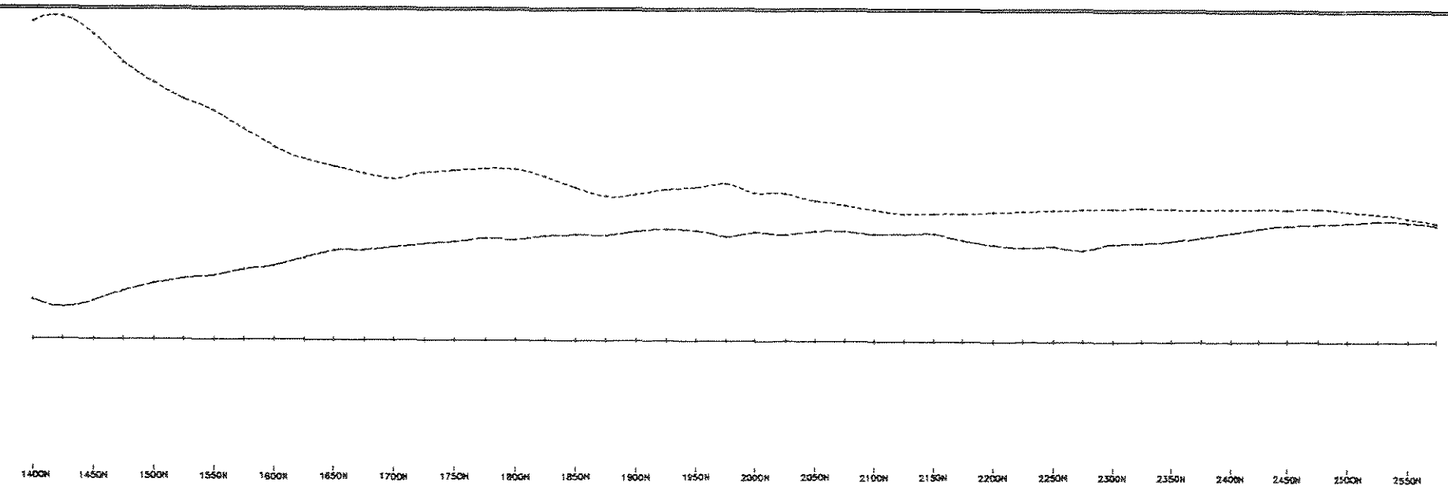
-9750	2975	2975	58162.9	54.7	58217.6
-9750	3000	3000	58226.0	54.1	58280.1
-9750	3025	3025	58298.0	53.9	58351.9
-9750	3050	3050	58390.1	54.5	58444.6
-9750	3075	3075	58431.8	55.6	58487.4
-9750	3100	3100	58438.6	57.0	58495.6
-9750	3125	3125	58474.3	58.6	58532.9
-9750	3150	3150	58409.5	60.5	58470.0
-9750	3175	3175	58079.2	61.7	58140.9
-9750	3200	3200	57874.3	62.4	57936.7
-9750	3225	3225	57869.1	63.1	57932.2
-9750	3250	3250	57868.0	63.2	57931.2
-9750	3275	3275	57855.9	62.9	57918.8
-9750	3300	3300	57866.2	62.6	57928.8
-9750	3325	3325	57869.4	62.4	57931.8
-9750	3350	3350	57880.6	62.1	57942.7
-9750	3375	3375	57879.4	62.0	57941.4
-9750	3400	3400	57874.2	61.7	57935.9
-9750	3425	3425	57878.5	62.1	57940.6
-9750	3450	3450	57884.3	62.6	57946.9
-9750	3475	3475	57889.3	63.4	57952.7
-9750	3500	3500	57924.7	64.3	57989.0
-9750	3525	3525	57903.4	64.9	57968.3
-9750	3550	3550	57889.8	65.8	57955.6
-9750	3575	3575	57891.4	66.5	57957.9
-9750	3600	3600	57904.2	66.9	57971.1
-9750	3625	3625	57911.4	67.1	57978.5
-9750	3650	3650	57932.0	67.1	57999.1
-9750	3675	3675	57973.7	67.0	58040.7
-9750	3700	3700	57997.8	67.1	58064.9
-9750	3725	3725	58041.7	67.4	58109.1
-9750	3750	3750	57996.0	68.2	58064.2
-9750	3775	3775	58005.0	68.7	58073.7
-9750	3800	3800	57994.4	68.6	58063.0
-9750	3825	3825	57919.7	68.0	57987.7
-9750	3850	3850	57890.6	67.6	57958.2
-9750	3875	3875	57884.1	67.7	57951.8
-9750	3900	3900	57890.8	67.8	57958.6
-9750	3925	3925	57891.0	68.3	57959.3
-9750	3950	3950	57848.7	68.9	57917.6
-9750	3975	3975	57846.0	69.5	57915.5
-9750	4000	4000	57884.1	70.1	57954.2
-9750	4025	4025	57902.1	70.4	57972.5
-9750	4050	4050	57897.3	71.1	57968.4
-9750	4075	4075	57900.8	71.0	57971.8
-9750	4100	4100	57907.5	70.6	57978.1
Line -9450					
-9450	4100	4100	57898.1	72.6	57970.7
-9450	4075	4075	57890.3	72.6	57962.9
-9450	4050	4050	57889.5	71.9	57961.4
-9450	4025	4025	57882.2	71.1	57953.3
-9450	4000	4000	57888.1	70.3	57958.4
-9450	3975	3975	57894.0	69.7	57963.7
-9450	3950	3950	57879.2	69.2	57948.4
-9450	3925	3925	57873.6	67.3	57940.9
-9450	3900	3900	57859.9	66.5	57926.4
-9450	3875	3875	57859.8	66.0	57925.8
-9450	3850	3850	57919.5	66.4	57985.9
-9450	3825	3825	57886.0	66.9	57952.9
-9450	3800	3800	57913.9	67.7	57981.6
-9450	3775	3775	57966.0	67.2	58033.2

-9450	3750	3750	57977.8	67.6	58045.4
-9450	3725	3725	57896.3	68.2	57964.5
-9450	3700	3700	57933.5	68.5	58002.0
-9450	3675	3675	58342.9	68.1	58411.0
-9450	3650	3650	57907.7	68.5	57976.2
-9450	3625	3625	57896.8	68.9	57965.7
-9450	3600	3600	57888.1	68.9	57957.0
-9450	3575	3575	57876.9	68.3	57945.2
-9450	3550	3550	57874.7	67.8	57942.5
-9450	3525	3525	57880.7	68.0	57948.7
-9450	3500	3500	57883.1	66.5	57949.6
-9450	3475	3475	57890.3	69.0	57959.3
-9450	3450	3450	57898.3	70.8	57969.1
-9450	3425	3425	57897.3	72.2	57969.5
-9450	3400	3400	57887.2	72.5	57959.7
-9450	3375	3375	57881.6	72.7	57954.3
-9450	3350	3350	57877.7	72.2	57949.9
-9450	3325	3325	57872.6	71.7	57944.3
-9450	3300	3300	57874.1	71.1	57945.2
-9450	3275	3275	57878.4	71.7	57950.1
-9450	3250	3250	57888.7	68.4	57957.1
-9450	3225	3225	57903.4	68.0	57971.4
-9450	3200	3200	57900.4	68.3	57968.7
-9450	3175	3175	57891.8	68.4	57960.2
-9450	3150	3150	57908.4	69.0	57977.4
-9450	3125	3125	57915.8	68.8	57984.6
-9450	3100	3100	57919.3	68.4	57987.7
-9450	3075	3075	58024.4	70.1	58094.5
-9450	3050	3050	58064.4	71.2	58135.6
-9450	3025	3025	58213.5	71.4	58284.9
-9450	3000	3000	58140.6	73.4	58214.0
-9450	2975	2975	58142.5	73.1	58215.6
-9450	2950	2950	58107.9	72.6	58180.5
-9450	2925	2925	58061.7	71.0	58132.7
-9450	2900	2900	58029.5	68.8	58098.3
-9450	2875	2875	58018.8	66.7	58085.5
-9450	2850	2850	58005.4	66.6	58072.0
-9450	2825	2825	57987.9	66.1	58054.0
-9450	2800	2800	57978.9	66.5	58045.5
-9450	2775	2775	57974.0	66.6	58040.6
-9450	2750	2750	57972.8	68.1	58040.9
-9450	2725	2725	57970.5	69.2	58039.7
Line -8850					
-8850	2675	2675	57940.4	75.0	58015.4
-8850	2700	2700	57936.1	75.6	58011.7
-8850	2725	2725	57935.0	76.4	58011.4
-8850	2750	2750	57937.2	76.9	58014.1
-8850	2775	2775	57935.1	76.4	58011.5
-8850	2800	2800	57935.6	75.4	58011.0
-8850	2825	2825	57937.0	76.1	58013.1
-8850	2850	2850	57940.5	77.1	58017.6
-8850	2875	2875	57946.5	76.4	58022.9
-8850	2900	2900	57958.1	75.4	58033.5
-8850	2925	2925	57960.8	75.2	58036.0
-8850	2950	2950	57975.4	74.6	58050.0
-8850	2975	2975	57984.7	72.3	58057.0
-8850	3000	3000	58001.3	70.9	58072.2
-8850	3025	3025	58010.5	72.2	58082.7
-8850	3050	3050	58009.3	72.7	58082.0
-8850	3075	3075	58007.3	71.3	58078.6
-8850	3100	3100	57991.7	70.5	58062.2

-8850	3125	3125	57975.2	74.2	58049.4
-8850	3150	3150	57956.9	75.4	58032.3
-8850	3175	3175	57949.6	74.8	58024.4
-8850	3200	3200	57939.6	75.5	58015.1
-8850	3225	3225	57935.2	75.4	58010.6
-8850	3250	3250	57931.9	76.8	58008.7
-8850	3275	3275	57932.5	79.6	58012.1
-8850	3300	3300	57921.6	79.6	58000.8
-8850	3325	3325	57910.3	75.4	57985.7
-8850	3350	3350	57911.0	73.4	57984.4
-8850	3375	3375	57927.6	73.0	58000.6
-8850	3400	3400	57954.2	73.5	58027.7
-8850	3425	3425	57983.5	73.7	58061.2
-8850	3450	3450	57992.3	72.1	58064.4
-8850	3475	3475	58018.7	72.4	58091.1
-8850	3500	3500	58020.1	72.3	58092.4
-8850	3525	3525	57979.8	72.0	58051.8
-8850	3550	3550	57983.1	72.3	58055.4
-8850	3575	3575	57995.6	70.6	58066.2
-8850	3600	3600	57970.3	69.7	58040.0
-8850	3625	3625	58062.9	68.8	58131.7
-8850	3650	3650	57933.2	66.6	57999.8
-8850	3675	3675	57945.7	64.1	58009.8
-8850	3700	3700	57889.5	60.1	57949.6
-8850	3725	3725	57923.6	60.6	57984.2
-8850	3750	3750	57913.5	59.8	57973.3
-8850	3775	3775	57908.2	58.7	57966.9
-8850	3800	3800	57916.7	57.8	57974.5
-8850	3825	3825	57894.9	57.8	57952.7
-8850	3850	3850	57886.6	58.2	57944.8
-8850	3875	3875	57891.7	59.1	57950.8
-8850	3900	3900	57913.5	57.3	57970.8
-8850	3925	3925	57916.5	58.1	57974.6
-8850	3950	3950	57896.3	58.4	57954.7
-8850	3975	3975	57894.3	59.0	57953.3
-8850	4000	4000	57891.9	60.6	57952.5
-8850	4025	4025	57896.4	60.6	57957.0
-8850	4050	4050	57904.8	59.7	57964.5
-8850	4075	4075	57916.1	58.0	57974.1
-8850	4100	4100	57923.2	57.3	57980.5
Line -9150					
-9150	4100	4100	57912.9	55.6	57968.5
-9150	4075	4075	57901.8	56.2	57958.0
-9150	4050	4050	57892.2	57.5	57949.7
-9150	4025	4025	57900.9	58.3	57959.2
-9150	4000	4000	57918.5	58.1	57976.6
-9150	3975	3975	57907.6	58.7	57966.3
-9150	3950	3950	57900.1	57.8	57957.9
-9150	3925	3925	57894.9	57.3	57952.2
-9150	3900	3900	57892.0	60.4	57952.4
-9150	3875	3875	57896.5	62.9	57959.4
-9150	3850	3850	57885.7	64.3	57950.0
-9150	3825	3825	57876.8	63.8	57940.6
-9150	3800	3800	57887.3	63.3	57950.6
-9150	3775	3775	57891.3	63.1	57954.4
-9150	3750	3750	57891.2	62.7	57953.9
-9150	3725	3725	57898.7	61.2	57959.9
-9150	3700	3700	58022.7	61.5	58084.2
-9150	3675	3675	58006.9	62.7	58069.6
-9150	3650	3650	57918.4	62.5	57980.9
-9150	3625	3625	57921.0	62.4	57983.4

-9150	3600	3600	57933.5	62.1	57995.6
-9150	3575	3575	57923.1	62.4	57985.5
-9150	3550	3550	57911.6	63.4	57975.0
-9150	3525	3525	57896.9	63.4	57960.3
-9150	3500	3500	57893.1	63.6	57956.7
-9150	3475	3475	57877.6	66.6	57944.2
-9150	3450	3450	57882.8	67.6	57950.4
-9150	3425	3425	57899.5	66.8	57966.3
-9150	3400	3400	57913.8	67.2	57981.0
-9150	3375	3375	57924.5	66.4	57990.9
-9150	3350	3350	57890.3	65.8	57956.1
-9150	3325	3325	57884.0	65.2	57949.2
-9150	3300	3300	57918.2	63.0	57981.2
-9150	3275	3275	57962.1	61.9	58024.0
-9150	3250	3250	57937.5	59.9	57997.4
-9150	3225	3225	57917.8	60.9	57978.7
-9150	3200	3200	57930.1	61.4	57991.5
-9150	3175	3175	57929.4	62.9	57992.3
-9150	3150	3150	57961.4	63.9	58025.3
-9150	3125	3125	58015.2	63.9	58079.1
-9150	3100	3100	58123.8	63.5	58187.3
-9150	3075	3075	58253.4	64.1	58317.5
-9150	3050	3050	58286.7	63.6	58350.3
-9150	3025	3025	58191.9	65.8	58257.7
-9150	3000	3000	58118.2	66.6	58184.8
-9150	2975	2975	58081.7	65.8	58147.5
-9150	2950	2950	58056.2	66.6	58122.8
-9150	2925	2925	58034.5	66.1	58100.6
-9150	2900	2900	58024.5	62.0	58086.5
-9150	2875	2875	58016.7	59.7	58076.4
-9150	2850	2850	58004.7	59.2	58063.9
-9150	2825	2825	58009.7	59.5	58069.2
-9150	2800	2800	57998.3	57.3	58055.6
-9150	2775	2775	57991.6	56.6	58048.2
-9150	2750	2750	57992.5	53.9	58046.4
-9150	2725	2725	57993.2	53.5	58046.7
-9150	2700	2700	57993.6	53.7	58047.3

APPENDIX C: GRAVITY SURVEY DATA



LEGEND

Surface Elevation

Bouguer Gravity

Base For Elevation 650 meters.

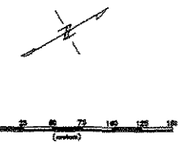
Base For Bouguer Gravity 175 Milligals

175.0 — 650.0

Milligals 174.5 _ 655.0 Meters

174.0 — 660.0

Density 2.70 gm/cc.

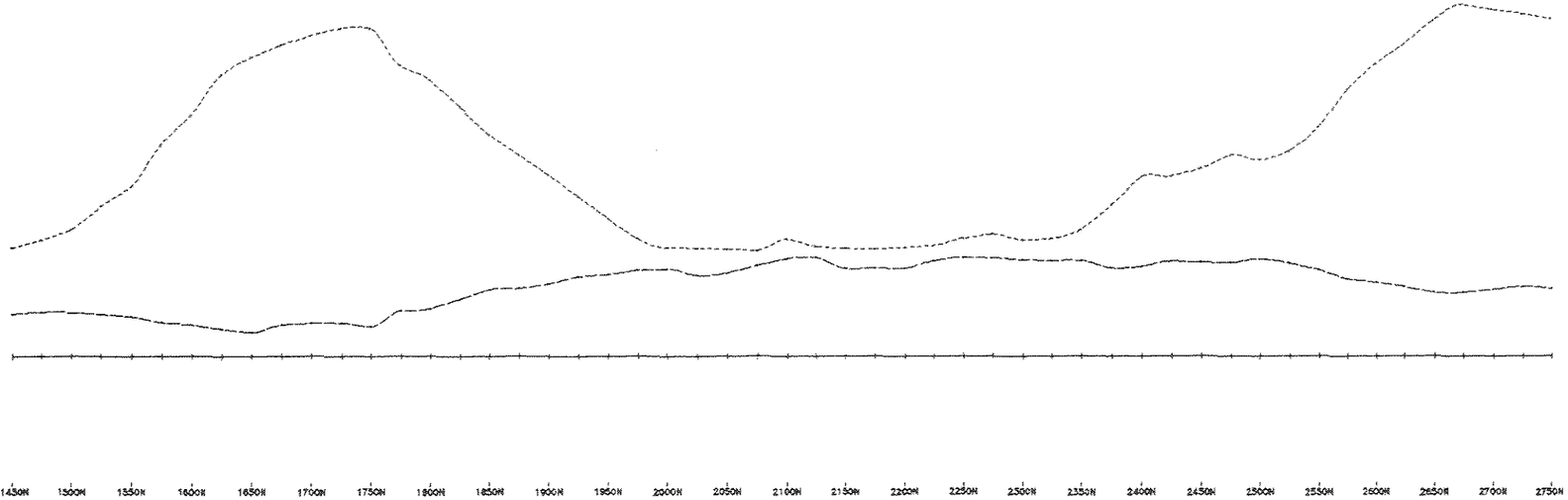


ENERGOLD MINERALS INC

SCINTRIX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY

AREA B 4 GRID, LINE 2225W
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1993

PETER E. WALCOTT & ASSOCIATES LTD.



LEGEND

Surface Elevation

Bouguer Gravity

Base For Elevation 650 meters.

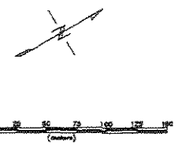
Base For Bouguer Gravity 175 Milligals

175.0 — 650.0

Milligals 174.5 _ 655.0 Meters

174.0 — 660.0

Density 2.70 gm/cc.

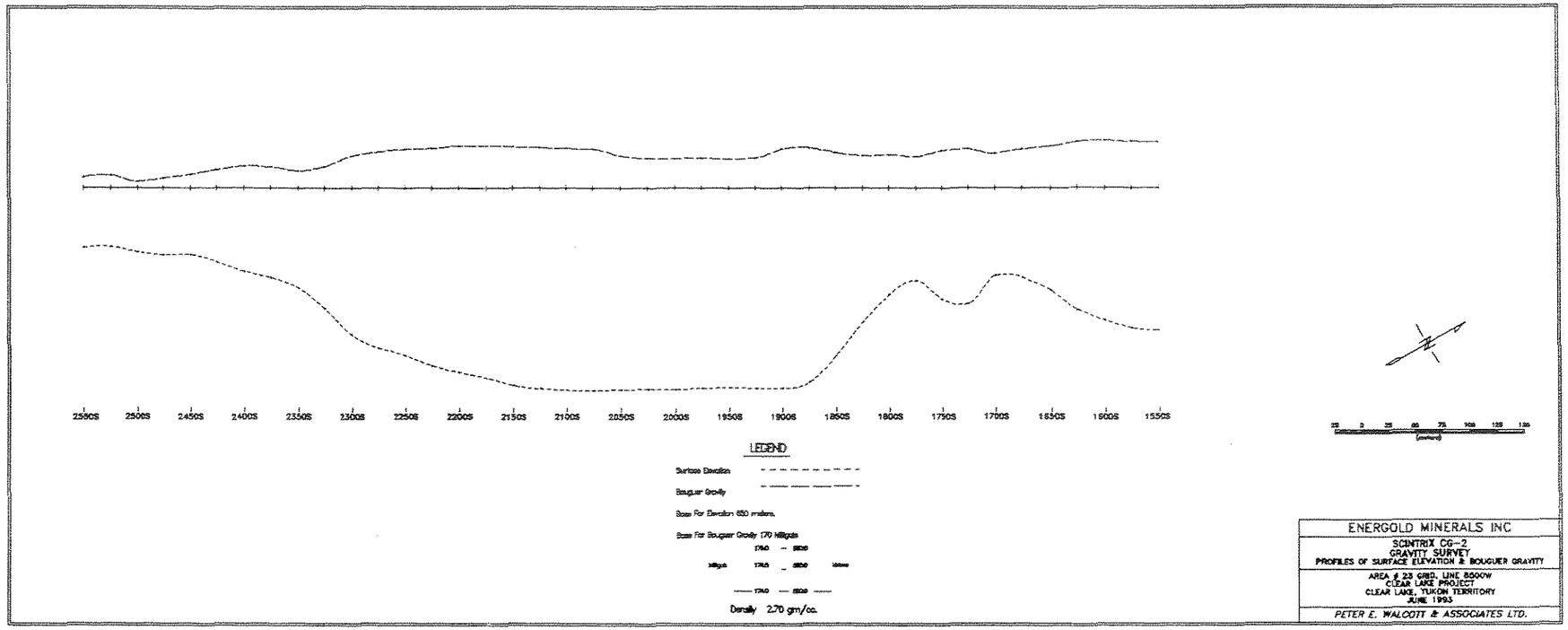


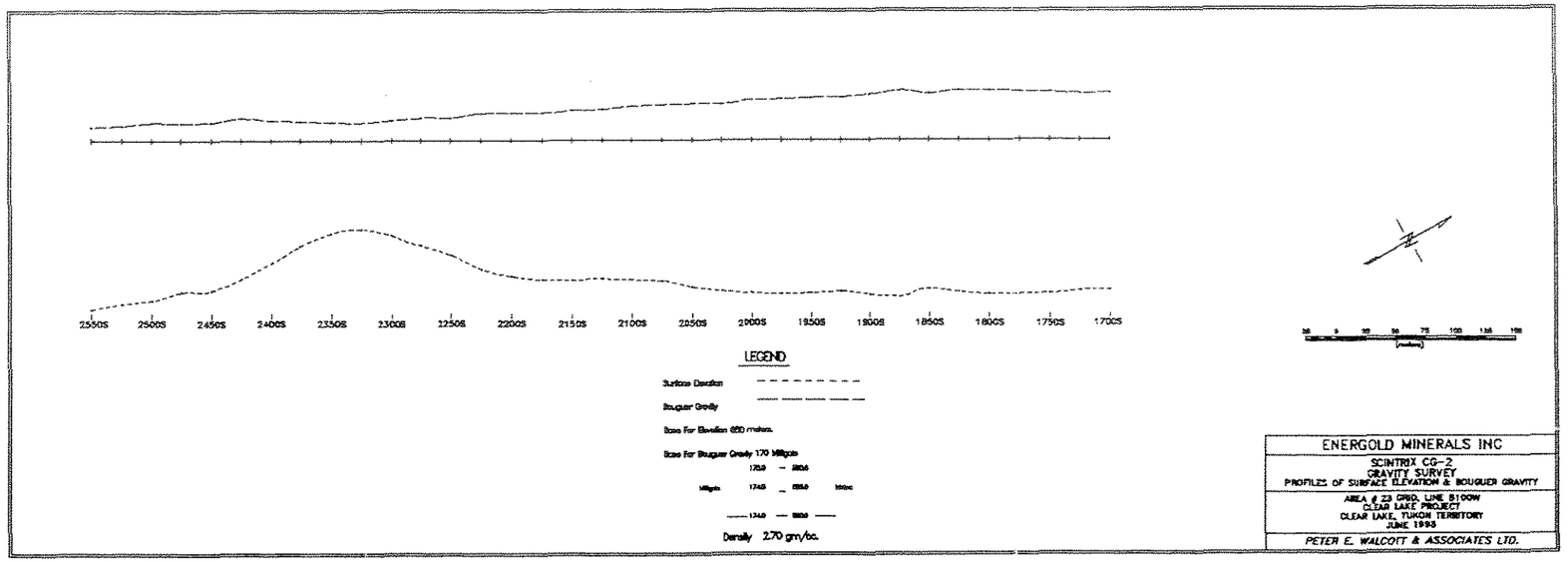
ENERGOLD MINERALS INC

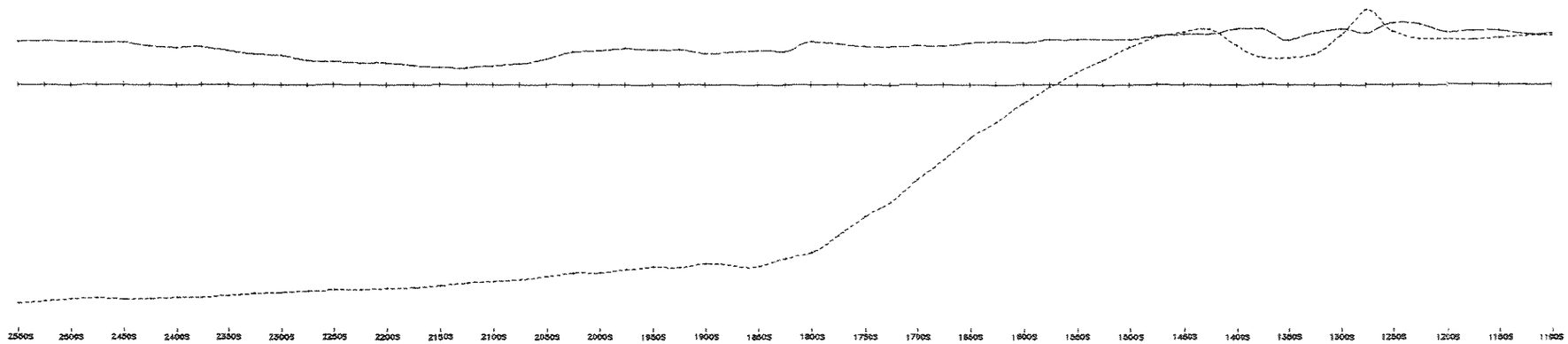
SCINTRIX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY

AREA B 4 GRID, LINE 850W
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1993

PETER E. WALCOTT & ASSOCIATES LTD.


2550S
2500S
2450S
2400S
2350S
2300S
2250S
2200S
2150S
2100S
2050S
2000S
1950S
1900S
1850S
1800S
1750S
1700S
1650S
1600S
1550S
LEGEND
Surface Elevation
Bouguer Gravity
Base For Elevation 650 meters.
Base For Bouguer Gravity 170 Milligals
Density 2.70 gm/cc.
ENERGOLD MINERALS INC
SCINTREX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY
AREA @ 23 GRID. LINE 8500W
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1993
PETER E. WALCOTT & ASSOCIATES LTD.


2550S
2500S
2450S
2400S
2350S
2300S
2250S
2200S
2150S
2100S
2050S
2000S
1950S
1900S
1850S
1800S
1750S
1700S
LEGEND
Surface Elevation
Bouguer Gravity
Base For Elevation 650 meters.
Base For Bouguer Gravity 170 Milligals
Density 2.70 gm/cc.
ENERGOLD MINERALS INC
SCINTREX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY
AREA @ 23 GRID. LINE 8100W
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1993
PETER E. WALCOTT & ASSOCIATES LTD.



LEGEND

Surface Elevation

Bouguer Gravity

Base For Elevation 850 meters.

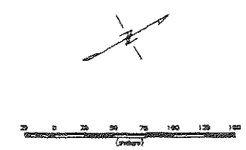
Base For Bouguer Gravity 170 Milligals

1750 = 8500

Milligals 1745 = 8550 Meters

1740 = 8600

Density 2.70 gm/cc.

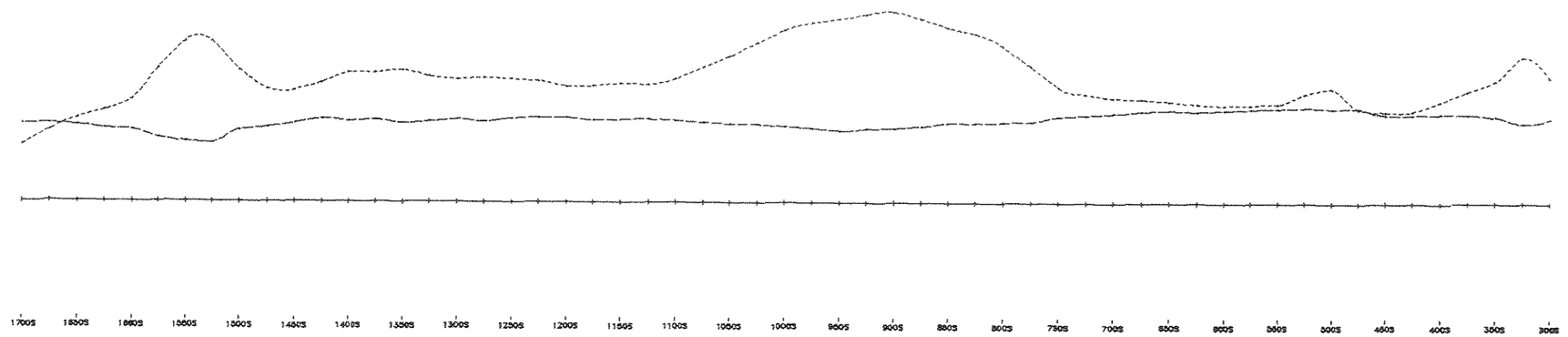


ENERGOLD MINERALS INC

SCINTREX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY

AREA A 23 GRID, LINE 8700W
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1993

PETER E. WALCOTT & ASSOCIATES LTD.



LEGEND

Surface Elevation

Bouguer Gravity

Base For Elevation 850 meters.

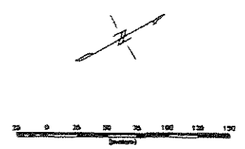
Base For Bouguer Gravity 170 Milligals

1750 = 8500

Milligals 1745 = 8550 Meters

1740 = 8600

Density 2.70 gm/cc.

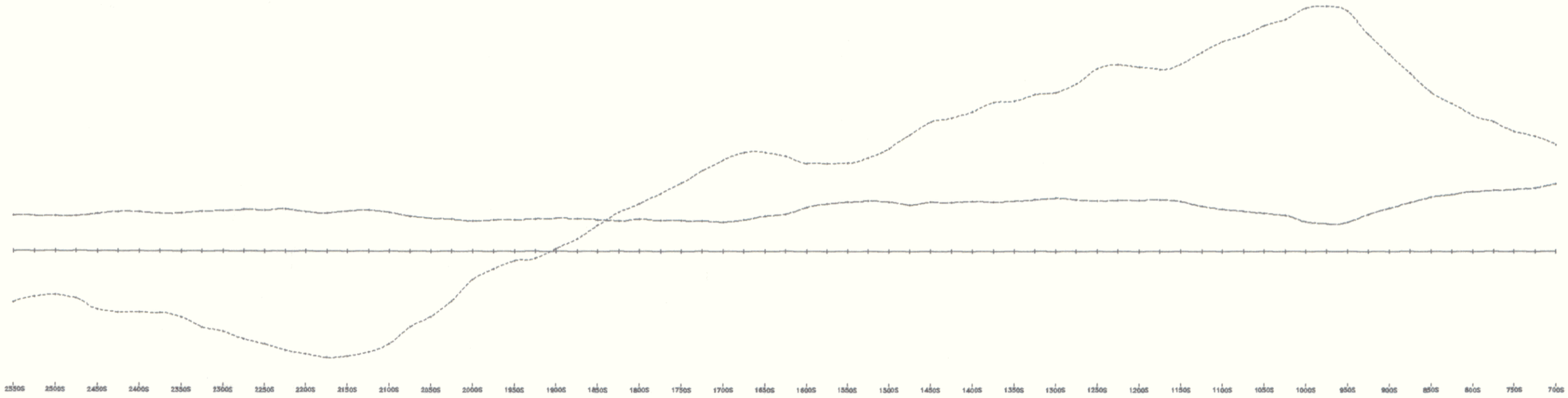


ENERGOLD MINERALS INC

SCINTREX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY

AREA A 23 GRID, LINE 8700W
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1993

PETER E. WALCOTT & ASSOCIATES LTD.



LEGEND

Surface Elevation - - - - - - - - - -

Bouguer Gravity - — — — — —

Base For Elevation 650 metres.

Base For Bouguer Gravity 170 Milligals

	180.0	— 660.0	
Milligals	175.0	— 655.0	Meters
——	170.0	— 650.0	——

Density 2.70 gm/cc.

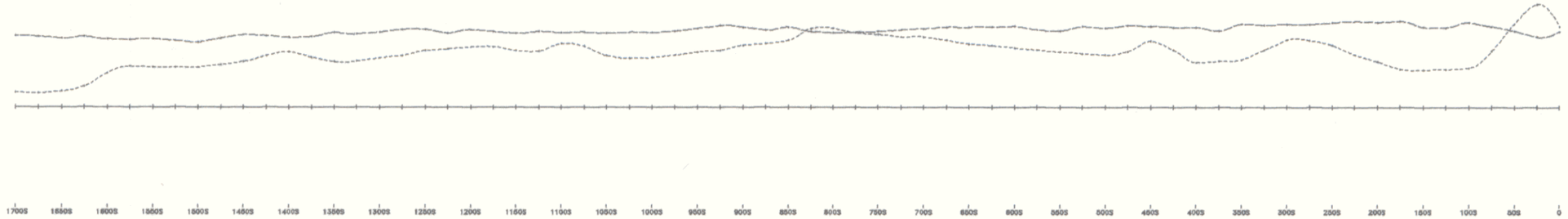
093145

ENERGOLD MINERALS INC

SCINTREX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY

AREA B 23 GRID, LINE 9300W
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1983

PETER E. WALCOTT & ASSOCIATES LTD.



LEGEND

Surface Elevation

Bouguer Gravity

Base For Elevation 650 meters.

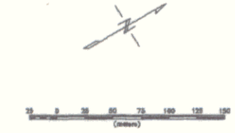
Base For Bouguer Gravity 170 Milligals

1750 — 1560

Milgals 1745 — 655.0 Meters

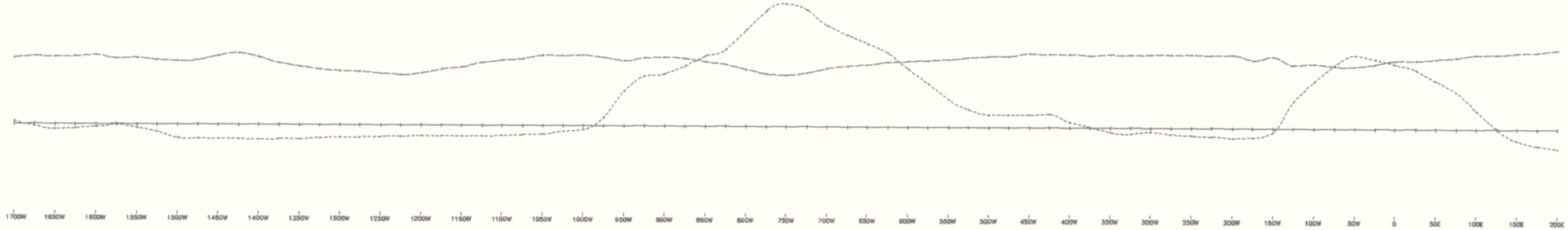
1740 — 1550

Density 2.70 grm/cc.



093145

ENERGOLD MINERALS INC
SCINTREX CG-2 GRAVITY SURVEY PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY
AREA # 23 GRID, LINE 10300W CLEAR LAKE PROJECT CLEAR LAKE, YUKON TERRITORY JUNE 1983
PETER E. WALCOTT & ASSOCIATES LTD.



LEGEND

Surface Elevation

Bouguer Gravity

Base For Elevation 650 meters.

Base For Bouguer Gravity 170 Milligals

1750 — 6600

Milligals 1745 — 6550 Meters

1740 — 6500

Density 2.70 gm/cc.

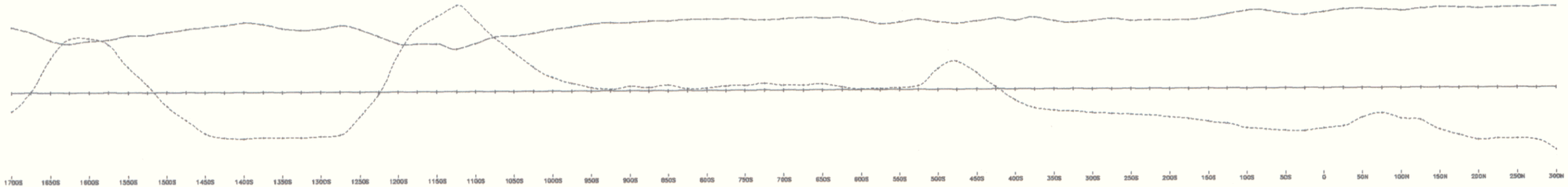
093145

ENERGOLD MINERALS INC

SCINTREX CG-2
GRAVITY SURVEY
PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY

AREA A 23 GRID, LINE 10500
CLEAR LAKE PROJECT
CLEAR LAKE, YUKON TERRITORY
JUNE 1993

PETER E. WALCOTT & ASSOCIATES LTD.



LEGEND

Surface Elevation

Bouguer Gravity

Base For Elevation 650 metres.

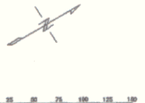
Base For Bouguer Gravity 170 Milligals

170.0 = 650.0

Milligals 174.5 = 650.0 Metres

174.5 = 650.0

Density 2.70 gm/cc.



093145

ENERGOLD MINERALS INC
SCINTREX CG-2 GRAVITY SURVEY PROFILES OF SURFACE ELEVATION & BOUGUER GRAVITY
AREA # 23 GRID, LINE 10900W CLEAR LAKE PROJECT CLEAR LAKE, YUKON TERRITORY JUNE 1993
PETER E. WALCOTT & ASSOCIATES LTD.

GRAVITY DATA
Area 4

X	Y	Station	Meter Reading	Elevation	Latitude Correct.	Final Bouguer Gravity
line	325					
1400	325	1400	314.6	716.83	-1.1066	175.82
1425	325	1425	311.2	717.99	-1.1212	175.69
1450	325	1450	319.9	714.22	-1.1357	175.8
1475	325	1475	333.5	708.35	-1.1503	176.01
1500	325	1500	343.9	704.02	-1.1648	176.17
1525	325	1525	351.6	700.77	-1.1794	176.29
1550	325	1550	357.3	698.08	-1.1939	176.34
1575	325	1575	366.2	694.32	-1.2084	176.47
1600	325	1600	374.4	690.76	-1.223	176.57
1625	325	1625	381	688.13	-1.2375	176.73
1650	325	1650	385.9	686.51	-1.2521	176.88
1675	325	1675	389.1	685.04	-1.2666	176.89
1700	325	1700	392	684.06	-1.2812	176.97
1725	325	1725	390.3	685.26	-1.2957	177.03
1750	325	1750	389.8	685.72	-1.3102	177.07
1775	325	1775	390.2	686.1	-1.3248	177.15
1800	325	1800	390	686.1	-1.3393	177.13
1825	325	1825	394.4	684.44	-1.3539	177.2
1850	325	1850	399.1	682.26	-1.3684	177.23
1875	325	1875	402.6	680.43	-1.383	177.22
1900	325	1900	402.8	680.93	-1.3975	177.32
1925	325	1925	401.4	681.87	-1.4121	177.36
1950	325	1950	400.3	682.31	-1.4266	177.32
1975	325	1975	397.7	683.27	-1.4411	177.22
2000	325	2000	402.5	681.29	-1.4557	177.3
2025	325	2025	402.6	681.2	-1.4702	177.25
2050	325	2050	406.5	679.58	-1.4848	177.32
2075	325	2075	408	678.86	-1.4993	177.34
2100	325	2100	409.7	677.81	-1.5139	177.27
2125	325	2125	411.5	676.93	-1.5284	177.26
2150	325	2150	412	676.94	-1.543	177.27
2175	325	2175	411	677.11	-1.5575	177.15
2200	325	2200	409.8	677.22	-1.572	177.04
2225	325	2225	408.5	677.46	-1.5866	176.98
2250	325	2250	408.8	677.62	-1.6011	177
2275	325	2275	407.6	677.94	-1.6157	176.94
2300	325	2300	409.1	677.99	-1.6302	177.06
2325	325	2325	409.1	678.14	-1.6448	177.08
2350	325	2350	410.2	677.93	-1.6593	177.12
2375	325	2375	411	677.96	-1.6739	177.21
2400	325	2400	412.1	677.97	-1.6884	177.3
2425	325	2425	413.2	677.91	-1.7029	177.39
2450	325	2450	413.8	678.01	-1.7175	177.46
2475	325	2475	413.7	678.21	-1.732	177.49
2500	325	2500	415.7	677.54	-1.7466	177.51
2525	325	2525	417.2	676.95	-1.7611	177.55
2550	325	2550	418.8	676.25	-1.7757	177.54
2575	325	2575	420.8	675.18	-1.7902	177.47
line	650					
1450	650	1450	427.3	673.05	-1.2363	175.9
1475	650	1475	424.4	674.7	-1.2508	175.94
1500	650	1500	419.8	677	-1.2653	175.94
1525	650	1525	410.5	681.89	-1.2799	175.9
1550	650	1550	401.7	686.04	-1.2944	175.84

1575	650	1575	383.6	694.95	-1.309	175.72
1600	650	1600	370.7	701.35	-1.3235	175.68
1625	650	1625	353.3	709.74	-1.3381	175.58
1650	650	1650	346.4	713.46	-1.3526	175.51
1675	650	1675	342	716.07	-1.3671	175.67
1700	650	1700	338.1	718.3	-1.3817	175.72
1725	650	1725	335.7	719.65	-1.3962	175.71
1750	650	1750	334.6	719.74	-1.4108	175.63
1775	650	1775	354	711.88	-1.4253	175.97
1800	650	1800	360.5	708.83	-1.4399	176.03
1825	650	1825	373.1	703.12	-1.4544	176.22
1850	650	1850	387.6	697.17	-1.469	176.42
1875	650	1875	396.5	692.96	-1.4835	176.46
1900	650	1900	404.9	688.67	-1.498	176.55
1925	650	1925	415.6	683.95	-1.5126	176.69
1950	650	1950	425.5	679.27	-1.5271	176.74
1975	650	1975	434.4	675.17	-1.5417	176.83
2000	650	2000	438.8	673.16	-1.5562	176.86
2025	650	2025	438.1	672.96	-1.5708	176.72
2050	650	2050	439	672.76	-1.5853	176.77
2075	650	2075	441.2	672.65	-1.5999	176.94
2100	650	2100	438.3	674.81	-1.6144	177.07
2125	650	2125	441.5	673.36	-1.6289	177.1
2150	650	2150	440.6	672.86	-1.6435	176.87
2175	650	2175	440.8	672.92	-1.658	176.89
2200	650	2200	440.4	673.15	-1.6726	176.87
2225	650	2225	441.2	673.55	-1.6871	177.03
2250	650	2250	438.9	675.1	-1.7017	177.11
2275	650	2275	437.3	676.03	-1.7162	177.1
2300	650	2300	439.6	674.71	-1.7308	177.05
2325	650	2325	438.9	675.01	-1.7453	177.03
2350	650	2350	435.2	677.07	-1.7598	177.05
2375	650	2375	423.9	682.24	-1.7744	176.88
2400	650	2400	412.6	688.1	-1.7889	176.91
2425	650	2425	413.5	688.27	-1.8035	177.02
2450	650	2450	410	690.04	-1.818	177.01
2475	650	2475	405	692.72	-1.8326	176.99
2500	650	2500	407.9	691.73	-1.8471	177.07
2525	650	2525	403.4	693.64	-1.8616	176.98
2550	650	2550	392.4	698.78	-1.8762	176.85
2575	650	2575	374.9	706.68	-1.8907	176.64
2600	650	2600	363.6	712.15	-1.9053	176.57
2625	650	2625	355	716.23	-1.9198	176.48
2650	650	2650	343.4	721.51	-1.9344	176.37
2675	650	2675	337.3	724.77	-1.9489	176.36
2700	650	2700	340.1	723.69	-1.9635	176.42
2725	650	2725	342.8	722.89	-1.978	176.49
2750	650	2750	344.2	721.87	-1.9925	176.44

GRAVITY DATA
Area 23

X	Y	Station	Meter Reading	Elevation	Latitude Correct.	Bouguer Gravity	Final Bou. Gr.
line	8100						
-2550	8100	-2550	470.9	614.27	-1.2508	165.21	170.27
-2525	8100	-2525	469.2	615.42	-1.2653	165.24	170.3
-2500	8100	-2500	468.4	616.12	-1.2799	165.3	170.36
-2475	8100	-2475	465	617.86	-1.2944	165.29	170.35
-2450	8100	-2450	465.4	618.18	-1.309	165.31	170.37
-2425	8100	-2425	460.8	620.81	-1.3235	165.41	170.47
-2400	8100	-2400	454.1	624.01	-1.3381	165.35	170.41
-2375	8100	-2375	447.2	627.62	-1.3526	165.33	170.39
-2350	8100	-2350	441.8	630.28	-1.3671	165.31	170.37
-2325	8100	-2325	440.1	631.16	-1.3817	165.3	170.36
-2300	8100	-2300	443.2	629.98	-1.3962	165.36	170.42
-2275	8100	-2275	448	627.69	-1.4108	165.41	170.47
-2250	8100	-2250	452.3	625.67	-1.4253	165.4	170.46
-2225	8100	-2225	459.2	622.69	-1.4399	165.49	170.55
-2200	8100	-2200	462.4	621.22	-1.4544	165.51	170.57
-2175	8100	-2175	463.7	620.55	-1.469	165.51	170.57
-2150	8100	-2150	464.6	620.54	-1.4835	165.56	170.62
-2125	8100	-2125	464.5	620.65	-1.498	165.57	170.63
-2100	8100	-2100	465.6	620.45	-1.5126	165.64	170.7
-2075	8100	-2075	466.7	620.17	-1.5271	165.67	170.73
-2050	8100	-2050	469.6	618.9	-1.5417	165.69	170.75
-2025	8100	-2025	471.5	618.2	-1.5562	165.7	170.76
-2000	8100	-2000	473.2	617.64	-1.5708	165.77	170.83
-1975	8100	-1975	474.2	617.32	-1.5853	165.78	170.84
-1950	8100	-1950	474.1	617.51	-1.5999	165.81	170.87
-1925	8100	-1925	473.6	617.84	-1.6144	165.82	170.88
-1900	8100	-1900	475.6	617.21	-1.6289	165.88	170.94
-1875	8100	-1875	477.3	616.91	-1.6435	165.97	171.03
-1850	8100	-1850	473.3	618.48	-1.658	165.89	170.95
-1825	8100	-1825	475.7	617.8	-1.6726	165.96	171.02
-1800	8100	-1800	477	617.34	-1.6871	165.96	171.02
-1775	8100	-1775	476.6	617.44	-1.7017	165.95	171.01
-1750	8100	-1750	476.1	617.7	-1.7162	165.94	171
-1725	8100	-1725	475	618.14	-1.7308	165.9	170.96
-1700	8100	-1700	475.1	618.26	-1.7453	165.91	170.97
line	8500						
-2550	8500	-2550	429.6	635.98	-1.3745	165.19	170.25
-2525	8500	-2525	429.7	636.08	-1.3891	165.22	170.28
-2500	8500	-2500	430.8	634.81	-1.4036	165.07	170.13
-2475	8500	-2475	433.6	634.06	-1.4182	165.15	170.21
-2450	8500	-2450	434.1	634.2	-1.4327	165.24	170.3
-2425	8500	-2425	438.7	632.59	-1.4472	165.36	170.42
-2400	8500	-2400	444	630.37	-1.4618	165.45	170.51
-2375	8500	-2375	446.9	628.8	-1.4763	165.41	170.47
-2350	8500	-2350	450.9	626.43	-1.4909	165.33	170.39
-2325	8500	-2325	461.6	621.53	-1.5054	165.43	170.49
-2300	8500	-2300	476.2	615.43	-1.52	165.67	170.73
-2275	8500	-2275	483	612.48	-1.5345	165.78	170.84
-2250	8500	-2250	487.1	610.56	-1.5491	165.83	170.89
-2225	8500	-2225	492	608.2	-1.5636	165.85	170.91
-2200	8500	-2200	496.1	606.63	-1.5781	165.91	170.97
-2175	8500	-2175	498.6	605.34	-1.5927	165.9	170.96
-2150	8500	-2150	502.1	603.68	-1.6072	165.9	170.96
-2125	8500	-2125	503.6	602.85	-1.6218	165.87	170.93

-2100	8500	-2100	504.5	602.45	-1.6363	165.85	170.91
-2075	8500	-2075	504.4	602.34	-1.6509	165.83	170.89
-2050	8500	-2050	502.6	602.51	-1.6654	165.68	170.74
-2025	8500	-2025	502	602.7	-1.68	165.62	170.68
-2000	8500	-2000	501.8	602.73	-1.6945	165.62	170.68
-1975	8500	-1975	501.9	602.84	-1.709	165.62	170.68
-1950	8500	-1950	501.6	603.05	-1.7236	165.61	170.67
-1925	8500	-1925	502.4	602.91	-1.7381	165.63	170.69
-1900	8500	-1900	504.4	602.81	-1.7527	165.83	170.89
-1875	8500	-1875	502.1	604.43	-1.7672	165.88	170.94
-1850	8500	-1850	489	610.56	-1.7818	165.75	170.81
-1825	8500	-1825	473	618.38	-1.7963	165.68	170.74
-1800	8500	-1800	460.9	624.86	-1.8109	165.7	170.76
-1775	8500	-1775	454.2	628.14	-1.8254	165.66	170.72
-1750	8500	-1750	464.8	623.68	-1.8399	165.8	170.86
-1725	8500	-1725	466.8	622.79	-1.8545	165.85	170.91
-1700	8500	-1700	453	629.32	-1.869	165.73	170.79
-1675	8500	-1675	454.9	628.85	-1.8836	165.83	170.89
-1650	8500	-1650	462.2	625.81	-1.8981	165.9	170.96
-1625	8500	-1625	471.8	621.28	-1.9127	166.01	171.07
-1600	8500	-1600	476.8	618.97	-1.9272	166.05	171.11
-1575	8500	-1575	480.6	616.98	-1.9417	166.01	171.07
-1550	8500	-1550	481.6	616.54	-1.9563	165.99	171.05
line	8900						
-2550	8900	-2550	514	597.94	-1.4983	165.95	171.01
-2525	8900	-2525	513.4	598.47	-1.5128	165.97	171.03
-2500	8900	-2500	512	598.97	-1.5273	165.96	171.02
-2475	8900	-2475	511.6	599.17	-1.5419	165.93	170.99
-2450	8900	-2450	512.6	598.88	-1.5564	165.93	170.99
-2425	8900	-2425	511.4	599.05	-1.571	165.84	170.9
-2400	8900	-2400	510.7	599.33	-1.5855	165.81	170.87
-2375	8900	-2375	510.9	599.46	-1.6001	165.83	170.89
-2350	8900	-2350	509.5	599.78	-1.6146	165.73	170.79
-2325	8900	-2325	507.5	600.23	-1.6292	165.65	170.71
-2300	8900	-2300	507.2	600.51	-1.6437	165.62	170.68
-2275	8900	-2275	505.6	600.87	-1.6582	165.5	170.56
-2250	8900	-2250	504.9	601.08	-1.6728	165.47	170.53
-2225	8900	-2225	504.4	601.09	-1.6873	165.44	170.5
-2200	8900	-2200	503.9	601.45	-1.7019	165.44	170.5
-2175	8900	-2175	503.2	601.65	-1.7164	165.38	170.44
-2150	8900	-2150	502	602.15	-1.731	165.34	170.4
-2125	8900	-2125	501.2	602.69	-1.7455	165.32	170.38
-2100	8900	-2100	500.6	603.13	-1.7601	165.37	170.43
-2075	8900	-2075	500.4	603.52	-1.7746	165.42	170.48
-2050	8900	-2050	500.3	604.35	-1.7891	165.53	170.59
-2025	8900	-2025	500.5	605.08	-1.8037	165.69	170.75
-2000	8900	-2000	501	605.14	-1.8182	165.73	170.79
-1975	8900	-1975	499.9	605.89	-1.8328	165.78	170.84
-1950	8900	-1950	499	606.58	-1.8473	165.75	170.81
-1925	8900	-1925	499.2	606.35	-1.8619	165.75	170.81
-1900	8900	-1900	496.4	607.34	-1.8764	165.66	170.72
-1850	8900	-1850	499.1	606.71	-1.9055	165.74	170.8
-1825	8900	-1825	494.9	608.68	-1.92	165.72	170.78
-1800	8900	-1800	494.4	610.01	-1.9346	165.94	171
-1775	8900	-1775	486.5	613.96	-1.9491	165.89	170.95
-1750	8900	-1750	477.2	618.51	-1.9637	165.83	170.89
-1725	8900	-1725	471.1	622.01	-1.9782	165.83	170.89
-1700	8900	-1700	460	627.3	-1.9928	165.85	170.91
-1675	8900	-1675	451.1	632.02	-2.0073	165.84	170.9
-1650	8900	-1650	441.8	637.15	-2.0218	165.91	170.97
-1625	8900	-1625	434.9	640.97	-2.0364	165.94	171

-1600	8900	-1600	426.3	645.47	-2.0509	165.93	170.99
-1575	8900	-1575	419.5	649.2	-2.0655	165.98	171.04
-1550	8900	-1550	413.2	652.73	-2.08	165.99	171.05
-1525	8900	-1525	407.3	655.6	-2.0946	165.99	171.05
-1500	8900	-1500	401.9	658.77	-2.1091	166	171.06
-1475	8900	-1475	397.9	661.08	-2.1237	166.08	171.14
-1450	8900	-1450	396.3	662.34	-2.1382	166.12	171.18
-1425	8900	-1425	395.3	662.98	-2.1527	166.13	171.19
-1400	8900	-1400	403.9	659.12	-2.1673	166.25	171.31
-1375	8900	-1375	409.6	656.26	-2.1818	166.24	171.3
-1350	8900	-1350	407.6	656.19	-2.1964	165.98	171.04
-1325	8900	-1325	407.8	657.12	-2.2109	166.15	171.21
-1300	8900	-1300	399.9	661.55	-2.2255	166.25	171.31
-1275	8900	-1275	387.1	667.69	-2.24	166.15	171.21
-1250	8900	-1250	399.8	662.53	-2.2546	166.39	171.45
-1225	8900	-1225	403	660.72	-2.2691	166.36	171.42
-1200	8900	-1200	401.6	660.8	-2.2836	166.18	171.24
-1175	8900	-1175	402.1	660.7	-2.2982	166.23	171.29
-1150	8900	-1150	401.8	661.13	-2.3127	166.22	171.28
-1125	8900	-1125	400.6	661.52	-2.3273	166.14	171.2
-1100	8900	-1100	400.4	661.71	-2.3418	166.16	171.22
line	9300						
-2550	9300	-2550	442.4	634.88	-1.622	166	171.06
-2525	9300	-2525	439.4	636.43	-1.6365	165.99	171.05
-2500	9300	-2500	438.9	636.9	-1.6511	165.98	171.04
-2475	9300	-2475	441.4	635.84	-1.6656	165.98	171.04
-2450	9300	-2450	448	632.69	-1.6802	166.05	171.11
-2425	9300	-2425	450.5	631.84	-1.6947	166.11	171.17
-2400	9300	-2400	450.2	631.76	-1.7093	166.1	171.16
-2375	9300	-2375	450.1	631.73	-1.7238	166.06	171.12
-2350	9300	-2350	453	630.49	-1.7383	166.07	171.13
-2325	9300	-2325	459.8	627.47	-1.7529	166.12	171.18
-2300	9300	-2300	462.3	626.18	-1.7674	166.14	171.2
-2275	9300	-2275	467.1	623.94	-1.782	166.17	171.23
-2250	9300	-2250	470.2	622.42	-1.7965	166.16	171.22
-2225	9300	-2225	474.2	620.6	-1.8111	166.19	171.25
-2200	9300	-2200	476.2	619.43	-1.8256	166.11	171.17
-2175	9300	-2175	477.9	618.37	-1.8402	166.07	171.13
-2150	9300	-2150	477.7	618.81	-1.8547	166.13	171.19
-2125	9300	-2125	475.8	619.98	-1.8692	166.16	171.22
-2100	9300	-2100	470.4	622.46	-1.8838	166.09	171.15
-2075	9300	-2075	459.7	627.54	-1.8983	165.98	171.04
-2050	9300	-2050	453	630.67	-1.9129	165.92	170.98
-2025	9300	-2025	443.9	635.23	-1.9274	165.89	170.95
-2000	9300	-2000	431.5	641.55	-1.942	165.84	170.9
-1975	9300	-1975	425.5	644.78	-1.9565	165.87	170.93
-1950	9300	-1950	421	647.23	-1.9711	165.87	170.93
-1925	9300	-1925	420	647.84	-1.9856	165.9	170.96
-1900	9300	-1900	416.2	650.79	-2.0001	165.92	170.98
-1875	9300	-1875	410.8	653.64	-2.0147	165.91	170.97
-1850	9300	-1850	402.6	657.72	-2.0292	165.88	170.94
-1825	9300	-1825	394.8	661.56	-2.0438	165.84	170.9
-1800	9300	-1800	390.3	664.15	-2.0583	165.9	170.96
-1775	9300	-1775	384.3	667.14	-2.0729	165.85	170.91
-1750	9300	-1750	378.7	670.24	-2.0874	165.85	170.91
-1725	9300	-1725	371.2	673.91	-2.1019	165.84	170.9
-1700	9300	-1700	365.5	677.08	-2.1165	165.81	170.87
-1675	9300	-1675	361.4	679.35	-2.131	165.87	170.93
-1650	9300	-1650	362.6	679.35	-2.1456	165.98	171.04
-1625	9300	-1625	365.7	678.15	-2.1601	166.04	171.1
-1600	9300	-1600	371.8	676.11	-2.1747	166.24	171.3

-1575	9300	-1575	373.2	676.05	-2.1892	166.35	171.41
-1550	9300	-1550	373.6	676.17	-2.2038	166.4	171.46
-1525	9300	-1525	371.2	677.71	-2.2183	166.44	171.5
-1500	9300	-1500	365.6	680.56	-2.2328	166.41	171.47
-1475	9300	-1475	356.9	684.63	-2.2474	166.32	171.38
-1450	9300	-1450	350.4	688.36	-2.2619	166.4	171.46
-1425	9300	-1425	348.4	689.53	-2.2765	166.39	171.45
-1400	9300	-1400	344.1	691.47	-2.291	166.43	171.49
-1375	9300	-1375	338.2	694.27	-2.3056	166.4	171.46
-1350	9300	-1350	338.1	694.62	-2.3201	166.43	171.49
-1325	9300	-1325	334.8	696.51	-2.3347	166.47	171.53
-1300	9300	-1300	334.1	697.15	-2.3492	166.52	171.58
-1275	9300	-1275	329	699.69	-2.3637	166.47	171.53
-1250	9300	-1250	320	704.17	-2.3783	166.44	171.5
-1225	9300	-1225	318.3	705.39	-2.3928	166.46	171.52
-1200	9300	-1200	319.5	704.71	-2.4074	166.46	171.52
-1175	9300	-1175	321.1	704.02	-2.4219	166.48	171.54
-1150	9300	-1150	317.6	705.53	-2.4365	166.42	171.48
-1125	9300	-1125	309.7	709.09	-2.451	166.28	171.34
-1100	9300	-1100	302.8	712.26	-2.4656	166.19	171.25
-1075	9300	-1075	298.5	714.15	-2.4801	166.13	171.19
-1050	9300	-1050	292.5	717.02	-2.4946	166.07	171.13
-1025	9300	-1025	288.3	718.94	-2.5092	166.01	171.07
-1000	9300	-1000	280	722.33	-2.5237	165.82	170.88
-975	9300	-975	278.4	722.8	-2.5383	165.76	170.82
-950	9300	-950	281.9	721.4	-2.5528	165.8	170.86
-925	9300	-925	297.8	714.53	-2.5674	166.04	171.1
-900	9300	-900	311.3	708.52	-2.5819	166.22	171.28
-875	9300	-875	323.9	702.87	-2.5964	166.39	171.45
-850	9300	-850	337	697.34	-2.611	166.55	171.61
-825	9300	-825	344	694.03	-2.6255	166.63	171.69
-800	9300	-800	352	690.49	-2.6401	166.72	171.78
-775	9300	-775	356.5	688.46	-2.6546	166.75	171.81
-750	9300	-750	362.5	685.66	-2.6692	166.78	171.84
-725	9300	-725	365.7	684.28	-2.6837	166.83	171.89
-700	9300	-700	372.3	681.77	-2.6983	166.95	172.01
line	9700						
-1700	9700	-1700	399.7	662.89	-2.2402	166.72	171.78
-1675	9700	-1675	393	666.44	-2.2548	166.72	171.78
-1650	9700	-1650	387.8	669.1	-2.2693	166.69	171.75
-1625	9700	-1625	383.7	670.97	-2.2839	166.62	171.68
-1600	9700	-1600	378.5	673.44	-2.2984	166.59	171.65
-1575	9700	-1575	362.8	680.74	-2.3129	166.41	171.47
-1550	9700	-1550	349.8	686.93	-2.3275	166.32	171.38
-1525	9700	-1525	350	686.88	-2.342	166.29	171.35
-1500	9700	-1500	365.5	680.42	-2.3566	166.59	171.65
-1475	9700	-1475	374.9	676.05	-2.3711	166.66	171.72
-1450	9700	-1450	377.5	675.74	-2.3857	166.75	171.81
-1425	9700	-1425	374.1	677.42	-2.4002	166.85	171.91
-1400	9700	-1400	369.1	679.79	-2.4148	166.8	171.86
-1375	9700	-1375	369.8	679.77	-2.4293	166.83	171.89
-1350	9700	-1350	367.8	680.43	-2.4438	166.76	171.82
-1325	9700	-1325	371.3	678.9	-2.4584	166.79	171.85
-1300	9700	-1300	373.2	678.33	-2.4729	166.84	171.9
-1275	9700	-1275	372.9	678.63	-2.4875	166.79	171.85
-1250	9700	-1250	373.7	678.36	-2.502	166.87	171.93
-1225	9700	-1225	374.9	677.93	-2.5166	166.89	171.95
-1200	9700	-1200	377.3	676.72	-2.5311	166.88	171.94
-1175	9700	-1175	376.9	676.8	-2.5457	166.83	171.89
-1150	9700	-1150	375.8	677.36	-2.5602	166.84	171.9
-1125	9700	-1125	376.5	677.26	-2.5747	166.86	171.92

-1100	9700	-1100	373.8	678.42	-2.5893	166.82	171.88
-1075	9700	-1075	368.2	681.08	-2.6038	166.78	171.84
-1050	9700	-1050	363	683.69	-2.6184	166.74	171.8
-1025	9700	-1025	356.9	686.83	-2.6329	166.74	171.8
-1000	9700	-1000	350.8	689.74	-2.6475	166.69	171.75
-975	9700	-975	347.4	691.43	-2.662	166.64	171.7
-950	9700	-950	344.8	692.37	-2.6765	166.59	171.65
-925	9700	-925	343.3	693.49	-2.6911	166.63	171.69
-900	9700	-900	342.4	694.18	-2.7056	166.66	171.72
-875	9700	-875	346.4	692.41	-2.7202	166.69	171.75
-850	9700	-850	351	690.48	-2.7347	166.77	171.83
-825	9700	-825	354	689.01	-2.7493	166.77	171.83
-800	9700	-800	359.9	686.19	-2.7638	166.79	171.85
-775	9700	-775	370.3	681.4	-2.7784	166.8	171.86
-750	9700	-750	380.1	676.64	-2.7929	166.92	171.98
-725	9700	-725	383.9	675.06	-2.8074	166.96	172.02
-700	9700	-700	385.7	674.24	-2.822	167	172.06
-675	9700	-675	387.4	673.84	-2.8365	167.04	172.1
-650	9700	-650	389.4	673.37	-2.8511	167.07	172.13
-625	9700	-625	389.5	672.8	-2.8656	167.05	172.11
-600	9700	-600	390.5	672.52	-2.8802	167.08	172.14
-575	9700	-575	390.5	672.66	-2.8947	167.1	172.16
-550	9700	-550	390.6	672.87	-2.9093	167.12	172.18
-525	9700	-525	386.6	675.12	-2.9238	167.14	172.2
-500	9700	-500	381.2	676.44	-2.9383	167.12	172.18
-475	9700	-475	390.5	671.78	-2.9529	167.13	172.19
-450	9700	-450	390.6	671.1	-2.9674	166.98	172.04
-425	9700	-425	390.6	671.26	-2.982	166.98	172.04
-400	9700	-400	386.5	673.51	-2.9965	167	172.06
-375	9700	-375	381.9	676.02	-3.0111	167.01	172.07
-350	9700	-350	376.9	678.27	-3.0256	166.95	172.01
-325	9700	-325	364.6	683.83	-3.0402	166.79	171.85
-300	9700	-300	375.1	679.15	-3.0547	166.91	171.97
line	10100						
-1700	10100	-1700	425.6	654.13	-2.364	166.91	171.97
-1675	10100	-1675	425.5	653.97	-2.3785	166.89	171.95
-1650	10100	-1650	424.2	654.4	-2.393	166.83	171.89
-1625	10100	-1625	422.5	655.74	-2.4076	166.88	171.94
-1600	10100	-1600	414.7	659.4	-2.4221	166.81	171.87
-1575	10100	-1575	411.5	661.26	-2.4367	166.8	171.86
-1550	10100	-1550	412.5	661.01	-2.4512	166.82	171.88
-1525	10100	-1525	411.9	660.93	-2.4658	166.77	171.83
-1500	10100	-1500	411.6	661.04	-2.4803	166.73	171.79
-1475	10100	-1475	411.8	661.73	-2.4949	166.84	171.9
-1450	10100	-1450	411.1	662.58	-2.5094	166.93	171.99
-1425	10100	-1425	408.1	664.15	-2.5239	166.91	171.97
-1400	10100	-1400	405.5	665.2	-2.5385	166.86	171.92
-1375	10100	-1375	408.5	663.71	-2.553	166.88	171.94
-1350	10100	-1350	412.5	662.51	-2.5676	166.99	172.05
-1325	10100	-1325	411.9	662.68	-2.5821	166.95	172.01
-1300	10100	-1300	410.9	663.55	-2.5967	167.01	172.07
-1275	10100	-1275	410.5	664.21	-2.6112	167.08	172.14
-1250	10100	-1250	408.1	665.56	-2.6258	167.08	172.14
-1225	10100	-1225	406.5	666.01	-2.6403	166.98	172.04
-1200	10100	-1200	406.4	666.54	-2.6548	167.07	172.13
-1175	10100	-1175	405.9	666.69	-2.6694	167.02	172.08
-1150	10100	-1150	407.9	665.55	-2.6839	166.97	172.03
-1125	10100	-1125	408.9	665.38	-2.6985	167.02	172.08
-1100	10100	-1100	403.6	667.52	-2.713	166.99	172.05
-1075	10100	-1075	405.3	666.73	-2.7276	167	172.06
-1050	10100	-1050	410.2	664.11	-2.7421	166.97	172.03

-1025	10100	-1025	411.8	663.44	-2.7566	167	172.06
-1000	10100	-1000	412.1	663.61	-2.7712	166.99	172.05
-975	10100	-975	411.1	664.25	-2.7857	167.03	172.09
-950	10100	-950	410.5	665.12	-2.8003	167.1	172.16
-925	10100	-925	410.4	665.62	-2.8148	167.18	172.24
-900	10100	-900	407.3	667.02	-2.8294	167.14	172.2
-875	10100	-875	405.9	667.51	-2.8439	167.06	172.12
-850	10100	-850	405	668.33	-2.8585	167.14	172.2
-825	10100	-825	397.6	671.62	-2.873	167.02	172.08
-800	10100	-800	397.1	671.74	-2.8875	166.99	172.05
-775	10100	-775	399.9	670.44	-2.9021	167	172.06
-750	10100	-750	401.1	669.98	-2.9166	167.02	172.08
-725	10100	-725	403.2	669.36	-2.9312	167.07	172.13
-700	10100	-700	403.4	669.35	-2.9457	167.1	172.16
-675	10100	-675	406.2	668.36	-2.9603	167.14	172.2
-650	10100	-650	408.1	667.4	-2.9748	167.14	172.2
-625	10100	-625	409.1	666.99	-2.9894	167.15	172.21
-600	10100	-600	411	666.33	-3.0039	167.16	172.22
-575	10100	-575	411.2	665.73	-3.0184	167.07	172.13
-550	10100	-550	411.7	665.2	-3.033	167.04	172.1
-525	10100	-525	414.4	664.75	-3.0475	167.16	172.22
-500	10100	-500	415	664.3	-3.0621	167.12	172.18
-475	10100	-475	414	665.26	-3.0766	167.18	172.24
-450	10100	-450	408.1	668.16	-3.0912	167.17	172.23
-425	10100	-425	413.2	665.75	-3.1203	167.14	172.2
-400	10100	-400	419.3	662.31	-3.1203	167.14	172.2
-375	10100	-375	418.1	662.7	-3.1348	167.04	172.1
-350	10100	-350	419	663.1	-3.1493	167.23	172.29
-325	10100	-325	413.6	665.79	-3.1639	167.2	172.26
-300	10100	-300	400.3	668.49	-3.1784	167.22	172.28
-275	10100	-275	400.8	668.41	-3.193	167.22	172.28
-250	10100	-250	403.8	667.09	-3.2075	167.27	172.33
-225	10100	-225	409.5	664.43	-3.2221	167.3	172.36
-200	10100	-200	413.1	662.51	-3.2366	167.28	172.34
-175	10100	-175	417.3	660.53	-3.2511	167.31	172.37
-150	10100	-150	416.3	660.3	-3.2657	167.15	172.21
-125	10100	-125	416.4	660.5	-3.2802	167.14	172.2
-100	10100	-100	417.1	660.85	-3.2948	167.27	172.33
-75	10100	-75	407	665.5	-3.3093	167.17	172.23
-50	10100	-50	391.4	673.07	-3.3239	167.05	172.11
-25	10100	-25	379.4	678.34	-3.3384	166.88	171.94
0	10100	0	393	672.25	-3.353	167.03	172.09
line	10500						
-1700	10500	-1700	434.5	650.89	-2.4877	167	172.06
-1675	10500	-1675	438.2	649.39	-2.5022	167.04	172.1
-1650	10500	-1650	440	648.44	-2.5168	167.02	172.08
-1625	10500	-1625	439.7	648.79	-2.5313	167.04	172.1
-1600	10500	-1600	439	649.23	-2.5459	167.08	172.14
-1575	10500	-1575	437.3	649.74	-2.5604	166.97	172.03
-1550	10500	-1550	439	648.98	-2.575	167	172.06
-1525	10500	-1525	441.3	647.71	-2.5895	166.94	172
-1500	10500	-1500	444.6	645.85	-2.604	166.9	171.96
-1475	10500	-1475	445.6	645.64	-2.6186	166.93	171.99
-1450	10500	-1450	447.2	645.58	-2.6331	167.07	172.13
-1425	10500	-1425	447.8	645.61	-2.6477	167.15	172.21
-1400	10500	-1400	447.1	645.48	-2.6622	167.03	172.09
-1375	10500	-1375	445.4	645.57	-2.6768	166.85	171.91
-1350	10500	-1350	444.7	645.6	-2.6913	166.75	171.81
-1325	10500	-1325	443	646.05	-2.7059	166.66	171.72
-1300	10500	-1300	442.3	646.2	-2.7204	166.61	171.67
-1275	10500	-1275	442.3	646.25	-2.7349	166.59	171.65

-1250	10500	-1250	441.3	646.44	-2.7495	166.54	171.6
-1225	10500	-1225	440.9	646.58	-2.764	166.5	171.56
-1200	10500	-1200	441.2	646.69	-2.7786	166.55	171.61
-1175	10500	-1175	442.5	646.74	-2.7931	166.67	171.73
-1150	10500	-1150	443.3	646.77	-2.8077	166.74	171.8
-1125	10500	-1125	445	646.74	-2.8222	166.88	171.94
-1100	10500	-1100	445.8	646.89	-2.8367	166.95	172.01
-1075	10500	-1075	445.5	647.16	-2.8513	167	172.06
-1050	10500	-1050	446.1	647.4	-2.8658	167.11	172.17
-1025	10500	-1025	444.4	648.21	-2.8804	167.1	172.16
-1000	10500	-1000	444.1	648.82	-2.8949	167.12	172.18
-975	10500	-975	435.7	652.54	-2.9095	167.05	172.11
-950	10500	-950	418.6	660.86	-2.924	166.95	172.01
-925	10500	-925	410.7	665.42	-2.9386	167.04	172.1
-900	10500	-900	409.6	666.17	-2.9531	167.07	172.13
-875	10500	-875	404.5	668.62	-2.9676	167.03	172.09
-850	10500	-850	397.8	671.69	-2.9822	166.94	172
-825	10500	-825	393.1	673.71	-2.9967	166.85	171.91
-800	10500	-800	380.1	679.71	-3.0113	166.7	171.76
-775	10500	-775	367.4	685.71	-3.0258	166.57	171.63
-750	10500	-750	362.9	687.87	-3.0404	166.54	171.6
-725	10500	-725	367.7	685.87	-3.0549	166.6	171.66
-700	10500	-700	378.3	681.13	-3.0695	166.74	171.8
-675	10500	-675	385.4	678.22	-3.084	166.82	171.88
-650	10500	-650	390.9	675.68	-3.0985	166.86	171.92
-625	10500	-625	397.1	672.79	-3.1131	166.94	172
-600	10500	-600	407	667.99	-3.1276	166.97	172.03
-575	10500	-575	416.6	663.47	-3.1422	167	172.06
-550	10500	-550	426.3	658.62	-3.1567	167.03	172.09
-525	10500	-525	433	655.51	-3.1713	167.09	172.15
-500	10500	-500	436.6	653.99	-3.1858	167.13	172.19
-475	10500	-475	437.5	653.9	-3.2004	167.14	172.2
-450	10500	-450	437.9	653.94	-3.2149	167.22	172.28
-425	10500	-425	437.4	654.17	-3.2294	167.2	172.26
-400	10500	-400	442.3	651.79	-3.244	167.21	172.27
-375	10500	-375	445.2	650.28	-3.2585	167.17	172.23
-350	10500	-350	448.4	648.66	-3.2731	167.2	172.26
-325	10500	-325	449.1	648.2	-3.2876	167.18	172.24
-300	10500	-300	449.4	648.86	-3.3022	167.2	172.26
-275	10500	-275	450.1	648.15	-3.3167	167.21	172.27
-250	10500	-250	451	647.7	-3.3313	167.21	172.27
-225	10500	-225	451.4	647.47	-3.3458	167.18	172.24
-200	10500	-200	452.8	647.07	-3.3603	167.2	172.26
-175	10500	-175	451.1	647.26	-3.3749	167.05	172.11
-150	10500	-150	448.8	648.85	-3.3894	167.15	172.21
-125	10500	-125	427.7	658.38	-3.404	166.9	171.96
-100	10500	-100	416.4	664.55	-3.4186	166.94	172
-75	10500	-75	405.9	669.66	-3.4331	166.87	171.93
-50	10500	-50	400.4	672.62	-3.4476	166.86	171.92
-25	10500	-25	403.5	671.55	-3.4621	166.94	172
0	10500	0	407.4	670	-3.4767	167.05	172.11
25	10500	25	411.1	668.18	-3.4912	167.05	172.11
50	10500	50	418.2	664.85	-3.5058	167.1	172.16
75	10500	75	425	661.45	-3.5203	167.15	172.21
100	10500	100	437.4	655.72	-3.5349	167.24	172.3
125	10500	125	448.7	650.13	-3.5494	167.24	172.3
150	10500	150	456.3	646.52	-3.564	167.29	172.35
175	10500	175	459.8	645	-3.5785	167.32	172.38
200	10500	200	461.9	644.15	-3.593	167.39	172.45
line	10900						
-1700	10900	-1700	441.2	644.05	-2.6114	167.05	172.11

-1675	10900	-1675	427.9	650.2	-2.626	166.88	171.94
-1650	10900	-1650	404.5	660.94	-2.6405	166.62	171.68
-1625	10900	-1625	391	667.35	-2.6551	166.52	171.58
-1600	10900	-1600	391.5	667.49	-2.6696	166.6	171.66
-1575	10900	-1575	396.1	665.5	-2.6841	166.64	171.7
-1550	10900	-1550	411.9	658.15	-2.6987	166.78	171.84
-1525	10900	-1525	423.5	652.37	-2.7132	166.79	171.85
-1500	10900	-1500	438	645.6	-2.7278	166.88	171.94
-1475	10900	-1475	447.4	641.07	-2.7423	166.97	172.03
-1450	10900	-1450	456.5	636.88	-2.7569	167.04	172.1
-1425	10900	-1425	460.4	635.4	-2.7714	167.1	172.16
-1400	10900	-1400	461.6	635.15	-2.7859	167.18	172.24
-1375	10900	-1375	460.6	635.48	-2.8005	167.13	172.19
-1350	10900	-1350	460.2	635.43	-2.815	167	172.06
-1325	10900	-1325	459	635.46	-2.8296	166.94	172
-1300	10900	-1300	458.8	635.74	-2.8441	166.98	172.04
-1275	10900	-1275	459.1	636.25	-2.8587	167.08	172.14
-1250	10900	-1250	446.8	642.07	-2.8732	166.96	172.02
-1225	10900	-1225	430.6	649.32	-2.8878	166.73	171.79
-1200	10900	-1200	404.5	661.69	-2.9023	166.5	171.56
-1175	10900	-1175	386.5	670.59	-2.9168	166.48	171.54
-1150	10900	-1150	380.1	674.17	-2.9314	166.49	171.55
-1125	10900	-1125	371.5	677.78	-2.9459	166.31	171.37
-1100	10900	-1100	382.7	673.06	-2.9605	166.49	171.55
-1075	10900	-1075	396	667.33	-2.975	166.7	171.76
-1050	10900	-1050	405.7	662.52	-2.9896	166.73	171.79
-1025	10900	-1025	415.7	657.87	-3.0041	166.81	171.87
-1000	10900	-1000	423.8	654.41	-3.0187	166.93	171.99
-975	10900	-975	428.3	652.56	-3.0332	167.01	172.07
-950	10900	-950	432.3	651.16	-3.0477	167.1	172.16
-925	10900	-925	433.9	650.51	-3.0623	167.14	172.2
-900	10900	-900	432.1	651.49	-3.0768	167.14	172.2
-875	10900	-875	433.4	651.07	-3.0914	167.18	172.24
-850	10900	-850	432.1	651.93	-3.1059	167.19	172.25
-825	10900	-825	435.1	650.61	-3.1205	167.23	172.29
-800	10900	-800	435.1	650.83	-3.135	167.24	172.3
-775	10900	-775	433.9	651.53	-3.1496	167.25	172.31
-750	10900	-750	433.7	651.66	-3.1641	167.23	172.29
-725	10900	-725	432.2	652.27	-3.1786	167.2	172.26
-700	10900	-700	433.8	651.65	-3.1932	167.24	172.3
-675	10900	-675	435	651.62	-3.2077	167.28	172.34
-650	10900	-650	433.7	652.07	-3.2223	167.26	172.32
-625	10900	-625	436.5	650.97	-3.2368	167.27	172.33
-600	10900	-600	437	650.27	-3.2514	167.18	172.24
-575	10900	-575	435.4	650.44	-3.2659	167.06	172.12
-550	10900	-550	435.9	650.65	-3.2805	167.11	172.17
-525	10900	-525	435.7	651.24	-3.295	167.2	172.26
-500	10900	-500	424.2	656.71	-3.3095	167.12	172.18
-475	10900	-475	419.4	659.01	-3.3241	167.07	172.13
-450	10900	-450	427.6	655.4	-3.3386	167.14	172.2
-425	10900	-425	437.6	650.71	-3.3532	167.23	172.29
-400	10900	-400	445.2	646.58	-3.3677	167.16	172.22
-375	10900	-375	451	644.05	-3.3823	167.26	172.32
-350	10900	-350	451.7	643.17	-3.3968	167.14	172.2
-325	10900	-325	451.9	642.89	-3.4113	167.08	172.14
-300	10900	-300	453.4	642.42	-3.4259	167.14	172.2
-275	10900	-275	454.9	642.16	-3.4404	167.21	172.27
-250	10900	-250	454.8	641.87	-3.455	167.14	172.2
-225	10900	-225	455.7	641.52	-3.4695	167.15	172.21
-200	10900	-200	457.3	640.95	-3.4841	167.15	172.21
-175	10900	-175	458.3	640.41	-3.4986	167.16	172.22

-150	10900	-150	461.5	639.44	-3.5132	167.23	172.29
-125	10900	-125	463.7	638.79	-3.5277	167.34	172.4
-100	10900	-100	467.8	637.38	-3.5422	167.45	172.51
-75	10900	-75	468.6	636.88	-3.5568	167.45	172.51
-50	10900	-50	468.6	636.44	-3.5713	167.35	172.41
-25	10900	-25	468.4	636.32	-3.5859	167.31	172.37
0	10900	0	468.2	637.14	-3.6004	167.4	172.46
25	10900	25	467.6	637.75	-3.615	167.48	172.54
50	10900	50	462.3	640.59	-3.6295	167.5	172.56
75	10900	75	459.7	642.01	-3.6441	167.47	172.53
100	10900	100	462.6	640.27	-3.6586	167.44	172.5
125	10900	125	464.7	639.7	-3.6731	167.5	172.56
150	10900	150	471.2	636.6	-3.6877	167.54	172.6
175	10900	175	474.7	634.86	-3.7022	167.53	172.59
200	10900	200	477.9	633.31	-3.7168	167.51	172.57
225	10900	225	477.5	633.63	-3.7313	167.53	172.59
250	10900	250	477.5	633.69	-3.7459	167.54	172.6
275	10900	275	478.8	633.23	-3.7604	167.55	172.61
300	10900	300	485.2	629.96	-3.775	167.56	172.62

APPENDIX D: DIAMOND DRILL LOGS

LEGEND

Minerals :	Gr	:Graphite
	Ch	:Chlorite
	Bi	:Biotite
	Qtz	:Quartz
	Ep	:Epidote
	Po	:Pyrrhotite
	Py	:Pyrite
	Mt	:Magnetite
Rocks :	phy	:Phyllite
	Ls	:Limestone
Alteration :	Cal	:Calcareous
	Sili	:Siliceous

TOTAL ENERGOLD CORPORATION

DRILL LOG

PROJECT: CLEAR LAKE	GROUND ELEV.: 569.0 m
HOLE No.: 93-77	BEARING: 28°
LOCATION: Line 9+50W 76+18N Area I	DIP: -50°
	TOTAL LENGTH: 249.90m
LOGGED BY: MINORU MACHIDA	HORIZONTAL PROJECT
DATE: 4 July '93	VERTICAL PROJECT
CONTRACTOR: KLUANE DRILLING	ALTERATION SCALE: absent, slight, moderate, intense
CORE SIZE: NQ	
DATE STARTED: 28 June '93	
DATE COMPLETED: 3 July '93	TOTAL SULPHIDE SCALE: < 1%, 1%—5%, 5%—25%, 25%—50%, < 50%

DIP TESTS

71.63 m	: 44.1°
125.27 m	: 46.3°
182.88 m	: 42.5°
238.35 m	: 45.0°
249.90 m	: 44.2°

DRILL CALCULATIONS/HOLE SUMMARY

PURPOSE OF HOLE: To check a favorable zone which is estimated from previous drill data, gravity, magnetic and resistivity data.

REASON TO SHUT: Hole encountered very graphitic pyrrhotite and pyrite disseminated horizone and then calcareous phyllite and Limestone

GEOLOGY SUMMARY

0 – 19.2 m	OVERBURDEN
19.2 – 33.8	CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
33.8 – 45.7	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE
45.7 – 59.6	CALCAREOUS GRAPHITE – CHLORITE – Qtz PHYLLITE
59.6 – 76.7	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE
76.7 – 82.0	CHLORITE – GRAPHITE – Qtz. PHYLLITE
82.0 – 88.7	GRAPHITE – CHLORITE – Qtz. PHYLLITE
88.7 – 98.8	CHLORITE – GRAPHITE – Qtz. PHYLLITE
98.8 – 133.6	CALCAREOUS GRAPHITE – CHLORITE – Qtz. PHYLLITE
133.6 – 136.7	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE
136.7 – 137.6	BIOTITE – CHLORITE – GRAPHITE LIMESTONE
137.6 – 148.1	CALCAREOUS CHLORITE – Qtz. PHYLLITE
148.1 – 233.8	Qtz. – GRAPHITE PHYLLITE
233.8 – 234.7	CHLORITE – GRAPHITE LIMESTONE
234.7 – 235.2	Qtz. – GRAPHITE PHYLLITE
235.2 – 235.6	CHLORITE – GRAPHITE LIMESTONE
235.6 – 238.5	CALCAREOUS GRAPHITE – Qtz. PHYLLITE
238.5 – 239.8	Qtz. – GRAPHITE PHYLLITE
239.8 – 244.2	BIOTITE – CHLORITE – GRAPHITE LIMESTONE
244.2 – 247.0	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE
247.0 – 249.9	SILICEOUS GRAPHITE – Qtz. PHYLLITE.

end of the Hole.

PAGE 1 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
0				0 - 19.2m OVERBURDEN													
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

PROJECT

HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Hg Ba (PPM)
15																	
16																	
17																	
18																	
19																	
20			80								20.0-22.0	2.00	6807	<0.2	62	7 58	0.217 1774
21 (21.3)			70														
22			80	19.2-33.8m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE.					19.2-33.8m: Traces pyrite and pyrrhotite, in places schistose								
23				Dark gray to dark greenish gray, weak-medium calcareous, laminated phyllite.) interbeds of Graphite 1mm to 1cm wide, about 30%, chlorite average 1mm wide, about 10%, calcareous siltstone 1mm up to 2cm. average 3mm wide, well developed pokerchip cleavage common. Locally <1% biotite along a fine fracture.					Qtz.-carbonate segregation and veins well developed.								
24 (24.4)			80						○ 20.6m: Qtz. Seg. Vein, 3cm wide top contact 70°, bottom contact 80°								
25			70						○ 20.8m: Qtz. Seg. Vein, 5cm wide top contact 60°, bottom 90°.								
26			65						○ 21.5m: Qtz. Seg. Vein, 2cm wide top & bottom 80°.								
27 (27.1)			70						○ 21.95m: Qtz. Seg. Vein, 2cm wide, top & bottom 80°.								
28			60						○ 22.50m: Qtz. Seg. Vein, 2.5cm wide top & bottom 80°								
29 (29.3)			65	29.3m downsection calcareous siltstone increasing. Very calcareous.					○ 22.80m: Qtz. Seg. Vein, 3cm wide top & bottom contact 75°								
30			60														

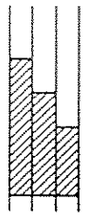
PAGE 3 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
30				30.6 m: downsection graphite increasing to 40%.					○ 23.10m: Qtz. Seg. Vein, 2.5cm wide top contact 65°, bottom contact 80°		30.0-32.0	2.00	6808	<0.2	57	5	73	0.096	1962
31			70						○ 23.80m: Qtz. Seg. Vein 5cm wide, top & bottom contact 70°										
32			80						○ 24.15m: Qtz. seg. Vein, 15cm wide top & bottom contact 80°										
33			65						○ 25.20m: Qtz. seg. Vein, 7cm wide, top contact 80°, bottom contact 60°										
34			60	33.8-45.7 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE					○ 26.70m: Qtz. seg. Vein, 3cm wide top & bottom contact 70°										
35			70						○ 27.30m: Qtz. Seg Vein, 3cm wide top contact 80°, bottom contact 70°										
36				Gray to dark greenish grey, medium - strong calcareous, white and black stripe laminated phyllite					○ 27.90m: Qtz. Seg. Vein, 1.5cm wide top contact 80°, bottom contact 60°.										
37			70	Graphite 1mm to 7mm wide, about 20 to 30%, chlorite < 1mm to 5mm wide, about 10 to 20%.					○ 29.0-29.20m: Qtz. seg. Vein, top? bottom contact 70°.										
38			60	36.6-40.3m: well developed pokerchip cleavage.					○ 30.2-31.2m: Qtz. seg. Veins well developed up to 2cm wide, average top & bottom 70°.										
39			70	35.9-36.3m: Qtz. seg. Veins developed.					○ 33.20-33.40m: Qtz. Seg. Vein										
40				40.5m: Qtz. seg Vein 7cm wide, bottom contact 50°					top contact 80°, bottom contact 70°.		40.0-42.0	2.00	6809	<0.2	71	6	41	0.013	1789
41			70						○ 33.60-33.80m: Qtz. seg. Vein top & bottom contact 80°.										
42			70						41.0-41.10m: 60% Po in Qtz Vein 5mm wide.										
43			70																
44																			
45			75																

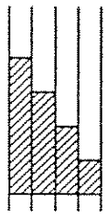
TOTAL ENERGOLD CORPORATION

DRILL LOG

PROJECT: CLEAR LAKE	GROUND ELEV.: 569.0 m
HOLE No.: 93-77	BEARING: 28°
LOCATION: Line 9+50W 46+18N Area I	DIP: -50°
	TOTAL LENGTH: 249.90 m
LOGGED BY: MINORU MACHIDA	HORIZONTAL PROJECT
DATE: 4 July '93	VERTICAL PROJECT
CONTRACTOR: KLUANE DRILLING	ALTERATION SCALE
CORE SIZE: NQ	
DATE STARTED: 28 June '93	
DATE COMPLETED: 3 July '93	TOTAL SULPHIDE SCALE



absent
slight
moderate
intense



< 1%
1%—5%
5%—25%
25%—50%
< 50%

DIP TESTS

71.63 m	: 44.1°
125.27 m	: 46.3°
182.88 m	: 42.5°
238.35 m	: 45.0°
249.90 m	: 44.2°

DRILL CALCULATIONS/HOLE SUMMARY

PURPOSE OF HOLE: To check a favorable zone which is estimated from previous drill data, gravity, magnetic and resistivity data.

REASON TO SHUT: Hole encountered very graphitic pyrrhotite and pyrite disseminated horizone and then calcareous phyllite and Limestone

GEOLOGY SUMMARY

0 - 19.2 m	OVERBURDEN
19.2 - 33.8	CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
33.8 - 45.7	CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
45.7 - 59.6	CALCAREOUS GRAPHITE - CHLORITE - Qtz PHYLLITE
59.6 - 76.7	CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
76.7 - 82.0	CHLORITE - GRAPHITE - Qtz. PHYLLITE
82.0 - 88.7	GRAPHITE - CHLORITE - Qtz. PHYLLITE
88.7 - 98.8	CHLORITE - GRAPHITE - Qtz. PHYLLITE
98.8 - 133.6	CALCAREOUS GRAPHITE - CHLORITE - Qtz. PHYLLITE
133.6 - 136.7	CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
136.7 - 137.6	BIOTITE - CHLORITE - GRAPHITE LIMESTONE
137.6 - 148.1	CALCAREOUS CHLORITE - Qtz. PHYLLITE
148.1 - 233.8	Qtz. - GRAPHITE PHYLLITE
233.8 - 234.7	CHLORITE - GRAPHITE LIMESTONE
234.7 - 235.2	Qtz. - GRAPHITE PHYLLITE
235.2 - 235.6	CHLORITE - GRAPHITE LIMESTONE
235.6 - 238.5	CALCAREOUS GRAPHITE - Qtz. PHYLLITE
238.5 - 239.8	Qtz. - GRAPHITE PHYLLITE
239.8 - 244.2	BIOTITE - CHLORITE - GRAPHITE LIMESTONE
244.2 - 247.0	CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
247.0 - 249.9	SILICEOUS GRAPHITE - Qtz. PHYLLITE.

end of the Hole.

PAGE 1 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
0				0 - 19.2m OVERBURDEN													
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

PROJECT

HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
15																	
16																	
17																	
18																	
19																	
			80											Ag	Cu	Pb Zn	Hg Ba (PPM)
20											20.0-22.0	2.00	6807	<0.2	62	7 58	0.217 1774
21 (21.3)			70														
22			80	19.2-33.8m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE.					19.2-33.8m: Traces pyrite and pyrrhotite, in places schistose								
23				Dark gray to dark greenish gray, weak - medium calcareous, laminated phyllite.) interbeds / Graphite 1mm to 1cm wide, about 30%, chlorite average 1mm wide, about 10%, calcareous siltstone 1mm up to 2cm. average 3mm wide, well developed pokerchip cleavage common. Locally <1% biotite along a fine fracture.					Qtz. - carbonate segregation and veins well developed.								
24 (24.4)			80						∘ 20.6m: Qtz. seg. Vein, 3cm wide top contact 70°, bottom contact 80°								
25			70						∘ 20.8m: Qtz. seg Vein, 5cm wide top contact 60°, bottom 90°.								
26			65						∘ 21.5m: Qtz. Seg. Vein, 2cm wide. top & bottom 80°.								
27 (27.4)			70						∘ 21.95m: Qtz. Seg. Vein, 2cm wide, top & bottom 80°.								
28			60						∘ 22.50m: Qtz. Seg. Vein, 2.5cm wide top & bottom 80°								
29 (29.3)			65	29.3m downsection calcareous siltstone increasing. Very calcareous.					∘ 22.80m: Qtz. Seg. Vein, 3cm wide top & bottom contact 75°								
30			60														

PAGE 3 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
30				30.6 m: downsection graphite increasing to 40%.					○ 23.10m: Qtz. Seg. Vein, 2.5cm wide top contact 65°, bottom contact 80°		30.0-32.0	2.00	6808	<0.2	57	5	73	0.096	1962
31			70						○ 23.80m: Qtz. Seg. Vein 5cm wide, top & bottom contact 70°										
32			80						○ 24.15m: Qtz. seg. Vein, 15cm wide top & bottom contact 80°										
33			65						○ 25.20m: Qtz. seg. Vein, 7cm wide, top contact 80°, bottom contact 60°										
34			60	33.8-45.7 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE					○ 26.70m: Qtz. seg. Vein, 3cm wide top & bottom contact 70°										
35			70						○ 27.30m: Qtz. Seg Vein, 3cm wide top contact 80°, bottom contact 70°										
36				Gray to dark greenish grey, medium - strong calcareous, white and black stripe laminated phyllite					○ 27.90m: Qtz. Seg. Vein, 1.5cm wide top contact 80°, bottom contact 60°.										
37			70	Graphite 1mm to 7mm wide, about 20 to 30%, chlorite < 1mm to 5mm wide, about 10 to 20%.					○ 29.0-29.20 m: Qtz. seg. Vein, top ? Bottom contact 70°.										
38			60	36.6-40.3m: well developed pokerchip cleavage.					○ 30.2-31.2m: Qtz. seg. Veins well developed up to 2cm wide, average top & bottom 70°.										
39			70	38.9-36.3m: Qtz. seg. Veins developed.					○ 33.20-33.40m: Qtz. Seg. Vein										
40				40.5m: Qtz. seg Vein 7cm wide, bottom contact 50°					top contact 80°, bottom contact 70°.		40.0-42.0	2.00	6809	<0.2	71	6	41	0.013	1789
41			70						○ 33.60-33.80m: Qtz. seg. Vein top & bottom contact 80°.										
42			70						41.0-41.10m: 60% Po in Qtz. Vein 5mm wide.										
43			70																
44																			
45			75																

PAGE 4 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
45				45.7-59.6m CALCAREOUS GRAPHITE – CHLORITE – Qtz. PHYLLITE					45.7-59.6m: <1% pyrrhotite and pyrite dissemination								
46			80														
47																	
(47.5)			70	Gray to light gray, medium calcareous laminated phyllite													
48				Chlorite > graphite, about total 10 to 20%													
			80	<1mm up to 5mm interbeds, and also													
49			75	Qtz + calcareous siltstone interbeds about													
50				80 to 90%										Ag	Cu	Pb Zn	Hg Ba (PPM)
(50.4)			70								50.0-52.0	2.00	6810	<0.2	54	8 65	0.150 1366
51																	
52			65														
53																	
(53.6)			70														
54																	
55																	
56																	
(56.7)			80														
57																	
59			80														
59																	
(59.7)			80														
60																	

PROJECT

HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
60			50	59.6-76.7m CALCAREOUS CHLORITE-GRAPHITE -Qtz PHYLLITE					59.6-76.7m: <1% Pyrrhotite + Pyrite dissemination		60.0-62.0	2.00	6811	0.2 58	6 42	0.187	1338
61																	
62 (61.9)			70	Dark gray, weak calcareous, stripe laminated phyllite.					59.7-67.2m: weak-medium core broken graphite common on fracture & foliation planes								
63				Graphite 1mm up to 1cm wide, average 2mm wide, interbeds about 20 to 30%, chlorite <1mm up to 7mm, average 1-2mm wide, interbeds about 10%.													
64																	
65 (65.1)																	
66			80	67.7m: Qtz. seg. Vein, 2.5cm wide, top & bottom contact 70°.													
67 (67.1)			70	68.0m: Qtz Seg Vein, 3cm wide, top contact 80°, bottom contact 70°													
68			80	69.2m: Qtz seg Vein, 3cm wide, top contact 65°, bottom contact 80°													
69			80	73.9m: Qtz Seg Vein, 2cm wide, top & bottom contact 80°													
70 (70.0)			80	74.7m: Qtz seg Vein, 2cm wide, top & bottom contact 80°													
71			75	76.05m: Qtz. seg. Vein 5cm wide, top contact 80°, bottom contact 45°							70.0-72.0	2.00	6812	0.2 55	6 29	0.020	1238
72			60	76.3m: Qtz. seg. Vein, 5cm wide, top & bottom 70°					73.2-76.0m: weak-medium core broken (74.6-75.0m: strongly sheared)								
73 (73.2)			70														
74 (74.0)			60														
75																	

 PROJECT HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb	Zn	Hg	Ba (PPM)
75 (75.3)			70																
76 (76.7)																			
77				76.7-82.0m CHLORITE-GRAPHITE-Qtz. PHYLLITE					76.7-82.0m: <1% Pyrrhotite, pyrite dissemination										
78			80																
79 (78.9)				Light gray to gray, fng. massive to laminated phyllite. weak calcareous Graphite + chlorite < Total 15%, interbeds <1mm up to 4mm, average 1mm.															
80											80.0-82.0	2.00	6813	0.2	54	6	53	0.122	1537
(80.5)																			
81			80																
82			60	82.0-88.7m GRAPHITE-CHLORITE-Qtz. PHYLLITE					82.0-88.7m: Traces Pyrite and Pyrrhotite dissemination										
83 (83.3)			60	Dark greenish gray, laminated phyllite non-weak calcareous Chlorite interbeds about 30%, 1mm to 5mm wide, graphite interbeds about 5 to 10%, 1mm up to 1cm wide.					84.7m: Qtz. seg. Vein, 1.5cm wide top & bottom contact 50°										
84									87.7m: Qtz. seg. Vein, 8cm wide top contact 60°, bottom contat 80°										
85			80						88.2m: Qtz. seg. Vein, 10cm wide top contact 40°, bottom contact 90°										
86 (86.3)			70						88.6m: Qtz. seg. Vein, 4cm wide top contact 60°, bottom contact 80°										
87																			
88			80																
89 (89.3)																			
90			80																

PROJECT

HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS (PPM) Ba
90				88.7-98.8m CHLORITE-GRAPHITE-Qtz. PHYLLITE					88.7-98.8m: Traces pyrrhotite and pyrite dissemination.		90.0-92.0	2.00	6814	<0.2	48	5	91	0.043	2306
91	(91.2)		70	Dark gray to black, white and black stripe laminated phyllite. non-weak calcareous Graphite interbeds, 1mm up to 1.5cm wide, about 30%, chlorite interbeds, <1mm to 1cm wide, about 10%. Qtz.-carbonate seg. Veins well developed in the section.															
92																			
93																			
94	(93.9)		80																
95				∘89.0m: Qtz. seg Vein, 10cm wide, top & bottom 90°															
				∘89.5m: Qtz seg Vein, 6cm wide, top contact 60° bottom contact 60°															
96	(96.0)		70	∘90.6m: Qtz. seg. Vein, 7cm wide.															
97				∘91.0-98.8m: Qtz seg Vein well developed 20%, 1cm up to 15cm wide, average 3cm wide, top contact average 70°, bottom average 70°-80°															
98	(98.1)																		
99			60																
				98.8-133.6m CALCAREOUS GRAPHITE - CHLORITE - Qtz. PHYLLITE.					98.8-133.6m: Traces pyrrhotite and pyrite dissemination.										
100																			
1	(100.7)		50								100.0-102.0	2.00	6815	<0.2	62	6	43	0.024	1364
				Gray to greenish gray, stripe laminated, weak to strong calcareous phyllite. Chlorite > graphite interbeds about total 10% to 40%, average 30%, 1mm up to 2cm wide, average 3mm wide stripe.															
2																			
3	(103.0)		60						99.7-103.5m: weak core broken.										
4	(104.4)			∘102.5m: Qtz. seg. Vein, 2.5cm wide, top contact 60°, bottom 80°															
105			60																

PROJECT

HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
105			70°	◦103.7m : Qtz. sog Vein, 3cm wide, top?, bottom contact 70°													
				◦104.9m : Cal-qtz Vein, 1.5cm wide top & bottom contact 30°													
(106.7)				◦105.2m : Qtz-cal Vein, 2cm wide, top & bottom 50°													
			60°	◦107.0m : Qtz-cal seg. Vein, 2cm wide top & bottom 45°													
				◦107.2m : Qtz seg Vein, 1.5cm wide, top & bottom contact 60°													
(109.7)			70°											Ag	Cu	Pb Zn	Hg	Ba
110																	
			70°	◦107.7m : Qtz Vein, 4cm wide, top & bottom 70°							110.0–112.0	2.00	6816	0.2	54	4.34	0.097	1362
				◦108.8m : Qtz Vein, 3cm wide, top contact 60°, bottom contact 80°													
			60°	◦111.2m – 120.7m : Qtz-cal Vein, about 20% 5mm up to 8cm wide													
(112.9)																	
			60°	◦124.6–124.8m : Cal-qtz vein, top contact 80° bottom contact 60°													
115				◦125.7m : Cal-qtz Vein, 2cm wide top & bottom contact 80°													
(116.0)			70°	◦126.4–126.6m : Cal-qtz Vein, top contact 80°, bottom contact 60°.													
			60°	◦127.0m : Cal-qtz Vein, 1cm wide, top contact 80°, bottom ?													
			80°														
(119.2)			70°														
120																	

PROJECT

HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
120			80								120.°-122.0	2.00	6817	<0.2 51	4 53	0.035	1459
121									121.8-122.2m : moderately-strongly sheared								
122 (122.2)			80														
123																	
124																	
125																	
(125.3)			80	◦ 127.5-128.7m : Cal-Qtz Vein, 1cm to 5cm wide, about 20 to 25%. top contact 40-20°; bottom 80°.													
126																	
(126.7)			70														
127																	
128 (128.0)			70														
129			85														
130			80								130.°-132.0	2.00	6818	<0.2 68	6 49	0.059	1250
131 (131.0)			70	◦ 132.6m : Cal Vein. 3cm wide, top & bottom contact 80°.													
132																	
133			75	133.6-136.7m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE.													
134 (134.1)			80	Black to dark gray, white and black stripe laminated, very calcareous Phyllite.													
135																	

PROJECT

HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Hg / Ba (PPM)
135			80	Graphite, <1mm up to 1cm wide, interbeds about 30 to 40%, chlorite, 1mm to 3mm wide, about 5%, interbeds.					133.6 - 136.7m: Section contain 10% cal - Qtz Vein, 1cm to 2cm wide, top & bottom contact 50 - 80°.								
136																	
137 (137.2)			80	136.7 - 137.6m BIOTITE - CHLORITE - GRAPHITE LIMESTONE													
138				White to light gray, massive to stripe laminated limestone. Graphite > chlorite > biotite interbeds total 3 to 10%.													
139			80														
140																	
(140.2)			80	137.6 - 148.1m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE.					140.2 - 140.5m: strongly sheared with black gouge + Qtz seg.		140.0 - 142.0	2.00	6819	<0.2	69	2 41	0.119 / 1065
141																	
142			85	Dark gray to light gray, stripe laminated, very calcareous phyllite.													
143 (143.3)			50	Graphite > chlorite, 1mm up to 1cm wide, interbeds total average 30 to 40%.					143.0 - 143.6m: moderately - strongly sheared with black gouge + Qtz. seg.								
144				Section contain cal - Qtz Vein, 1cm to 10cm wide, about 20%, top & bottom contact about 45 to 80°.													
145			70														
146 (146.1)			60	146.1 - 148.6m: strongly sheared with black gouge													
147 (147.5)																	
148 (148.1)									148.1 - 233.8m: Pyrrhotite and Pyrite dissemination. Rare very fine grained sphalerite recognized under a hand lens.								
149																	
150			80														

 PROJECT HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
150				148.1-233.8m Qtz.-GRAPHITE PHYLLITE					148.1-155.0m: pyrrhotite+Pyrite=5%		150.0-152.0	2.00	6820	<0.2 43	13 159	0.092	2200
51			80	Dark gray to black, white and black stripe laminated phyllite.					po:Py = 8:2								
52									Very fine po, py places in graphitic laminae.								
153.0			80														
53				Graphite, 1mm up to 30cm, average 3 to 5mm wide, interbeds 20% up to 90%, average 60%.													
54				Locally chlorite interbeds about 20%, <1mm to 2mm wide laminae.													
155																	
155.7				Section contain Qtz.-cal. veg Vein, 1cm up to 30cm, 5 to 6%, top or bottom contact 40 to 80°.					155.0-157.8m: Pyrrhotite+Pyrite = 1%								
56																	
157.2																	
57																	
157.7																	
58				160-163.2m: moderatly to strongly sheared													
159.7			50														
59																	
160																	
160.3									157.8-169.6m: Pyrrhotite+Pyrite = 5%.		160.0-162.0	2.00	6821	<0.2 47	11 182	0.532	2686
61			80						po:Py = 8:1 to 9:1								
161.7																	
62									Very fine po, Py grain place in graphitic laminae.								
63			70														
163.1																	
64																	
164.7																	
165			70														

PAGE 12 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Hg Ba (PPM)
165			70						Po + Py = 5%								
169			70	169.1 – 170.6m : moderately to strongly sheared													
170			80						169.3 – 196.3m : Pyrrhotite + Pyrite = 7% Po : Py = 9 : 1		170.0-172.0	2.00	6822	40.2	46	15 265	0.234 2905
			80						Pyrrhotite and pyrite occured recrystallized and coarser in qtz rich laminae and qtz veins.								
			70														
			80	174.3 – 175.3m : moderately to strongly core broken													
175			70														
			60						Po + Py = 7%								
			80														
			60														
180			50														

PAGE 13 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
180			50								180.0-182.00	2.00	6823	<0.2	41	13	160	0.100	2403
81									181.9-186.2m: moderately to strongly sheared, core broken with black gouge.										
82																			
83			70																
84				182.4-186.3m: Graphite increasing to 20%															
185																			
86			60						Po + Py = 7%										
87																			
88			50																
			70																
190			50								190.0-192.00	2.00	6824	<0.2	55	13	229	0.026	2904
91			50																
92			70																
93			70																
94			60																
195																			

PAGE 14 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
195			60						Po+Py = 7%								
96				192.8 - 198.4m : moderately - strongly sheared with black gouge.													
(196.3)																	
97			60						196.3 - 207.5m : Pyrrhotite + Pyrite = 5%. Po : Py = 7 : 3								
(197.2)																	
98																	
99			60														
200														Ag	Cu	Pb	Zn	Hg	Ba (PPM)
(200.7)			80								200.0-202.0	2.00	6825	<0.2	42	12	389	0.509	>572
(201.3)			40	200.8 - 204.5m : strongly sheared with black gouge.													
2																	
3									Po+Py = 5%								
(203.8)			40														
4																	
(204.8)			60														
205				204.8 - 207.5m : moderately siliceous													
6			60														
7																	
(207)			50						207.5 - 209.3m : Po+Py < 1%								
8				207.5 - 209.3m : Section getting finer laminated average 1mm wide, chlorite interbeds about 20%.													
			50														
9																	
210			70														

PAGE 15 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Ni	COMPOSITE ASSAYS Au (FAH)
210			60						209.3-213.0m: Pyrrhotite+Pyrite = 7% locally 10% Po:Py = 7:3		210.0-212.00	2.00	6826	<0.2 75	11 188	0.079	>113
11			60														
12																	
13			60														
14									213.0-218.2m: Pyrrhotite+Pyrite = 7% Po:Py = 8:2								
215			60														
16			80	215.8-218.0m: moderately core broken													
17			45														
18			70														
19			80														
220																	
21			80	220.0-220.7m: strongly sheared with black gouge					218.2-227.0m: Pyrrhotite+Pyrite = 10% Po:Py = 6:4 to 5:5		220.7-222.7	2.00	6827	<0.2 77	16 198	0.026	1500
22			50						221.2m: sphalerite grain 2mm diam.								
23			50	222.7-223.6m: strongly sheared with graphitic slickensides on fractures													
24																	
225																	

PAGE 16 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb	Zn	Hg	Ba (ppm)
225																			
26			60						Po+Py = 10%										
27				227.2 – 233.8m : moderately – strongly															
28				sheared with black gouge and graphitic					227.0 – 233.8m : Pyrrhotite + Pyrite = 2 to 5%										
29			60	slickensides on fractures.					Po : Py = 8 : 2.										
230			45								230.0 – 232.0	2.00	6828	0.4	112	30	625	0.271	1573
31			60																
32									Po+Py = 3 to 5%										
33			70	233.8 – 234.7m CHLORITE – GRAPHITE LIMSTONE															
34				Grey and white, fine stripe laminated limestone															
									1% Po dissemination										
235			60	234.7 – 238.2m Qtz. – GRAPHITE PHYLLITE					2 to 3% Po dissemination										
									1% Po dissemination										
36			60	238.2 – 238.6m CHLORITE – GRAPHITE LIMESTONE															
37			60	238.6 – 238.5m CALCAREOUS GRAPHITE – Qtz. PHYLLITE					<1% to 1% Po dissemination										
38				Light grey, laminated, medium calcareous															
39				phyllite															
									1% Po+Py dissemination										
			60	238.5 – 239.8m Qtz. – GRAPHITE PHYLLITE															
240			50	Dark grey to black phyllite															
				weak siliceous															

PAGE 17 OF 17 | PROJECT | HOLE No. 93-77

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
240				239.8-244.2m BIOTITE-CHLORITE-GRAPHITE LIMESTONE					239.8-244.2m: 1 to 2% pyrrhotite disseminate along graphitic laminae.		240.0-242.0	2.00	6829	0.7	103	137	1144	0.234	1620
41 (240.4)			60	White to light gray, massive to stripe laminated limestone															
42			50																
43				242.8-243.4m: Qtz-Graphite phyllite interbeds.															
44 (244.2)			60	244.2-247.0m CALCAREOUS CHLORITE-GRAPHITE - Qtz. PHYLLITE.					244.2-247.0m: < 1% Po dissemination along graphitic laminae.										
245			45	Light gray to gray, very calcareous, laminated phyllite. Graphite > chlorite interbeds total 20 to 30%, 1mm up to 1cm, average 2mm wide.															
46			50																
47 (247.0)			50																
48			40	247.0-249.9m SILICEOUS GRAPHITE-Qtz. PHYLLITE. Dark gray to black, weak siliceous, laminated phyllite. Graphite interbeds 2mm up to 5cm, average 2 to 3 mm wide. 249.2m: downsection graphite increasing to 70%.					247.0-249.9m: 1 to 2% Pyrrhotite dissemination.										
49			60																
249.9			EOH																

TOTAL ENERGOLD CORPORATION

DRILL LOG

PROJECT CLEAR LAKE	GROUND ELEV.
HOLE No. DDH 93-78	BEARING 28°
LOCATION AREA 1 Line 100+50 W 37+40N	DIP -50° TOTAL LENGTH 224.94 m
LOGGED BY ATSUSHI GOMI	HORIZONTAL PROJECT
DATE July 10, 1993	VERTICAL PROJECT
CONTRACTOR KLUANE DRILLING	**ALTERATION SCALE**
CORE SIZE NQ	absent slight moderate intense
DATE STARTED July 5, 1993	
DATE COMPLETED July 10, 1993	**TOTAL SULPHIDE SCALE**
DIP TESTS (Acid test) 62.79m -46.8° 120.70 -46.0 209.09 -47.6	< 1% 1%—5% 5%—25% 25%—50% < 50%

DRILL CALCULATIONS/HOLE SUMMARY

PURPOSE OF HOLE — To investigate anomalous area of magnetic high and residual gravity high.

REASON TO SHUT — Encountered meta-basalt which caused magnetic high and gravity high.

GEOLOGY SUMMARY

0 - 10.45	OVER BURDEN
10.45 - 56.40	PYRITIC CHLORITE-GRAPHITE PHYLLITIC LIMESTONE
56.40 - 61.93	CALCAREOUS CHLORITE PHYLLITE
61.93 - 69.80	GRAPHITE-QUARTZ PHYLLITIC LIMESTONE
69.80 - 81.48	CALCAREOUS GRAPHITE-QUARTZ PHYLLITE
81.48 - 81.73	CALCAREOUS CHLORITE PHYLLITE
81.73 - 84.12	CALCAREOUS GRAPHITE-QUARTZ PHYLLITE
84.12 - 90.22	CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE
90.22 - 94.65	CALCAREOUS CHLORITE PHYLLITE
94.65 - 98.85	CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE
98.85 - 101.65	CALCAREOUS CHLORITE PHYLLITE
101.65 - 117.04	GRAPHITE PHYLLITE FAULT GAUGE
117.04 - 224.94	MAGNETITE-EPIDOTE-CALCITE-CHLORITE META-BASALT
	end of the hole

PAGE 1 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
0				0 - 10.40 OVER BURDEN no core recovered.													
5																	
10																	
(10.67)			10.45	10.40 - 10.45 GRAVEL 2-7cm subrounded quartz porphyrite, siliceous felsite													
			45	10.45 - 10.67 Quartz-calcite vein, milky, massive. minor chlorite.					minor chalcopyrite specs with quartz-calcite vein.								
(11.89)			75	10.45 - 56.40 PYRITIC CHLORITE-GRAPHITE-PHYLLITIC LIMESTONE pale blueish gray to dark gray, fine to medium-grained. finely laminated (2-6mm lamina of argillitic and calcareous silty layers), platy jointed phyllite. calcite veins, lenses, eye-like patches are abundant. fine-grained pyrite dissem.					tiny pyrite grains in phyllite. less than 0.5% volume.							
(13.41)			45	13.41 - 14.63 Quart vein. milky. massive. minor chlorite and fragments of graphite-quartz phyllite.													
(14.63)																	
15																	

PAGE 2 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C (Gr.)	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
15				14.68 – 20.12 Quartz vein, milky white, minor chlorite.													
				PYRITIC CHLORITE-GRAPHITE-PHYLLITIC LIMESTONE (continued)													
				fine-grained pyrite dissemination and thin layers.													
(17.07)																	
20																	
(20.12)				micro-folding.													
				crushed and slightly sheared.													
			28 / 80														
(21.64)			80	21.5 – 26.0 phyllite & more psamitic, silty band and													
				lenses are interfingered or interbedded with more graphitic													
				argillitic layers.													
(23.16)			~ ~	23.2 0.5mm thin pyrite layers.													
			40														
(24.39)																	
25				25.1 – 25.4 sheared and crushed.													
(26.21)			65														
(27.74)				28.8 0.2 – 0.5mm thin pyrite layers.													
			70	29.4 6cm sheared, black gauge,													
(29.87)			70														
30																	

PAGE 3 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
30				PYRITC CHLORITE - GRAPHITE - PHYLLITIC LIMESTONE (continued)													
				calcite lenses and patches are interbedden in phyllite.													
(30.78)																	
				32.0 – 33.7 sheared and crushed													
(32.31)																	
(32.91)																	
35			75														
(35.36)				35.5 – 35.9 calcite - quartz vein. cut angle 20°.													
			25	micro - foldings.													
(36.88)			80	38.3 – 38.6 calcite - quartz vein.													
				38.6 – 39.1 sheared.													
(39.01)				39.5 – 40.0 irregular calcite - quartz vein.													
				40.1 – 40.84 fault gauge. black subangular phyllite													
40				breccias and clay. 2 – 5mm subangular qtz. calcite													
				breccias in black clay matrix.													
(40.84)			25														
			42.0	42.1 – 43.4 fault gauge. sheared, brecciated with													
				black subangular phyllite breccias and clay. calcite -													
				quartz vein and breccias in matrix.													
(42.98)				42.0 – 47.0 graphite rich, massive.													
(44.81)																	
45																	

PAGE 4 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
45	100			PYRITIC CHLORITE - GRAPHITE - PHYLLITIC LIMESTONE (continued)													
(45.72)	100		25														
(46.34)	100			micro-foldings.													
(48.46)	100		70	micro-foldings.													
50				50.7 – 51.3 sheared and crushed.													
(50.29)	100		20														
(51.21)	100			51.6 – 52.9 Sheared and crushed.													
(51.82)	100																
(53.34)	100			micro-foldings.													
(54.86)			80	53.8 – 54.0 sheared and crushed.													
55			60	54.4 – 55.8 sheared and crushed.													
(56.34)			56.40	56.40 – 61.93 CALCAREOUS CHLORITE PHYLLITE													
(57.61)				pale greenish gray, medium to coarse-grained, massive to slightly bedded, basic tuffaceous phyllite, very calcareous, minor pyrite.													
(58.52)				57.3 – 57.6 sheared and crushed.													
60																	

PROJECT CLEAR LAKE

HOLE No. 93-78

DEPTH METERS (60.05)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
60 (60.66)				CALCAREOUS CHLORITE PHYLLITE (Continued)													
			55	61.2 – 61.5 interbedded graphite-quartz-calcite phyllite layer.													
			61.93	61-93 – 69.80 GRAPHITE- QUARTZ-PHYLLITIC LIMESTONE													
(62.79)			60	gray to dark gray, fine to medium-grained, finely banded and laminated (1 – 5 mm lamina of calcareous silty layers and black graphitic argillite layers). numerous hair veinlets of calcite.													
(64.01)			50	slightly pyritic. crushed and sheared. micro-folding structure.													
65																	
(65.23)			65														
			60	66.0 – 67.5 calcareous silt lenses and patches abundon.													
			50	67.5 – 67.7 slightly sheared													
(67.67)																	
(69.80)			65 63.80	69.80 – 81.48 CALCAREOUS GRAPHITE- QUARTZ PHYLLITE													
70			50	black, fine-grained, finely banded and laminated. micro-folding structure. contains abundan graphite. sheared and crushed.													
(71.32)				69.8 – 71.5 sheared and crushed.													
(72.54)			50	73.8 micro-folding													
				74.0 0.5 mm pyrite layer.													
(74.68)			55	74.2 – 75.1 sheared and crushed.													
75																	

PAGE 6 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
75				CALCAREOUS GRAPHITE-QUARTZ PHYLLITE (continued)													
				75.4 – 87.2 sheared, crushed, gauged													
(76.81)				77.3 – 77.7 very graphitic, sheared.													
(78.03)				78.4 2cm calcite pyrite vein. angle 80°.													
80				78.20 – 81.48 calcite-quartz veins, crushed.													
(81.03)			81.48	81.48 – 81.73 CALCAREOUS CHLORITE PHYLLITE													
			81.73	pale greenish gray, medium-grained, very calcareous.													
				81.73 – 84.12 CALCAREOUS GRAPHITE-QUARTZ PHYLLITE													
(82.66)				sheared, crushed and gauged. black phyllite.													
				82.8 micro-folding.													
(84.12)			84.12	84.12 – 90.22 CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE													
85				pale greenish gray to dark gray, fine-grained, well-banded													
(85.34)				and laminated (2 – 5mm chlorite rich or graphite rich argillitic													
				layers and calcareous silty layers). calcareous. sheared and													
				gauged.													
				84.2 – 85.3 fault gauge. 0.5 – 3cm subangular quartz-													
(87.17)			30	calcite breccias in gauged pale greenish chlorite phyllite.													
(88.70)			30														
				89.3 – 90.2 fault gauge.													
90																	

PAGE 7 OF 15 | PROJECT CLEAR LAKE . | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
(90.22)																	
90				90.22 – 94.65 CALCAREOUS CHLORITE PHYLLITE													
				pale greenish yellow gray, fine-grained, sheared, platy													
(91.14)				phyllite.													
				91.0 calcite-pyrite vein. 0.8cm thickness. irregular.													
(93.29)			~2														
(94.49)			94.65														
95				94.65 – 98.85 CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE													
				pale greenish gray to dark gray, fine-grained, well-banded													
				phyllite.													
(96.32)				94.43 – 94.70 calcite-quartz vein. minor pyrite specs.													
				95.15 95.23 calcite-quartz vein. minor pyrite.													
(97.6)			98.85	98.85 – 101.65 CALCAREOUS CHLORITE PHYLLITE													
				pale greenish yellow gray, fine-grained, sheared, platy													
(99.67)				phyllite.													
100																	
			~25														
(101.19)																	
(101.59)			(101.65)	101.65 – 117.04 GRAPHITE PHYLLITE FAULT GAUGE													
				black to dark gray, medium to coarse-grained, sheared clay.													
(102.57)				0.2 – 3cm subangular to subrounded quartz-calcite breccias													
				in clay matrix.													
				101.9-102.1 quartz-calcite vein.													
(104.24)																	
105																	

PROJECT CLEAR LAKE

HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION Ca. B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
105				GRAPHITE PHYLLITE FAULT GAUGE (continued)													
(105.94)				black, sheared and brecciated graphitic phyllite with													
				0.5 – 3cm subangular breccias of quartz-calcite in matrix.													
(106.38)				minor chlorite phyllite breccias.													
			45														
(107.59)																	
				108.81 – 108.90 quartz vein with minor pyrite.													
(108.84)				109.06 – 109.25 thin interbed of chlorite phyllite.													
			80	sheared and crushed.													
110																	
(111.56)				111.56 – 111.70 brecciated quartz-calcite vein. minor pyrite.													
(113.08)																	
				very graphitic.													
(114.91)																	
115				115.20 – 117.04 Graphite phyllite with 1 – 3cm thickness													
			115.20 10	pale green chlorite phyllite interlayers. all sequences													
				are sheared.													
				117.04 – 224.94 MAGNETITE-EPIDOTE-CALCITE-CHLORITE META-BASALT					fine-grained pyrite-pyrrhotite disseminated.								
(117.64)			117.04	dark green, fine to medium-grained, slightly banded to massive													
			25	calcareous basic meta-volcanics. Serpentinize, talcized(?).													
				fine-grained magnetite, pyrite, pyrrhotite contained.													
(118.37)			30	partly rich in granule epidote.													
				basic tuff or lava origine?													
120			20														

PAGE 9 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION Ca. B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
120		×	30	MAGNETITE-EPIDOTE-CALCITE-CHLORITE META-BASALT		///											
				(continued)		///											
(120.78)		×															
		×		dark green, medium-grained, slightly banded. calcite													
		×	20	hair veinlets and gash veins.													
		×	20														
(123.75)		×	60														
			40														
125		×															
		×	40														
		×		calcite veinlets, 1st per 1st, hair veins are abundant.		///											
		×				///											
(126.80)		×	55			///											
		×				///											
(128.32)		×	58			///											
		×	50			—											
130		×															
		×	30														
		×		130.5 – 135.3 epidotized, granular epidote rich with				///									
		×		calcite.				///									
(131.98)		×						///									
		×	45					///									
(133.20)		×						///									
		×						///									
(134.42)		×	60														
135		×															

PAGE 10 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
135			B53	MAGNETITE - EPIDOTE-CALCITE-CHLORITE META-BASALT													
				(continued)													
(135.74)																	
				137.0 – 137.5 sheared and crushed.													
(137.46)			50														
(139.60)			140 50														
140				140.2 – 140.8 sheared and crushed.													
(140.82)				141.4 – 141.8 sheared and crushed.													
(142.34)				139.8 – 142.5 epidotized. granular epidote rich with calcite.													
(143.25)			50														
				144.2 – 149.5 sheared and crushed.													
(144.78)																	
145																	
(146.91)																	
(149.96)			15														
150																	

PAGE 11 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
150				MAGNETITE - EPIDOTE - CALCITE - CHLORITE META-BASALT													
				dark green, medium-grained, slightly banded to massive													
(151.18)			40	calcareous meta-volcanics.													
(153.31)			40														
(154.53)			50														
155																	
(155.14)				Crushed epidote - calcite - chlorite basic meta-volcanics.													
(156.06)			40?	cleavages are not clear, and randomly sheared.													
				157.5 - 157.9 sheared and crushed.													
(157.89)				158.7 - 159.4 Sheared and crushed.													
(159.41)																	
160				159.8 - 162.2 sheared and crushed.													
(160.63)																	
(161.54)																	
(162.15)																	
				161.8 - 162.3 sheared and crushed.													
(163.37)				163.0 - 163.5 sheared and crushed.													
				164.6 - 166.2 sheared and crushed.													
(164.90) 165																	

PAGE 12 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
165				MAGNETITE-EPIDOTE-CALCITE-CHLORITE META-BASALT													
				166.0 – 177.8 epidotized. granular epidote rich with calcite.													
(166.12)																	
(166.78)																	
(167.64)																	
(168.25)																	
				168.2 – 173.0 sheared and crushed.													
170																	
(170.08)																	
(171.36)																	
(172.21)																	
(172.82)																	
(174.35)																	
(174.36)																	
175																	
				176.0 – 178.0 calcite veins and networks.													
(176.17)			30														
(178.00)																	
(179.22)																	
180			45														

PAGE 13 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
180				MAGNETITE-EPIDOTE-CALCITE-CHLORITE META-BASALT													
(180.44)			35	dark green, medium-grained, massive to slightly banded,													
				partly epidotized meta-basalt.													
				181.5 – 182.0 sheared and crushed.													
			30	184.2 – 185.0 crushed.													
(184.40)				slight banded structure. calcite veinlets and patches													
185																	
(185.01)			35	cut through 185.0 – 188.0													
			25														
(187.75)																	
			30														
				189.5 Well-banded structure. mafic minerals, calcite,													
			45	epidote and magnetite form banding.													
190																	
(190.80)																	
(192.63)																	
			45														
(194.16)				194.9 – 200.0 sheared and crushed.													
195																	

PAGE 14 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
195				MAGNETITE-EPIDOTE-CALCITE-CHLORITE META-BASALT													
(195.37)				sheared and crushed. partly epidotized.													
(196.29)																	
(197.21)																	
(198.73)				198.1 – 198.8 highly epidotized. 198.2 – 198.5 almost													
(199.35)				epidotite rock. solid, massive.													
200																	
(201.08)																	
(202.67)																	
			30	banding structure is clear in meta-basalt. grains of													
			35	mafic minerals and calcite form bands.													
(204.52)			40														
205																	
(206.65)																	
				207.9 – 211.7 sheared and crushed													
(208.18)																	
(208.89) (209.70)																	
210																	

PAGE 15 OF 15 | PROJECT CLEAR LAKE | HOLE No. 93-78

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY
210				MAGNETITE-EPIDOTE-CALCITE-CHLORITE-META-BASALT				
(210.31)			30	(continued)				
				211.1–211.7 sheared and crushed.				
(211.53)								
(212.45)			30					
(214.27)				214.3– 218.0 epidotization intensive.				
(214.58)			20	matic mineral, epidote, calcite and magnetite form slight				
215				banded structure.				
				remarkable amount of fine-grained magnetite forms				
(217.91) July 10 12:50 pm				bands in meta-basalt. magnetite up to 5% volume.				
(218.24)			20					
(219.45)								
220								
(221.45)								
(222.20)								
(224.9)								
225				224.94 m (738') End of the hole.				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS

TOTAL ENERGOLD CORPORATION

DRILL LOG

PROJECT: CLEAR LAKE	GROUND ELEV.: 611.50 m
HOLE No.: 93-79	BEARING: 28°
LOCATION: Line 79+00W 47+58N	DIP: -50°
	TOTAL LENGTH: 283.50 m
LOGGED BY: MINORU MACHIDA	HORIZONTAL PROJECT
DATE	VERTICAL PROJECT
CONTRACTOR: KLUANE DRILLING	ALTERATION SCALE: absent / slight / moderate / intense
CORE SIZE: NQ	
DATE STARTED: 12 July '93	
DATE COMPLETED: 18 July '93	TOTAL SULPHIDE SCALE: < 1% / 1%—5% / 5%—25% / 25%—50% / < 50%
DIP TESTS: 62.79m : 47.7° ; 135.94m : 49.9° ; 178.61m : 49.6° ; 221.89m : 48.6°	

DRILL CALCULATIONS/HOLE SUMMARY

PURPOSE OF HOLE — To check the anomalous area of magnetic high and resistivity low.

REASON TO SHUT — Hole encounters very graphitic phyllite which is disseminated by pyrrhotite and pyrite and then calcareous phyllite and Limestone.

GEOLOGY SUMMARY

0 – 14.2m	OVERBURDEN
14.2 – 30.1m	GRAPHITE – Qtz. PHYLLITE
30.1 – 36.6m	GRAPHITE – Qtz. PHYLLITE
36.6 – 39.0m	GRAPHITE – Qtz. PHYLLITE
39.0 – 57.3m	Qtz. – GRAPHITE PHYLLITE
57.3 – 63.4m	SILICEOUS GRAPHITE – Qtz. PHYLLITE
63.4 – 68.2m	SILICEOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE
68.2 – 83.2m	VERY GRAPHITIC – Qtz. BLACK GOUGE
83.2 – 139.9m	GRAPHITE – Qtz. PHYLLITE
139.9 – 159.7m	GRAPHITE – Qtz. PHYLLITE
159.7 – 167.0m	GRAPHITE – Qtz. PHYLLITE
167.0 – 184.7m	SILICEOUS BIOTITE GRAPHITE – Qtz. PHYLLITE or GRAPHITIC CHERT
184.7 – 187.5m	BIOTITE – CHLORITE – Qtz. PHYLLITE
187.5 – 192.9m	BIOTITE – GRAPHITE – Qtz. PHYLLITE
192.9 – 195.7m	BIOTITE – GRAPHITE – Qtz. PHYLLITE
195.7 – 199.6m	SILICEOUS GRAPHITE – Qtz. PHYLLITE
199.6 – 207.3m	SILICEOUS BIOTITE – GRAPHITE – Qtz. PHYLLITE
207.3 – 214.9m	CALCAREOUS BIOTITE – CHLORITE – GRAPHITE – Qtz. PHYLLITE or GRAPHITIC LIMESTONE
214.9 – 226.2m	Qtz. – GRAPHITE PHYLLITE
226.2 – 246.9m	CALCAREOUS BIOTITE – GRAPHITE PHYLLITE
246.9 – 257.9m	GRAPHITIC LIMESTONE
257.9 – 283.5m	GRAPHITE – Qtz. PHYLLITE or Qtz. – GRAPHITE PHYLLITE

E.O.H.

PAGE 1 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
0				0-14.2 m OVERBURDEN													
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15				14.2m													

PAGE 2 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
15 (15.2)			45	14.2 – 30.1 m GRAPHITE – Qtz. PHYLLITE Light gray, fine laminated phyllite, slightly calcareous. Graphite <1mm to 1mm wide, interbeds 10 to 20%.					14.2 – 31.1 m: <1% very fine Pyrite dissemination.								
16																	
17 (17.1)																	
18																	
19																	
20 (20.1)			60														
21 (21.3)											21.3 – 23.3	2.0	6830	Ag 0.2	Cu 53	Pb 13 Zn 31	Hg 0.026 Ba (ppm) 462
22																	
23																	
(26.4)			45														
25																	
26 (26.2)																	
27																	
28																	
29 (29.0)			70														
30																	

PAGE 3 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Hg	COMPOSITE ASSAYS (PPM) Ba
30			30.1m 60	30.1 – 36.6m GRAPHITE – Qtz. PHYLLITE.					30.1 – 36.6m : <1% very fine Pyrite dissemination.		30.0–32.0	2.0	6831	0.5 105	11 723	0.561	1031
31				Dark gray, black and white stripe laminated phyllite. non-calcareous.					30.1m : broken Qtz. segregation Vein								
(31.7)			45	Graphite, 1mm to 5mm wide, interbeds up to about 50%.													
32																	
(32.9)			70						32.65m : 15cm wide Qtz. Vein								
33				Rock has pokerchip cleavage with slicken-sided surfaces.													
(33.8)			45						30.1 – 50.5m : weakly core broken								
34																	
35																	
36																	
(36.4)			20 36.6m														
			45	36.6 – 39.0m GRAPHITE – Qtz. PHYLLITE					36.6 – 39.0m : <1% Pyrite dissemination								
37				Dark gray, laminated, slightly calcareous phyllite. Graphite, 1mm to 7mm wide													
38				interbeds about 30%. 36.6m – 37.1m :													
(38.4)			50	Qtz phyllite with <5% graphite.					37.9m : Qtz. Vein 10cm wide								
			45 39.0m											Ag Cu	Pb Zn	Hg	Ba
40				39.0 – 57.3m Qtz. – GRAPHITE PHYLLITE							40.0–42.0	2.0	6832	0.4 131	12 454	0.175	2126
41																	
(41.5)			50	Dark gray to black, very graphitic phyllite.													
42																	
(42.4)			45	Rock has pokerchip cleavage with graphitic slicken sided surfaces.					44.8 – 50.1m : Qtz – cal. segregation Vein, 1cm up to 10cm wide, 5%, top contact 30 – 80°, bottom contact 30° – 40°								
43				Graphite, 1mm to 1cm wide, interbeds about 50 – 60%.													
(43.4)																	
44																	
45			45														

PAGE 4 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Ba (ppm)
50			30	50.5 – 57.3m : weak – moderately core broken							50.0 – 52.0	2.0	6833	0.4	121	8 360	1834
55			5	55.0 – 57.3m : moderately sheared.													
57			57.3m	57.3 – 63.4m SILICEOUS GRAPHITE – Qtz. PHYLLITE Gray to dark gray, laminated, locally massive phyllite. non-calcareous. Graphite 1mm to 2cm wide, interbeds about 30 to 40%.					57.3 – 63.4m : <1% Py dissemination								
60																	

PAGE 5 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS Ba (ppm)
60 (60.4)			50								60.0-62.0	2.0	6834	0.6	66	10	175	0.140	2339
61 (61.0)			40	61.3-63.7m: moderate-strongly sheared with black gouge and Qtz. seg															
62 (62.2)																			
63 (62.8)																			
(63.4)			63.4m 30	63.4-68.2m SILICEOUS - CHLORITE - GRAPHITE - Qtz. PHYLLITE.					63.4-68.2m: <1% Pyrite dissemination										
64 (64.0)																			
			30	Gray to dark gray, laminated phyllite.															
65				Graphite, 1mm to 2mm wide, interbeds about 10%, chlorite, 1mm wide, interbeds 5%.															
66 (65.8) (66.1)			10																
67																			
68																			
			68.2m																
69 (68.9)				68.2-83.2m VERY GRAPHITIC - Qtz. BLACK GOUGE															
				Strongly sheared, almost black gouge and Qtz. segregation.															
70				Graphitic black gouge : Qtz. seg. = 60 : 40					68.9-83.2m: Strongly sheared 60% graphitic black gouge and 40% broken Qtz segregation vein										
71 (71.3)				Locally Pyrite patches contained.							71.3-72.3	2.0	6835	0.4	59	10	496	0.252	1940
72				71.6m: Fracture 10-20° to core axis, with graphitic slickenside.															
72 (72.5)																			
73																			
73 (73.9)																			
74																			
75																			

PAGE 6 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Hg Ba (PPM)
80											80.0-82.0	2.0	6836	0.9	120	17 382	0.031 4087
83 (83.2m)				83.2-139.9m GRAPHITE - Qtz. PHYLLITE White and black stripe laminated phyllite					83.2-139.9m: <1% to 1% Pyrite dissemination, locally 5% Pyrite in 15cm wide.								
85				Graphite, 1mm up to 2cm wide, interbeds 5 to 40%, average 30%.													
87				83.2-107.3m: moderately-strongly sheared medium-very graphitic													
90																	

PAGE 7 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Hg	COMPOSITE ASSAYS Ba (ppm)
90 (90.2)			30								90.2–92.2	2.0	6837	Ag 7 Cu 98	Pb 9 Zn 474	0.150	2321
91 (91.2)																	
92 (92.5)																	
93																	
94 (94.5)																	
95																	
96 (96.5)																	
97 (97.2)																	
98 (98.1)			90														
99 (99.4)			45														
100											100.0–102.0	2.0	6838	Ag 0.4 Cu 153	Pb 14 Zn 270	0.220	3722
1 (101.2)																	
2 (102.4)			60														
3			70														
4																	
105 (104.7)																	

PAGE 8 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb	Zn	Hg	Ba (FPPM)
105																			
106			60	106.6 – 109.5m: Section contain chlorite up to 10%, average 2mm wide lamina															
107																			
108																			
109			70																
110				110.3 – 113.1 m: White massive Qtz phyllite with 3 – 5% graphite.					110.3 – 139.9m: Pyrite + pyrrhotite 1% average.		110.0–112.0	2.0	6839	0.4	60	13	67	0.026	1232
111																			
112																			
113			60																
									114.3m downsection pyrrhotite increasing a little bit. Pyrite : pyrrhotite = 9 : 1										
115																			
116			70	116.4 – 118.0m: moderately core broken															
117																			
118			40	118.1 – 120.0m: decreasing graphite to 5 – 10%.															
119			40																
120																			

PAGE 9 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Hg	COMPOSITE ASSAYS Ba (PPM)
120			45	118.0 – 122.3 m: Qtz. segregation Vein, 5mm to 5cm wide, 5%. Some veins discordant with schistosity.							120.0–122.0	2.0	6840	0.5 143	11 427	0.077	3101
			35														
			40														
125																	
			40						Py + Po = 1% overall.								
			20														
														Ag Cu	Pb Zn	Hg	Ba
130			35	131.0 – 132.5 m: Qtz. segregation Vein, 1cm to 5cm, 10%. top & bottom contact 30°							130.0–132.0	2.0	6841	0.5 149	15 211	0.112	2950
				132.0 – 132.9 m: micaceous graphite – Qtz phyllite.													
			35														
			10														
135																	

PAGE 10 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
135																	
36 (136.9)			0														
37									Py + Po = 1%								
38 (137.7)			70	137.15m: Qtz. segregation vein, 10cm wide, top contact 40°, bottom 80°													
39 (139.7)			30 139.9											Ag	Cu	Pb Zn	Hg Ba (PPM)
140				139.9-159.7m GRAPHITE-Qtz PHYLLITE					139.9-155.7m: Pyrite+Pyrrhotite = 2 to 5%		140.9-142.0	2.0	6842	0.4	179	10 454	0.043 7680
41				Black to dark gray, laminated phyllite					Pyrite : Pyrrhotite = 3:7 to 1:9								
42				Graphite, 1mm up to 2cm wide, interbeds 5 up to 40%, average 30%.					Very fine pyrrhotite disseminated in graphitic laminae.								
43 (143.0)			30														
44				142.8m: Qtz-cal segregation vein, 15cm wide top contact 40°													
145																	
46 (146.0)			0	137.1-147.4m: moderately-strongly core broken													
47 (147.2)																	
48																	
49 (148.5)			30														
150																	

PAGE 11 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Mg	COMPOSITE ASSAYS Ba (PPm)
150											150.0-152.0	2.0	6843	0.5	144	15	352	0.076	6709
(150.6) 51 (151.5) 52 53 54 (154.2)			f 30						Py+Po = 2 to 5%										
155																			
56 (155.7) 57 58 59 (159.7)			f 30	157.3m: Qtz segregation vein, 4cm wide, top contact 50°.					155.7-159.7m: 2 to 7% Pyrite and pyrrhotite disseminated. Pyrite : pyrrhotite = 7:3 to 10:0										
			50 159.7m						155.7-156.7m: Section contain porphyroblastic coarse grain pyrite upto 5mm diameter.										
160				159.7-167.0m GRAPHITE-Qtz PHYLLITE					159.7-176.8m: Average 2% pyrite and pyrrhotite disseminated. Pyrite : Pyrrhotite = 7:3		160.0-162.0	2.0	6844	0.7	115	10	183	0.055	1791
(160.7) 61 62 (162.2) 63 (162.9) 64 165			f 40 / 0	Dark gray, relatively fine laminated phyllite. Graphite, 1mm to 5mm wide. 161.05m: Qtz segregation vein, 3cm wide, top & bottom 30°															

PROJECT

HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Hg	Ba (PPM)
165			10	162.7m: Qtz segregation, 15cm wide top contact 70°, bottom contact 70°													
167.0m			30	167.0-184.7m SILICEOUS BIOTITE - GRAPHITE - Qtz. PHYLLITE or GRAPHITIC CHERT													
				Dark gray to black, massive to laminated phyllite.													
170											170.1-172.1	2.00	6845	0.5	110	19 439	0.025	2600
									Py + Po = 2%								
				168.0-172.5m: Strongly sheared with graphitic black gouge.													
				167.0-167.5m: Qtz segregation vein, 30%. 2cm to 3cm wide, top & bottom 30°.													
			30														
				170.1m: Qtz-cal segregation vein, 15cm wide, top contact 30°. bottom?													
175			40														
			40						176.8-184.7m: Pyrite and pyrrhotite disseminated up to 10%, average 5 to 7%. Very fine pyrrhotite Pyrite : pyrrhotite = 5:5 to 2:8								
			70	177.6-184.7m: moderatly sheared with graphitic slickenside on fracture													
180																	

PAGE 13 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag Cu	% Pb Zn	% Hg	COMPOSITE ASSAYS Ba (ppm)
180			0 1 1	175.9m: Qtz-segregation vein, 4cm wide top & bottom 45°							180.0-182.0	2.0	6846	0.8 170	34 277	0.030	4080
181																	
182 (182.0)			70						Py+Po = 5 to 7%								
182																	
183 (183.3)																	
184																	
184 (184.0)			30														
			184.7m	184.7-187.5m BIOTITE-CHLORITE-GRAPHITE-Qtz. PHYLLITE.					184.7-187.5m								
185				Gray to light gray, laminated, medium calcareous phyllite. Graphite > chlorite > biotite					Po > Py total <1% to 1%								
186				total interbed about 10 to 30%.													
186 (186.2)			30														
187																	
			187.5m														
188				187.5-192.9m BIOTITE-GRAPHITE-Qtz. PHYLLITE					187.5-192.9m								
188 (188.4)			10						Pyrite + Pyrrhotite = 5 to 7%. very fine pyrrhotite.								
				Dark gray, white and black stripe laminated					Py : Po = 2 : 8								
189				phyllite.													
190				Graphite, <1mm to 2mm wide, interbeds							190.0-192.0	2.0	6847	0.4 167	11 519	0.023	6299
190 (190.1)			10	about 30%, biotite interbeds 5 to 10%.					188.6-191.1m: moderately-strongly sheared.								
191																	
192																	
			192.9m														
193				192.9-195.7m BIOTITE-GRAPHITE-Qtz. PHYLLITE					192.9m-195.7m: 2% Pyrite + Pyrrhotite dissemination								
194 (194.2)			40	Black to dark gray, laminated, medium calcareous phyllite.													
195																	

PROJECT

HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Hg Ba (ppm)
195			30	Graphite, 2mm up to 5cm, interbeds about 25%.													
196 (195.7)			195.7m														
				195.7-199.6m SILICEOUS GRAPHITE - Qtz. PHYLLITE					195.7-199.6m: 5% Pyrite+pyrrhotite disseminated. Py:Po = 6:4								
197 (197.1)				Gray to dark gray, black and white stripe laminated phyllite. Graphite, 1mm to 7mm wide, interbeds about 30%.													
198									Section contain coarse grain up to 3mm diameter pyrite.								
199 (199.1)			35														
			199.6m														
200				199.6-207.3m SILICEOUS BIOTITE - GRAPHITE - Qtz. PHYLLITE					199.6-207.3m: 2% Pyrite+pyrrhotite disseminated. Py:Po = 9:1		200.0-202.0	2.0	6848	0.3	119	5 247	0.061 1552
1				Gray, laminated phyllite, weak calcareous.													
2																	
(202.3)			40	Graphite interbed 20-40%.													
3				Locally contain biotite fine laminae.					191.8-207.0m: moderately sheared with black gouge.								
(204.7)			40														
205																	
6 (206.1)																	
7																	
			207.3m														
8 (208.2)			10	207.3-214.9m CALCAREOUS BIOTITE - CHLORITE - GRAPHITE - Qtz. PHYLLITE or GRAPHITIC LIMESTONE					207.3-214.9m: Pyrite and pyrrhotite disseminated 1 to 2%. Py:Po = 7:3								
9				Black to dark gray, laminated, very calcareous phyllite.													
210			30														

PAGE 15 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS (ppm) Ba
210				Graphite >> chlorite total interbeds, 1mm up to 2cm, average 5mm wide, 20 to 50%, average 40%.							210.0-212.0	2.0	6849	0.4	135	11	175	0.031	2328
			40	biotite interbeds up to 5%.					Py+Po = 1 to 2%										
				211.3-211.7m: Qtz-cal. vein, top contact 20°, bottom contact 70°															
215			24.9m																
			30	214.9-226.2m Qtz. - GRAPHITE PHYLLITE.					≥14.9-226.2m: Average 3 to 5%, locally up to 10%, pyrite and pyrrhotite disseminated										
				Black to dark gray, white and black stripe laminated, very graphitic phyllite. weak siliceous.															
			0																
				219.2m: Qtz-cal segregation vein.															
			90																
220				217.4-221.3m: strongly sheared with black gouge.							220.0-222.0	2.0	6850	0.2	134	8	628	0.033	5435
			70						Py+Po = 3 to 5%										
				223.1-226.2m: Strongly sheared with black gouge.															
225																			

PROJECT

HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
(225.2)																	
225																	
26 (226.2)			70° 226.2m														
				226.2 – 246.9m CALCAREOUS BIOTITE – GRAPHITE PHYLLITE.					226.2 – 246.9m: Pyrite + Pyrrhotite < 1% dissemination								
27 (227.5)			30														
28 (228.6)				Black to dark gray, laminated phyllite. Graphite, 2mm up to 10cm, interbeds about 30 to 40%.													
29			40											Ag	Cu	Pb Zn	Hg	Ba (PPM)
230 (229.1)											230.0 – 232.0	2.0	6867	<0.2	172	11 441	0.089	4084
31 (231.3)																	
32 (232.4)			30														
33 (233.5)																	
34 (234.7)																	
(234.9)			30														
235 (235.0)				234.7 – 238.4m: Qtz – cal. vein, 1cm to 3cm wide, 5%, t & b contact 30°													
36 (236.2)			20														
37																	
38 (238.4)			40														
39 (239.6)				239.6m downsection decreasing graphite to 5 to 10%.													
240																	

PAGE 17 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS Ba (ppm)
											240.0-242.0	2.0	6868	<0.2	120	10	308	0.044	4988
240																			
41									234.7-247.5m: weakly core broken										
42			45																
(241.5)																			
43				242.3m: Qtz-cal segregation vein, 20cm wide top contact 10°?															
(242.3)																			
44																			
245																			
46																			
47			40																
(246.8)			246.9m																
				246.9-257.9m GRAPHITIC LIMESTONE																
48				White to light gray, fine laminated limestone															
49				Graphite, <1mm to 1mm wide, interbeds 10%.															
(249.0)			30																
250											250.0-252.0		6869	<0.2	90	6	243	0.022	2607
				248.6m: Qtz segregation vein, 1cm wide top contact 30°, bottom contact 80°					249.5-253.4m: moderatly core broken										
51																			
(251.3)																			
52																			
53																			
(253.4)			30																
54																			
255																			

PAGE 18 OF 19 | PROJECT | HOLE No. 93-79

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
														Ag	Cu	Pb Zn	Hg / Ba (PPM)
255									255.0 – 258.1m: moderately – strongly sheared with black gouge.								
56 (256.3)																	
57																	
58 (257.9)				257.9 – 283.5m GRAPHITE – Qtz. PHYLLITE or Qtz – GRAPHITE PHYLLITE					257.9 – 283.5m: <1% Pyrite and pyrrhotite dissemination.								
59 (259.7)				Moderately to strongly sheared very graphitic phyllite with black gouge and Qtz segregation vein.													
260											260.0–262.0	2.0	6870	0.5	144	6 202	0.057 / 2273
61 (261.2)																	
62																	
63 (263.1)																	
265																	
66 (265.9)																	
67 (267.3)																	
68																	
69 (269.1)																	
270																	

PAGE 19 OF 19 | PROJECT | HOLE No. 93-79

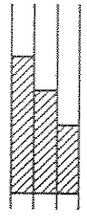
DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% Ag	% Cu	% Pb	% Zn	% Hg	COMPOSITE ASSAYS Ba (ppm)
270											270.0-272.0	2.0	6871	0.4	101	8	276	0.056	3845
271 (270.9)									258.1-276.1m: Very strongly sheared with graphitic black gouge and broken Qtz. segregation Vein.										
272 (271.9)																			
273 (273.1)																			
274 (274.6)																			
275																			
(275.8?)																			
276 (276.1)																			
277									277.4-278.9m: moderately-strongly sheared with 30% black gouge and broken Qtz segregation Vein. 70%										
278 (278.6)																			
(279.5)			40																
280											280-282.0	2.0	6872	0.3	144	7	215	0.061	4537
281									281.8-283.5m: moderatly-strongly sheared with black gouge.										
282 (282.3)			50																
(283.1)																			
283 (283.2)																			
283.50 m			EOH																

TOTAL ENERGOLD CORPORATION

DRILL LOG

PROJECT: CLEAR LAKE	GROUND ELEV.: 579.0 m
HOLE No.: DDH 93-80	BEARING: 27.0°
LOCATION: Line 86+35 W, 46+25 N, Area 1	DIP: -60.0°
	TOTAL LENGTH: 244.80 m
LOGGED BY: MINORU MACHIDA	HORIZONTAL PROJECT
DATE	VERTICAL PROJECT
CONTRACTOR: KLUANE DRILLING	
CORE SIZE: NQ	
DATE STARTED: 20 July '93	
DATE COMPLETED: 25 July '93	

ALTERATION SCALE



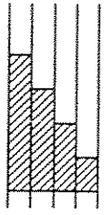
absent

slight

moderate

intense

TOTAL SULPHIDE SCALE



< 1%

1%—5%

5%—25%

25%—50%

< 50%

DIP TESTS

59.74 m : -57.7°
123.75 m : -54.5°
184.71 m : -52.7°
242.62 m : -53.0°

DRILL CALCULATIONS/HOLE SUMMARY

PURPOSE OF HOLE: To check a favorable Horizon for mineralization which is estimated from outcrop and drill data

REASON TO SHUT: Hole encounter graphitic phyllite which contain minor Zn mineralization and pyrrhotite and pyrite.

GEOLOGY SUMMARY

0 - 17.2 m OVERBURDEN
17.2 - 33.2 m CHLORITE - GRAPHITE - Qtz. PHYLLITE
33.2 - 37.3 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
37.3 - 40.5 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
40.5 - 47.5 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
47.5 - 66.8 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
66.8 - 70.5 m CHLORITE - GRAPHITE - LIMESTONE
70.5 - 76.4 m GRAPHITE - CHLORITE - LIMESTONE
76.4 - 84.4 m GRAPHITE - CHLORITE - LIMESTONE or CALCAREOUS GRAPHITE - CHLORITE PHYLLITE
84.4 - 88.2 m CHLORITE - GRAPHITE - LIMESTONE
88.2 - 93.2 m Qtz. - GRAPHITE PHYLLITE
93.2 - 96.1 m BIOTITE - GRAPHITE - LIMESTONE
96.1 - 98.6 m GRAPHITE - BIOTITE - LIMESTONE
98.6 - 101.9 m BIOTITE - GRAPHITE - LIMESTONE
101.9 - 103.7 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
103.7 - 105.6 m CHLORITE - GRAPHITE - Qtz. PHYLLITE
105.6 - 116.0 m CHLORITE - GRAPHITE - Qtz. PHYLLITE
116.0 - 128.7 m CALCAREOUS GRAPHITE - Qtz. PHYLLITE
128.7 - 150.6 m Qtz. - GRAPHITE PHYLLITE
150.6 - 194.9 m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE
194.9 - 209.1 m SILICEOUS GRAPHITE - Qtz. PHYLLITE or GRAPHITIC CHERT
209.1 - 244.8 m Qtz. - GRAPHITE PHYLLITE.

E.O.H.

PAGE 1 OF 17 | PROJECT CLEAR LAKE | HOLE No. 93-80

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
0																	
				0 – 17.2 m OVERBURDEN													
5																	
10																	
15																	

PAGE 2 OF 17 | PROJECT | HOLE No. 93-80

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
15																	
16																	
(17(17.1)																	
				m													
17.2 – 33.2			70	CHLORITE – GRAPHITE – Qtz. PHYLLITE					17.2 – 33.2m: Very fine disseminated								
19				Dark gray, laminated, fine chlorite graphite					pyrrhotite <1%, being concordant								
(19.5)				quartz phyllite.					with graphitic laminae.								
21				Graphite – 1mm to 1cm wide interbeds													
(21.7)				about 30%. Chlorite interbeds 1 to 2%													
20			80														
				18.3 – 19.8m: core broken													
22																	
(22.3)				22.10 – 22.30m: strongly sheared. Black gouge.													
			70														
23				23.8 – 25.3m: moderate – strongly sheared													
24 (24.1)			60	with black gouge													
25																	
(25.2)			60														
26				26.5 – 30.8m: Graphite increasing to 40%													
(26.2)																	
(26.5)				26.9 – 30.8m: moderate – strongly sheared													
27				with black gouge.													
28																	
29				29.7 – 33.2m: Chlorite increasing to 5%													
(29.3)																	
30 (30.1)			80														

PAGE 3 OF 17 | PROJECT | HOLE No. 93-80

DEPTH METRES	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
30																	
(30.8)			70	31.1 – 33.2m : moderate – strongly sheared													
				34.3 – 35.7m : weakly – moderate core broken													
(32.3)																	
(32.4)			60	m													
				33.2 – 37.3 CALCAREOUS CHLORITE – GRAPHITE – Qtz PHYLLITE					33.2 – 37.3m : Fine pyrite dissemination < 1% locally.								
(34.7)			50	Light gray to gray, laminated, strongly calcareous chlorite – graphite – Qtz phyllite.													
35				Graphite interbeds about 20%, chlorite about 5 to 7%.													
(35.1)																	
(35.7)			60														
(36.5)			60														
(37.2)			50	m													
				37.3 – 40.5 CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE					37.3 – 40.5m : no pyrite dissemination.								
(38.3)			45	Gray to dark gray, medium calcareous. Chlorite – graphite – Qtz phyllite.					37.2 – 38.3m : weakly core broken								
39			50														
40																	
(40.5)			45	m													
				40.5 – 47.5 CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE					40.5 – 47.5m : no pyrite dissemination								
(41.5)			45	Gray to dark gray, laminated, strongly calcareous chlorite – graphite – Qtz phyllite.					41.0 – 42.7m : weakly – moderate sheared								
(42.1)																	
(42.7)			70														
43				Graphite about 30 to 40%, chlorite 5%.					43.0 – 48.0m : moderate sheared locally black gouge								
(43.9)																	
45			60														

PAGE 4 OF 17 | PROJECT | HOLE No. 93-80

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
45 (45.1)																	
(46.0)				46.2m: Cal-Qtz Vein, 5cm wide, bottom contact 45°													
(46.3)																	
(47.1)			55	47.5 – 66.8 m CALCAREOUS, CHLORITE – GRAPHITE – Qtz. PHYLLITE													
			80						48.6 – 49.4m: moderate – strongly core broken.								
				Greenish gray to dark gray, laminated, medium to strongly calcareous chlorite – graphite – Qtz phyllite.													
50 (50.6)			60	Graphite up to 1cm, average 1 to 2mm wide interbeds about 20 to 30%, chlorite 1 to 2mm wide interbeds about 10%.					50.6 – 52.4m: moderate sheared.								
(52.4)				Locally chloritic graphitic laminae disconcordant with foliation.					52.4 – 54.9m: weakly core broken								
(53.7)				48.0m: Cal. Qtz Vein 7cm wide, top and bottom contact 50°													
55			40	56.9m: Cal. Qtz Vein 20cm wide, top and bottom contact 50°													
(56.1)				57.6m: Cal. Qtz Vein 8cm wide, top contact 45°, bottom contact 80°,													
				59.8m: Cal. Qtz Vein 7cm? wide.													
(59.2)			70	59.9m – 62.6m: 8 to 9 Cal. Qtz veins 2cm wide each, top and bottom contact 50°													
60 (59.7)			55														

PAGE 5 OF 17 | PROJECT | HOLE No. 93-80

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
60																	
61				61.1 – 63.4 m : weakly – moderate core broken													
62			60														
63																	
(63.4)				64.5 m : Cal. Qtz Vein 2cm wide, top and bottom contact 45°													
64			75														
65																	
(65.5)																	
66																	
(66.8)			60														
67				66.8 – 70.5 m CHLORITE – GRAPHITE – LIMESTONE													
				Greenish gray to light gray, white and gray stripe laminated limestone.													
68			65	Graphite 30–40%, 1mm to 5mm wide													
(69.2)				interbeds. chlorite 1%.													
(69.8)			60														
70																	
			55	70.5 – 76.4 m GRAPHITE – CHLORITE – LIMESTONE					70.5 – 76.4 m : Very fine pyrrhotite and pyrite <1% being along chlorite laminae.								
71				White and light gray stripe laminated													
			70	limestone. Graphite 5% and Chlorite 10%													
72				1 to 5 mm wide interbeds.													
(72.8)			60	Locally almost massive limestone.													
73																	
(73.8)			60														
74																	
75																	

PAGE 6 OF 17 | PROJECT | HOLE No. 93-80

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
75																	
(75.9)			55°														
			55	m													
77				76.4 - 84.4 GRAPHITE - CHLORITE - LIMESTONE or													
				CALCAREOUS GRAPHITE - CHLORITE													
(78.0)				PHYLLITE													
78			50	White and gray stripe laminated													
79				limestone. Graphite 10 to 30%, chlorite													
				20 to 40%.													
80				82.9m graphite interbeds downsection													
			65	increasing to more than 40%.													
(81.1)			55														
				Rock has moderate poker chip cleavage													
82				with slickensided graphitic surfaces.													
(82.9)			35														
83				82.7 - 82.9m: strongly sheared with gouge.													
			60														
84																	
				m													
85				84.4 - 88.2 CHLORITE - GRAPHITE - LIMESTONE													
(85.3)			45	White and gray stripe laminated limestone.													
86				Graphite 10 to 30%, Chlorite 20 to 40%													
				interbeds.													
87				Downsection increasing graphite and													
(87.3)			45	decreasing chlorite.													
				85.3 - 87.5m: Cal. Qtz seg. veins, top and													
88				bottom contact 45°													
				m													
89				88.2 - 93.2 Qtz. - GRAPHITE PHYLLITE													
				Graphite interbeds more than 50%.													
90				strongly sheared.													

PAGE 7 OF 17 | PROJECT | HOLE No. 93-80

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
90 (90.2)				90.5 - 93.9m : completly black gouge - fault clay non calcareous					Fine pyrrhotite <1% dissemination								
(91.7)																	
93				m													
(93.9)				93.2 - 96.1 BIOTITE - GRAPHITE - LIMESTONE White and light gray stripe laminated limestone, locally massive. Biotite interbeds 2 to 3%, graphite about 10%.					93.2 - 96.1m : Very fine pyrrhotite 1% being along graphitic laminaes.								
95			90														
96 (96.2)			60	m													
97			55	96.1 - 98.6 GRAPHITE - BIOTITE - LIMESTONE White and light gray stripe laminated limestone with graphite and biotite 10 to 15%, 1 to 2mm wide.													
98				m													
(98.6)			50	98.6 - 101.9 BIOTITE - GRAPHITE - LIMESTONE White and light gray stripe laminated biotite - graphite limestone. Graphite > biotite interbeds 15 to 20%					101.0 - 102.5m : weakly - moderate core broken.								
100			80														
1				m													
(101.2)			80	101.9 - 103.7 CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE Black and dark gray stripe laminated, medium to strongly calcareous phyllite Graphite interbeds 40 to 50%.					101.9 - 103.7m : Very fine pyrrhotite <1% to 1% being along graphitic laminaes.								
2																	
3																	
(103.6)			70														
4																	
105			70														
104.9																	

PROJECT

HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
105			80	103.7 – 105.6 m PHYLLITE Dark gray, weakly calcareous, laminated phyllite with 1 to 2% biotite. Chlorite interbeds 25%, graphite 25%. Locally medium calcareous.					103.7 – 105.6 m: Very fine pyrrhotite and pyrite dissemination 1%								
			80														
			20	105.2 – 105.6 m: Qtz vein with py and biotite (local)					105.6 – 116.0 m: Fine pyrrhotite and pyrite 1% dissemination along graphitic laminaes.								
				105.2 – 106.0 m: moderate core broken													
110			60	105.6 – 116.0 m CHLORITE – GRAPHITE – Qtz. PHYLLITE Dark gray to dark greenish gray, non – weak calcareous phyllite					109.0 – 114.0 m: strongly sheared 111.6 – 111.9 m: black gouge								
				105.6 – 106.1 m: Chlorite 20 to 30% interbeds Graphite 20 to 30% interbeds													
			65	106.1 m downsection decreasing chlorite and increasing graphite to 30 – 40%.													
115			60														
			50														
			55														
			65														
120																	

PAGE 9 OF 17 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
120			50	116.0 – 128.7 m CALCAREOUS GRAPHITE – Qtz. PHYLLITE Dark gray to gray, medium calcareous phyllite. White and black stripe laminated. Graphite average 1mm to 5mm wide, 40 to 50% interbeds					116.0 – 128.7m : Fine pyrrhotite and pyrite dissemination 1%								
			60														
				120.0 – 120.2m : strongly sheared with black gouge													
			70														
125				125.4 – 125.9m : moderate – strongly sheared													
			60														
				128.2 – 129.2m : moderate – strongly sheared													
			70														
				128.7 – 150.6 m Qtz. – GRAPHITE PHYLLITE Dark gray to black, weak siliceous, locally very weak calcareous phyllite.					128.7 – 150.6m : Fine grained to medium grained pyrrhotite, pyrite, chalcopyrite dissemination up to 5%, average 2%. Rare sphalerite recognized under a hand lens. po:py = 8:2 – 9:1, minour ccp.		128.7-130.7	2.0m	6873	Ag 0.2	Cu 132	Pb 7 Zn 597	Hg 0.041	Ba (ppm) 4207
130			65	Graphite <1mm to 5mm wide, 50 to 60% interbeds, being white and black stripe laminated.													
			80														
135			80														

PAGE 10 OF 17 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
135				135.9 – 136.8m: strongly sheared with black gouge													
			80														(PPM)
														Ag	Cu	Pb Zn	Hg Ba
			60								139.7–140.7	2.0m	6874	<0.2	92	7 301	0.018 3375
140				138.6 – 150.3m: weakly – moderate sheared													
			45														
			45														
145			70														
											149.6–150.6	2.0m	6875	<0.2	61	12 268	0.017 2619
150																	

PAGE 11 OF 17 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
150			60	m 150.6 – 194.9 CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE Light gray to pale greenish gray, weak to medium calcareous, laminated phyllite. Chlorite, 1mm to 1cm wide, up to 30%, average 10% interbeds, graphite, <1mm to 5mm wide, up to 60%, average 30%.					150.6 – 165.6m: Pyrrhotite and pyrite often recrystallized to coarser mineralization in green chlorite – qtz rich section. 150.6 – 151.5m: po+py, average 2%								
			70														
			70														
155			90	Locally graphitic and chloritic section being discordant with foliation.					155.0 – 155.5m: po+py, average 1%								
			50						158.6m: po+py, average 1%.								
				150.6 – 167.6m: weak to medium calcareous													
			70														
160			60						161.5 – 162.1m: po+py, average 3%.								
			60						163.9 – 164.1m: po+py, average <1%.								
165			55														

PAGE 12 OF 17 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
165				165.6 – 166.4m: Chlorite + Graphite interbeds decreasing to 5%.													
66 (166.4)			80														
67																	
(167.6)				167.6 – 194.9m: medium to strongly calcareous													
68 (168.2)			60														
69																	
(169.7)																	
170				170.4 – 170.6m: Qtz Vein, crushed													
(170.4)																	
71 (171.0)			70														
72																	
(172.5)			70														
73																	
				174.0 – 174.2m: Cal qtz Vein 15cm wide top contact 50°														
74																	
175				175.6 – 180.9m: Locally graphite interbeds increasing up to 70%													
(175.6)																	
76																	
				175.9 – 176.2m: Cal-qtz saggization Vein													
77			65														
78																	
(178.1)				177.9 – 178.1m: Cal-qtz Vein top contact 60°													
79			70														
				178.8 – 179.0m: Cal-qtz Vein 20cm wide bottom contact 70°													
180																	

PROJECT

HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
180				179.5 – 179.6 m : Cal-qtz vein top and bottom contact 80°													
			60														
(181.7)				182.2 – 182.6 m : Cal-qtz vein top contact 60°													
				184.3 – 184.5 m : Cal-qtz vein top contact 80° bottom contact 60°													
(184.7)			70														
185				185.0 – 185.1 m : Cal-qtz vein top contact 70°													
				186.9 m chlorite downsection decreasing to 5%													
			60														
(187.8)																	
				188.1 – 188.3 m : Cal-qtz vein top & bottom contact 60°													
(188.7)			70														
190				191.0 – 191.2 m : Cal-qtz vein top contact 70° bottom contact 45°													
			70														
(193.7)																	
			80														
195			60														

PAGE 14 OF 17 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
195				194.9-209.1 m SILICEOUS GRAPHITE - Qtz. PHYLLITE or GRAPHITIC CHERT.					194.9-209.1 m: Very fine grained to coarse grained pyrrhotite and pyrite average 2%. Py: Po = 5:5								
196			70°	White and black stripe laminated, weak siliceous phyllite.													
197	(197.5)		60°	Graphite 1mm to 5mm wide, 30 to 40% interbeds.					no Zn, Pb mineralization.								
198	(198.3)			198.8 - 198.9m: Qtz vein top & bottom contact 60°													
200	(200.6)		80°	201.1 - 201.45m: Qtz vein top contact 60° with graphitic slickensides bottom contact 50°?													
201	(201.1)			196.6 - 197.1m: strongly sheared, black gouge.													
202				198.3 - 199.0m: strongly sheared, black gouge													
205	(205.1)			199.0 - 199.5m: moderate core broken													
206	(206.4)			199.5 - 200.4m: Strongly sheared, black gouge													
207	(207.4)			202.6 - 207.6m: strongly sheared with black gouge, Graphite 70%, Qtz 30%													
208				204.8 - 205.1m: chlorite 80%, Qtz 20%													
209	(209.1)			207.6 - 210.6m: moderate sheared													
210			60°														

PAGE 15 OF 17 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
210				209.1 – 244.8 m Qtz. – GRAPHITE PHYLLITE					209.1 – 244.8 m: Very fine grained pyrite about 1% dissemination along graphitic laminaes. Locally being coarser grained and concentrated up to 8mm diameter in quartz vein and quartz rich laminae								
			50	Black, massive, weak to medium calcareous fine grained phyllite.													
			50	Graphite 80 – 90%, calcareous siltstone interbeds up to 20%, average 5%, <1mm to 3mm wide.													
			60														
				212.8m downsection Qtz grains being coarser													
215				211.6 – 216.2 m: weakly core broken													
			65	216.2 – 218.2 m: moderately sheared													
			60														
				218.2 – 228.0 m: Strongly sheared with black gouge, Graphite 80 – 90%													
			65														
220																	
225																	

PAGE 16 OF 17 | PROJECT | HOLE No.

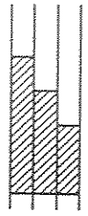
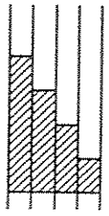
DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
225																	
26																	
27																	
28				228.0 – 230.1m: moderate – strongly sheared.													
29			70														
230				230.1 – 242.6m: strongly sheared core with black gouge, graphite 90%													
31																	
32																	
33																	
34																	
235																	
36																	
37																	
38																	
39																	
240																	

PAGE 17 OF 17 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
240																	
(240.2)				242.6 - 244.8m : moderate - strongly sheared													
41																	
(241.7)																	
42																	
(242.6)				242.6 - 242.8m : Qtz Seg. Vein crushed													
43				Qtz 70%, Graphite 30%													
(243.5)																	
44				243.4 - 243.8m : Qtz Seg. Vein, crushed													
(244.1)				Qtz 60%, Graphite 40%													
(244.8)			EOH.														
245																	

TOTAL ENERGOLD CORPORATION

DRILL LOG

PROJECT CLEAR LAKE	GROUND ELEV.
HOLE No. DDH 93-81	BEARING 28°
LOCATION L 3+25W 19+33N (AREA 4)	DIP −50° TOTAL LENGTH 214.88 m
LOGGED BY ATSUSHI GOMI	HORIZONTAL PROJECT
DATE AUGUST 1, 1993	VERTICAL PROJECT
CONTRACTOR Kluane Drilling Ltd.	**ALTERATION SCALE**  absent slight moderate intense
CORE SIZE NQ	
DATE STARTED JULY 27, 1993	
DATE COMPLETED JULY 31, 1993	**TOTAL SULPHIDE SCALE**  < 1% 1%—5% 5%—25% 25%—50% < 50%
DIP TESTS (ACID TEST) 74.98 (P) − 49.0° 111.57 − 51.8° 181.66 − 54.7° 215.19 − 54.9°	

DRILL CALCULATIONS/HOLE SUMMARY

PURPOSE OF HOLE

To investigate magnetic high and Power Line Magnetotelluric low, that may be sulphide dissemination zone due to magnetic pyrrhotite and conductive minerals such as graphite.

REASON TO SHUT DOWN

Hole intersected pyrrhotite-pyrite dissemination zones and then chlorite-phyllite which is not magnetic and conductive.

GEOLOGY SUMMARY

0 − 11.50	OVER BURDEN
11.50 − 25.50	CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE
25.50 − 32.31	CALC-SILICEOUS GRAPHITE CHLORITE PHYLLITE
32.31 − 51.90	CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE
51.90 − 63.80	CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE (VERY LIMY UNIT)
63.80 − 70.80	CALCAREOUS CHLORITE-QUARTZ PHYLLITE
70.80 − 73.00	CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE
73.00 − 83.30	CALCAREOUS GRAPHITE-QUARTZ PHYLLITE
83.30 − 84.80	GRAPHITIC LIMESTONE
84.80 − 88.32	CALCAREOUS GRAPHITE-QUARTZ PHYLLITE
88.32 − 129.40	CALCAREOUS CHLORITE-BIOTITE-GRAPHITE QUARTZ PHYLLITE
129.40 − 158.40	CALCAREOUS-BIOTITE-CHLORITE-GRAPHITE QUARTZ PHYLLITE
158.40 − 171.10	CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE
170.10 − 181.85	CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE
181.85 − 182.30	QUARTZ-CALCITE VEIN (CALC-SILICA LAYER?)
182.30 − 188.20	CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE
188.20 − 190.46	GRAPHITE-CHLORITE-QUARTZ PHYLLITE (LESS CALCAREOUS)
190.46 − 193.70	CHLORITE-GRAPHITE-PYRROTITE-QUARTZ VEIN (?)
193.70 − 214.88	GRAPHITE-CHLORITE QUARTZ PHYLLITE (NON-CALCAREOUS)
	END OF HOLE.

PAGE 1 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
0				0 – 11.50 OVER BURDEN													
5																	
10																	
(12.19)				11.50 – 25.50 CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE dark greenish gray, medium to coarse-grained, well-bonded calcareous phyllite. bands are 1 – 7mm thickness graphite chlorite lamina and limestone lamina or lenses.					py. 1~5mm aggregate blasted in phyllite. about 0.5 – 1% in volume.								
(14.92)			45														
15																	

PAGE 2 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
15				CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE					pyrite aggregates up to 3mm scatter through.								
(15.24)			80	(continued)					about 1% in volume.								
			70	dark green chlorite patches are coarser.													
				15.92 – 16.02 pale gray, coarse-grained massive quartz													
(17.07)			65	vein. crushed, dip unclear.													
			80	dark green chlorite patches are coarser.													
			40														
20																	
(20.12)									21.0 – minor pyrrhotite aggregate up to 5mm								
			30	dark green chlorite patches are up to 1cm.					appears together with pyrite. total sulphide								
			75						is about 1.5 – 2% in volume.								
(21.34)			60														
(23.16)																	
			55														
(24.69)				23.85 – 24.12 pale gray to gray, massive quartz vein					23.85 – 24.12 pyrite irregular aggregates in								
25				vein crushed.					quartz vein.								
			25.50														
			60	25.3 – 25.5 sheared and crushed.					24.12 – 25.30 higher pyrite concentration as								
(26.21)			50	25.50 – 32.31 CALC-SILICEOUS GRAPHITE-CHLORITE PHYLLITE					irregular aggregates in phyllite. about 4%								
				pale gray to gray, fine-grained, banded, siliceous					in volume.								
				phyllite.													
				26.5 – 29.4 intensively sheared to dark green					25.50 – 32.31 moderate pyrite concentration as								
				chloritic phyllite fragments.					irregular aggregates in quartz. about 2%.								
(29.26)																	
30																	

PAGE 3 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
30																	
(32.31)				32.31 – 51.90 CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE dark greenish gray, medium-grained, well-banded chlorite phyllite.					pyrrhotite patches and irregular aggregated in phyllite appear. some pyrrhotite-quartz veins cut through. very minor pyrite. total sulphide is about 2% in volume.								
			80														
35																	
(35.36)			85														
									36.12 a 2mm width of chalcopyrite stringer.								
			70														
(37.49)																	
			70														
(39.32)			50	39.5 – 40.2 sheared and crushed.													
40																	
(40.73)			50						pyrrhotite patches and lenses in phyllite foliation. po. is about 1-2% in volume.								
			70														
(41.45)																	
			70														
(43.59)																	
(44.81)			55														
45																	

PAGE 4 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
45			40	CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE					pyrrhotite patches and lenses in phyllite foliation.								
				45.8 – 46.3 irregular calcite-quartz vein. sheared and crushed.					quantity of pyrrhotite is about 1–2% in volume.								
(46.33)			15	46.3 – 47.2 slightly crashed.													
(47.24)			65	micro-foldings.													
(48.77)			55														
(49.68)																	
50			60	50.0 – 50.9 sheared and crashed.													
(50.60)																	
(50.90)			80	numerous micro-foldings.					51.50 – 51.57 high concentration of po. in quartz matrix. 25% in volume.								
			51.90 10	51.50 – 51.57 brecciated and cemented by quartz.													
				51.90 – 63.80 CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE													
				(VERY LIMY UNIT)					pyrrhotite patches and lenses in phyllite foliation								
				pale greenish gray, leucocratic, medium-grained, finely					quantity of pyrrhotite is about 0.5% or less.								
				banded calcareous phyllite. pale green fine-grained													
(54.25)			85	chlorite layers up to 3 mm thickness is dominant.					54.15 – 54.20 pyrrhotite rich band. pyrrhotite band and irregular aggregate in phyllite foliation. about 15% pyrrhotite in volume.								
55																	
(55.79)			30	55.5 – 56.9 sheared to graphitic fragments.													
(56.69)			55														
			50						58.00 – 58.02 2cm band of pyrrhotite concentration almost concordant to phyllite foliation.								
(58.52)			50														
(59.44)				59.4 – 60.0 core sheared and crashed.													
60			60														

PAGE 5 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
60					CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE (continued)					po. dissemination and patches are up to 3% in volume.								
(60.66)			30							61.24 2cm thick pyrrhotite concentration in								
(61.57)										irregular dissemination. pyrrhotite quantity is								
(62.18)			50							about 10% in volume.								
(62.79)										61.54 0.5cm thick pyrrhotite concentration.								
(63.40)			45	63.80 – 70.80	CALCAREOUS CHLORITE-QUARTZ PHYLLITE													
			(63.80)		pale green gray, medium-grained, banded to nearly massive,													
(64.31)			45		calcareous chloritic phyllite.													
65					folding structures.													
			~~		65.55 – 65.75 sheared and crushed.													
(66.14)			~~		66.35 – 67.0 extensively sheared.													
			80															
(67.67)			70															
(68)			75															
70																		
			70.80	70.80 – 73.00	CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE					po. dissemination, thin patches and lenses								
					pale greenish dark gray, medium-grained, well-banded					are increased to 3%.								
(71.63)			70		phyllite. green chlorite bands are decreasing and													
					graphite is increased. transitional zone.													
			73.06	73.00 – 83.30	CALCAREOUS GRAPHITE-QUARTZ PHYLLITE													
			~~		dark to moderate gray, medium-grained, well-banded													
			~~		phyllite.													
(74.39)			85															
75			~~		74.8 – 76.7 sheared and crushed to flaky fragments													

PAGE 6 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C (Gr.)	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
75				CALCAREOUS GRAPHITE-QUARTZ PHYLLITE (continued)					very minor po. small patches and specs in and								
(75.79)									along graphitic layers. po. quantity is less than								
(76.20)			35						1%.								
				76.7 – 77.1 sheared and crushed. black graphitic clay													
(77.11)				and graphitic fragments.													
				77.6 – 78.4 sheared and crushed. black graphitic clay													
				and graphitic fragments.													
				77.11 – 77.49 gray, massive calcite-quartz vein.													
				79.7 – 79.9 sheared. gray to black graphitic clay.													
80																	
				micro-folding.													
(80.77)			40														
			55														
			83.30														
(83.21)			45	83.30 – 84.80 GRAPHITIC LIMESTONE													
		Ls		pale gray to white, massive to partly foliated, recrystallized													
				limestone with thin layers of calcareous graphitic phyllite.													
			84.80	84.80 – 88.32 CALCAREOUS GRAPHITE-QUARTZ PHYLLITE					very minor po. small patches and specs in and								
85				pale gray, finely banded with calcite-rich layers and graphite					along graphitic layers. po. quantity is less than								
			75	layers. layers are 0.2 to 3mm in thickness. maybe very					1%. occasional py. specs and veinlets.								
			75	minor biotite.													
(86.26)																	
			70														
(87.48)			75														
			70	88.32 – 129.40 CALCAREOUS CHLORITE-BIOTITE-GRAPHITE PHYLLITE					minor po. small patches and specs along layers.								
			88.32	pale brown gray, finely banded with calcite-rich layers,					po. quantity is less than 1%.								
			60	graphite layers and minor biotite plus pale green chlorite													
(89.31)				layers. layers are sometime brecciated.													
90																	

PAGE 7 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
90			75	CALCAREOUS-BIOTITE-GRAPHITE-CHLORITE-QUARTZ PHYLLITE					po. specs and thin patches in phyllite foliation.								
				(continued)					po. quantity is about 0.5 – 1%.								
(90.83)			45	well-banded with occasional thin limestone lenses													
				embedded in phyllite.													
			60														
				beddings are very clear. layers are sometimes brecciated.													
(93.88)			45														
95			50						po. quantity increases up to 2%.								
(95.10)			65	folding structure.													
				micro-folding structures.													
			60						po. quantity decrease to 0.5%.								
				97.83 – 98.13 limestone bed. White massive recrystalized													
(98.15)				limestone with minor chlorite.													
				numerous boudin-like structures.													
			55														
100			15						po. tiny thin patches along foliation of phyllite.								
									quantity of po. is about 1% in volume.								
(101.19)			75														
			80														
				well-banded structure.													
			45														
(104.24)			65														
105			60														

PAGE 8 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
105			50	CALCAREOUS BIOTITE-GRAPHITE-CHLORITE-QUARTZ PHYLLITE pale brownish dark green to gray, well-banded, calcareous.			C		minor po. patches along foliation and po.-chlorite fine gash veins. po. quantity is about 2%.								
			50	106.14 – 106.50 pale gray, coarse-grained, quartz vein. cutting angles are 60° – 70° pale green chlorite patches in quartz.			C										
(106.68)			40	107.52 – 108.12 pale gray, coarse-grained, quartz vein. cutting angles are 70°–80° irregular boundary.			C										
			80				C										
(109.73)			80	quantity of chlorite increasing.			C										
110			80				C										
				0.5~4cm thickness recrystallized limestone lenses in phyllite.			C										
(112.17)			80	chlorite grains are coarser.			C										
(113.08)			85				C										
			70				C										
(114.31)			90				C										
115			80				C		minor po. patches and specs along foliation and po.-chlorite fine gash veins. po. quantity is about 2%.								
			80				C										
(117.96)			75	calcareous band and chlorite-rich band are well-bedded.			C										
			75				C										
120			70				C										

PAGE 9 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
120			70	CALCAREOUS- BIOTITE- GRAPHITE- CHLORITE- QUARTZ PHYLLITE					po. patches and specs along foliation. po. quantity								
				120.8 3cm sheared.					is less than 2%.								
(121.01)			30	121.4 micro-folding.													
			60														
				well-banded chlorite phyllite. partly graphite quantity is													
			65	higher than that of chlorite.													
			60														
(124.05)			80	124.25 – 124.38 pale gray, coarse-grained quartz vein.													
125			75														
			60						po. patches and specs and occasional gash veinlet								
									po. quantity is less than 1%. occasional py.								
			60	125.82 – 126.66 pale gray, coarse-grained quartz veins.					specs.								
(127.10)			35	minor po. disseminated.													
			10														
			129.40														
130				129.40 – 158.40 CALCAREOUS - BIOTITE-CHLORITE- GRAPHITE QUARTZ PHYLLITE													
(130.15)			60	pale gray to gray, medium-grained, well-banded calcareous					almost no sulphides. maybe less than 0.5%.								
				phyllite. minor hair veinlets of calcite scatters through.													
			45	0.5 – 3cm thickness limy lenses are sometimes enbedded													
				along foliation.													
			~~														
(133.20)																	
			~~														
(134.42)			45	134.3 – 134.4 sheared and crushed. black graphitic clay													
135				and flaky fragments.													

PAGE 10 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
135			65	CALCAREOUS-BIOTITE-CHLORITE-GRAPHITE-QUARTZ PHYLLITE (continued)					minor po. patches and specs. about 1% po. quantity.								
			30	pale brownish gray, medium-grained, well-banded, calcareous phyllite.													
(137.46)			25														
			40	foliation waved from 30° to 0°.													
				139.9 micro-folding.													
140			15						quantity of py. specs and patches increased.								
(140.51)				foliation partly brecciated and cemented by calcite and quartz matrix.					about 0.5% po. and 0.5% py.								
			45														
(143.56)			15														
145			25	quantity of graphite increased.					quantity of sulphides increased. about 1% po.								
(145.39)			45						and 1% py.								
									Sulphides appear as tiny patches in phyllite and veins								
(146.61)			35						or hair veinlets with quartz cutting phyllite bedding.								
									145.7 – 146.1 higher concentration of sulphide								
			80						up to 3% (2% py. and 1% po.).								
150			70														

PAGE 11 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
150			20	CALCAREOUS BIOTITE-CHLORITE-GRAPHITE-QUARTZ PHYLLITE					up to 2% sulphides (1% po. and 1% py.).								
				150.8 – 153.7 crushed													
				151.6 – 151.8 pale gray, coarse-grained quartz vein.													
				biotite is almost disappear.													
(153.01)			20	153.6 – 153.8 pale gray, coarse-grained quartz vein.													
				minor pale green chlorite patches in quartz. angle is													
(154.53)			50	about 20° and concordant to phyllite foliation. minor													
155				po. disseminated in quartz.													
				155.6 – 156.0 sheared and crushed to graphitic													
(156.06) July 30 12:00 noon			20	fragments.													
				156.3 – 156.4 9cm gray quartz vein. angle is about													
				70° and concordant to phyllite foliation. aggregates													
			157.67 25	of coarse-grained po. in quartz.					157.67 – 158.22 high concentration of po. in phyllite.								
			158.22 158.40 15	156.4 – sheared and brecciated to graphitic					po. appears as coarse-grained aggregates concordantly								
				clay and fragments. minor subrounded quartz breccias in					along phyllite foliation and irregular mass cutting the								
			45	gauge.					foliation. po. quantity is up to 8%. minor specs								
160			45	158.40 – 171.10 CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE					of chalcopyrite (ø 1–3mm) appears.								
(160.32)			35	pale greenish gray to grayish green, medium-grained,					almost no sulphide in calcareous graphite-								
				finely banded, calcareous phyllite.					chlorite-quartz phyllite.								
			70														
(163.07)			50														
165																	

PAGE 12 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
165			55	CALCAREOUS GRAPHITE-CHLORITE-QUARTZ PHYLLITE					very minor sulphides (po. and py.) in calcareous								
				(continues)					chlorite-quartz phyllite. maybe less than 1%.								
(165.81)				pale greenish gray, medium-grained, banded, calcareous.													
				166.88 – 167.03 sheared to black green clay and													
(167.03)			80	fragments.													
				167.5 – 169.0 sheared and crushed.													
(169.16)			60														
170																	
(170.08)																	
			171.10 60						170.95 0.5cm po. and py. aggregate band in								
				171.10 – 181.85 CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE					phyllite, angle 55°.								
(171.91)				dark gray to gray, medium-grained, finely banded.					euhedral 0.5 – 3mm pyrite crystals scatters through								
				bands are 1 to 3mm thickness. occasional limestone					graphite-quartz phyllite. po. less than 1%, py.								
(172.52)				lenses up to 1cm thickness are embedded in phyllite.					about 1 – 2%.								
			50														
175									around 175. numerous euhedral pyrite								
									crystals up to 3mm.								
(175.56)			22														
									fine-grained po. in foliation of phyllite. about								
			25	177.1 – less limestone lenses and increasing graphite					3% in volume.								
				quantity. core slightly crushed.													
(177.70)																	
(178.61)			25														
									po. quantity increasing up to 3%.								
180			35														

PAGE 13 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
180				CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE (continued)					pyrrhotite thin patches and specs along phyllite foliation. pyrrhotite quantity is about 2%. maximum 3%. occasional pyrite specs.								
(180.75)																	
			181.85	181.85 – 182.30 QUARTZ-CALCITE VEIN (CALC-SILICA LAYER?) milky white to pale gray, massive quartz vein. no sulphide minerals.													
(182.27)			182.30														
(183.78)				182.30 – 188.20 CALCAREOUS CHLORITE-GRAPHITE-QUARTZ PHYLLITE dark greenish gray, medium-grained, finely banded calcareous phyllite.					pyrrhotite appears as small po.-quartz gash vein and thin patches along phyllite foliation. pyrrhotite quantity is about 1–2%.								
			30														
(184.71)			40														
185																	
(185.62)			45	very well-banded phyllite.													
(187.15)			35														
			188.20	188.20 – 190.46 GRAPHITE-CHLORITE-QUARTZ PHYLLITE pale greenish gray, medium-grained, well-banded, non-calcareous or less calcareous phyllite.													
(188.36)			35														
			35	189.95 – 190.09 py.-po.-calcite-quartz vein. irregular.					189.95 – 190.09 po. and py. 40% in quartz.								
190			190.46	190.46 – 193.70 CHLORITE-GRAPHITE-PYRRHOTITE-QUARTZ VEIN(?) pale gray, coarse-grained, massive quartz with chlorite-graphite-quartz phyllite fragments. boundary is deformed and irregular. syngenetic siliceous layer? pyrrhotite occurs in very fine-grained, irregular aggregate mass in quartz or phyllite and veinlets up to 5mm in width cutting foliation of phyllite and in quartz matrix.					190.46 – 193.70 po. and less py. in quartz. minor chalcopyrite and arsenopyrite specs. 190.46 – 190.78 po.-py.-qtz. sulphides. 5%. 191.11 – 191.53 white qtz. no sulphide. 191.92 – 192.04 po.-py.-qtz. sulphides 25%. 45° 193.04 – 193.70 po.py. qtz. sulphides 25%. max 30% 193.41 – 193.65 high concentration of fine-grained pyrite and pyrrhotite in quartz. irregular aggregate and hair veins of coarser pyrrhotite.								
(190.50)			190.78														
(191.11)			191.11														
			191.53														
(191.92)			192.04								minor specs of arseno pyrite.						
			193.04														
(193.24)			193.70														
(194.16)			70	193.70 – 214.88 GRAPHITE-CHLORITE QUARTZ PHYLLITE pale greenish gray, medium-grained, well-banded, non-calcareous phyllite. quantity of chlorite increasing.													
195			45														

PAGE 14 OF | PROJECT CLEAR LAKE | HOLE No. 93-81

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION Gr. C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
195				GRAPHITE-CHLORITE-QUARTZ PHYLLITE (continues)					pyrrhotite patches and specs in phyllite.								
				194.9 – 196.0 sheared and crushed to flaky fragments.					quantity is about 1% in volume.								
(195.99)				numerous micro-foldings.													
			45														
				197.3 – 197.5 massive gray irregular quartz vein.													
				197.8 – 198.0 gray massive irregular quartz vein.													
(199.34)			45	numerous micro-folding and quartz injection lit per lit style.													
200			20						pyrrhotite is almost less than 0.5% in volume.								
(201.78)			40	numerous micro-folding.													
			30														
(204.52)			60														
205			55	205.2 – 206.0 sheared and crushed.													
(206.04)									Pyrrhotite thin patches and specs in phyllite foliation. quantity is about 1-2% in volume.								
				numerous micro-folding.													
(208.70)																	
210			80														

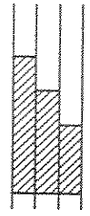
PAGE 15 OF 15 | PROJECT CLEAR LAKE | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
210				GRAPHITE-CHLORITE-QUARTZ PHYLLITE (continues) numerous irregular micro-foldings. 210 – quartz veins intrude lit per lit in phyllite.					211.7 po. thin layers and lenses in phyllite foliation. po. quantity is 1-0.5% in volume.								
			60														
			80														
(212.75)				213.2 – 213.9 sheared and crushed													
(213.97)																	
215			75	214.88 m End of the hole.													

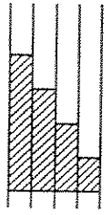
TOTAL ENERGOLD CORPORATION

DRILL LOG

PROJECT: CLEAR LAKE	GROUND ELEV.: 681.0 m
HOLE No.: 93-82	BEARING: 28°
LOCATION: Line 0+00 20+15N Area 4	DIP: -60°
	TOTAL LENGTH: 146.0 m
LOGGED BY: MINORU MACHIDA	HORIZONTAL PROJECT
DATE: 4 August '93	VERTICAL PROJECT
CONTRACTOR: KULUANE DRILLING	ALTERATION SCALE
CORE SIZE: NQ	
DATE STARTED: 1st August '93	
DATE COMPLETED: 4 August '93	TOTAL SULPHIDE SCALE
DIP TESTS: 68.88 m : 58.8° ; 129.84 m : 63.6°	



absent
slight
moderate
intense



< 1%
1%—5%
5%—25%
25%—50%
< 50%

DRILL CALCULATIONS/HOLE SUMMARY

PURPOSE OF HOLE: To check the area which has magnetic high and resistivity low relatevely.

REASON TO SHUT: Hole encounter graphitic phyllite which contain minor pyrrhotite and pyrite.

GEOLOGY SUMMARY

0 – 17.2 m	OVERBURDEN
17.2 – 24.4 m	SILICEOUS ROCK
24.4 – 35.3 m	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE
35.3 – 37.5 m	SILICEOUS ROCK
37.5 – 53.2 m	CHLORITE – GRAPHITIC LIMESTONE
53.2 – 70.5 m	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE.
70.5 – 77.4 m	CALCAREOUS GRAPHITE – CHLORITE – Qtz. PHYLLITE.
77.4 – 88.6 m	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE.
88.6 – 89.1 m	Qtz. SEGREGATION or INJECTION VEIN.
89.1 – 122.8 m	CALCAREOUS BIOTITE – CHLORITE – GRAPHITE – Qtz. PHYLLITE
122.8 – 146.0 m	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE

E.O.H.

PAGE 1 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
0																	
1				0 – 17.2 m OVERBURDEN													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

PAGE 2 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
15																	
16																	
17 (17.1)																	
17.2m				17.2 - 24.4m SILICEOUS ROCK Light gray - gray, very fine grained Qtz or amorphous silica segregation or injection Vein.					17.2 - 24.4m : Section contain 5% very fine grained sulphide (pyrrhotite). 1mm to 1cm wide.								
18																	
19																	
20 (20.1)																	
21																	
(21.6)																	
22 (22.3)																	
23																	
(23.4)			50														
24.4m				24.4 - 35.3m CALCAREOUS CHLORITE - GRAPHITE Qtz. PHYLLITE					24.4 - 35.3m : Sulphide (pyrrhotite) . <1% dissemination.								
25																	
26 (26.2)			30	Gray to dark gray, fine laminated phyllite. Locally lamination unclear.													
27				Graphite > Chlorite, <1mm to 3mm wide, interbeds about 30%. medium calcareous					27.1 - 28.0m : Strongly sheared with black gouge.								
28 (28.0)																	
29				28.6 - 28.9m : Qtz-segregation Vein, 30cm wide, top contact 40°, bottom 70°?													
(29.6)			10														
30																	

PAGE 3 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
30																	
(30.8) 31			0						29.6 – 35.7m : moderately sheared with black gouge.								
(31.4)			0														
32 (32.0)			5														
33 (32.9)				33.5 – 35.3m : Qtz – cal segregation Vein 1cm to 2cm wide, top & bottom contact 0 – 10°, with <1% pyrrhotite.													
34 (34.4)			10														
35 (35.1)			35.3m	35.3 – 37.5m SILICEOUS ROCK					35.3 – 37.5m : Section contain 2% sulphide (pyrrhotite).								
(35.7) 36 (36.0)			20	Light gray to gray, very fine grained qtz. or amorphous silica segregation or injection Vein with fine cal. Vein. Top contact 5-10°,													
37 (37.5)			40 37.8m														
38									38.0 – 39.9m : weak – moderately sheared								
(38.7)			30	37.5 – 53.2m CHLORITIC – GRAPHITIC LIMESTONE													
			5						39.3m : Qtz. Vein with green color chlorite, 10cm wide, contain 1% Pyrrhotite. Top contact 50° bottom contact 10°								
40				Dark gray and white stripe laminated limestone. Graphite >> chlorite, 1mm to 7mm wide, interbeds 30 to 40%													
41 (41.8)			10														
42																	
43 (43.3)			5						42.7 – 45.2m : weak – moderately sheared								
44																	
45																	

PAGE 4 OF 10 | PROJECT | HOLE No.

DEPTH METERS (95-1)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
45																	
46									46.1 – 47.3m : weakly sheared								
47			5														
(47.5)																	
48																	
49			5														
50																	
(50.3)			5														
51			3						51.3 – 55.1m : Fine graine pyrrhotite and pyrite 1 to 2% disseminated in graphitic laminae. Sulphide being coarser grained and concentrated in quartz rich laminae.								
52																	
53			53.2m	53.2 – 70.5m	CALCAREOUS CHLORITE – GRAPHITE – Qtz. PHYLLITE												
(53.5)			5														
			3		Dark gray – dark greenish gray laminated phyllite. Medium calcareous. Graphite, 1mm up to 5cm wide, average 5mm wide, interbeds 40 to 50%, with up to 10% chloritic laminae.												
55																	
56									58.1 – 58.5m : Qtz vein or amorphous silica injection vein with 1% sulphide. Top contact 20°, bottom 30°								
(56.4)			0														
57									58.5 – 61.5m : 1% fine pyrrhotite dissemination in Graphitic laminae.								
58			5														
(58.5)																	
59									57.0 – 59.5m : weakly sheared								
60			0														

PAGE 5 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
60									59.9 - 61.5m : moderately sheared.								
61 (61.3)			5														
62																	
63 (63.1)			20 40	63.1 - 66.4m : increasing chlorite to 10%													
64									63.8 - 64.1m : Strongly core broken								
65																	
66 (65.8)			45						66.4 - 70.5m : 1 to 2% fine grained pyrrhotite dissemination in graphitic laminae.								
67 (67.4)			40														
68																	
69 (69.0)			30														
70			45														
70.5m				70.5 - 77.4m CALCAREOUS GRAPHITE - CHLORITE - Qtz PHYLLITE					70.6 - 72.6m : moderately core broken								
71 (71.0)									73.0 - 74.0m : moderately - strongly sheared with black gouge								
72			5	Gray to light gray, relatively fine laminated phyllite. Medium calcareous.					73.2 - 74.4m : Qtz vein or amorphous silica vein, 5mm to 2cm wide, includes coarser grained pyrrhotite 5%.								
73 (73.2)				Chlorite, <1mm to 5mm wide, interbeds 30%. Graphite, 1mm to 7mm wide, interbeds 10%, locally 30%.													
74 (74.4)			0						Top contact 10°, bottom contact 0°?								
75																	

PAGE 6 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
75			10						74.4 - 77.4m : 1% pyrrhotite being coarser grain and concentrated in qtz. rich laminae.								
76																	
77			30														
(77.4)			77.4m														
78			40	77.4 - 88.6m CALCAREOUS CHLORITE - GRAPHITE - Qtz. PHYLLITE.					77.4 - 84.7m : 2% pyrrhotite disseminated in graphitic laminae. Sulphide being coarser grained in qtz. rich laminae relatively.								
(78.3)																	
79			40	Black to dark gray, laminated phyllite. Medium calcareous.													
80																	
(80.8)			45	Graphite, 1mm up to 5cm, average 3mm wide interbeds average 30%. Chlorite much less than graphitic.					77.4 - 78.3m : moderately core broken.								
81									79.0 - 86.2m : weakly - moderately core broken								
(81.7)			30														
82									86.2 - 87.6m : moderately - strongly sheared with black gouge.								
83																	
(83.3)			50														
(84.1)			50														
85									84.7 - 88.6m : 1% pyrrhotite dissemination								
86			70														
87																	
(87.1)																	
88			70	88.6 - 89.1m Qtz. SEGREGATION or INJECTION VEIN													
(88.4)																	
88.6m																	
89			60	White qtz. segregation vein, top contact 40° bottom ?. Vein includes graphite phyllite locally.													
89.1m																	
90																	

PAGE 7 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
90 (90.2)			60						90.8 - 92.0m: moderately sheared								
91 (91.4)			60	89.1 - 122.8m CALCAREOUS BIOTITE - CHLORITE - GRAPHITE PHYLLITE - Qtz													
92			50	Black to brownish gray and white stripe laminated phyllite. Very calcareous.													
93 (93.3)			50	Graphite : Chlorite : Biotite = 20% : 7% : 7%													
94				Graphite, 2mm up to 7cm wide, average 5mm wide, interbeds about 20%													
95			50														
96 (95.7)			60	94.8 - 101.6m: Section increasing biotite to 10%, decreasing graphite 10%													
97			45						97.6m: Qtz. segregation vein, 10cm wide, Top contact 40°, bottom contact 40°								
98 (98.2)			30														
99			45						99.0 - 99.2m: Qtz. segregation vein, 20cm wide, Top & bottom contact 40°.								
100																	
1			40														
2 (101.8)			50														
3			80	102.9 - 103.3m: decreasing graphite + chlorite + biotite to 10%.													
4			70														
105			80														

PAGE 8 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
105																	
6			70														
7			40														
8 (108.2)			30						107.2 – 111.9 m: 2 to 3% pyrrhotite, locally up to 5%, disseminated in graphitic laminae. Section increasing graphite up to 50%.								
9			40														
110			40														
11 (111.9)			35														
12			45														
13 (113.5)			40	112.3 – 115.4 m: non-weak calcareous.													
			70														
115																	
16 (115.8)			70														
17			60														
18			70														
19 (118.9)			60														
120			80														

PAGE 9 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
120																	
121			60						111.9 - 122.8m : pyrrhotite dissemination up to 1%.								
122	(121.9)		50														
123	(122.2)		122.8m 50	122.8 - 146.0m CALCAREOUS CHLORITE - GRAPHITE - QTZ PHYLLITE					122.8 - 146.0m : <1% pyrrhotite dissemination. Section contain local 3% pyrrhotite in graphitic laminae or qtz rich part.								
124	(124.4)		50	Dark gray to gray, stripe laminated, very calcareous, phyllite													
125			45														
126			60	Graphite, <1mm to 5mm wide, average 2mm wide, interbeds about 20% with chlorite. Chlorite interbeds less than 5%.					123.9 - 126.6m : moderately - strongly sheared, bottom contact 20°								
127	(127.4)		50						126.5 - 126.6m : black gouge.								
128			42														
									127.2 - 130.5m : moderately core broken.								
129	(129.2)																
130																	
	(130.5)		60														
131			30														
132			30						132.2 - 132.6m : strongly sheared								
	(132.4)																
133			10														
134	(133.8)																
135																	

PAGE 10 OF 10 | PROJECT | HOLE No.

DEPTH METERS	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	FRACT INTENSITY	MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS
135 (135.3)			10	133.8 – 146.0m: Section contain 15% Qtz segregation Vein, 1cm up to 20cm wide, with local black gouge.					135.4 – 140.0m: Strongly sheared with black gouge.								
36 (136.9)																	
37				135.3 – 135.55m: Qtz. Segregation Vein Top & bottom contact 10°													
38 (138.4)																	
39																	
140			70														
(140.3)									140.2 – 144.5m: Strongly to moderately sheared.								
41 (141.1)																	
(141.9)			50														
42 (142.5)																	
43 (143.3)																	
44 (144.5)			70														
145				145.6 – 145.8m: Qtz. segregation Vein Top & bottom contact 75°													
146.0			70														
E.O.H																	

needs approval

COPY 1

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Hachey
MINFILE #: 105L 030
MAJOR COMMODITIES: Pb,Zn
MINOR COMMODITIES: Cu
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 14
LATITUDE: 62°47'47"N
LONGITUDE: 135°04'50"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

DRUM, GLEN, AB, SUE, CLEAR

WORK HISTORY

The initial staking in this area, situated 1.6 km to the southwest, consisted of Drum cl (Y8270) in Jun/66, following airborne Mag and EM surveys by Conwest EL, which explored with prospecting, limited geochemical and geophysical surveys and two holes (83.5 m) later in the year. Restaked by Glenlyon ML as Glen cl (Y34947) in May/69 and as AB cl (Y52118) in Jun/70.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV, which explored with lake bottom sediment sampling and extensive linecutting (bulldozer), EM, mag and gravity surveys in 1975 to 1977 and one hole (137.2 m) on claim 570 in 1978. The interests of the Conwest Syndicate were acquired early in 1980 by Getty Mg.

The Sue claims were abandoned and restaked as Clear etc cl (YB25815, YB25836) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. In 1991, the property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling, and further geological, geochemical and geophysical surveys were carried out in 1992.

The Clear and Sue cl were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are situated in a wide, flat, largely overburden-covered valley along the Tintina Fault. The 1966 holes cut highly faulted metasedimentary rocks and one hole intersected 0.45 m of massive sulphides which assayed 0.48% Pb, 0.14% Zn, 0.03% Cu and trace gold and silver.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 67-40, p. 34.

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Kelly
MINFILE #: 105L 041
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 105 L 15
LATITUDE: 62°47'23"N
LONGITUDE: 134°59'41"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

GUN, SUE, MAC, OZ, CLEAR

WORK HISTORY

Staked as Gun cl (Y9429) in Jun/66, following airborne mag and EM surveys by Conwest EL, which explored with prospecting, limited geochemical and geophysical surveys and 3 holes (340.2 m) later in the year.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Seaforth ML tied on Mac and Oz cl (Y91435) to the southeast in Oct/74. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV which performed lake bottom sediment sampling and extensive linecutting (bulldozer), mag, EM and gravity surveys in 1975, 1976 and 1977. Macmillan JV drilled one hole (194.2 m) 0.8 km to the west on claim 453 and one hole (135.9 m) 1.6 km to the east on claim 201 in 1978.

The Conwest syndicate interest was acquired early in 1980 by Getty ML, which added more claims and performed geochem, geophysical and linecutting in 1981, and soil sampling, linecutting and diamond drilling in 1984.

The Sue claims were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. In 1991, the property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling, and further geological, geochemical and geophysical surveys were carried out in 1992.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. Several of these claims were transferred to Mitsui Kinzoku Resources of Canada in April/93. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are situated in a wide, flat, largely overburden-covered valley along the Tintina Fault. The 1966 holes cut Cambro-Ordovician phyllitic limestone and intercalated graphitic phyllite, covered by 8 to 20 m of overburden. Traces of pyrite and pyrrhotite were noted in graphitic sections. The area of interest is 1000 by 1500 m and is marked by lead and zinc soil anomalies that coincide with an EM conductor.

REFERENCES

MACMILLAN JOINT VENTURE, Aug/81. Assessment Report #090851 by C.W. Payne.

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Tredger
MINFILE #: 105L 042
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 14
LATITUDE: 62°49'50"N
LONGITUDE: 135°05'37"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

LK, SUE, LYN, GETA, GELD, CLEAR

WORK HISTORY

Staked as LK cl (Y9203) in Jun/66, following airborne mag and EM surveys by Conwest EL, which explored with prospecting and limited geophysical and geochemical surveys in 1966 and one 91.4 m hole in 1967.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Seaforth ML tied on Lyn cl (Y91307) to the northeast in Oct/74. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV, which performed lake bottom sediment sampling and extensive linecutting (bulldozer), mag, EM and gravity surveys in 1975 to 1977 and drilled 2 holes (328.6 m) 3.2 km to the northwest on claims 761 and 785 in 1978. The Conwest syndicate interests were acquired early in 1980 by Getty ML, which tied on Geta & Geld cl (YA49130) in Jun/80.

The Sue claims were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. In 1991, the property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling, and further geological, geophysical and geochemical surveys were carried out in 1992.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are in a wide, flat, largely overburden-covered valley along the Tintina Fault, and are probably underlain by metasedimentary rocks. Results of drilling are not available.

REFERENCES

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Conwest
MINFILE #: 105L 043
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 14
LATITUDE: 62°50'05"N
LONGITUDE: 135°14'39"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

MAC, SUE, CLEAR

WORK HISTORY

Staked as Mac cl (Y9233) in Jun/66, following airborne mag and EM surveys by Conwest EL, which explored with prospecting and limited geochem and geophysical surveys in 1966 and one 193.5 m hole in 1967.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV, which performed lake bottom sediment sampling and extensive linecutting (bulldozer), mag, EM and gravity surveys in 1975 to 1977 and drilled 2 holes (321.9 m) about 4 km to the northwest on claim 273 and 844 in 1978.

Getty ML acquired the interests of the Conwest syndicate early in 1980. The Sue claims were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. The property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd in 1991, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling. An additional 76 Clear cl (YB36109) were staked in Jul/91, and further geological, geochemical and geophysical surveys were carried out in 1992.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are situated in a wide, flat, largely overburden-covered valley along the Tintina Fault, and are probably underlain by metasedimentary rocks. Results of drilling are not available.

REFERENCES

MINERAL INDUSTRY REPORT 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Clear Lake
MINFILE #: 105L 045
MAJOR COMMODITIES: Zn,Pb,Ag
MINOR COMMODITIES: Ba
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 1
LATITUDE: 62°47'08"N
LONGITUDE: 135°07'49"W
DEPOSIT TYPE: Sedex
STATUS: Deposit

CLAIMS (PREVIOUS AND CURRENT)

SUE, RSVP, PVA, PELLY, CLEAR

WORK HISTORY

The property was first staked as part of a 1000 claim block in 1965, following the discovery of the Faro orebody 80 km to the southeast. Limited prospecting, mapping and ground EM surveys were carried out, and six EM anomalies were tested by AQ diamond drilling. One of these drillholes intersected 0.45 m of massive pyrite, but the claims were allowed to lapse.

Staked as part of a block of 1070 Sue cl in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Farday and Int Mogul ML) and Teck Corp L. Essex Mls L (U.S. Steel) acquired the Teck interest early in 1975 and formed the Macmillan JV, which conducted extensive linecutting (bulldozer), lake bottom sediment sampling, EM, mag and gravity surveys from 1975 to 1977, and drilled one hole (109 m) 3.2 km to the northwest on claim 645 in 1978 which resulted in the discovery of the massive sulphide deposit.

Subsequent exploration included 17 holes (2531 m) in 1978, ground mag and EM surveys, airstrip construction and 10 holes (2481 m) in 1979, mapping, EM, gravity and geochem sampling in 1980, EM, mag, soil and lake bottom geochemical surveys and 5 holes (1799 m) in 1981 and linecutting, geochem, EM and gravity surveys and 6 holes (1981 m) in 1982. The Conwest Syndicate's interest was acquired by Getty Can Met L in the spring of 1980. In 1983, 11 holes (3055 m) were drilled in the deposit and 5 holes (679 m) tested outlying geophysical anomalies. A further NQ hole (457 m) was drilled in 1984.

Welcome North tied on RSVP, PVA and Pelly cl (YA25299) in Aug/79 and optioned these to E & B Expl Inc (Pelly Project), which explored with airborne mag and EM surveys and geochemical sampling in 1980.

Most of the Sue cl surrounding the showing were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, which also purchased Conwest's NPI interest. Total Energold added more Clear claims in Apr/90 and evaluated 18 target areas with geochemistry and mapping later in the year. The geochemistry included hand-augered soil samples and 35 samples of glacial overburden collected down-ice from the deposit using an overburden drill. The property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd in 1991.

Work in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling. An additional 76 Clear cl (YB36109) were staked in Jul/91 and exploration in 1992 included surface mapping, soil sampling, trenching, linecutting and IP, gravity and Power Line magnetotelluric surveys and 3100.1 m of diamond drilling in 10 holes.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The Clear Lake deposit is a massive sulphide lens 5 to 30 m thick, which contains approximately 27 million tonnes of sulphide (mostly pyrite) including a geological reserve of 6.1 million tonnes grading 11.34%

GEOLOGY (CONTINUED)

Zn, 2.15% Pb and 40.8 g/t Ag, using a cutoff grade of 7% combined Zn-Pb. The deposit is hosted by carbonaceous argillite, siltstone, chert and tuff of the Devono-Mississippian Earn Group.

The property is bisected by the Tintina Fault. North of the fault are phyllite of the Lower Cambrian Mt Mye Formation and calcareous phyllite and limestone of the Cambro-Ordovician Vangorda Formation. South of the fault are Ordovician to Lower Devonian Road River Group shale, and the Devono-Mississippian Earn Group clastic rocks which host the Clear Lake deposit. Glacial overburden 5 to 26 m thick covers the property, and the geology is known mainly from drillholes and interpretations of geophysical surveys.

The main sulphide body was discovered in 1978 while drilling a 3 mgal residual gravity anomaly. The gravity anomaly coincides with magnetic and EM anomalies and is situated beside a small acidic lake containing geochemically anomalous lake bottom sediments. Lake bottom samples assayed up to 19 000 ppm Zn, 1.2 ppm Ag and 20 to 40 ppm Cu. A subtle gossan was later recognized over the target.

The deposit is sigmoidal in shape, approximately 1000 m long and up to 100 m thick, and pinches at depth. It dips steeply to the east, and Bouma sequences in drill core indicate that it is overturned. Sulphide minerals are laminated and consist largely of framboidal pyrite which is slumped and fragmented in places. The best drill intersection assayed 18.3% Zn, 2.15% Pb and 58.6 g/t Ag across 13 m. Tuffaceous rocks intercalated with the sulphides reach a thickness of 30 m in the original footwall, stratigraphically beneath the main massive sulphide lens. The tuff exhibits relict pyroclastic texture, with both matrix and fragments largely altered to soft grey clay, and local concretions of galena, sphalerite, barite, siderite and calcite.

Argillite which lies stratigraphically beneath the overturned footwall tuff is silicified to a depth of 90 m below the deposit. The overturned hanging wall is formed by a layer of argillite which is silicified so extensively it resembles mottled to laminated chert. Irregular pyrite stringers and masses are common throughout both the hanging wall and footwall argillite. Massive barite in several drillholes appears to be peripheral to the deposit and forms a partial cap over it. Barite and tuff lenses intersected at depth in the 1991 drillholes indicate that there is potential for another sulphide lens below the main orebody.

A trace element study of the tuffaceous rocks by Jim Morin of DIAND revealed high Ti and P contents and high K_2O/Na_2O ratios, consistent with an alkaline volcanic environment. The mineral deposit is inferred to be an exhalative deposit related to Devonian rifting. Worm tubes replaced by quartz and calcite surrounded and partly replaced by sphalerite and pyrite have been found in drill core, and the sulphides are believed to have precipitated from a hydrothermal fluid hotter than 350°C which mixed with cold seawater at a black smoker vent.

Soil sampling using hand augers and an overburden drill in 1990 located anomalies in several new areas. North of the Tintina Fault, stratiform galena and sphalerite outcrop at the transition between Mt Mye and the Vangorda Formation rocks, the same stratigraphic level as the Faro deposits. Specimens from this area assayed up to 2.68% Zn, 0.78% Pb and 13.7 g/t Ag.

Drilling in 1992 showed that some gravity anomalies are due to bedrock highs adjacent to conductive graphitic shear zones which trend east-west through the main deposit. No new massive sulphide lenses were discovered.

REFERENCES

BASNETT, R., 1991. Geology and Mineralization of the Clear Lake Deposit, Yukon. Text of talk presented at Whitehorse Geoscience Forum, Dec/91.

ENERGOLD MINERALS INC., Dec/93. Assessment Report #093145 by H.W. Sellmer et al.

GEORGE CROSS NEWSLETTER, 4 Mar/91.

GRAPES, K.J., 1987. Lithologic and Textural study of the Clear Lake Fe-Zn-Pb-Ag massive sulphide deposit, Yukon Territory, Canada. M.Sc. Thesis, Carleton University, Ottawa.

KENT, G., 1979. Clear Lake Deposit. Talk presented at the Seventh Geoscience Conference, Whitehorse, 2 Dec/79.

MCCOLL, K.M., 1981. Lithogeochemical study of the Clear Lake massive sulphide body. B.Sc. Thesis, University of Waterloo, 1981.

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

TOTAL ENERGOLD CORP., Dec/90. Assessment Report #092895 by R. Basnett.

TOTAL ENERGOLD CORP./MITSUI KINZOKU RESOURCES LTD, Feb/92. Assessment Report #093013 by R. Basnett.

TOTAL ENERGOLD CORP., 6 Nov/92. Executive summary of 1992 exploration: Fax to R. Deklerk, DIAND.

needs approval

COPY 2

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Hachey
MINFILE #: 105L 030
MAJOR COMMODITIES: Pb,Zn
MINOR COMMODITIES: Cu
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 14
LATITUDE: 62°47'47"N
LONGITUDE: 135°04'50"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

DRUM, GLEN, AB, SUE, CLEAR

WORK HISTORY

The initial staking in this area, situated 1.6 km to the southwest, consisted of Drum cl (Y8270) in Jun/66, following airborne Mag and EM surveys by Conwest EL, which explored with prospecting, limited geochemical and geophysical surveys and two holes (83.5 m) later in the year. Restaked by Glenlyon ML as Glen cl (Y34947) in May/69 and as AB cl (Y52118) in Jun/70.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV, which explored with lake bottom sediment sampling and extensive linecutting (bulldozer), EM, mag and gravity surveys in 1975 to 1977 and one hole (137.2 m) on claim 570 in 1978. The interests of the Conwest Syndicate were acquired early in 1980 by Getty Mg.

The Sue claims were abandoned and restaked as Clear etc cl (YB25815, YB25836) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. In 1991, the property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling, and further geological, geochemical and geophysical surveys were carried out in 1992.

The Clear and Sue cl were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are situated in a wide, flat, largely overburden-covered valley along the Tintina Fault. The 1966 holes cut highly faulted metasedimentary rocks and one hole intersected 0.45 m of massive sulphides which assayed 0.48% Pb, 0.14% Zn, 0.03% Cu and trace gold and silver.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 67-40, p. 34.

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Kelly
MINFILE #: 105L 041
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 105 L 15
LATITUDE: 62°47'23"N
LONGITUDE: 134°59'41"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

GUN, SUE, MAC, OZ, CLEAR

WORK HISTORY

Staked as Gun cl (Y9429) in Jun/66, following airborne mag and EM surveys by Conwest EL, which explored with prospecting, limited geochemical and geophysical surveys and 3 holes (340.2 m) later in the year.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Seaforth ML tied on Mac and Oz cl (Y91435) to the southeast in Oct/74. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV which performed lake bottom sediment sampling and extensive linecutting (bulldozer), mag, EM and gravity surveys in 1975, 1976 and 1977. Macmillan JV drilled one hole (194.2 m) 0.8 km to the west on claim 453 and one hole (135.9 m) 1.6 km to the east on claim 201 in 1978.

The Conwest syndicate interest was acquired early in 1980 by Getty ML, which added more claims and performed geochem, geophysical and linecutting in 1981, and soil sampling, linecutting and diamond drilling in 1984.

The Sue claims were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. In 1991, the property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling, and further geological, geochemical and geophysical surveys were carried out in 1992.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. Several of these claims were transferred to Mitsui Kinzoku Resources of Canada in April/93. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are situated in a wide, flat, largely overburden-covered valley along the Tintina Fault. The 1966 holes cut Cambro-Ordovician phyllitic limestone and intercalated graphitic phyllite, covered by 8 to 20 m of overburden. Traces of pyrite and pyrrhotite were noted in graphitic sections. The area of interest is 1000 by 1500 m and is marked by lead and zinc soil anomalies that coincide with an EM conductor.

REFERENCES

MACMILLAN JOINT VENTURE, Aug/81. Assessment Report #090851 by C.W. Payne.

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Tredger
MINFILE #: 105L 042
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 14
LATITUDE: 62°49'50"N
LONGITUDE: 135°05'37"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

LK, SUE, LYN, GETA, GELD, CLEAR

WORK HISTORY

Staked as LK cl (Y9203) in Jun/66, following airborne mag and EM surveys by Conwest EL, which explored with prospecting and limited geophysical and geochemical surveys in 1966 and one 91.4 m hole in 1967.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Seaforth ML tied on Lyn cl (Y91307) to the northeast in Oct/74. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV, which performed lake bottom sediment sampling and extensive linecutting (bulldozer), mag, EM and gravity surveys in 1975 to 1977 and drilled 2 holes (328.6 m) 3.2 km to the northwest on claims 761 and 785 in 1978. The Conwest syndicate interests were acquired early in 1980 by Getty ML, which tied on Geta & Geld cl (YA49130) in Jun/80.

The Sue claims were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. In 1991, the property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling, and further geological, geophysical and geochemical surveys were carried out in 1992.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are in a wide, flat, largely overburden-covered valley along the Tintina Fault, and are probably underlain by metasedimentary rocks. Results of drilling are not available.

REFERENCES

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Conwest
MINFILE #: 105L 043
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 14
LATITUDE: 62°50'05"N
LONGITUDE: 135°14'39"W
DEPOSIT TYPE: Unknown
STATUS: Drilled prospect

CLAIMS (PREVIOUS AND CURRENT)

MAC, SUE, CLEAR

WORK HISTORY

Staked as Mac cl (Y9233) in Jun/66, following airborne mag and EM surveys by Conwest EL, which explored with prospecting and limited geochem and geophysical surveys in 1966 and one 193.5 m hole in 1967.

Restaked as part of a block of 1070 Sue cl (Y80651) in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Faraday and Int Mogul ML) and Teck Corp. Essex Mls L (U.S. Steel) acquired the Teck interest in Jan/75 and formed the Macmillan JV, which performed lake bottom sediment sampling and extensive linecutting (bulldozer), mag, EM and gravity surveys in 1975 to 1977 and drilled 2 holes (321.9 m) about 4 km to the northwest on claim 273 and 844 in 1978.

Getty ML acquired the interests of the Conwest syndicate early in 1980. The Sue claims were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, a wholly owned subsidiary of Total Erickson Resources Ltd. The property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd in 1991, as part of a large claim block associated with the Clear Lake deposit (Minfile 105L 045). Work on the Clear Lake property in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling. An additional 76 Clear cl (YB36109) were staked in Jul/91, and further geological, geochemical and geophysical surveys were carried out in 1992.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The claims are situated in a wide, flat, largely overburden-covered valley along the Tintina Fault, and are probably underlain by metasedimentary rocks. Results of drilling are not available.

REFERENCES

MINERAL INDUSTRY REPORT 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Clear Lake
MINFILE #: 105L 045
MAJOR COMMODITIES: Zn,Pb,Ag
MINOR COMMODITIES: Ba
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 105 L 1
LATITUDE: 62°47'08"N
LONGITUDE: 135°07'49"W
DEPOSIT TYPE: Sedex
STATUS: Deposit

CLAIMS (PREVIOUS AND CURRENT)

SUE, RSVP, PVA, PELLY, CLEAR

WORK HISTORY

The property was first staked as part of a 1000 claim block in 1965, following the discovery of the Faro orebody 80 km to the southeast. Limited prospecting, mapping and ground EM surveys were carried out, and six EM anomalies were tested by AQ diamond drilling. One of these drillholes intersected 0.45 m of massive pyrite, but the claims were allowed to lapse.

Staked as part of a block of 1070 Sue cl in Sep/74 by a syndicate of Conwest companies (Chimo Gold ML, Cons Can Farday and Int Mogul ML) and Teck Corp L. Essex Mls L (U.S. Steel) acquired the Teck interest early in 1975 and formed the Macmillan JV, which conducted extensive linecutting (bulldozer), lake bottom sediment sampling, EM, mag and gravity surveys from 1975 to 1977, and drilled one hole (109 m) 3.2 km to the northwest on claim 645 in 1978 which resulted in the discovery of the massive sulphide deposit.

Subsequent exploration included 17 holes (2531 m) in 1978, ground mag and EM surveys, airstrip construction and 10 holes (2481 m) in 1979, mapping, EM, gravity and geochem sampling in 1980, EM, mag, soil and lake bottom geochemical surveys and 5 holes (1799 m) in 1981 and linecutting, geochem, EM and gravity surveys and 6 holes (1981 m) in 1982. The Conwest Syndicate's interest was acquired by Getty Can Met L in the spring of 1980. In 1983, 11 holes (3055 m) were drilled in the deposit and 5 holes (679 m) tested outlying geophysical anomalies. A further NQ hole (457 m) was drilled in 1984.

Welcome North tied on RSVP, PVA and Pelly cl (YA25299) in Aug/79 and optioned these to E & B Expl Inc (Pelly Project), which explored with airborne mag and EM surveys and geochemical sampling in 1980.

Most of the Sue cl surrounding the showing were abandoned and restaked as Clear cl (YB25815) in Jun/89 by Total Energold Corp, which also purchased Conwest's NPI interest. Total Energold added more Clear claims in Apr/90 and evaluated 18 target areas with geochemistry and mapping later in the year. The geochemistry included hand-augered soil samples and 35 samples of glacial overburden collected down-ice from the deposit using an overburden drill. The property was optioned to Mitsui Kinzoku Resources of Canada Inc., a wholly owned subsidiary of Mitsui Mining and Smelting Co. Ltd in 1991.

Work in 1991 consisted of 4588.2 m of diamond drilling in 19 holes, gravity and IP surveys, mapping, trenching and soil sampling. An additional 76 Clear cl (YB36109) were staked in Jul/91 and exploration in 1992 included surface mapping, soil sampling, trenching, linecutting and IP, gravity and Power Line magnetotelluric surveys and 3100.1 m of diamond drilling in 10 holes.

The Clear and Sue claims were transferred to Energold Minerals Inc. in Nov/92. In 1993, Mitsui Kinzuko Resources and Energold Minerals Inc. diamond drilled 6 holes totalling 1364 metres in addition to conducting gravity and magnetometer surveys, auger assisted soil sampling, rock chip sampling and geological mapping.

GEOLOGY

The Clear Lake deposit is a massive sulphide lens 5 to 30 m thick, which contains approximately 27 million tonnes of sulphide (mostly pyrite) including a geological reserve of 6.1 million tonnes grading 11.34%

GEOLOGY (CONTINUED)

Zn, 2.15% Pb and 40.8 g/t Ag, using a cutoff grade of 7% combined Zn-Pb. The deposit is hosted by carbonaceous argillite, siltstone, chert and tuff of the Devono-Mississippian Earn Group.

The property is bisected by the Tintina Fault. North of the fault are phyllite of the Lower Cambrian Mt Mye Formation and calcareous phyllite and limestone of the Cambro-Ordovician Vangorda Formation. South of the fault are Ordovician to Lower Devonian Road River Group shale, and the Devono-Mississippian Earn Group clastic rocks which host the Clear Lake deposit. Glacial overburden 5 to 26 m thick covers the property, and the geology is known mainly from drillholes and interpretations of geophysical surveys.

The main sulphide body was discovered in 1978 while drilling a 3 mgal residual gravity anomaly. The gravity anomaly coincides with magnetic and EM anomalies and is situated beside a small acidic lake containing geochemically anomalous lake bottom sediments. Lake bottom samples assayed up to 19 000 ppm Zn, 1.2 ppm Ag and 20 to 40 ppm Cu. A subtle gossan was later recognized over the target.

The deposit is sigmoidal in shape, approximately 1000 m long and up to 100 m thick, and pinches at depth. It dips steeply to the east, and Bouma sequences in drill core indicate that it is overturned. Sulphide minerals are laminated and consist largely of framboidal pyrite which is slumped and fragmented in places. The best drill intersection assayed 18.3% Zn, 2.15% Pb and 58.6 g/t Ag across 13 m. Tuffaceous rocks intercalated with the sulphides reach a thickness of 30 m in the original footwall, stratigraphically beneath the main massive sulphide lens. The tuff exhibits relict pyroclastic texture, with both matrix and fragments largely altered to soft grey clay, and local concretions of galena, sphalerite, barite, siderite and calcite.

Argillite which lies stratigraphically beneath the overturned footwall tuff is silicified to a depth of 90 m below the deposit. The overturned hanging wall is formed by a layer of argillite which is silicified so extensively it resembles mottled to laminated chert. Irregular pyrite stringers and masses are common throughout both the hanging wall and footwall argillite. Massive barite in several drillholes appears to be peripheral to the deposit and forms a partial cap over it. Barite and tuff lenses intersected at depth in the 1991 drillholes indicate that there is potential for another sulphide lens below the main orebody.

A trace element study of the tuffaceous rocks by Jim Morin of DIAND revealed high Ti and P contents and high K_2O/Na_2O ratios, consistent with an alkaline volcanic environment. The mineral deposit is inferred to be an exhalative deposit related to Devonian rifting. Worm tubes replaced by quartz and calcite surrounded and partly replaced by sphalerite and pyrite have been found in drill core, and the sulphides are believed to have precipitated from a hydrothermal fluid hotter than 350°C which mixed with cold seawater at a black smoker vent.

Soil sampling using hand augers and an overburden drill in 1990 located anomalies in several new areas. North of the Tintina Fault, stratiform galena and sphalerite outcrop at the transition between Mt Mye and the Vangorda Formation rocks, the same stratigraphic level as the Faro deposits. Specimens from this area assayed up to 2.68% Zn, 0.78% Pb and 13.7 g/t Ag.

Drilling in 1992 showed that some gravity anomalies are due to bedrock highs adjacent to conductive graphitic shear zones which trend east-west through the main deposit. No new massive sulphide lenses were discovered.

REFERENCES

BASNETT, R., 1991. Geology and Mineralization of the Clear Lake Deposit, Yukon. Text of talk presented at Whitehorse Geoscience Forum, Dec/91.

ENERGOLD MINERALS INC., Dec/93. Assessment Report #093145 by H.W. Sellmer et al.

GEORGE CROSS NEWSLETTER, 4 Mar/91.

GRAPES, K.J., 1987. Lithologic and Textural study of the Clear Lake Fe-Zn-Pb-Ag massive sulphide deposit, Yukon Territory, Canada. M.Sc. Thesis, Carleton University, Ottawa.

KENT, G., 1979. Clear Lake Deposit. Talk presented at the Seventh Geoscience Conference, Whitehorse, 2 Dec/79.

MCCOLL, K.M., 1981. Lithogeochemical study of the Clear Lake massive sulphide body. B.Sc. Thesis, University of Waterloo, 1981.

MINERAL INDUSTRY REPORT, 1975, p. 129; 1976, p. 164; 1977, p. 69; 1978, p. 45-46.

TOTAL ENERGOLD CORP., Dec/90. Assessment Report #092895 by R. Basnett.

TOTAL ENERGOLD CORP./MITSUI KINZOKU RESOURCES LTD, Feb/92. Assessment Report #093013 by R. Basnett.

TOTAL ENERGOLD CORP., 6 Nov/92. Executive summary of 1992 exploration: Fax to R. Deklerk, DIAND.

MAP NO.: 105L 11,14,15

ASSESSMENT REPORT
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 093145
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: GEOCHEM, GEOLOGY GEOPHYSICS, DIAMOND DRILLING

REPORT FILED UNDER: ENERGOLD MINERALS INC.

DATE PERFORMED: JUNE 4-AUGUST 5, 1993 **DATE FILED:** DEC 24, 1993

LOCATION: **LAT.:** 62°48'N **AREA:** CLEAR LAKE

LONG.: 135°10'W **VALUE $:** 68,400

CLAIM NAME & NO.: CLEAR 1-448 (YB25815-26262), CLEAR 490 (YB26304), CLEAR 491-593 (YB27222-324), CLEAR 594-598 (YB27376-380), CLEAR 599-674 (YB36109-184), SUE 611-616 (Y81261-266), SUE 635 (Y81285), SUE 2010-2015 (YA22730-22735), SUE 2018-2019 (YA22946-22947), SUE 2026, 2028 (YA59692, 694), SUE 3003FR-3005FR (YA59692-59694), SUE 3040FR (YA61583), SUE 339-346 (Y80989-80996)

WORK DONE BY: H.W. SELLMER, R. ZURAN, A. GOMI, M. MACHIDA

WORK DONE FOR: ENERGOLD MINERALS INC.

DATE TO GOOD STANDING:

REMARKS: GEOCHEM, GEOPHYSICS, GEOLOGY AND 1364 M OF DD IN 6 H.

AREA 1
AREA 3
AREA 19
AREA 7
AREA 2
AREA 23
AREA 9
AREA 5
AREA 10
AREA 22
AREA 6
AREA 4
AREA 13
AREA 11
AREA 17
AREA 14
AREA 12
AREA 16
AREA 21
ASKIN GP
EARN GP
KECHIKA GP
N
SYMBOLS
Fault (defined, assumed)
Geologic contact
Bedding (inclined, vertical, overturned)
Foliation (inclined, vertical, S2)
Vein
Fold
Anticline (defined, assumed)
Syncline (defined, assumed)
Airphoto linear
Gossan
Fossil locality
Mineral showing
ba barite
gn galena
sp sphalerite
py pyrite
po pyrrhotite
mal malachite
78-1
Drill hole location (year—number)
Lake sediment sample; reported as:
102,15,41,0.3,1800
Zn (ppm), Pb (ppm), Cu (ppm), Ag (ppm), Ba (ppm)
Geochemical anomaly; anomalous values defined as:
Zn
Zn ≥ 240 ppm
Pb ≥ 80 ppm
Cu ≥ 70 ppm
Ag ≥ 1.1 ppm
Ba ≥ 2700 ppm
Ground gravity survey, residual gravity high (more than 0 mgal)
(more than 0.5 mgal area is shadowed)
Ground EM possible conductor axis trend
(Maxmin II 444Hz, 1777 Hz, EM-17 1600 Hz)
Airborne EM low resistivity area
Induced Polarization survey, apparent resistivity low
(less than 50Ωm)
Induced Polarization survey, apparent chargeability high
(more than 39 mV/V)
Airborne or ground magnetic survey, magnetic high
Ground gravity survey, terrain corrected Bouger gravity
S.G. = 2.7 Peter E. Walcott & Assoc. (April, 1992)
LITHOLOGY LEGEND
INTRUSIVE ROCKS
TERTIARY MESOZOIC (?) OR MISSISSIPPIAN (?)
K2 MAFIC INTRUSIVE ROCKS a) Gabbro, Diorite b) Diabase
K1 FELSITE
MISSISSIPPIAN AND/OR EARLIER
DMCPC CHERT PEBBLE CONGLOMERATE locally heterolithic with Kechika group fragments
EARN GROUP
MISSISSIPPIAN
DMB BARITE
DMA MASSIVE SULPHIDE
DM6 MAFIC VOLCANIC FLOW ROCKS
DM5 TUFF a) Lapilli b) Ash
DM4 CHERT dark grey, massive
DM3 BRECCIA, CONGLOMERATE
DM2 ARGILLITE/SHALE a) massive, carbonaceous b) with minor sandstone, siltstone bands c) with many sandstone siltstone bands d) siliceous and/or silicified e) calcareous with thin limestone interbeds f) with thin light brown dolomitic bands
DM1 SANDSTONE a) massive b) laminated
DMLST LIMESTONE
DMCHT CHERT Dark green to brown banded
DEVONIAN
UNCONFORMITY (ST CYR FAULT?)
ASKIN GROUP
DEVONIAN
SD4 QUARTZITE
SD3 DOLOSTONE locally replaced by chert
SD2 ARGILLITE/SHALE locally dolomitic and micaceous
SD1 AMYGDALOIDAL ANDESITE
SILURIAN
ROAD RIVER FORMATION
SILURIAN
OS SHALE graptolitic
ORDOVICIAN
TINTINA FAULT
KECHIKA GROUP MENZIE CK FORMATION
ORDOVICIAN
CO4c MAFIC VOLCANIC TUFF green, chloritic (formerly 6A1)
CO4b VOLCANICS green, chloritic tuffs intercalated with vari-coloured siltstones, mudstones and limestones (formerly 6A2)
CO4a SEDIMENTARY ROCKS vari-coloured mudstone, siltstone, chert, limestone and greywacke
VANGORDA FORMATION
CO3c PHYLLITE calcareous interbedded with limestone and dolostone. Also chloritic (formerly 5D)
CO3b MAFIC METAVOLCANIC ROCKS fine to medium grain chloritic tuffaceous rocks (formerly 5C)
CO3a PHYLLITE calcareous, undifferentiated (formerly 5)
MT MYE FORMATION
CO2e PHYLLITE chlorite ± sericite ± biotite, may contain calcareous laminae (formerly 3G)
CO2d PHYLLITE graphitic (formerly 3E)
CO2c LIMESTONE
CO2b MAFIC METAVOLCANIC ROCKS chlorite rich tuffaceous rocks (formerly 3B)
CO2a PHYLLITE undifferentiated
CAMBRIAN
RABBITKETTLE FORMATION
ORDOVICIAN
CO1 ARENITE dolomitic, calcareous, with micaceous silty banded limestone and calc silicate
CAMBRIAN
G2
First priority anomaly of Ground gravity survey interpretation, Allan Spector and Assc. (June, 1981) and annotation of residual anomaly by Kenting Exploration Services Ltd. (August, 1976)
093145
500 0 500 1000
ENERGOLD MINERALS INC.
CLEAR LAKE PROJECT
COMPILATION MAP
DWG 218
by : A. GOMI
R. ZURAN
DATE OCTOBER 1993
FIGURE : 4
N.T.S. 105 L/14
SCALE 1:20000