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TYPE OF WORK: Geochemistry

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DATE PERFORMED: May 25-June 5, 1990

DATE FILED: Sept 18, 1990

LOCATION: LAT.: 62⁰48'N

AREA: Clear Lake

LONG.: 135⁰10'W

VALUE \$: 56 600

CLAIM NAME & NO.: CLEAR 1-448, CLEAR 451-598
SUE 611-616, SUE 635, SUE 2010-2015, SUE 2018-2019
SUE 2026, 2028, 3003FR-3005FR, 3040FR, 339-346

WORK DONE BY: Richard Basnett

WORK DONE FOR: Total Energold Corporation

DATE TO GOOD STANDING:

REMARKS: The Clear Lake Property is underlain by Selwyn Basin Stratigraphy favourable for stratiform sedimentary exhalitive silver lead-zinc mineralization. The Deposit has geological reserves of 6 million tonnes grading 13% combined Pb Zn with 1.19 opt Ag. Work in 1990 consisted of soil geochemistry using an auger drill as well as hand augers. A total of 471 samples were collected. Geological mapping was also done. Seven of the 21 target areas returned significant results warranting further work.

CONFIDENTIAL

**GEOCHEMICAL AND GEOLOGICAL
ASSESSMENT REPORT ON THE
CLEAR LAKE PROPERTY**

Whitehorse M.D., Yukon
May 25-June 5, 1990



Claims:

- Clear 1-448 (YB25815-26262)
- Clear 451-490 (YB26265-26304)
- Clear 491-593 (YB27222-27324)
- Clear 594-598 (YB27376-27380)
- 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 S of Whitehorse, Yukon
2. NTS 105L/11, 14, 15
3. Latitude 62° 48' N
Longitude 135° 10' W

By: Richard Barnett, B.Sc.
TOTAL ENERGOLD CORPORATION.
#21 - 1114 1st Avenue
Whitehorse, Yukon
Y1A 1A3

September 14, 1990

092871

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$_____.

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

SUMMARY

Total Energold Corporation's Clear lake silver-lead-zinc property of 625 claims totalling 13,000 hectares, are located on the height of land between the Pelly and MacMillan Rivers, 225 kilometers north of Whitehorse, Yukon Territory. The claims cover the Clear Lake Deposit with a geological reserve of 11.34% zinc, 1.99% lead, and 1.19 opt silver at a cutoff of 7% combined lead - zinc. Access to the property is by fixed wing aircraft or helicopter.

The search for base metal deposits in the area began in 1965 following the discovery of the Faro orebody 80 kilometers to the southeast. This work culminated in the discovery of the Clear Lake Deposit in 1978. The Deposit is hosted by Devonian-Mississippian argillites and has similarities to other sedimentary exhalative type deposits found in the Selwyn Basin. By the mid-1980's an additional 21 exploration targets, possibly hosting stratiform massive sulphide deposits similar to the Clear lake Deposit, had been located on the original property. Targets include AEM-EM conductors, gravity, and magnetic anomalies and mineralized outcrops and gossans.

Work in 1990 consisted of evaluating 18 target areas (not including the Clear Lake deposit) utilizing soil geochemistry and a re-examining of outcrops. A total of 471 samples (20 rock, 451 soil) were collected and analyzed for silver, copper, lead, zinc, and barium. A total of 35 soil samples were collected by an overburden drill (Pionjar) that could penetrate to a maximum depth of four meters. The remaining 416 soil samples were collected by hand augers that can penetrate to a maximum depth of 1.2 meters.

Results of the work carried out in 1990 indicate no further work is required on seven of the target areas in the near future (Areas 4 - 9, and 21). The soil geochemistry program was successful in locating significant anomalies over seven of the target areas (Areas 1, 11 - 13, 15, and 19). Geochemically anomalous values (>1.1 ppm Ag, 70 ppm Cu, >80 ppm Cu, >150 ppm Zn, and >2250 ppm Ba) were returned from samples collected over or down-ice of known mineralization (Areas 11 and 13).

Results from Area 11 demonstrates that deeper samples, collected by the overburden drill, returned higher values than samples collected by hand auger at the same site. Overburden sampling, utilizing the Pionjar drill, is required in areas where soil samples collected by hand auger returned sporadic isolated anomalous values.

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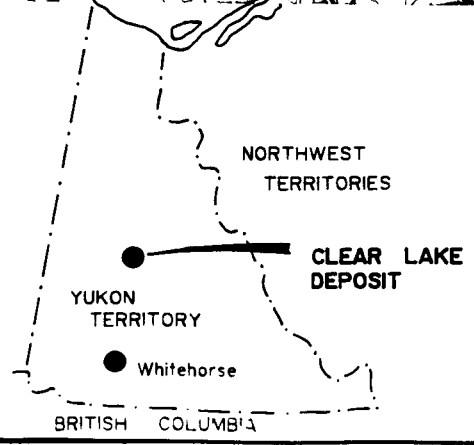
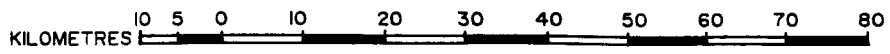
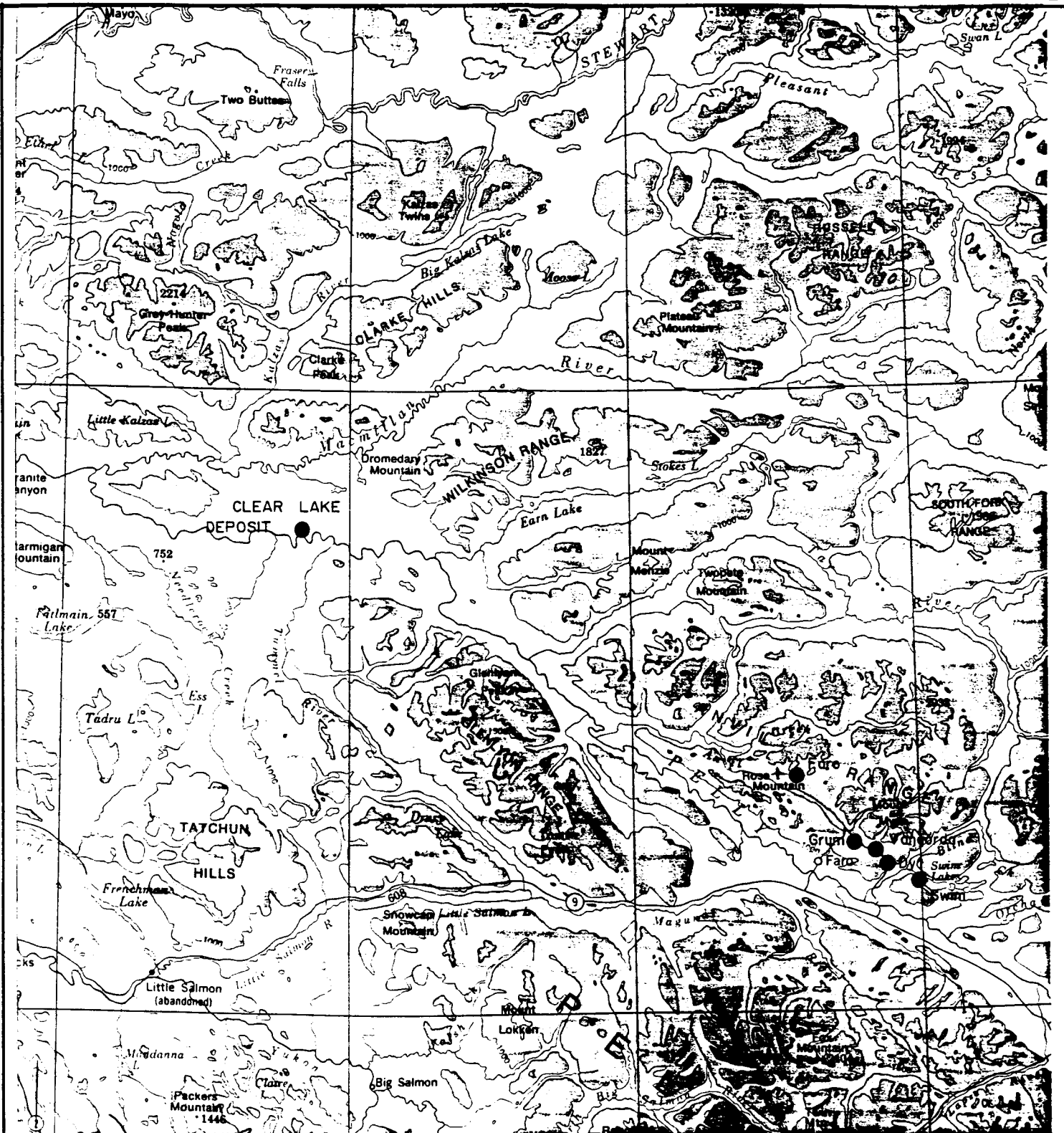
INTRODUCTION

The purpose of report is to assess the property's economic potential and to satisfy assessment requirements of the Yukon Quartz Mining Act through a description of exploration work carried out from May 25 to June 5, 1990.

The property is located approximately 225 kilometers north of Whitehorse, Yukon and is accessible by helicopter or fixed wing aircraft (Figure 1).

Exploration work carried out in 1990 consisted of geological mapping and geochemical soil and rock sampling for the purpose of locating base metal sedex type deposits. This work was carried out by R. Basnett, B.Sc., R. Zuran, B.Sc., P. Malkin of Total Energold Corporation and R. Hulstein, B.Sc. of Aurum Geological Consultants Inc. This report summarizes work carried out on the Clear claims that surround the Clear Lake Deposit (covered by the Sue claims). The Clear Lake deposit was not examined in the course of this program.

Twenty-one target areas in addition to the Clear Lake deposit were found by the MacMillan Joint Venture prior to 1984. These are located in the immediate vicinity within Clear Lake, Askin, and Anvil Group Stratigraphy. Target areas include AEM-EM conductors, gravity and magnetic anomalies, gossans, and alteration zones.



Total Energold Corporation		
CLEAR LAKE PROJECT		
LOCATION MAP		
N.T.S.: 105 L	TECH:	DATE: MARCH 1990
SCALE: 1:1,000,000	DRAUGHTING:	FIGURE: 1

LOCATION AND ACCESS

The Clear Lake Property is located in and adjacent to the Tintina Trench in southcentral Yukon. The property covers the height of land between the Pelly and Macmillan Rivers near their confluence. The approximate center of the claim block is located at 62° 48' North latitude and 135° 10' West longitude on NTS map sheet 105 L/14. Portions of the property also cover parts of NTS map sheets 105 L/15 and 105 L/11

The town of Whitehorse, located 225 kilometers to the north, has twice daily jet service to southern Canada.

Access to the property is via helicopter based in Carmacks, located approximately 90 kilometers to the southwest, or 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 North Klondike Highway (all-weather road) at Pelly Crossing, located approximately 65 kilometers to the west.

PROPERTY

The property consists of 625 surveyed and unsurveyed mineral claims covering a total of 13,000 hectares, staked in accordance with the Yukon Quartz Mining Act (Figure 2 - in pocket). The claims are shown on D.I.A.N.D. Quartz and Placer Map sheet 105 L/11, 14, 15. The claims covering the Clear lake Deposit (Clear Lake Designated Area) are surveyed. Claim data for the entire property are as follows.

CLEAR LAKE DESIGNATED AREA

Claim Name	Grant Number	Record Date	Expiry Date
SUE 611-616	Y 81261-81266	11/09/74	11Dec1993
SUE 635	Y 81285	11/09/74	11Dec1993
SUE 2010-2015	YA22730-22735	06/07/78	11Dec1993
SUE 2018-2019	YA22946-22947	06/07/78	11Dec1993
SUE 2026	YA22746	17/07/78	11Dec1993
SUE 2028	YA22748	17/07/78	11Dec1993
SUE 3003FR-3005FR	YA59692-59694	07/04/81	11Dec1993
SUE 3040FR	YA61583	13/07/81	11Dec1993

CLEAR CLAIMS NON-DESIGNATED AREA

Claim Name	Grant Number	Record Date	Expiry Date
SUE 339-346	Y 80989-80996	11/09/74	11Dec1990
CLEAR 1-16	YB25815-25830	06/06/89	01Dec1990*
CLEAR 17-20	YB25831-25834	06/06/89	01Dec1990*
CLEAR 21-52	YB25835-25866	06/06/89	01Dec1991*
CLEAR 53-78	YB25867-25892	06/06/89	01Dec1990*
CLEAR 79-108	YB25893-25922	06/06/89	01Dec1991*
CLEAR 109-134	YB25923-25948	06/06/89	01Dec1990*
CLEAR 135-156	YB25949-25970	06/06/89	01Dec1991*
CLEAR 157-174	YB25971-25988	06/06/89	01Dec1990*
CLEAR 175-206	YB25989-26020	06/06/89	01Dec1991*
CLEAR 207-216	YB26021-26030	06/06/89	01Dec1990*
CLEAR 217-234	YB26031-26048	06/06/89	01Dec1991*
CLEAR 235-272	YB26049-26086	06/06/89	01Dec1990*
CLEAR 273-294	YB26087-26108	06/06/89	01Dec1991*
CLEAR 295-334	YB26109-26148	06/06/89	01Dec1990*
CLEAR 335-356	YB26149-26170	06/06/89	01Dec1991*
CLEAR 357-444	YB26171-26257	06/06/89	01Dec1990*
CLEAR 445-448	YB26259-26262	06/06/89	01Dec1991*
CLEAR 451-489	YB26265-26303	06/06/89	01Dec1991*
CLEAR 490	YB26304	06/06/89	01Dec1990*
CLEAR 491-492	YB27222-27223	04/04/90	01Dec1992*
CLEAR 493-496	YB27224-27227	04/04/90	01Dec1991*
CLEAR 497-503	YB27228-27234	04/04/90	01Dec1992*
CLEAR 504	YB27235	04/04/90	01Dec1991*
CLEAR 505-509	YB27236-27240	04/04/90	01Dec1992*
CLEAR 510-527	YB27241-27258	04/04/90	01Dec1991*
CLEAR 528-551	YB27259-27282	06/04/90	01Dec1991*
CLEAR 552-553	YB27283-27284	06/04/90	06Apr1991
CLEAR 554	YB27285	06/04/90	01Dec1991*
CLEAR 555-593	YB27286-27324	06/04/90	06Apr1991
CLEAR 594-598	YB27376-27380	14/05/90	01Dec1991*

* Subject to approval of 1990 assessment work.

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 a low range of rolling hills, Pelmac Ridge - Wilkinson Range, between the Macmillan and Pelly Rivers. Topography is moderate with approximately 200 meters of relief. The highest point of 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. These areas are now covered by stands of small spruce, poplar, and pine along with extensive growths of alder, and willow. Windfall is usually a serious hindrance to travel in these areas.

HISTORY

The history of the property is summarized as follows;

1965-1967:

- 1000 claims staked; followed by a Mark IV Input EM survey; limited prospecting and mapping, and ground EM surveys.
- Six EM anomalies were tested by AQ diamond drilling, one of which intersected 1.5 feet of massive pyrite.
- The claims were allowed to lapse.

1974:

- 1,074 claims staked.
- Essex Minerals Company and Conwest Joint Venture agreement.

1975-1977:

- Ground EM-17 and magnetic surveys over the entire claim group and gravity surveys over selected portions, on bulldozer grid lines spaced 1,000 feet apart.
- limited prospecting, geologic mapping, and seismic surveys.
- surveys designed for orebodies 3,000 feet in diameter.

1978:

- seven gravity-EM targets were drilled in Anvil Range Stratigraphy, without success.
- drilling of an EM-17 anomaly south of Clear Lake led to the discovery of the Clear Lake deposit.
- a check on past data from Clear Lake sediments in 1965 to 1967 surveys revealed anomalous Zn values.
- staking the area south of Tintina Fault.
- Mark VI Input EM survey.

1979:

- detailed gravity and ground EM surveys.
- further drilling of the deposit.

1980:

- Getty entered into the venture in March.
- limited detailed geophysical surveys over conductors indicated by the 1978 Input Survey.
- geophysical surveys on the fringe of the Clear Lake Deposit.
- claims care and maintenance.

1981:

- EM surveys, prospecting, mapping and locating claims.
- air photography.
- limited diamond drilling of the Clear Lake Deposit.

1982:

-Clear Lake Designated Area formed.

Designated Area

- six holes were drilled (6,530 feet)
- mise-a-la-masse initiated but incomplete
- gravity survey to confirm previous data
- Max Min II survey carried out to reduce the interpolation associated with portions of the EM conductors, no substantial change in the previous geophysical interpretation
- in the vicinity of the deposit, twenty overburden holes were drilled and sampled using a Pionjar drill and flow-thru sampler

General

- claim post location survey, mapping, prospecting and evaluation of previous data.
- barite pods and veins found in Askin Group rocks.
- compilation at 1:10,000 scale.

1983:

Designated Area

- 11 miles of line cut, chained and picketed
- all pre-1983 drill collars surveyed, 1983 grid lines tied in.
- 11 miles of Max Min II surveyed
- mise-a-la-masse: 13 body probes, 11 line miles surveyed
- 9 holes drilled, 2 holes extended.
- all 1983 holes logged plus 70% of pre-1983 holes relogged

Non-Designated Area

- linecutting, electromagnetic surveys, magnetic surveys, gravity surveys, mapping.
- overburden sampling (66 percussion holes) and claim location work carried out over 12 areas.
- 2,228 feet of BQ diamond drilling in five holes on Target areas 1 and 3(Grid 17W).

1984:

-1500 feet of NQ drilling was completed in one hole

Summary of Work on the Clear Lake Designated Area

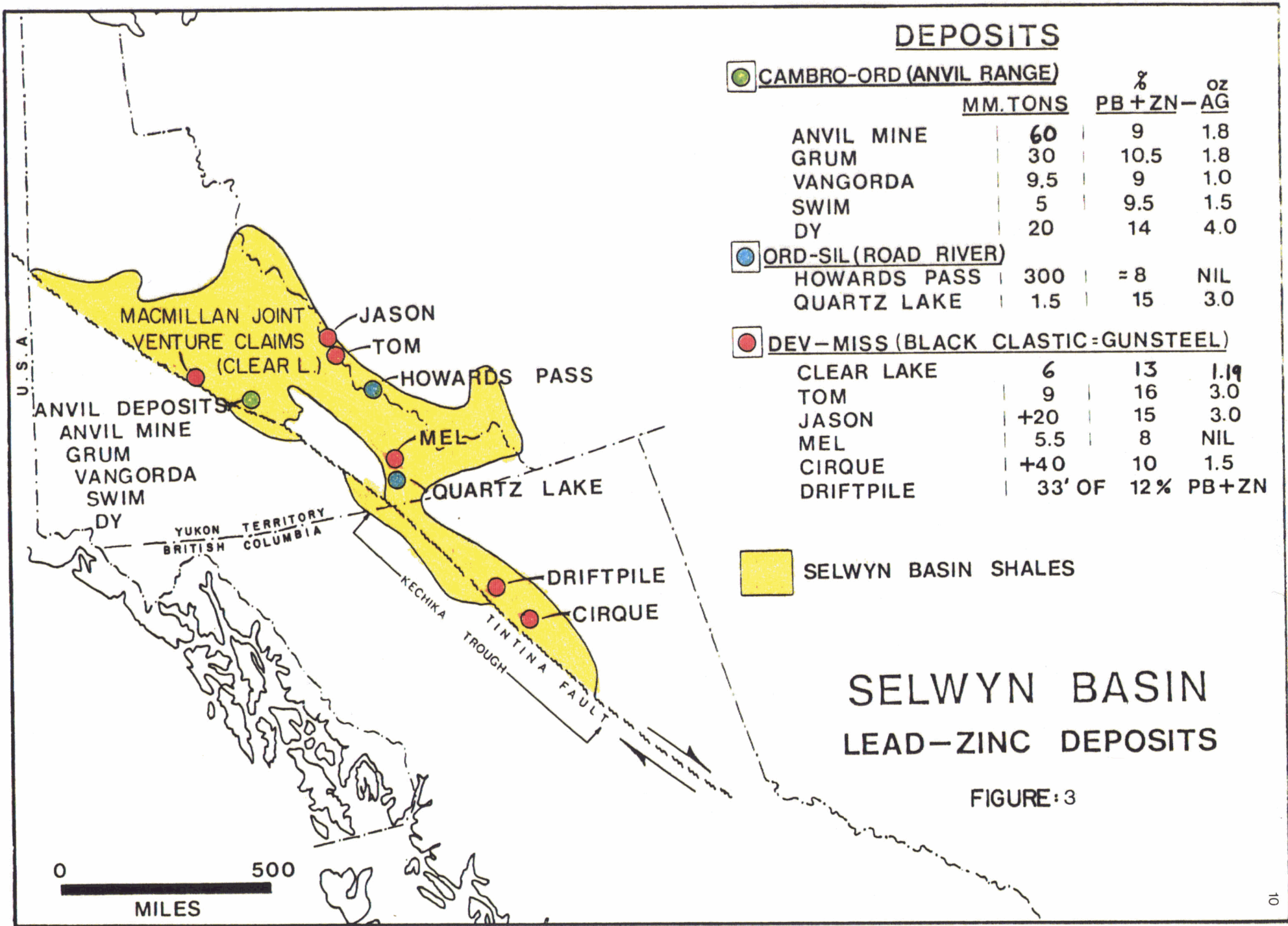
- diamond drilling 36 holes totalling 34,309 feet
- Max-Min II totalling 74.1 line miles
- Gravity surveys totalling 32.6 line miles
- VLF EM surveys totalling 8.3 line miles
- Misc-a-la-masse, 18 body probes, 14.3 line miles
- soil sampling totalling 386 samples
- overburden drilling of 21 holes
- trenching of two pits for till fabric studies

GEOLOGY AND MINERALIZATION

The Clear Lake Area is located along the northwest edge of the Selwyn Basin (Figure 3), a known area of lead-zinc-silver mineralization where major shale-hosted stratiform deposits have been discovered in recent years. One of these deposits is the Clear Lake deposit occurring in Devono-Mississippian shales referred to as the Clear Lake Stratigraphy (Figure 4). Similar deposits are expected to occur in the immediate vicinity within Clear Lake (Earn Gp), Askin, and Anvil Group Stratigraphy.

The following chart summarizes the regional stratigraphy and the hosted mineral deposits and occurrences.

<u>Regional Stratigraphy</u>	<u>Mineral Deposit</u>
<p>Clear Lake (Earn Group)- U. Dev. to Miss. -black shale and siltstone -chert pebble conglomerate -lapilli tuff -chert and limestone</p>	<p>Clear Lake Jason, Tom Tea, Cathy (Ba deposits)</p>
<p>Askin Group - Mid-Devonian -dolostone -slaty limestone -quartzite</p>	<p>Pb, Zn, + Cu, + Barite Veins adjacent Clear Lake deposit</p>
<p>Anvil Range - Cambrian-Ordivician</p>	
<p>Menzie Creek Fm -mafic metavolcanics -pillowed to massive flows -tuff, breccias</p>	
<p>Vangorda Fm -calcareous phyllite -graphitic phyllite (deposits form in transition zone between non-calcareous to calcareous pelites) -metabasite</p>	<p>Faro deposits Grum, Vangorda Swim, DY</p>



DEPOSITS

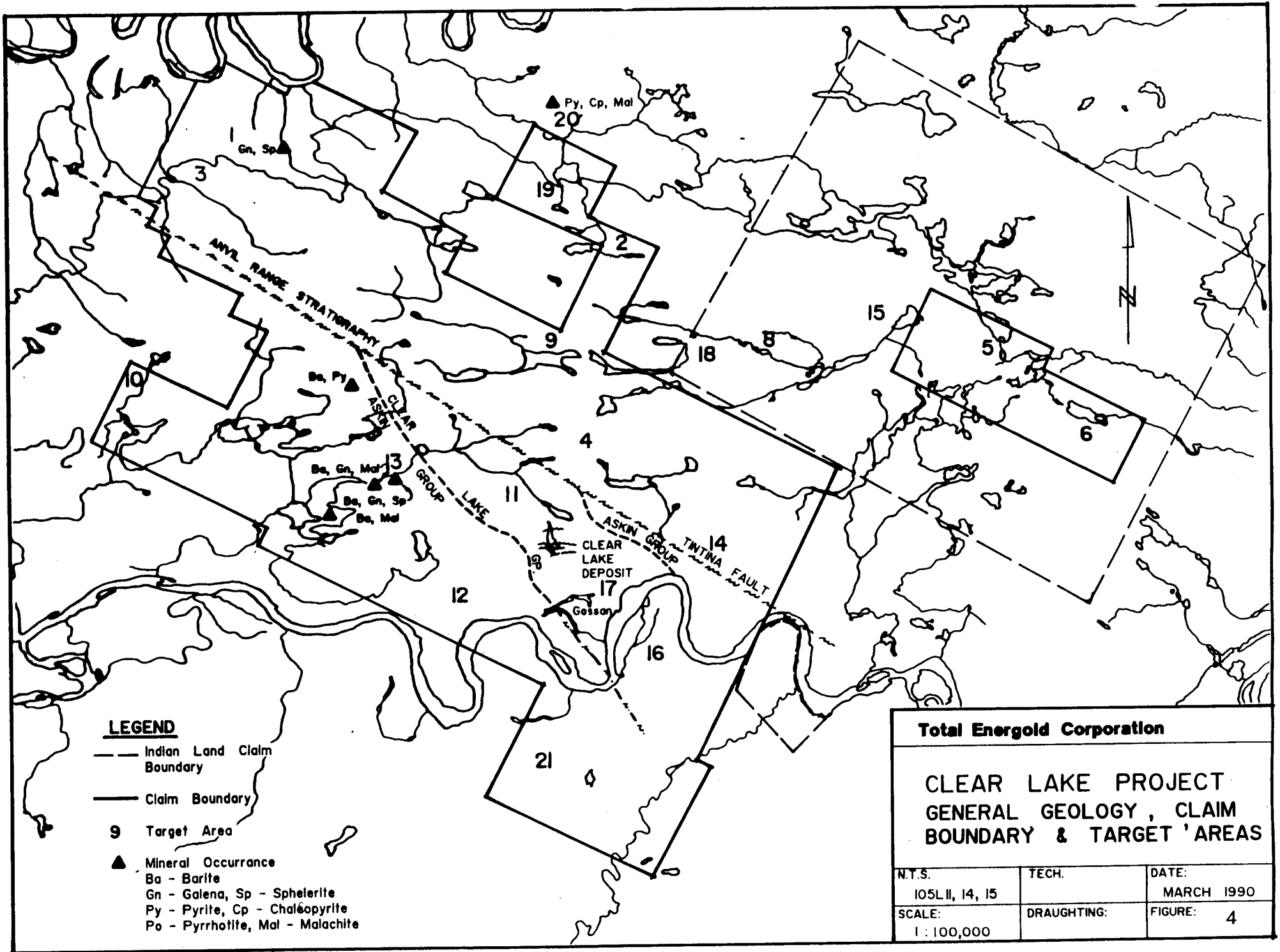
	MM. TONS	% PB+ZN-AG	
			oz
CAMBRO-ORD (ANVIL RANGE)			
ANVIL MINE	60	9	1.8
GRUM	30	10.5	1.8
VANGORDA	9.5	9	1.0
SWIM	5	9.5	1.5
DY	20	14	4.0
ORD-SIL (ROAD RIVER)			
HOWARDS PASS	300	= 8	NIL
QUARTZ LAKE	1.5	15	3.0
DEV-MISS (BLACK CLASTIC-GUNSTEEL)			
CLEAR LAKE	6	13	1.19
TOM	9	16	3.0
JASON	+20	15	3.0
MEL	5.5	8	NIL
CIRQUE	+40	10	1.5
DRIFTPILE	33' OF	12% PB+ZN	

SELWYN BASIN SHALES

SELWYN BASIN LEAD-ZINC DEPOSITS

FIGURE: 3

0 500
MILES



Mt Mye Fm

- non-calcareous phyllite to schist
with minor calc-silicate
- marble
- graphitic phyllite

On the property rock outcrops are restricted to stream cuts and rare outcrops, and probably constitute less than 3% of the total property area. Glacial debris fill the valley bottoms and locally glacial moraine deposits form some of the larger hills.

Rocks on the property are cut by the Tintina Fault forming a boundary separating the volcanic and sedimentary rocks of the Anvil Range to the north from the volcanics, clastic and carbonate sedimentary rocks to the south.

The Clear Lake deposit is in a poorly exposed discrete (fault bounded ?) sequence of (from the hanging wall side); 1) limestone, sandstone, graphitic argillite, 2) argillite, 3) massive sulphide with rare barite, chert and tuff, 4) chert and argillite.

The Clear Lake Deposit is a shale hosted stratiform deposit containing approximately 30 million tons of sulphide (mostly pyrite) with a geological reserve of 6.1 million tons grading 11.34% Zn, 1.99% Pb, and 1.19 opt Ag at a cut-off grade of 7% combined lead-zinc. The deposit is sigmoidal in shape, approximately 1000 meters long and up to 100 meters thick, dips steeply to the east and thought to be overturned. The deposit has been offset and displaced by faults as well as having been folded.

Four of the 21 target areas (Table 1) have outcropping mineralization. The most significant is Area 1 consisting of stratiform galena and sphalerite. Mineralization found at target areas is described below under '1990 Exploration Results'.

TABLE I
TARGET AREAS

ANOMALY AREA	GEOPHYSICS	GEOLOGY
1	-EM conductor and coincident 0.2-1.1 mgal gravity anomalies	-sphalerite & galena bands (1") conformable to bedding graphitic phyllites -grab sample results:(one locality) 2.68% Zn, 0.78% Pb, 0.4 opt Ag. -DDH 78-3: 143' overburden, final depth 541' -5 DDH during 1983 targetted on combined EM-gravity anomalies. EM anomalies attributed to graphitic shear zones
2	-0.7 mgal anomaly with coincident EM	-outcrop exposures of phyllite (Mt. Mye) -DDH 78-6: 42' overburden final depth 541' -hole intersected graphitic calcareous phyllite with occasional bands of massive Po, minor Py, rare Cpy. -Mg and Cpy outcropping
3	-0.5 to 1.0 mgal anomalies & associated EM & MAG conductors.	-outcrops of mafic volcanic rocks -DDH 78-4: 30' overburden, final depth 467' -hole intersected volcanic tuffs & agglomerate with disseminated magnetite. -Vangorda/Menzie Ck contact. -no geologic information
4	-0.7 mgal anomaly with a strike length of 1,000' & associated EM & MAG conductors	
5	-0.6 to 0.7 mgal anomaly with associated EM conductor	-gossan -DDH 78-11 intersected 1/4" pyrite layer and graphite -no geologic information
6	-0.6 mgal anomaly with a strike length of 1,000' & associated EM conductor	
7	-0.6 mgal anomaly with associated EM conductor	-outcrop exposures of graphitic, calcareous phyllite
8	-0.7 mgal anomaly with associated discontinuous EM conductor	-single outcrop of undifferentiated phyllite
9	-0.8 mgal anomaly with associated weak EM conductor in the vicinity	-no geological information -next to Greyhound Lake
10	-Grid 5W, wide accurate EM conductor and a 0.5 mgal gravity anomaly -gravity partially completed on three lines	-outcrop of siliceous argillite (chert?)
11	-EM conductive zone with associated gravity anomaly	-on strike with Clear Lake
12	-accurate EM conductor, no gravity coverage	-barite and Py along fractures in Askin dolomite and quartzite south of conductor
13	-numerous EM conductors	-outcrop exposures of Askin dolomite on north portion of grid -barite and malachite in fractures in one locality
14	-EM conductor and ground magnetic anomaly	-DDH 94B-1, 1.5' of massive pyrite -volcanics in core
15	-EM conductor and gravity anomaly (G3) with soil geochem anomaly	-on Indian Lands
16	-Gid 5E, 0.6 mgal anomaly associated with EM conductor	-no outcrop -on strike with Clear Lake Stratigraphy
17	-numerous EM and gravity anomalies	-DDH 78-16, crushed zone with graphitic quartz -DDH 81-30, 1" layers of massive py and occasional sph stringers -Indian Lands
18	-gravity anomaly (G26) with related Zn anomaly in soil	
19	-numerous gravity and EM anomalies (G10, 11, 21, 22, 24)	-Py, Po in outcrop -DDH 78-5, graphitic schists
20	-no geophysics	-Py, Cpy, & Mal found in outcrop
21	-EM done by Cominco	-DDH T83-1 drilled by Cominco thought to have intersected Clear Lake tuffaceous horizon

GEOCHEMISTRY

A total of 20 rock samples were collected and analyzed for Ag, Cu, Pb, Zn, and Ba. All elements except Ba were analyzed by atomic absorption analysis with an aqua-regia digestion. For barium a 0.20 gram sample is repeatedly digested with HClO₄ and HF. The solution is analyzed by atomic absorption spectroscopy.

A total of 451 soil samples were collected by hand auger (416 samples, max. 1.4 m penetration) or overburden drill (35 samples). Overburden samples were taken with a Holman Flow-Thru Sampler driven by a Pionjar 120 that could penetrate to a depth of four meters.

Both soil samples and overburden samples were collected down ice (westerly direction) of target areas. It was found that overburden sampling 200 - 300 meters down-ice from the Clear Lake deposit produced anomalies at as little as one meter depths where the shallow soil samples (<0.3 meter) failed to detect anomalous values (Payne, 1982; Bloom, 1982).

The highest results for all elements were returned from samples collected down-ice from the Clear Lake deposit in the vicinity of the airstrip and as far as 600 - 800 meters from known mineralization.

Statistical analysis made for all five elements are presented below. Histograms and cumulative plots for each element are presented in Appendix C.

Element	No. samp.	Max.	Min.	Pop. Var.	Med.	Arith. Mean	Std. Dev.	Coef. Var.	Geo. Mean
Ag (ppm)	445	2.1	0.1	0.151	0.2	0.39	0.389	0.99	N/A
Cu (ppm)	445	233	4	607	39	41	24.6	0.60	35.3
Pb (ppm)	445	539	1	1278	13	18	35.7	1.98	13.4
Zn (ppm)	445	790	25	5309	87	105	72.8	0.69	92.6
Ba (ppm)	451	5800	300	305607	1340	1453	552.8	0.38	1370.9

As there is approximate agreement between the geometric mean and median the data can be said to be lognormally distributed (Levinson, 1974). The geometric mean for silver could not be calculated as the values were too low. Levinson (1974) indicates that any value between 0.5 and 2.0 (or 2.5) for the coefficient of variation can be considered to include a population containing anomalous values (amounts greater than expected for trace elements in general).

The following threshold levels and the 95th percentile were determined from the cumulative frequency curves and histograms in Appendix C.

Element	Value >95%	Possibly Anomalous	Probably Anomalous	Highly Anomalous
Ag (ppm)	1.1	0.5	0.8	> 1.1
Cu (ppm)	70	40	70	>70
Pb (ppm)	36	30	80	>80
Zn (ppm)	240	120	150	>240
Ba (ppm)	2550	1800	2250	>2700

Geochemically anomalous areas are described below under '1990 Exploration Results'.

1990 EXPLORATION RESULTS

The target areas in Table 1 summarizes the information available, type of target, and are shown on figure 4. Results of the work carried out in 1990 and described below are shown on Figures 5 to 10 (Sheets 1-6).

AREA 1 & 3 (Grid 17W)

Lead-zinc mineralization has been found in Area 1. Galena and sphalerite occur in narrow bands (less than 1") within a graphitic phyllite (Figure 5). This showing has not been drilled although six holes have been drilled to test combined electromagnetic-gravity anomalies found in 1976 and 1977 (Kent 1976; Kent 1977, Figures 5, 5a, 6 & 7; Payne 1981, Figure 13 in Paynes Report; Hanneson 1983, Ager 1983, both contain primary data). In 1978, hole 78-3 intersected pyrrhotite and minor chalcopyrite in a quartz-chlorite-graphitic schist (Kent 1978; Figure 6a). The four holes drilled in 1983 intersected highly graphitic shear zones which were interpreted to be the cause of the electromagnetic anomaly (Hawke, 1984). The gravity anomalies were interpreted to be caused by variations in overburden thickness because the variation in specific gravities among the various lithologies intersected was insignificant. Drill hole 78-4 located in Area 3 intersected six feet of disseminated magnetite in a tuffaceous agglomerate.

Shallow soil results over Grid 17W did not detect any anomalous metal values (Payne, April 1982). Overburden sampling was done in 1983 by drilling 27 percussion holes and analyzing 52 samples (Ovens, Sept. 1983). The surficial material encountered includes grey basal till, outwash, glaciofluvial and glaciolacustrine material. Bedrock was found to be at 2-4 meters except near the river where one hole encountered bedrock at 24 meters. Zn anomalies of 217, 201, and 203 are found in clay samples in holes 3, 21, and 26. Hole 26 also contained 1050 ppm Ba. North of the Zn-Pb showing a single bedrock sample in hole 22 contains 276 ppm Zn, 1.2 ppm Ag, 135 ppm Cu, 31 ppm Mo and 20 ppm U.

While Grid 17 W contains no striking anomalous trends, several encouragements are apparent, including relatively high background values of Zn and Ba in overburden and an interesting multi-element geochemical association north of the Zn-Pb showing.

The showing at Area 1 was examined and sampled in 1990. Rock samples returned values up to 4700 ppm zinc and 656 ppm lead. Soil samples collected with a hand auger over and down-ice of a ground magnetic and EM anomaly northeast of the showing returned anomalous values over a scattered area. Samples from Area 3 collected on L910W in a low swampy area underlain by lacustrine clays returned

anomalous values for all elements including; silver up to 2.1 ppm, zinc 246 ppm, lead 30 ppm, copper 58 ppm, and barium up to 2560 ppm.

AREA 2

Massive magnetite and minor chalcopyrite are found in outcrop in the central part of this area (Figure 6). Geophysical surveys in 1976 and 1977 picked up several anomalies (Kent, 1976 & 77; Figures 10, 11). DDH 78-6, drilled on a 0.7 mgal anomaly, intersected graphitic calcareous phyllite with occasional bands of massive pyrrhotite, minor pyrite, and rare chalcopyrite (Kent, 1978; Figure 14). Hawke summarized the geophysics in the 1983 Summary Report (Figure 12; Hanneson 1983, primary data; Ager 1983, gravity primary data).

Previous geochemistry included 14 soil samples with a high of 145 ppm Zn and 201 ppm Pb. Three overburden holes were drilled; the deepest of which encountered 8.6 meters of overburden (Ovens, 1983; Figure 13). The highest value of Zn was 249 ppm.

The magnetite showing was located and sampled but returned low values. Soil samples were collected over and down-ice of the magnetite outcrop and geophysical anomalies with hand augers. A single sample on line 630W returned anomalous values for all elements.

AREA 4

Area 4 (shown on Figure 8) is underlain by Vangorda formation and contains EM and gravity anomalies (Kent 76,77; Figure 12 & 45; Ager 1983, Hanneson 1983, primary data). Six overburden holes were drilled here in 1983 sampling a maximum 6.5 meters of grey till without encountering bedrock. Geochemical values were very low (Ovens, 1983; Figure 15).

A total of sixteen soil samples were collected utilizing a hand auger. With the exception of spurious highs for individual elements results were low.

AREA 5 & 6

Area 5 (shown on Figure 9) is located northeast of the Clear Lake Deposit and covered by a separate block of claims. DDH 78-11 was drilled to intersect a 0.6-0.7 mgal anomaly associated with an EM conductor found 1975-77 (Figures 16-19, &48). It intersected chloritic phyllite of the Vangorda Group. Graphite was found to have developed along slips and 1/4' layer of pyrite was intersected. This hole

encountered 2.8 meters of overburden but in the overburden drilling program 7.2 meters of grey till was drilled without reaching bedrock. No bedrock was encountered in any of the 20 overburden holes drilled. The highest sample from these was 112 ppm Zn and 830 ppm Ba (Ovens, 1983).

The gossan, at Area 5, could not be located on the ground. A single line of seven soil samples collected by the Pionjar and Holman soil sampler down-ice of DDH 78-11 returned non-anomalous values. Likewise a single line of soil samples collected by hand auger at Area 6 returned non-anomalous values.

AREA 7

Numerous outcrops are present in the area, shown on Figure 5, and are mapped as Mt. Mye formation. A 0.6 mgal anomaly is associated with an EM conductor drew attention to this area in 1976 (Kent, 1976; Figure 20 & 21; Hanneson 1983, primary data). Two overburden holes were drilled in 1983 to check test for down-ice dispersion from the gravity and EM anomalies. Grey till was encountered and bedrock was reached at 2.7 meters in one of the holes. High values were 23 ppm Pb and 158 ppm Zn (Ovens, 1983; Figure 22).

Two lines of soil samples (total 22 samples) collected by hand auger returned low values. Highest values include one sample on L760W that returned 34 ppm lead and three samples anomalous in silver, up to 2.1 ppm.

AREA 8

Two claims were located to cover a 0.7 mgal anomaly with an associated discontinuous EM anomaly (Figure 6). Work done in 1977 and 1983 determined that the gravity low was due to drumlins (Kent, 1977; Hawke, 1983; Hanneson 1983, primary data). The area is characterized by drumlins possibly with rock-cored centres that are surrounded by wet and swampy lowlands and may be underlain by outwash. An area of outcrop (Mt. Mye Formation) to the west of the area in a low-lying area is indicative of probable shallow overburden. Soil sampling in 1977 returned values of up to 140 ppm Zn .

No work was carried out on this area and the two claims were allowed to lapse.

AREA 9

Area 9 is located north of Greyhound Lake (shown on Figure 6). No outcrop is present in this area. The anomaly is defined with a 0.7 mgal gravity response on one line and a weak EM conductor in the vicinity (Kent, 1977, Hawke, 1984; Figure 12 & 24; Hanneson 1983, primary data). Two overburden holes were drilled down-ice from these features. Only one anomaly was present, 865 ppm Ba, in grey till. Soil sampling data collected in 1977 shows two high zinc values, 240 and 150 ppm Zn. A lake bottom sample of Greyhound Lake assayed 60 ppm Zn (Payne, 1982).

A total of 22 soil samples were collected by hand auger in two lines through the center of the area. Values returned were low with a single sample returning 122 ppm zinc, 26 ppm lead and 93 ppm copper. Values for silver and barium were less than 0.9 and 1880 ppm respectively.

AREA 10 (Grid 5W)

Area 10 is located in the southwest corner of the project area over a number of EM and gravity anomalies (Figure 26). Outcrop is almost absent but the grid is thought to be underlain by rocks of the Askin Group. An outcrop of siliceous argillite (chert?) is located in the northwest corner of the grid (Figure 46). Interest was generated at 5W grid from a wide accurate EM conductor thought to be associated with gravity anomalies (Kent, 1980). Data from the 1984 report by J.E. Hanneson shows that the gravity profiles done prior to 1984 mimic the terrain profiles when 2.0 was used as the density for Bouguer corrections. Hanneson found that when a Bouguer density of 2.8 was used to correct the data, the high gravity responses associated with topographic highs which have a large bedrock component were eliminated. Once this is done, a coherent gravity anomaly cannot be found to associate with any of the EM conductors

In 1983, four overburden holes were drilled down-ice from the anomaly. The highest values were 950 ppm Ba and 150 ppm Zn (Ovens, 1983; Figure 27).

Due to frozen ground soil sampling could not be carried out. The siliceous argillite outcrop was located and examined. The argillite appears very similar in appearance to silicified argillite found associated with the Clear Lake deposit.

AREA 11

This area is located approximately 600 meters west of Clear Lake and is on strike with Clear Lake stratigraphy (Figure 8). Geophysics done between 1975 and 1980 found an EM conductive zone is associated with a gravity anomaly (Payne 1980, map 21W in Payne's report). In the spring of 1981 a interpretation and synthesis of this previous data was done by Burton; gravity data was done by Crone Geophysics (Burton, 1982; Figure 47). Soil sampling in 1981 failed to locate any significant anomalies (Payne, 1982).

In 1990 a single line of six samples were collected by the overburden drill on L152E (Grid 1 West). The samples returned three possibly anomalous results for zinc and four probably anomalous results for silver. Down-ice of Area 11 41 soil samples were collected by hand auger. The samples returned sporadic isolated anomalies for all elements.

A total of 61 soil samples were collected by hand auger immediately south of and on the airstrip (south of area 11). In addition 10 soil samples were collected on the airstrip by overburden drill. Results from the hand auger sampling are highly anomalous on L605W, approximately 700 meters down-ice of the Clear Lake Deposit.

The samples collected by overburden drill, at depths up to four meters, on the airstrip returned numerous highly anomalous values for all elements except copper. Soil samples collected by hand auger, maximum depth 1.4 meters, from the same sites as the overburden drill returned sporadic, low order, possibly anomalous values for zinc, silver and barium. These results agree with those of Payne (1982) and Bloom (1982) in comparing deep, versus shallow, overburden samples.

AREA 12

This area is located approximately 2,200 meters southwest of Clear Lake and is underlain by Askin Group Stratigraphy (Figure 8). A 1000 meter long arcuate conductor is present. Airborne EM has also located several resistivity lows south of the arcuate structure (Burton, 1982; Grech, 1982). There is no gravity coverage of this area. Barite and pyrite are along fractures in dolomite and quartzite south of the conductor.

West of the conductor, two high zinc values, 410 ppm and 450 ppm Zn, were returned from soil samples (Payne, 1982).

A single line of five soil samples were collected by overburden drill on L615W. One sample returned 348 ppm zinc and three samples silver values in the range 0.9 - 1.8 ppm.

AREA 13

This area northwest of Clear Lake has several exposures of Askin dolomite that contain barite and malachite and/or galena and sphalerite in veins and fractures (Figure 8). Several low priority EM conductors are also present. Two small lakes draining the area returned weak to anomalous values from lake sediment samples (O'Conner 1979, primary data). Values are 20 ppm Pb, 320 ppm Zn and 14 ppm Pb, 288 ppm Zn (Payne, 1982).

A brief prospecting and soil sampling program was carried out in this area in 1990. Several of the soil samples were collected immediately adjacent to a small pond. Results from the soil samples collected by hand auger are highly anomalous for zinc (up to 790 ppm), silver (up to 1.5 ppm) and weakly anomalous for lead (up to 48 ppm). Results from the soil samples reflects known bedrock mineralization. Rock samples of calcite - barite veins containing disseminated galena and sphalerite returned up to >10,000 ppm lead, >10,000 ppm zinc, 4.2 ppm silver and >1% barium.

A large arcuate EM anomaly approximately one kilometer northwest of Area 13 was briefly investigated. Numerous barite veins were located. Results from three rock grab samples each returned greater than 1% barium. Five soil samples returned background values for all five elements.

AREA 14

This area is located southeast of Clear Lake in Anvil Range stratigraphy close to where the Tintina Fault is located on the geologic map (Figure 8). An EM conductor and associated ground magnetic anomaly define the anomalous area. In 1966 one diamond drill hole 94B-1 testing the conductor was completed (Hachey, 1966). It intersected 1.5' of massive pyrite that assayed 0.14% Zn and 0.48% Pb within a mylonitized andesite thought to belong to the Menzie Creek Volcanics.

The only outcrop found in the area is chert and argillite (Clear Lake Stratigraphy) found along the Pelly River .

Soil sampling and overburden sampling along the hillside of this area returned low largely non-anomalous values. Isolated samples returned spurious anomalies. The drillsite could not be located.

AREA 15 (G3)

Area 15 is located in Anvil Range Stratigraphy just outside of Total Energold's claims. An elliptical 0.4 mgal gravity anomaly approximately 500 X 500 meters within a broad Max-Min EM zone contains anomalous soil values up to 560 ppm Zn and 41 ppm Pb (Kent, 1976,1977; Figure 28 & 29).

This area is located on withdrawn interim selection Indian Lands (R-8). It is not known whether this will be part of the Selkirk Bands' final selection or which class it will be assigned if it is (Class A is restricted from staking; in Class B staking is allowed).

A total of 33 soil samples were collected by hand auger on two lines down-ice of the claim block. Four soil samples returned highly anomalous results for zinc (<642 ppm), copper (<337 ppm), silver (<2.1 ppm) and barium (<3080 ppm). Results for lead were low (<24 ppm). These samples were obtained from near outcrop material (0.8 - 1.0 m depth) consisting of graphitic argillite with specks of limonite.

AREA 16 (Grid 5E)

Grid 5E is located southeast of Clear Lake on the south shore of the Pelly River (Figure 8). The extrapolated contact with Clear Lake Stratigraphy is thought to pass through this grid. The area is generally low-lying, flat and wet with relic oxbows and meander scars.

Two gravity anomalies are found in this area. The southern anomaly is believed to be caused by a bedrock topography high and the northern anomaly is believed to be caused by sulphides (Hanneson, 1984). The northern anomaly coincides with an HLEM conductor which yielded depths of about 100 feet with conductances as high as about 10 siemens. Hanneson has modelled the anomaly and believes the total mass of bodies in the model to be 6.5 million tonnes.

One overburden hole was drilled in 1983 (Ovens, 1983; Figure 35). Fluvial sands and gravels were encountered to 22.2 meters with anomalous values of 1000 ppm Ba and 258 ppm Zn (Ovens, 1983). Speculation as to the source of these anomalies is difficult as the sediments have been redistributed and sorted, and only

one hole was drilled here. No bedrock was reached. Bedrock is exposed in the southwest corner of the grid in a former river bank. Overburden thickness is thought to be 30 to 40 meters thick.

A helicopter pad was cut in the center of the anomalous area. An outcrop on the south side of the Pelly River near the Askin Group - Clear Lake Stratigraphy boundary was examined and found to consist of calcareous phyllite. Four rock samples returned low values.

AREA 17

This area is located 800 meters southeast of the southern end of the Clear Lake Deposit and is close to being on strike of the deposit (Figure 8). Numerous EM and gravity anomalies occur in this area, two which have been drilled (Payne 1980, Map 19, gravity, & Map 21E, EM, both in Payne's report). DDH 78-16 intersected a crushed zone with graphitic quartz and DDH 81-30 intersected 1" layers of massive pyrite and occasional sphalerite stringers (Kent, 1978; Payne, 1981). The area is a possible zone of thrust faulting.

A total of 11 soil samples were collected by hand auger in an area of thick glacial debris. The soil line crossed the gossan south of the Clear Lake deposit. One sample, adjacent to the gossan, returned 220 ppm zinc. All other samples returned background values.

AREA 18

This area is located in the southwest corner of R-8 Indian Land Claim (Figure 6). Sampling in 1977 indicated a soil anomaly on line 54W of 450 ppm Zn associated with an incompletely delineated gravity anomaly (Kent, 1977; Figure 36)

No work was carried out on Area 18 in the 1990 Phase 1 program.

AREA 19

Area 19 (Figure 6) is defined by a number of gravity and EM anomalies located in 1976 and 1977 (G10, 11, 21, 22, 24; Figure 37 - 42 & 44; Payne 1981, Figure 20 in Payne's report). Pyrite and pyrrhotite is found in outcrop. One diamond drill hole DDH 78-5 intersected graphitic schists (Kent, 1978).

A total of 11 soil samples and two rock samples were collected in 1990. The samples returned a single isolated high of 254 ppm zinc. Results for barium ranged between 1480 - 2960 ppm. Silver, copper and lead values were low, < 0.8 ppm, <74 ppm and <22 ppm respectively. The rock samples returned background values.

AREA 20

Area 20 is located outside of the claim block north of area 19 (Figure 5). Pyrite, chalcopyrite, and malachite have been found in outcrop in this area. North of this area on Grid 66 West, a Pb-Zn soil, gravity and EM anomaly is present (Payne 1981).

A field investigation was not carried out in Phase 1 of the 1990 program.

AREA 21

Area 21 is located on the south side of the Pelly River approximately 500 meters south of the Clear Lake Deposit (Figure 10). It was formerly covered by the TUM Claims that were held by Cominco. Cominco conducted an Max-Min electromagnetic survey and found conductors, one of which they drilled in 1983 (Hole T83-1; Figure 3a; Murrell, 1983). A tuff similar to the ore horizon in the Clear Lake Deposit was thought to have been intersected in this hole (Subunit 3a - Heterolithic Breccia). The tuff is described as a light tan-grey coloured rock consisting of a fine light grey matrix with minute black specks, with slightly larger void to angular creamy white fragments. It is cut occasionally by a few grey quartz veins that often contain centrally located pyrite streaks. Pyrite is also found as disseminated granular patches which usually are associated with healed fractures or minute quartz veins. Two 1.5 meter sections were assayed and found to have 74 and 81 ppm Zn, and 1269 and 1527 ppm Ba. Samples of this rock type were sent to Vancouver Petrographics for thin section analysis. It was determined that the tuff is actually a dyke.

In the hanging wall of the hole, the hole intersected: a mudstone containing very sparse disseminations of siderite, barite and sphalerite; a narrow vein with sphalerite (2190 ppm Zn over 0.7 m); and, 11 m of mudstone with a network of hair-line thick pyrite filled fractures.

Graptolites were found near the top of the hole suggesting that the Ordovician Road River Rocks were thrust over younger Clear Lake Stratigraphy.

The area was examined from the air and on the ground in the vicinity of the Cominco drill hole. A total of 33 soil samples in two lines were collected over and to the west of the drill hole. Sample results are uniformly low with isolated single anomalous values for zinc (172 ppm) and barium (1980 ppm).

CONCLUSIONS AND RECOMMENDATIONS

The Clear Lake Property is underlain by Selwyn Basin stratigraphy favorable for statiform sedimentary exhalative silver-lead-zinc mineralization. The Clear Lake Deposit occurs within a distinctive stratigraphic package (Clear Lake Stratigraphy) thought to be part of the Earn Group. This package may host other silver-lead-zinc deposits similar to the Clear Lake deposit, possibly with less pyrite. Geological mapping and stratigraphic correlation are difficult as the rocks are recessive weathering.

The geochemical soil sampling utilizing hand augers and an overburden drill were successful in locating anomalies (areas 11, 13, 19) over or down-ice of known mineralization. Significant geochemical anomalies at Areas 1, 12, 15, and 19 are unexplained.

At Area 11 the deeper overburden sampling (4.0 m) carried out by Pionjar drill was more succesful in outlining geochemically anomalous areas than the shallower (1.2 m) hand auger samples.

A total of seven areas, Area's 4 - 9, and 21, require no further follow-up in the near future.

The following is recommended for Areas 1 - 3, 10 - 20.

1. All outcrops should be mapped in detail with special attention to exposures in and adjacent to the Clear Lake stratigraphic package (Areas 11, 14, 16, 17,).
2. All areas, except for Areas 16 and 17, require further geochemical soil sampling utilizing hand augers. Overburden sampling (pionjar drill) should be carried out in the area of sporadic isolated anomalous soil samples collected by hand auger.
3. Areas 2 and 15 require geophysics to trace out magnetite and graphitic horizons respectively.
4. Areas 11 and 17 require geophysics and diamond drilling (plus down-hole geophysics) to test favorable horizons within the Clear Lake Stratigraphic package.
5. Area 16 requires a recheck on the geophysical anomaly, followed by diamond drilling.
6. In the course of the above recommended work the areas should be periodically re-evaluated and targets most indicative of shale-hosted massive sulphides diamond drilled.

Respectfully submitted,



September 15, 1990

Richard Basnett, B.Sc.

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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 13 years.
3. I am a member of the Geological Association of Canada.
4. I participated in the work described in this report as Yukon Exploration Manager for Total Energold Corporation.

Date: Sept 14/90



Richard Basnett, B.Sc.

STATEMENT OF COSTS

Assessment Work valuation to apply to the Clear lake property.

1. Geological and Geochemical

A. Fieldwork

R. Hulstein, B.Sc., of Whitehorse, Yukon. May 25 - June 6, 1990; 12 days @ \$350.00/day:	\$4200.00
R. Basnett, B.Sc., of Whitehorse, Yukon. May 11, 25 - June 6, 1990; 13 days @ \$400.00/day:	5200.00
R. Zuran, B.Sc., of Whitehorse, Yukon. May 11, 25 - June 6, 1990; 13 days @ 350.00/day:	4550.00
L. Walton, M.Sc., of Whitehorse, Yukon. May 11, 1990: 1 day @ \$320.00/day:	320.00
P. Malkin of Whitehorse, Yukon. May 25 - June 6, 1990; 12 days @ \$225.00/day:	2700.00

B. Geochemical Analyses

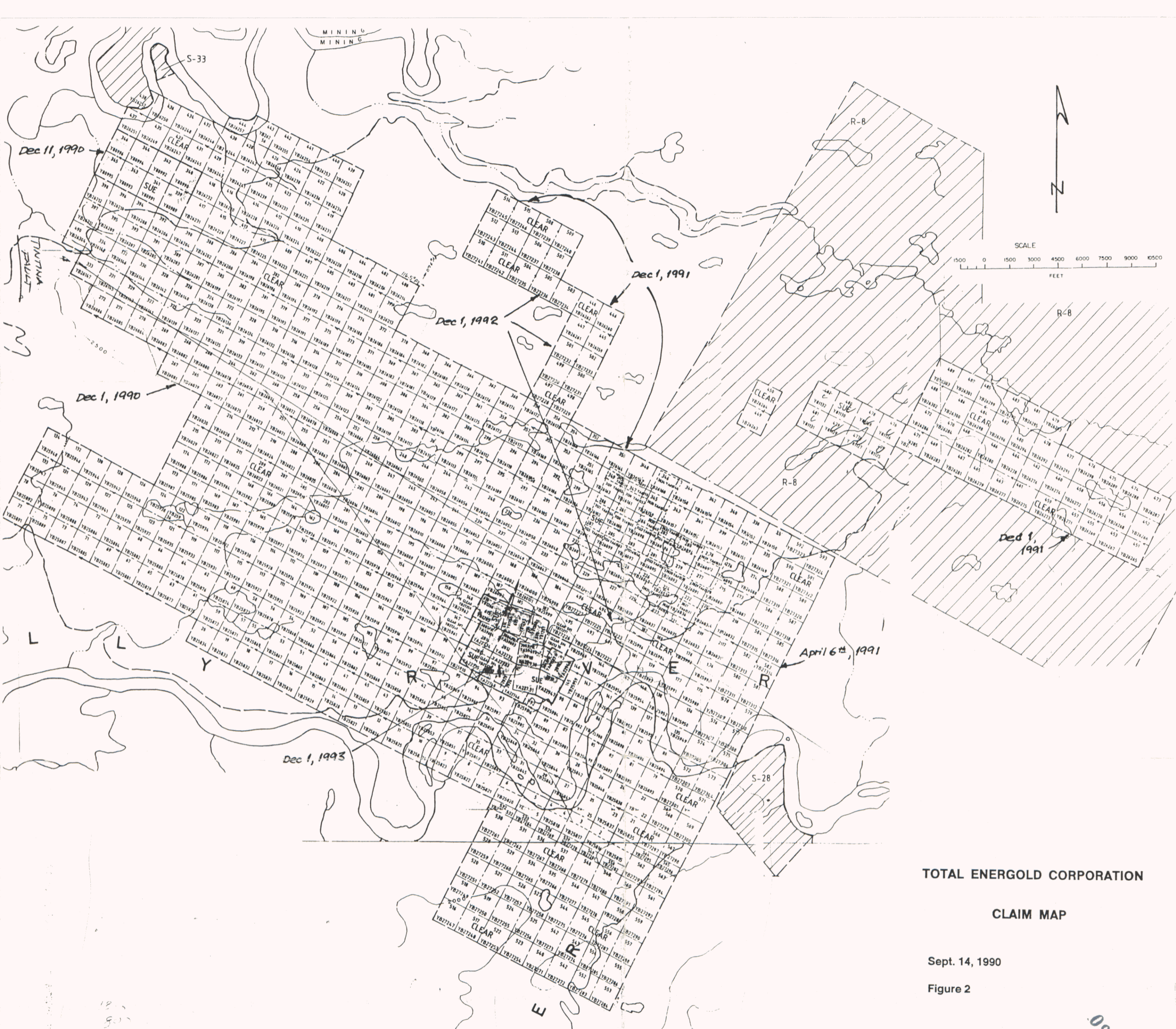
20 rock, 451 soil samples:	5342.00
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C. Support Costs

Camp Accom. & Board:	1203.00
Gasoline:	50.25
Truck:	1200.00
Radio and phone charges:	25.00
Miscellaneous:	668.00
Aircraft charter:	18553.00
Maps and publications:	625.00
Equipment rental (plugger):	888.88
Instrument & equipment purchase (Drill steel, jack, augers, etc.):	5271.00
Stationary and supplies:	190.00

D. Research and Report Preparation

R. Hulstein, B.Sc., 6.0 days @ \$350.00/day:	2100.00
R. Basnett, B.Sc., 5 days @ \$400.00/day:	2000.00
R. Zuran, B.Sc., 7 days @ 350.00/day:	2450.00
L. Walton, M.Sc., 1 day @ \$320.00/day:	320.00
Drafting:	2000.00
Reprographics and binding:	275.00
Total Valuation of 1990 Assessment Work:	<u>\$60131.13</u>



TOTAL ENERGOLD CORPORATION

CLAIM MAP

Sept. 14, 1990

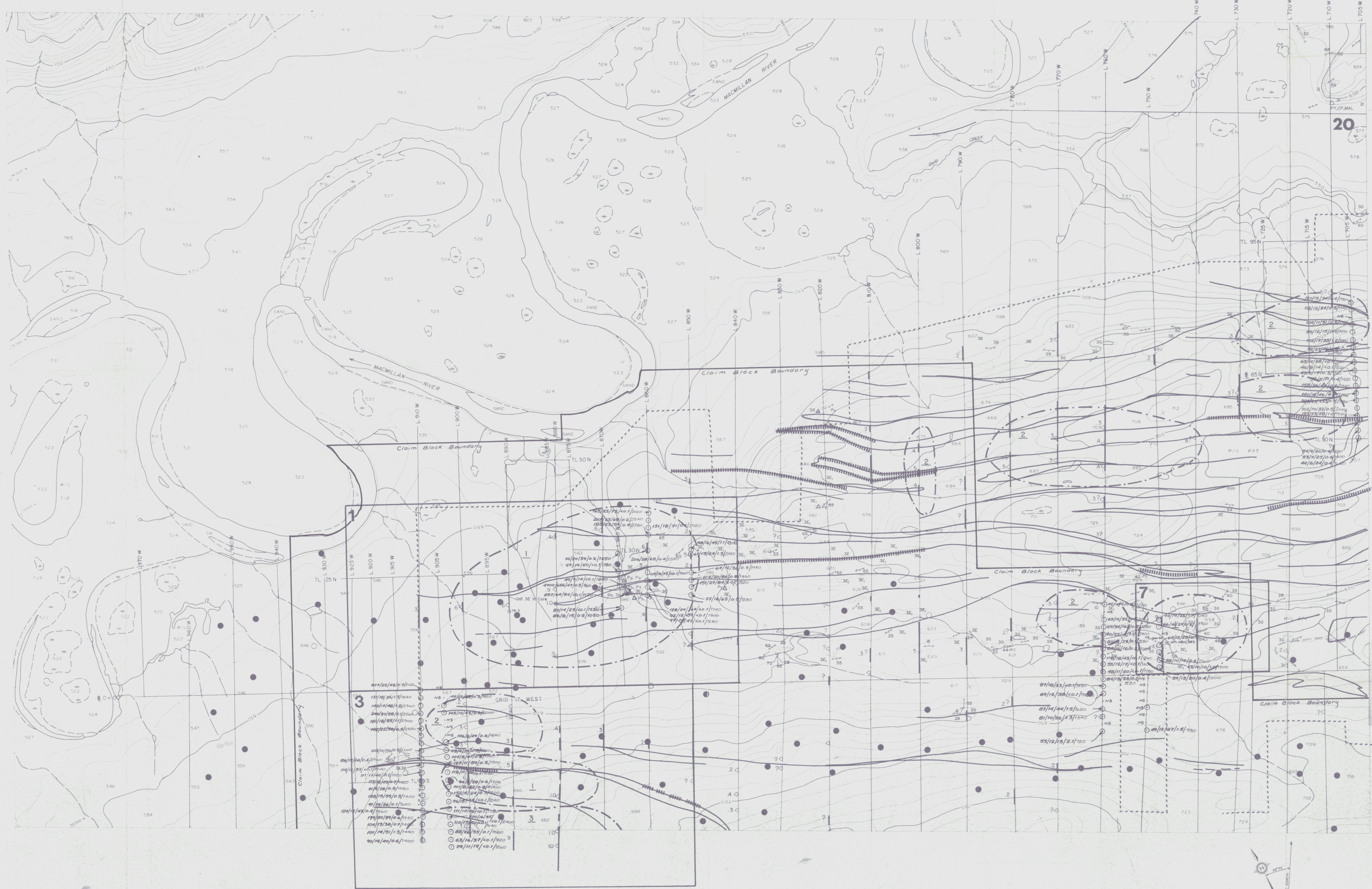
Figure 2

MAP#105 L/11/14/15
Doc # 092871

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LEGEND	
AGE	LITHOLOGY
INTRUSIVE ROCKS	INTRUSIVE ROCKS
INTRUSIVE CONTACT 1	INTRUSIVE CONTACT 2
INTRUSIVE CONTACT 3	INTRUSIVE CONTACT 4
INTRUSIVE CONTACT 5	INTRUSIVE CONTACT 6
INTRUSIVE CONTACT 7	INTRUSIVE CONTACT 8
INTRUSIVE CONTACT 9	INTRUSIVE CONTACT 10
INTRUSIVE CONTACT 11	INTRUSIVE CONTACT 12
INTRUSIVE CONTACT 13	INTRUSIVE CONTACT 14
INTRUSIVE CONTACT 15	INTRUSIVE CONTACT 16
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INTRUSIVE CONTACT 87	INTRUSIVE CONTACT 88
INTRUSIVE CONTACT 89	INTRUSIVE CONTACT 89
INTRUSIVE CONTACT 90	INTRUSIVE CONTACT 90



SYMBOLS	
[Symbol]	Bedding (dip unknown, known)
[Symbol]	First Foliation (S ₁) (inclined, vertical)
[Symbol]	Second Foliation (S ₂) (inclined, vertical)
[Symbol]	Joint (inclined)
[Symbol]	Lamination (inclined, plunge unknown)
[Symbol]	Outcrop
[Symbol]	Geological Boundary (defined, approximate, assumed)
[Symbol]	Syncline
[Symbol]	Anticline (Arrow indicates plunge)
[Symbol]	Multiple Fold (Arrow indicates plunge)
[Symbol]	Drag Fold (Arrow indicates plunge)
[Symbol]	Shearing and Dip
[Symbol]	Fault, assumed
[Symbol]	Fossil Locality
[Symbol]	Mineral Occurrences—Ba-barite, Ga-galena, Sph-sphalerite, Py-pyrite, Cp-chalcopyrite, Po-pyrrhotite, Md-malachite
[Symbol]	Trench
[Symbol]	Subcrop Trace of Clear Lake Deposit
[Symbol]	Gossan
[Symbol]	Spot Elevations (metres ASL)
[Symbol]	Water Elevation (metres ASL)
[Symbol]	Contour Elevation (metres ASL)
[Symbol]	Contour Interval 10 metres
[Symbol]	Cut grid line
[Symbol]	Diamond drill hole (year, number)
[Symbol]	Road
[Symbol]	Stream
[Symbol]	Swamp
[Symbol]	EM Conductor Axis (EM-17, Max-Min)
[Symbol]	Mk VI Input Survey
[Symbol]	2 or 3 Channel Anomaly
[Symbol]	4, 5 or 6 Channel Anomaly
[Symbol]	Gravity Anomaly Peak (mgals)
[Symbol]	Gravity Anomaly, Broad Zone With Peak Value (mgals)
[Symbol]	Ground Magnetic Anomaly
[Symbol]	Boundary of Gravity Survey
[Symbol]	Geophysical Anomaly and Category
[Symbol]	Exploration Target Area
[Symbol]	Py, Po, Ga, Sp, Ba = Pyrite, Pyrrhotite, Galena, Sphalerite, Barite
[Symbol]	Rock chip sample
[Symbol]	Soil sample
[Symbol]	Soil sample (Pionjar = Holman Sampler)
[Symbol]	Silt sample
[Symbol]	Claim post
[Symbol]	Helicopter pad
[Symbol]	Assay results listed as: Zn (ppm) / Pb (ppm) / Cu (ppm) / As (ppm) / Ba (ppm)

FIGURE 105L, 11/14/82, 2371
Doc# 105L, 11/14/82, 2371

CLEAR LAKE PROJECT

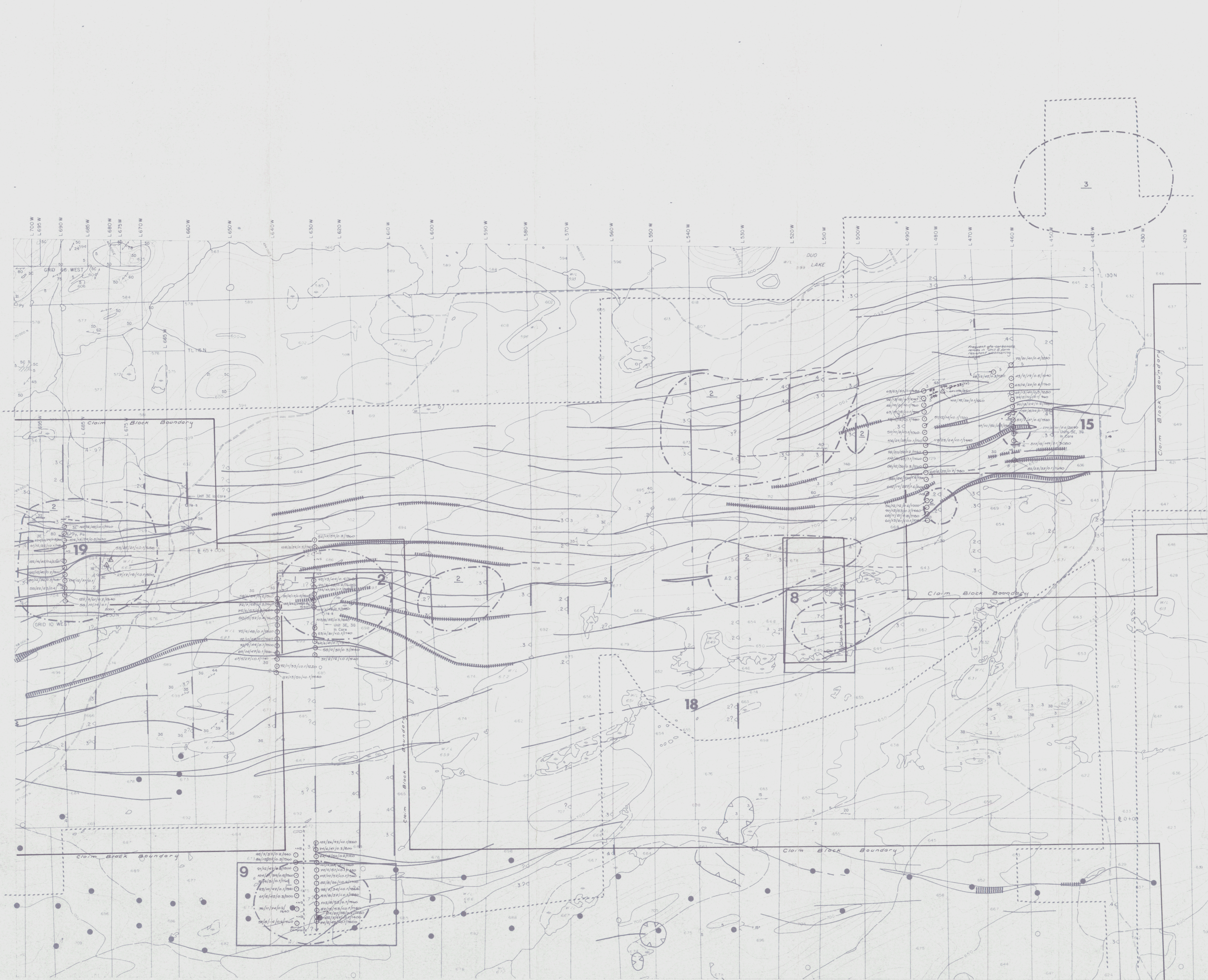
GEOLOGY AND GEOPHYSICAL COMPILATION SHEET 1

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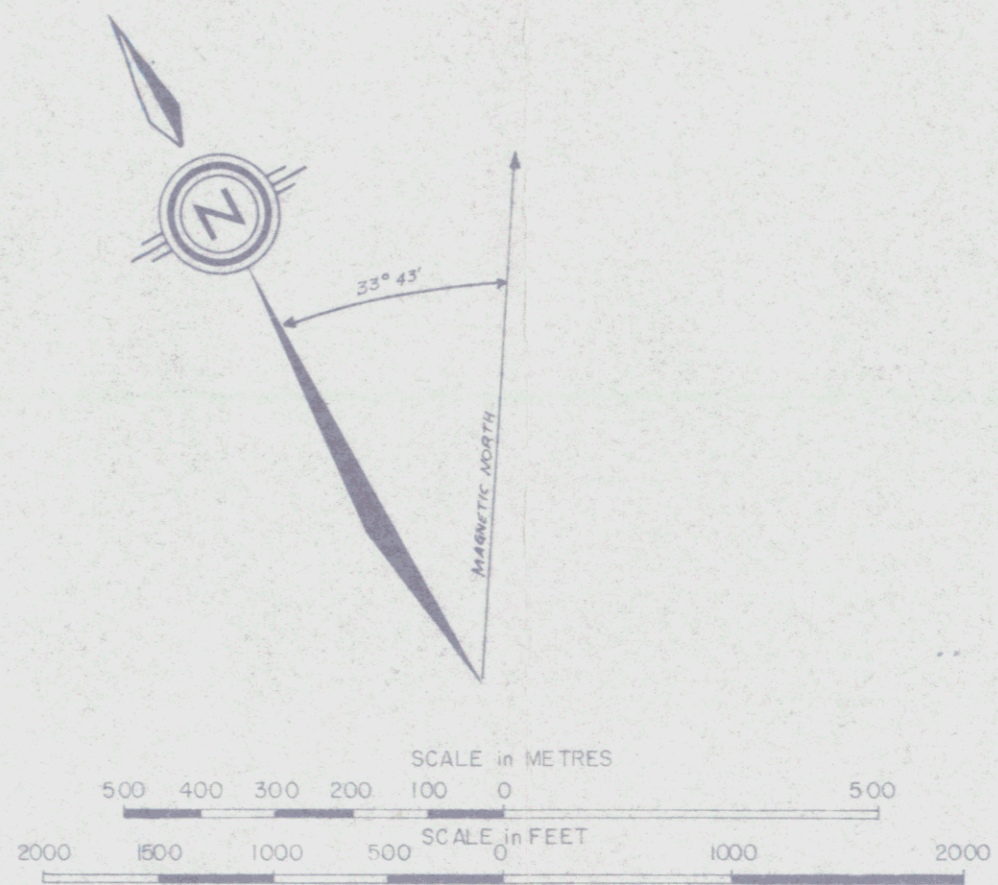
SCALE IN FEET: 0 200 400 600 800 1000

DRAWN BY: [Name] DATE: MARCH 1990
CHECKED BY: [Name] CHECKED NO: 5
SCALE: 1:50,000

Total Energold Corporation



AGE		LITHOLOGY		LEGEND	
CHETACHEOON	INTRUSIVE ROCKS	DIORITE, POKHYITIC DIORITE, GABBRO	LOWER PALAEZOIC	VANCOUVER STRATIGRAPHY	
17	FELTITE		181	WENDE CREEK (N) VOLCANICS (N)	
INTRUSIVE CONTACT 1		CLEAR LAKE STRATIGRAPHY		182	PROXIMATELY GREEN CHALCITIC MAFIC VOLCANICS (N/P)
18	ARGILLITE (UNIT 4)	183	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
19	MARBLE SLTSTONE (UNIT 5)	184	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
20	EXHALITE (UNIT 3)	185	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
21	BAND BARRED ARGILLITE (UNIT 2)	186	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
22	SANDSTONE (DISTORTED) (UNIT 1)	187	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
23	LIMESTONE	188	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
24	CHEST	189	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
25	SILT ARGILLITE	190	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
26	SILT ARGILLITE	191	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
27	CHEST PEBBLE CONGLOMERATE	192	VARCOLORED SLTSTONE, SILTSTONE, CHEST, LIMESTONE AND MUDSTONE	VANCOUVER STRATIGRAPHY	
UNCONFORMITY 1		ASBEN GROUP		UNCONFORMITY 2	
28	QUARTZITE	193	CALCAREOUS PYLITE, INTERBEDDED LIMESTONE AND DOLOMITE, CHALCITIC PYLITE	UNCONFORMITY 3	
29	DOLOMITE	194	MARBLE METAVOLCANIC ROCKS, FINE METAGRADED, CHALCITIC TUFFACEOUS ROCKS	UNCONFORMITY 4	
30	ARGILLITE	195	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 5	
31	SILT DOLOMITE	196	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 6	
32	SLT DOLOMITE	197	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 7	
33	SLT DOLOMITE	198	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 8	
34	SLT DOLOMITE	199	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 9	
35	SLT DOLOMITE	200	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 10	
36	SLT DOLOMITE	201	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 11	
37	SLT DOLOMITE	202	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 12	
38	SLT DOLOMITE	203	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 13	
39	SLT DOLOMITE	204	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 14	
40	SLT DOLOMITE	205	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 15	
41	SLT DOLOMITE	206	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 16	
42	SLT DOLOMITE	207	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 17	
43	SLT DOLOMITE	208	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 18	
44	SLT DOLOMITE	209	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 19	
45	SLT DOLOMITE	210	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 20	
46	SLT DOLOMITE	211	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 21	
47	SLT DOLOMITE	212	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 22	
48	SLT DOLOMITE	213	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 23	
49	SLT DOLOMITE	214	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 24	
50	SLT DOLOMITE	215	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 25	
51	SLT DOLOMITE	216	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 26	
52	SLT DOLOMITE	217	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 27	
53	SLT DOLOMITE	218	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 28	
54	SLT DOLOMITE	219	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 29	
55	SLT DOLOMITE	220	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 30	
56	SLT DOLOMITE	221	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 31	
57	SLT DOLOMITE	222	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 32	
58	SLT DOLOMITE	223	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 33	
59	SLT DOLOMITE	224	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 34	
60	SLT DOLOMITE	225	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 35	
61	SLT DOLOMITE	226	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 36	
62	SLT DOLOMITE	227	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 37	
63	SLT DOLOMITE	228	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 38	
64	SLT DOLOMITE	229	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 39	
65	SLT DOLOMITE	230	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 40	
66	SLT DOLOMITE	231	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 41	
67	SLT DOLOMITE	232	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 42	
68	SLT DOLOMITE	233	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 43	
69	SLT DOLOMITE	234	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 44	
70	SLT DOLOMITE	235	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 45	
71	SLT DOLOMITE	236	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 46	
72	SLT DOLOMITE	237	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 47	
73	SLT DOLOMITE	238	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 48	
74	SLT DOLOMITE	239	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 49	
75	SLT DOLOMITE	240	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 50	
76	SLT DOLOMITE	241	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 51	
77	SLT DOLOMITE	242	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 52	
78	SLT DOLOMITE	243	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 53	
79	SLT DOLOMITE	244	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 54	
80	SLT DOLOMITE	245	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 55	
81	SLT DOLOMITE	246	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 56	
82	SLT DOLOMITE	247	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 57	
83	SLT DOLOMITE	248	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 58	
84	SLT DOLOMITE	249	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 59	
85	SLT DOLOMITE	250	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 60	
86	SLT DOLOMITE	251	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 61	
87	SLT DOLOMITE	252	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 62	
88	SLT DOLOMITE	253	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 63	
89	SLT DOLOMITE	254	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 64	
90	SLT DOLOMITE	255	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 65	
91	SLT DOLOMITE	256	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 66	
92	SLT DOLOMITE	257	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 67	
93	SLT DOLOMITE	258	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 68	
94	SLT DOLOMITE	259	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 69	
95	SLT DOLOMITE	260	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 70	
96	SLT DOLOMITE	261	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 71	
97	SLT DOLOMITE	262	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 72	
98	SLT DOLOMITE	263	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 73	
99	SLT DOLOMITE	264	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 74	
100	SLT DOLOMITE	265	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 75	
101	SLT DOLOMITE	266	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 76	
102	SLT DOLOMITE	267	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 77	
103	SLT DOLOMITE	268	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 78	
104	SLT DOLOMITE	269	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 79	
105	SLT DOLOMITE	270	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 80	
106	SLT DOLOMITE	271	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 81	
107	SLT DOLOMITE	272	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 82	
108	SLT DOLOMITE	273	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 83	
109	SLT DOLOMITE	274	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 84	
110	SLT DOLOMITE	275	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 85	
111	SLT DOLOMITE	276	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 86	
112	SLT DOLOMITE	277	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 87	
113	SLT DOLOMITE	278	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 88	
114	SLT DOLOMITE	279	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 89	
115	SLT DOLOMITE	280	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 90	
116	SLT DOLOMITE	281	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 91	
117	SLT DOLOMITE	282	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 92	
118	SLT DOLOMITE	283	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 93	
119	SLT DOLOMITE	284	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 94	
120	SLT DOLOMITE	285	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 95	
121	SLT DOLOMITE	286	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 96	
122	SLT DOLOMITE	287	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 97	
123	SLT DOLOMITE	288	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 98	
124	SLT DOLOMITE	289	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 99	
125	SLT DOLOMITE	290	CALCAREOUS PYLITE, UNDIFFERENTIATED	UNCONFORMITY 100	



092871

FIGURE 1114/05L-11/15/15 No 092871 209

CLEAR LAKE PROJECT

GEOLGY AND GEOPHYSICAL COMPILATION

SHEET 2

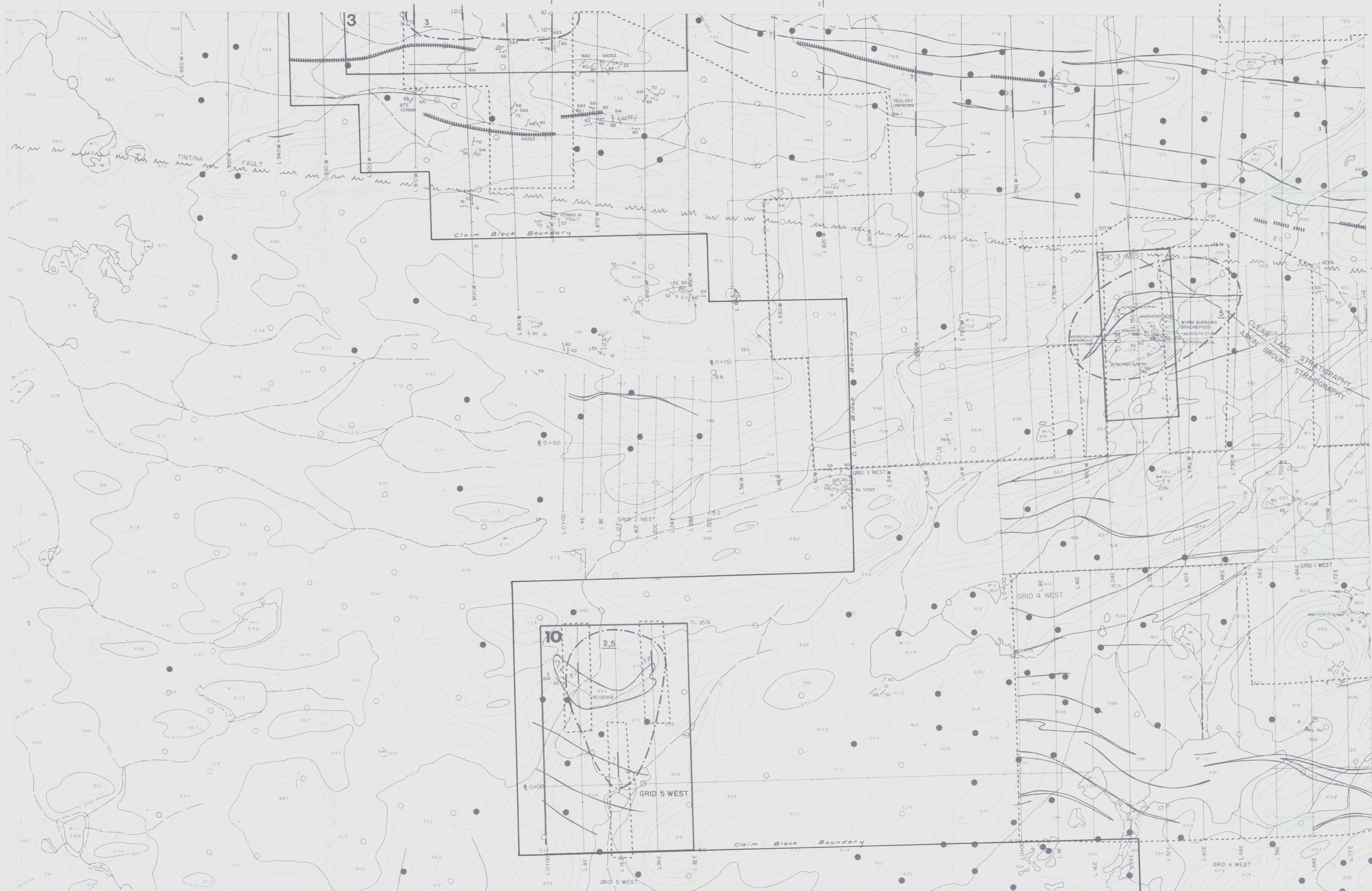
ISSUED BY: 12/17 MARCH 2009

DESIGNED BY: J. W. K. W. 12/17 MARCH 2009

DRAWN BY: J. W. K. W. 12/17 MARCH 2009

Checked by: J. W. K. W. 12/17 MARCH 2009

Total Energold Corporation



- SYMBOLS**
- Bedding (type unknown, known)
 - First Foliation (S₁) (inclined, vertical)
 - Second Foliation (S₂) (inclined, vertical)
 - Joint inclined
 - Lineation (inclined, plunge unknown)
 - Outcrop
 - Geological Boundary (defined, approximate, assumed)
 - Syncline
 - Anticline (Arrow indicates plunge)
 - Multiple Fold (Arrow indicates plunge)
 - Drag Fold (Arrow indicates plunge)
 - Shearing and Dip
 - Fault, assumed
 - Fossil Locality
 - Mineral Occurrence—Ba-barite, Ca-galena, Sp-sphalerite, Py-pyrite, Cp-chalcopyrite, Po-pyrrhotite, Ms-malachite
 - Trench
 - Subcrop Trace of Clear Lake Deposit
 - Gossan
 - Spot Elevations (metres ASL)
 - Water Elevation (metres ASL)
 - Contour Elevation (metres ASL)
 - Contour Interval 10 metres
 - Out grid line
 - Diamond drill hole (year, number)
 - Road
 - Stream
 - Swamp
 - EM Conductor Axis (EM-17, Max-Min)
 - Mk VI Input Survey
 - 2 or 3 Channel Anomaly
 - 4, 5 or 6 Channel Anomaly
 - Gravity Anomaly Peak (mgals)
 - Gravity Anomaly, Broad Zone With Peak Value (mgals)
 - Ground Magnetic Anomaly
 - Boundary of Gravity Survey
 - Geophysical Anomaly and Category
 - Exploration Target Area
 - Tintina Fault
 - Rock chip sample
 - Soil sample
 - Soil sample (Planjar + Helman Sample)
 - Silt sample
 - Claim post
 - Helicopter pad

Assay results listed as:
Zn (ppm) / Pb (ppm) / Cu (ppm) / Ag (ppm) / Ba (ppm)

LEGEND

AGE	LITHOLOGY	ANVIL RANGE STRATIGRAPHY
CRETACEOUS	DIORITE, PORPHYRYC DIORITE, GABBRO	MENDE CREEK (7) VOLCANICS (7)
20	FELSITE	PRE-ORIGINALLY GREEN CHALCITIC MAFIC VOLCANICS (7) (P)
INTRUSIVE CONTACT ?		GREEN CHALCITIC VOLCANICS (7) (P) INTERCALATED WITH UNCOLLORED SILTSTONES, MUDSTONES AND LIMESTONE
MISSISSIPPIAN	CLEAR LAKE STRATIGRAPHY	UNCOLLORED MUDSTONE, SILTSTONE, CHERT, LIMESTONE AND QUARTZITE
19	ARKALITE (UNIT 4)	GRADATIONAL CONTACT ?
18	NARROW BULPHUS (UNIT 3)	VANGOSIA FORMATION
17	GRANITE (UNIT 2)	CALCAREOUS PHYLITE, INTERBEDDED LIMESTONE AND DOLOMITE, CHALCITIC PHYLITE
16	NARROW BULPHUS (UNIT 2)	MAFIC METAVOLCANIC ROCKS, FINE-MED GRAINED, CHALCITIC TUFFS AND MUDROCK
15	SANDSTONE (SILTSTONE) (UNIT 1)	1
14	LIMESTONE	2
13	CHERT	3
12	SILT SHALE	4
11	SILT SHALE	
10	CHERT, FELSIC CONGLOMERATE	
UNCONFORMITY ?		
PERMIAN	ANVIL GROUP	NET MINE FORMATION
9	QUARTZITE	CHALCITIC FELSIC TUFFITE PHYLITE, MAY CONTAIN CALCAREOUS ANHYDRITE
8	DOLOMITE	GRANITIC PHYLITE
7	ARKALITE	CALCAREOUS GRANITIC PHYLITE
6	SILT SHALE	MAFIC METAVOLCANIC ROCKS, CHALCITIC BIFURFACEDUS ROCKS
5	SILT SHALE	PHYLITE UNDIFFERENTIATED
4	FAULT CONTACT ?	

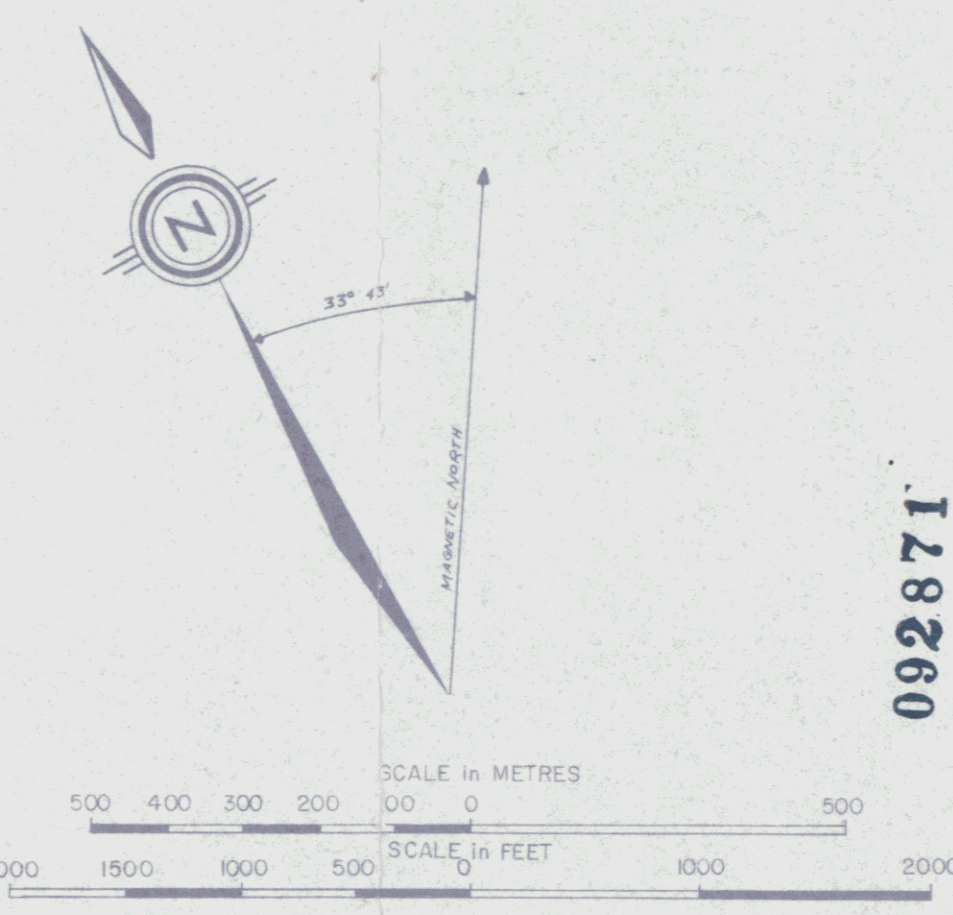


FIGURE 11/11/05 L-11, 14/15 Doc # 092871

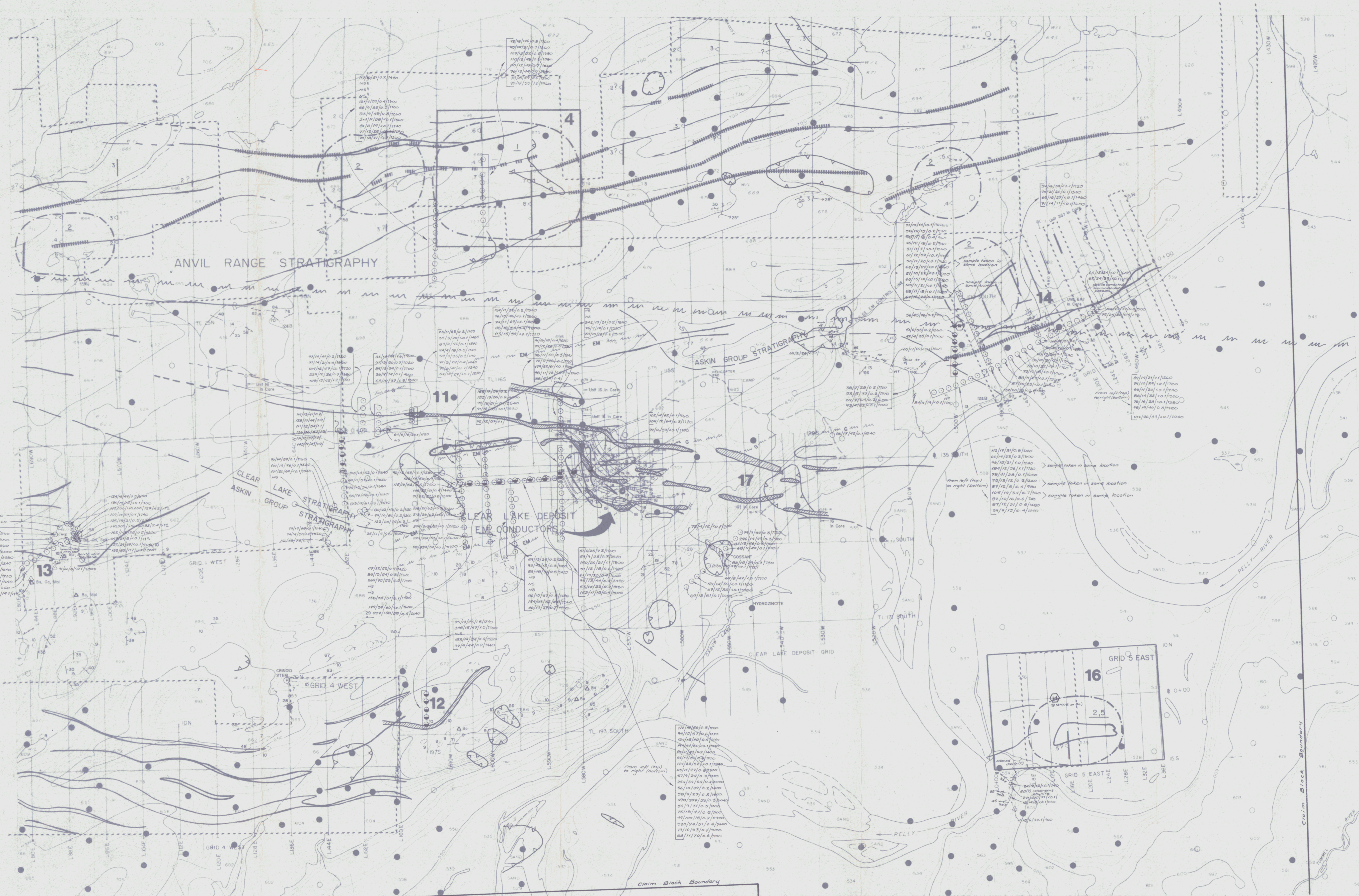
1092871

CLEAR LAKE PROJECT

GEOLOGY AND GEOPHYSICAL COMPILATION

SHEET 3

DRAWN BY: M. V. DATE: MARCH 1990
CHECKED BY: M. V. DRAWN ON: 7
TEXT: JSE & SCALE: 1:10000
Total Energold Corporation



- SYMBOLS**
- Bedding (top unknown, known)
 - First Foliation (S₁) (inclined, vertical)
 - Second Foliation (S₂) (inclined, vertical)
 - Joint (inclined)
 - Lineation (inclined, plunge unknown)
 - Outcrop
 - Geological Boundary (defined, approximate, assumed)
 - Syncline
 - Anticline (Arrow indicates plunge)
 - Multiple Fold (Arrow indicates plunge)
 - Drag Fold (Arrow indicates plunge)
 - Shearing and Dip
 - Fault, assumed
 - Fossil Locality
 - Mineral Occurrence - Ba-barite, Cr-galenite, Sp-sphalerite, Py-pyrite, Cp-chalcocopyrite, Po-pyrrhotite, Md-malachite
 - Trench
 - Subcrop Trace of Clear Lake Deposit
 - Gossan
 - Spot elevations (metres ASL)
 - Water elevation (metres ASL)
 - Contour elevation (metres ASL)
 - Contour interval 10 metres
 - Cut grid line
 - Diamond drill hole (year, number)
 - Road
 - Stream
 - Swamp
 - EM Conductor Axis (EM-17, Max-Min)
 - Mk VI Input Survey 2 or 3 Channel Anomaly
 - Mk VI Input Survey 4, 5 or 6 Channel Anomaly
 - Gravity Anomaly Peak (mgals)
 - Gravity Anomaly, Broad Zone With Peak Value (mgals)
 - Ground Magnetic Anomaly
 - Boundary of Gravity Survey
 - Geophysical Anomaly and Category
 - Exploration Target Area
 - Tintina Fault

- LEGEND FOR DATA from Appendix III 1981 by Payne**
- Strong EM and Gravity Anomaly
 - EM Anomaly Only
 - Gravity Anomaly Only
 - Gravity Low
 - Interpreted fault or fault contact
 - G from Gravity
 - EM from max min II EM Anomaly Identification B
 - Airborne Resistivity Lows
 - Rock chip sample
 - Soil sample
 - Soil sample (Planar + Holman Sampler)
 - Silt sample
 - Claim post
 - Helicopter pad
- Assay results listed as:
Zn (ppm) / Pb (ppm) / Cu (ppm) / Ag (ppm) / Ba (ppm)

LEGEND

AGE	LITHOLOGY	ANVIL RANGE STRATIGRAPHY
1	DIORITE, PORPHYRY DIORITE, GABBRO	MENDER CREEK (O) VOLCANICS (T)
2	PLATEAU	LOWER PALAEZOIC
3	INTRUSIVE CONTACT ?	PROBABLY GREEN CALCIUM MAFIC VOLCANICS (T) BY
4	CLEAR LAKE STRATIGRAPHY	GREEN CALCIUM MAFIC VOLCANICS (T) BY INTERCALATED WITH UNDIFFERENTIATED SILTSTONE, MUDSTONE AND LIMESTONE
5	ARGILLITE (L) UNIT 1	MA3
6	MARINE EQUIVALENT (L) UNIT 2	UNDIFFERENTIATED MUDSTONE, SILTSTONE, CHEST LIMESTONE AND GYPSUM
7	ARGILLITE (L) UNIT 3	GRADATIONAL CONTACT ?
8	MARINE EQUIVALENT (L) UNIT 3	YANGOSIA FORMATION
9	SANDSTONE (SILTSTONE) (L) UNIT 1	CALCIUM PHYLITE, INTERBEDDED LIMESTONE AND SILTSTONE, CALCITE PHYLITE
10	LIMESTONE	MARINE METAVOLCANIC ROCKS, FINE GRAINED, CALCITE, TUFFaceous ROCKS
11	ROCK	UNDIFFERENTIATED
12	ELBY ARGILLITE	GRADATIONAL CONTACT ?
13	CHEST PEBBLE CONGLOMERATE	NET. AGE FORMATION
14	UNCONFORMITY ?	CALCIUM SILICATE (MAGNETIC) PALLASITE, MAY CONTAIN GRANIFIED PALLASITE
15	ASKIN GROUP	CALCIUM SILICATE PALLASITE
16	QUARTZITE	CALCIUM SILICATE PALLASITE
17	DOLOMITE	MARINE METAVOLCANIC ROCKS, CHLORITE HIGH TUFFaceous ROCKS
18	ARGILLITE	PHYLITE UNDIFFERENTIATED
19	SILTSTONE	
20	FAULT CONTACT ?	

092871-211

FIGURE 105L-111415 Doc#082671

CLEAR LAKE PROJECT

GEOLGY AND GEOPHYSICAL COMPILATION SHEET 4

SCALE - METRES

SCALE - FEET

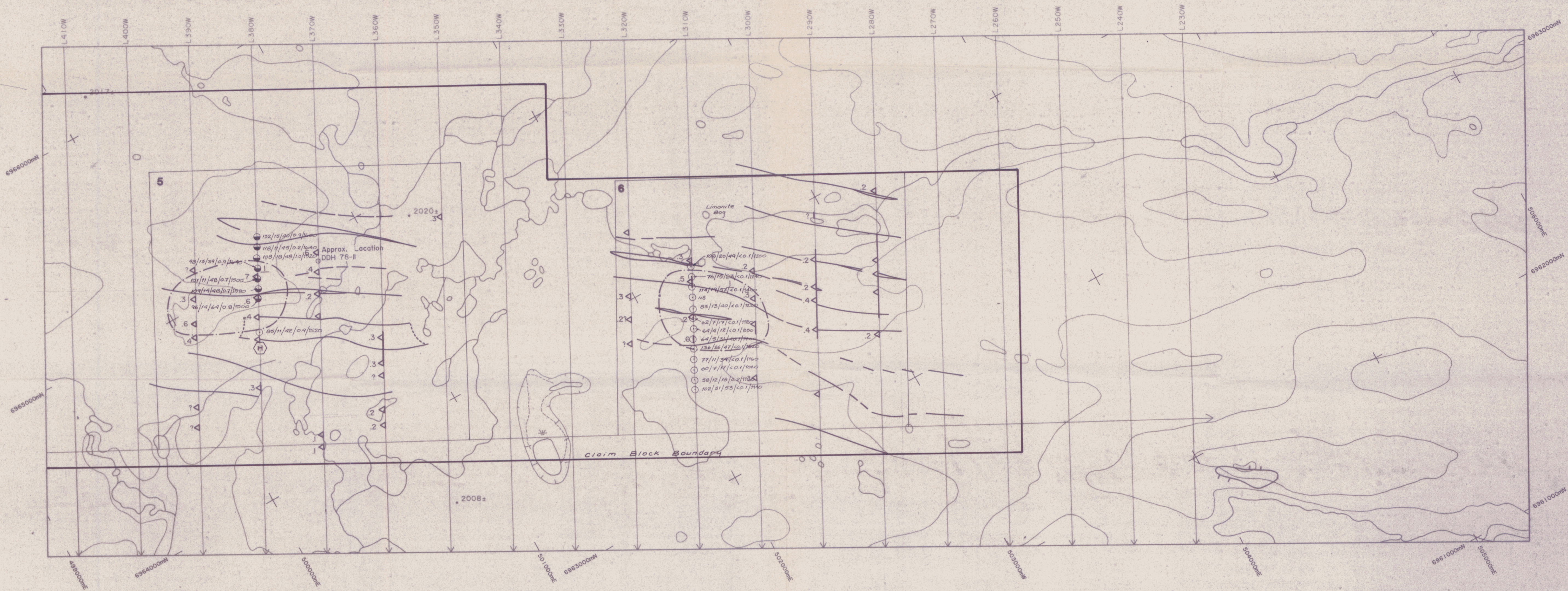
3000 2000 1000 0 1000 2000

DRAWN BY: [Name] DATE: MARCH 1988

CHECKED BY: [Name] DRAWN BY: [Name]

SCALE: 1:40000

Total Energold Corporation



△ Rock chip sample
 ○ Soil sample
 ● Soil sample (Pionjar + Holman Sampler)
 × Silt sample
 □ Claim post
 (H) Helicopter pad
 Assay results listed as:
 Zn (ppm) / Pb (ppm) / Cu (ppm) / Ag (ppm) / Ba (ppm)

SYMBOLS

	Bedding (tops unknown, known)		Fossil Locality
	First Foliation (S ₁) (inclined, vertical)		Mineral Occurrence — Ba-barite, Gn-galena, Sp-sphalerite, Py-pyrite, Cp-chalcopyrite, Po-Pyrrhotite, Mal-Malachite
	Second foliation (S ₂) (inclined vertical)		Trench
	Joint inclined		Subcrop Trace of Clear Lake Deposit
	Lineation (inclined plunge unknown)		Gossan
	Outcrop		Spot Elevations (metres ASL)
	Geological Boundary (defined, approximate, assumed)		Water Elevation (metres ASL)
	Syncline		Contour Elevation (metres ASL)
	Anticline (Arrow indicates plunge)		Contour Interval 10 metres
	Multiple Fold (arrow indicates plunge)		Cut Grid Line
	Drag Fold (Arrow indicates plunge)		Diamond Drill Hole (year, number)
	Shearing and Dip		Road
	Fault Assumed		Stream
			Swamp

LEGEND

AGE	LITHOLOGY	ANVIL RANGE STRATIGRAPHY
CRETACEOUS	INTRUSIVE ROCKS	MENZIE CREEK (?) VOLCANOES (?)
21	DIORITE, PORPHYRITIC DIORITE, GABBRO	LOWER PALEOZOIC
20	FELSITE	6A1
	INTRUSIVE CONTACT ?	6A2
MESOSSOPHAN	CLEAR LAKE STRATIGRAPHY	6A3
19	ARGILLITE (UNIT 4)	GRADATIONAL CONTACT ?
18	MASSIVE SULPHIDE (UNIT 3)	YANGORDA FORMATION
17	EXHALITE (UNIT 2A)	50
16	SAND BANDED ARGILLITE (UNIT 2)	50
15	SANDSTONE (SILTSTONE) (UNIT 1)	50
14	LIMESTONE	50
13	CHERT	50
12	SILTY ARGILLITE	50
11	CHERT PEBBLE CONGLOMERATE	50
DEVONIAN	UNCONFORMITY ?	GRADATIONAL CONTACT ?
	ASKIN GROUP	MT. MYE FORMATION
10	QUARTZITE	30
9	DOLOMITE	30
8	ARGILLITE	30
7	SILTY DOLOMITE	30
SLURIAN	FAULT CONTACT ?	CAMBRIAN
		3

MAP# 105L-11,14,15 Doc# 092871

TOTAL ENERGOLD CORPORATION

CLEAR LAKE PROJECT

GEOLOGY AND GEOPHYSICAL COMPILATION SHEET 5

N.T.S.: 105 L TECH: DATE: MARCH 1990

SCALE: 1:10,000 DRAUGHTING: FIGURE: 9



LEGEND

- △ Rock chip sample
- Soil sample
- Soil sample (Pionjar + Holman Sampler)
- × Silt sample
- Claim post
- ⊞ Helicopter pad

Assay results listed as:
Zn (ppm) / Pb (ppm) / Cu (ppm) / Ag (ppm) / Ba (ppm)

(213)

MAP# 105L-11/14/15 Doc# 092871

TOTAL ENERGOLD CORPORATION

CLEAR LAKE PROJECT

SHEET 6

N.T.S.: 105 L	TECH.:	DATE: MARCH 1990
SCALE: 1:10,000	DRAUGHTING: <i>stancov</i>	FIGURE: 10

092871

APPENDIX A
ANALYTICAL RESULTS

June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

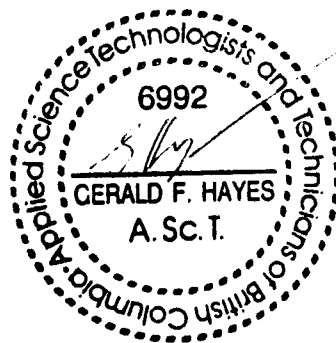
File # 34643a

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
4003	0.4	28	25	75
4004	<0.1	24	13	63
4005	<0.1	23	24	62
4006	2.4	83	>10000	>10000
4007	4.2	127	>10000	>10000
4008	14.0	668	402	3370
4009	<0.1	8.0	66	91
4010	<0.1	6	17	32
4011	<0.1	4	14	47
4012	0.3	12	107	305
4013	<0.1	4	18	15
4014	0.1	36	72	405
4015	<0.1	18	17	27
4016	<0.1	21	25	53
4017	<0.1	6	15	11
4018	<0.1	8	14	12
4019	<0.1	71	400	271
4020	<0.1	12	12	34
347458	<0.1	8	21	647
347459	0.8	248	223	135

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

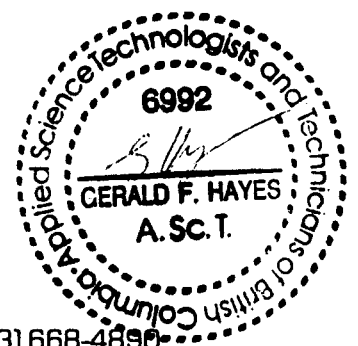
File # 34643b

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
90-RZ-C14-012	<0.1	22	20	137
90-RZ-C14-013	<0.1	23	10	87
90-RZ-C14-014	<0.1	27	11	88
90-RZ-C14-015	<0.1	18	10	75
90-RZ-C14-016	<0.1	32	10	78
90-RZ-C14-017	<0.1	31	10	86
90-RZ-C14-018	0.1	20	13	68
90-RZ-C14-019	<0.1	26	20	96
90-RZ-C14-020	0.2	31	42	114
90-RZ-C14-021	0.1	21	14	89
90-RZ-C14-022	<0.1	29	10	74
90-RZ-C14-023	<0.1	20	11	66
90-RZ-C14-024	<0.1	32	14	86
90-RZ-C14-025	<0.1	28	16	76
90-RZ-C14-026	0.3	40	19	98
90-RZ-C14-027	<0.1	39	26	107
90-RZ-C14-028	0.4	39	22	106
90-RZ-C22-029	0.3	45	16	71
90-RZ-C22-030	<0.1	39	13	64
90-RZ-C22-031	<0.1	12	32	57
90-RZ-C22-032	ins			
90-RZ-C22-033	<0.1	32	17	91
90-RZ-C15-034	<0.1	37	23	65
90-RZ-C15-035	0.1	18	13	92
90-RZ-C15-036	<0.1	21	16	66
90-RZ-C15-037	<0.1	18	15	63
90-RZ-C15-038	<0.1	16	15	73
90-RZ-C15-039	<0.1	14	12	51
90-RZ-C15-040	<0.1	8	10	59
90-RZ-C15-041	<0.1	28	29	106

Metals -- Aqua Regia Digestion/AAS Geochem



June 19, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

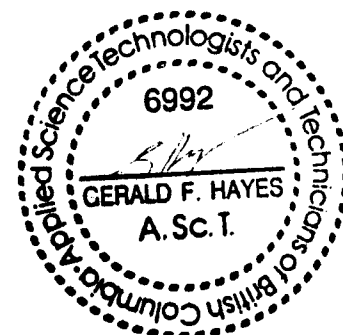
File # 34643c

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
90-RZ-C15-042	<0.1	24	23	117
90-RZ-C15-043	1.2	59	20	98
90-RZ-C15-044	1.1	65	16	119
90-RZ-C15-045	0.3	56	12	86
90-RZ-C15-046	0.7	25	8	64
90-RZ-C15-047	1.4	100	24	381
90-RZ-C15-048	1.6	227	19	642
90-RZ-C15-049	ins			
90-RZ-C15-050	0.6	12	12	56
90-RZ-C15-051	0.7	53	15	90
90-RZ-C15-052	0.8	21	11	68
90-RZ-C15-053	<0.1	21	13	60
Strip #1	<0.1	59	16	92
Strip #2a	0.1	62	14	102
Strip #2b	0.3	64	12	109
Strip #3	<0.1	61	22	179
Strip #4	<0.1	72	11	98
Strip #5a	0.7	15	100	49
Strip #5b	0.4	51	24	530
Strip #6	0.3	56	377	498
Strip #7	0.4	54	34	254
Strip #8	<0.1	52	25	104
Strip #9	<0.1	60	44	194
Strip #10	0.3	56	18	172
CL 600W 1+50N	0.2	56	17	155
CL 600W 1+00N	0.2	56	17	155
CL 600W 0+50N	<0.1	51	18	99
CL 600W 0+00	<0.1	35	12	91
CL 600W 0+50S	0.1	57	12	92
CL 600W 1+00S	0.2	43	11	81

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

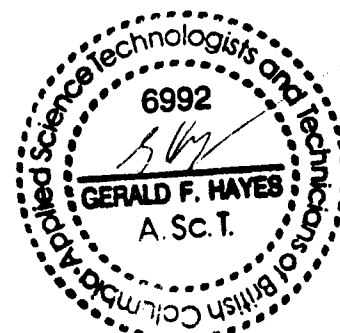
File # 34643d

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
CL 600W 1+50S	0.4	52	22	117
CL 600W 2+00S	0.3	54	13	85
CL 600W 2+50S	0.2	53	75	269
CL 600W 4+00S	0.1	51	35	138
CL 600W 4+50S	<0.1	60	39	179
CL 600W 5+00S	0.3	58	138	257
CL 605W 0+00	0.4	54	18	88
CL 605W 0+50S	<0.1	59	15	113
CL 605W 1+00S	<0.1	53	12	96
CL 605W 1+50S	0.4	41	32	148
CL 605W 2+00S	0.8	51	22	91
CL 605W 2+50S	<0.1	63	21	108
CL 605W 3+00S	<0.1	62	26	213
CL 605W 4+00S	<0.1	53	203	294
CL 605W 4+50S	<0.1	53	261	224
CL 605W 5+00S	<0.1	57	539	98
CL 605W 0+50N	<0.1	69	17	74
CL 605W 1+00N	<0.1	46	15	96
CL 605W 1+50N	0.2	38	11	124
CL-RB - 1	0.2	116	22	80
CL-RB - 2	0.2	74	20	122
CL-RB - 3	0.2	80	16	99
CL-RB - 4	<0.1	68	19	79
CL-RB - 5	<0.1	69	20	101
CL-RB - 6	<0.1	76	19	101
CL-RB - 7	0.1	57	14	90
CL-RB - 8	<0.1	61	17	103
CL-RB - 9	<0.1	48	16	86
CL-RB - 10	<0.1	36	15	99
CL-RB - 11	<0.1	51	11	60

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

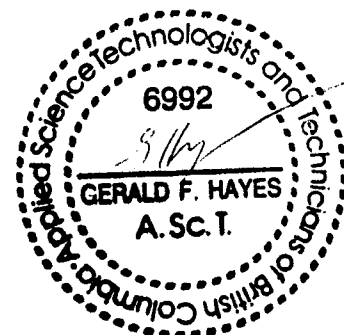
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P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
CL-RB - 12	0.1	32	14	105
CL-RB - 13	<0.1	50	16	54
CL-RB - 14	0.1	20	21	70
CL-RB - 15	<0.1	27	15	65
CL-RB - 16	<0.1	11	14	71
CL-RB - 17	<0.1	27	13	68
CL-RB - 18	<0.1	20	11	50
CL-RB - 19	<0.1	52	12	61
CL-RB - 20	<0.1	7	11	37
CL-RB - 21	0.2	18	12	46
CL-RB - 22	0.4	18	11	48
CL-RB - 23	0.2	15	19	58
CL-RB - 24	<0.1	14	10	77
CL-RB - 25	<0.1	22	10	51
CL-RB - 26	<0.1	19	15	65
CL-RB - 27	<0.1	21	11	100
CL-RB - 28	<0.1	18	11	88
CL-RB - 29	0.1	24	12	67
CL-RB - 30	0.4	15	9	39
CL-RB - 31	0.5	21	12	87
CL-RB - 32	0.6	16	10	82
CL-RB - 33	0.7	34	19	105
CL-RB - 34	0.4	8	12	87
CL-RB - 35	0.2	12	13	75
CL-RB - 36	0.1	28	41	78
CL-RB - 37	1.1	56	12	184
CL-RB - 38	1.0	21	15	96
CL-RB - 39	0.2	23	14	60
CL-RB - 40	0.8	31	17	112

Metals -- Aqua Regia Digestion/AA5 Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

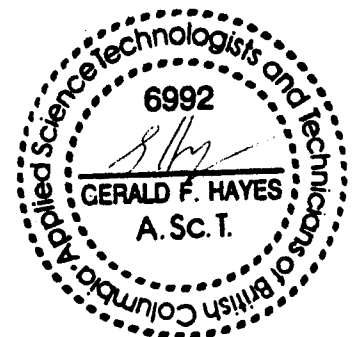
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P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
CL-RB - 41	0.9	50	14	102
CL-RB - 42	0.6	52	16	115
CL-RB - 43	0.6	57	15	94
CL-RB - 44	0.4	60	15	124
CL-RB - 45	0.6	51	14	86
CL-RB - 46	0.8	27	11	65
CL-RB - 47	0.3	24	9	57
CL-RB - 48	0.2	39	10	56
CL-RB - 49	0.3	27	9	58
CL-RB - 50	0.5	31	9	54
CL-RB - 51	0.5	47	18	75
CL-RB - 52	0.7	53	10	79
CL-RB - 53	0.6	70	11	68
CL-RB - 54	0.4	9	5	38
CL-RB - 55	0.3	38	11	76
CL-RB - 56	0.5	26	12	79
CL-RB - 57	0.4	18	16	91
CL-RB - 58	0.1	28	11	72
CL-RB-S1	<0.1	4	<1	25
CL-RB-S2	<0.1	19	4	84
C13-RB-58	0.5	21	15	125
C13-RB-59	<0.1	15	15	130
C13-RB-60	0.5	44	16	124
C13-RB-61	<0.1	7	4	118
C13-RB-62	1.5	19	9	347
C13-RB-63	ins			
C13-RB-64	0.9	18	14	289
C13-RB-65	0.3	17	18	210
C13-RB-66	ins			

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

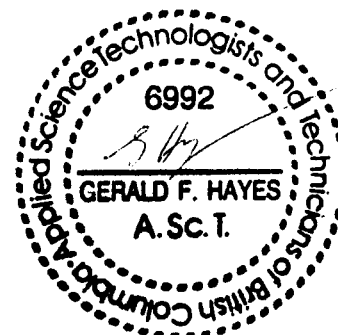
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P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
C13-RB-67	<0.1	13	10	59
C13-RB-68	0.9	14	12	185
C13-RB-69	0.3	21	17	346
C15-RB-70	0.3	45	13	68
C15-RB-71	0.4	40	20	73
C15-RB-72	0.5	19	9	43
C15-RB-73	0.6	20	12	63
C15-RB-74	0.3	49	13	69
C15-RB-75	<0.1	10	5	39
C15-RB-76	0.2	24	13	70
C15-RB-77	0.1	66	8	155
C15-RB-78	0.5	61	7	87
C15-RB-79	0.3	56	10	71
C15-RB-80	0.6	101	8	279
C15-RB-81	2.1	149	18	377
C15-RB-82	0.1	37	23	82
C2-RB-83	<0.1	12	2	31
C2-RB-84	0.3	30	9	58
C2-RB-85	0.1	41	6	64
C2-RB-86	<0.1	31	6	53
C2-RB-87	0.3	55	8	103
C2-RB-88	0.3	48	7	107
C2-RB-89	0.5	17	9	81
C2-RB-90	1.1	87	47	132
C2-RB-91	0.2	48	7	99
C2-RB-92	0.4	44	13	95
C2-RB-93	0.3	59	8	108
C2-RB-94	0.3	59	17	52
C9-RB-95	0.9	44	8	51
C9-RB-96	0.2	74	11	76

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

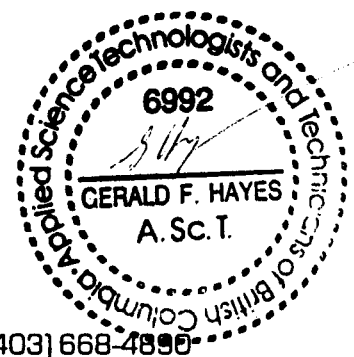
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P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
C9-RB-97	0.3	45	5	61
C9-RB-98	0.1	47	10	93
C9-RB-99	0.1	31	6	80
C9-RB-100	0.5	39	11	104
C9-RB-101	0.8	47	12	91
C9-RB-102	0.3	52	15	86
C9-RB-103	0.2	37	7	95
A1-156E 0+00N	1.2	45	15	108
A1-156E 0+50N	0.7	36	12	229
A1-156E 0+100N	<0.1	47	12	104
A1-156E 0+150N	0.4	21	14	71
A1-156E 0+200N	0.2	41	14	97
CL14 L500W 2+00S	0.2	76	45	56
CL14 L500W 2+50S	0.2	55	6	51
CL14 L500W 3+00S	0.1	35	4	42
CL14 L500W 3+50S	0.2	28	7	38
CL14 L500W 4+00S	0.2	37	5	53
CL14 L500W 4+50S	0.2	64	7	69
CL14 L500W 5+00S	<0.1	52	4	93
CL11 L620W 0+00	0.8	37	10	63
CL11 L620W 0+50N	<0.1	14	9	36
CL11 L620W 1+00N	0.1	54	13	89
CL11 L620W 1+50N	0.7	50	13	91
CL11 L620W 2+00N	1.6	49	14	83
(Area 2) BL 0+00	0.7	41	13	114
(Area 2) BL 0+50	0.9	49	10	128
(Area 2) BL 1+00	1.1	54	12	111
(Area 2) BL 1+50	1.2	57	16	136
(Area 2) BL 2+00	1.0	39	15	101
(Area 2) BL 2+50	1.2	43	11	143

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

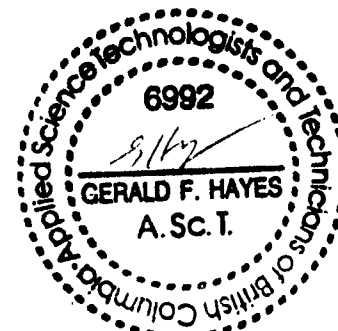
File # 34643i

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
12-L615W 1500S	1.8	25	13	85
12-L615W 1550S	1.5	47	15	348
12-L615W 1600S	ins			
12-L615W 1650S	0.9	54	14	153
12-L615W 1700S	0.2	44	9	97
CL5 380W 5+50N	0.9	42	11	85
CL5 380W 7+00N	0.8	64	14	96
CL5 380W 7+50N	0.7	48	14	109
CL5 380W 8+00N	0.7	48	11	101
CL5 380W 8+50N	0.9	39	13	98
CL5 380W 9+00N	1.0	48	18	108
CL5 380W 9+50N	0.2	45	11	118
CL5 380W 10+00N	0.9	40	15	132
C13-RH - 1	0.1	67	20	109
C13-RH - 2	0.5	25	148	162
C13-RH - 3	<0.1	67	29	132
C13-RH - 4	0.1	117	82	133
C13-RH - 5	0.2	27	33	227
C13-RH - 6	<0.1	48	48	790
C13-RH - 7	<0.1	30	14	169
C13-RH - 8	0.1	57	13	245
C13-RH - 9	0.5	56	18	80
C13-RH - 10	0.4	53	51	85
CL-RH - 1	0.2	50	14	94
CL-RH - 2	ins			
CL-RH - 3	ins			
CL-RH - S100	0.7	78	33	116
CL2 L639W 1100N	<0.1	50	13	87
CL2 L639W 1150N	<0.1	33	11	72
CL2 L639W 1200N	<0.1	27	5	67

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

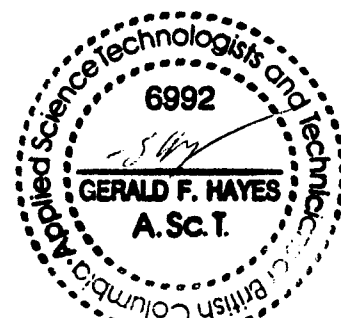
File # 34643j

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
CL2 L639W 1250N	0.1	47	14	69
CL2 L639W 1300N	0.1	44	9	72
CL2 L639W 1350N	0.1	58	11	72
CL2 L639W 1400N	0.1	48	9	75
CL2 L639W 1500N	0.4	57	8	88
CL2 L639W 1550N	0.3	53	6	75
CL2 L639W 1600N	0.3	58	7	72
CL2 L639W 1650N	0.2	34	6	58
C9 630W 150S	<0.1	93	26	122
C9 630W 200S	0.3	41	6	74
C9 630W 250S	0.2	59	15	94
C9 630W 300S	<0.1	80	17	101
C9 630W 350S	<0.1	51	9	77
C9 630W 400S	<0.1	57	10	115
C9 630W 450S	<0.1	26	8	82
C9 630W 500S	<0.1	34	7	98
C9 630W 550S	<0.1	37	8	93
C9 630W 600S	0.1	53	8	103
C9 630W 650S	<0.1	53	15	87
C9 630W 700S	0.2	58	25	102
C9 630W 700AS	<0.1	47	7	82
C9 630W 735S	<0.1	45	5	74
90-RZ-C19 - 54	<0.1	22	12	61
90-RZ-C19 - 55	0.5	54	13	102
90-RZ-C19 - 56	0.8	74	20	254
90-RZ-C19 - 57	<0.1	48	12	169
90-RZ-C19 - 58	<0.1	14	8	46
90-RZ-C19 - 59	<0.1	28	19	63
90-RZ-C19 - 60	0.7	48	27	92
90-RZ-C19 - 61	1.2	35	17	102

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

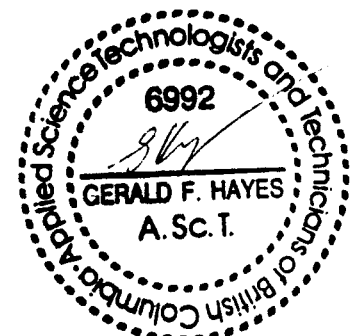
File # 34643k

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
90-RZ-C19 - 62	0.9	15	12	86
90-RZ-C19 - 63	0.3	31	11	104
90-RZ-C19 - 64	0.5	37	12	118
90-RZ-C19 - 65	0.4	74	12	120
90-PM-C19 - 001	0.6	35	16	122
90-PM-C19 - 002	0.7	40	15	125
90-PM-C19 - 003	0.5	36	14	89
90-PM-C19 - 004	0.1	71	12	114
90-PM-C19 - 005	0.4	23	22	58
90-PM-C19 - 006	0.3	61	9	125
90-PM-C19 - 007	0.1	14	10	58
90-PM-C19 - 008	0.3	17	6	45
90-PM-C19 - 009	0.4	21	5	52
90-PM-C19 - 010	0.6	46	26	158
90-PM-C19 - 011	0.7	46	14	140
90-PM-C19 - 012	0.7	233	27	280
90-PM-C19 - 013	0.5	32	10	102
90-PM-C19 - 014	1.0	58	23	153
90-PM-C19 - 015	0.4	20	9	54
90-PM-C19 - 016	0.6	25	7	53
90-PM-C19 - 017	0.4	24	6	44
C21-RB - 132	<0.1	20	12	85
C21-RB - 133	<0.1	5	11	70
C21-RB - 134	<0.1	34	10	64
C21-RB - 135	<0.1	15	12	101
C21-RB - 136	0.2	14	14	73
C21-RB - 137	0.7	41	16	83
C21-RB - 138	1.4	16	7	62
C21-RB - 139	0.5	15	9	78
C21-RB - 140	0.2	15	11	86

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

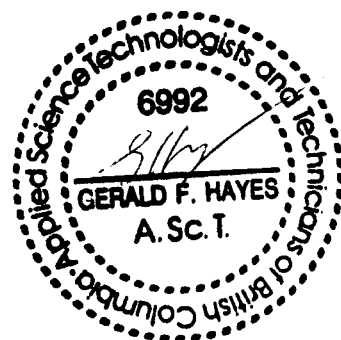
File # 346431

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
C21-RB - 141	0.7	22	10	94
C21-RB - 142	0.7	28	15	81
C21-RB - 143	0.9	37	10	71
C21-RB - 144	0.2	37	8	83
C21-RB - 145	0.5	29	8	61
C21-RB - 146	0.6	19	17	74
C21-RB - 147	0.3	16	10	57
C4 -RB - 148	0.2	51	10	117
C4 -RB - 149	0.4	50	7	121
C4 -RB - 150	0.5	35	9	66
C4 -RB - 151	0.3	48	9	83
C4 -RB - 152	<0.1	58	11	214
C4 -RB - 153	<0.1	19	6	81
C4 -RB - 154	<0.1	28	13	77
C4 -RB - 155	<0.1	47	18	70
90-RZ-C7 - 78	0.1	45	17	86
90-RZ-C7 - 79	0.3	50	9	79
90-RZ-C7 - 80	0.3	49	14	296
90-RZ-C7 - 81	0.3	46	13	87
90-RZ-C7 - 82	0.1	40	11	68
90-RZ-C7 - 83	0.1	29	15	82
90-RZ-C7 - 84	<0.1	12	4	72
90-RZ-C7 - 85	<0.1	47	10	220
90-RZ-C7 - 86	<0.1	47	8	69
90-RZ-C7 - 87	<0.1	30	14	121
90-RZ-C7 - 88	<0.1	36	12	67
90-RZ-C7 - 89	0.1	51	12	69
90-RZ-C7 - 91	0.8	9	16	42
90-RZ-C7 - 92	0.5	32	19	65
90-RZ-C7 - 93	0.5	162	34	69

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

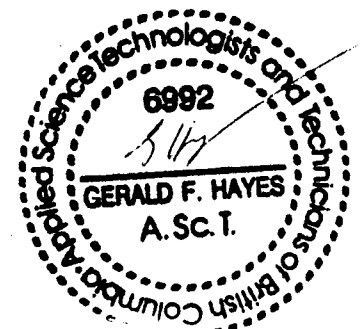
File # 34643m

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
90-RZ-C7 - 94	1.1	18	22	90
90-RZ-C7 - 95	0.1	23	14	90
90-RZ-C7 - 96	0.2	16	16	65
90-RZ-C7 - 97	<0.1	43	18	118
90-RZ-C7 - 98	<0.1	17	12	55
90-RZ-C7 - 99	<0.1	20	11	48
90-RZ-C7 - 100	0.2	33	13	84
90-RZ-C7 - 101	<0.1	33	18	87
90-RZ-C7 - 102	<0.1	38	12	69
90-RZ-C7 - 103	1.5	44	14	87
90-RZ-C7 - 104	1.3	26	10	81
90-RZ-C7 - 105	2.1	13	12	53
90-RZ-C7 - 106	1.5	27	12	49
90-RZ-C7 - 107	ins			
90-RZ-C7 - 108	0.4	20	13	59
90-RZ-C7 - 109	1.0	10	10	43
90-RZ-C7 - 110	0.6	10	10	38
90-RZ-C7 - 111	0.9	25	12	64
90-RZ-C7 - 112	0.6	29	16	66
90-RZ-C7 - 113	1.7	26	19	94
90-RZ-C6 - 66	<0.1	49	20	108
90-RZ-C6 - 67	<0.1	23	15	76
90-RZ-C6 - 68	<0.1	57	19	114
90-RZ-C6 - 69	<0.1	40	13	83
90-RZ-C6 - 70	<0.1	17	7	62
90-RZ-C6 - 71	<0.1	12	4	64
90-RZ-C6 - 72	<0.1	31	5	64
90-RZ-C6 - 73	<0.1	47	26	136
90-RZ-C6 - 74	<0.1	39	11	77
90-RZ-C6 - 75	<0.1	17	7	60

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

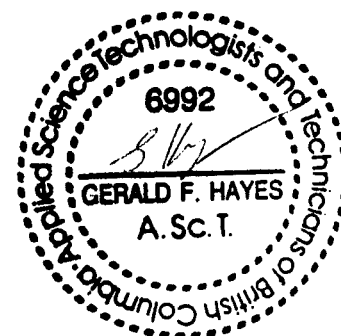
File # 34643n

P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
90-RZ-C6 - 76	0.2	18	12	58
90-RZ-C6 - 77	<0.1	53	31	102
C21-RH - 11	0.4	27	19	70
C21-RH - 12	<0.1	21	16	65
C21-RH - 13	0.2	25	8	74
C21-RH - 14	0.4	22	11	67
C21-RH - 15	0.3	13	4	52
C21-RH - 16	0.3	21	9	78
C21-RH - 17	0.1	28	10	60
C21-RH - 18	0.6	33	5	61
C21-RH - 19	<0.1	30	9	63
C21-RH - 20	0.1	15	6	59
C21-RH - 21	0.2	36	11	92
C21-RH - 22	<0.1	35	8	73
C21-RH - 23	<0.1	27	7	71
C21-RH - 24	<0.1	35	9	74
C21-RH - 25	<0.1	24	14	172
C4-RH - 26	0.3	31	14	95
C4-RH - 27	0.5	52	13	107
C4-RH - 28	0.8	48	13	110
C4-RH - 29	0.7	47	12	110
C4-RH - 30	0.5	44	13	76
C4-RH - 31	0.6	59	15	78
C4-RH - 32	1.0	50	17	95
C4-RH - 33	0.8	176	18	73
90-CL-PM - 18	0.3	25	6	51
90-CL-PM - 19	0.7	23	9	59
90-CL-PM - 20	1.1	21	26	150
90-CL-PM - 21	0.6	18	12	51
90-CL-PM - 22	0.4	20	10	61

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

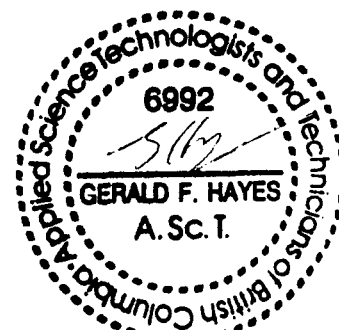
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P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
90-CL-PM - 23	0.4	44	13	95
90-CL-PM - 24	0.2	22	17	53
90-CL-PM - 25	0.5	15	11	152
90-CL-PM - 26	0.6	13	10	69
90-CL-PM - 27	0.1	19	9	76
90-CL-PM - 28	0.2	31	15	242
90-CL-PM - 29	0.2	25	13	59
90-CL-PM - 30	0.8	13	43	95
90-CL-PM - 31	0.5	31	48	88
90-CL-PM - 35	0.8	57	15	86
90-CL-PM - 36	0.8	32	23	134
90-CL-PM - 37	0.7	27	19	146
C3-RB - 104	0.3	52	12	144
C3-RB - 105	0.6	43	10	145
C3-RB - 106	0.6	49	8	106
C3-RB - 107	0.5	40	9	98
C3-RB - 108	0.8	41	8	107
C3-RB - 109	0.2	59	11	127
C3-RB - 110	0.1	56	11	118
C3-RB - 111	0.6	28	6	94
C3-RB - 112	0.8	32	8	101
C3-RB - 113	0.7	24	4	132
C3-RB - 114	<0.1	48	15	96
C3-RB - 115	<0.1	46	17	111
C3-RB - 116	<0.1	35	16	100
C3-RB - 117	<0.1	50	13	110
C3-RB - 118	0.1	55	26	88
C3-RB - 119	<0.1	37	16	63
C3-RB - 120	<0.1	19	11	79
C1-RB - 121	<0.1	47	15	97

Metals -- Aqua Regia Digestion/AAS Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

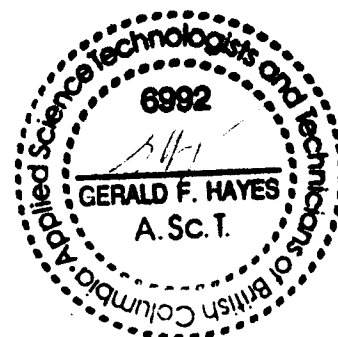
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P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
C1-RB - 122	<0.1	39	12	92
C1-RB - 123	<0.1	64	24	128
C1-RB - 124	<0.1	73	16	117
C1-RB - 125	0.4	68	28	206
C1-RB - 126	0.8	54	23	185
C1-RB - 127	0.1	71	18	131
C1-RB - 128	0.2	68	23	207
C1-RB - 129	<0.1	73	23	165
CL-RB - 130	<0.1	26	2	69
CL-RB - 131	<0.1	10	<1	65
C3 910W 0+00	0.7	48	25	207
C3 910W 0+50S	1.3	36	18	131
C3 910W 100S	1.8	48	17	140
C3 910W 150S	2.1	58	30	246
C3 910W 200S	1.1	55	18	181
C3 910W 250S	0.6	56	22	192
C3 910W 400S	0.5	50	10	203
C3 910W 450S	0.6	66	12	126
C3 910W 500S	<0.1	59	12	114
C3 910W 550S	0.2	44	17	111
C3 910W 600S	0.7	45	12	115
C3 910W 650S	0.5	22	9	61
C3 910W 700S	0.3	55	13	128
C3 910W 750S	0.1	26	15	91
C3 910W 800S	0.4	43	12	129
C3 910W 850S	0.6	39	20	139
C3 910W 900S	0.7	38	13	104
C3 910W 950S	1.3	51	14	101
C3 910W 1000S	0.6	40	12	90

Metals -- Aqua Regia Digestion/AA5 Geochem



June 15, 1990

Work Order # 34643

Total Energold Corp.
21 - 1114 - 1st Ave.
Whitehorse, Yukon
Y1A 1A3

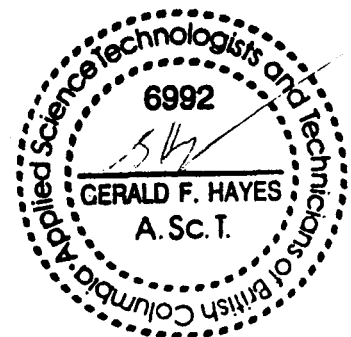
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P.O. # 3446

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
C1 850W 600N	0.5	65	16	77
C1 850W 650N	2.0	84	27	151
C1 850W 700N	0.8	86	20	144
C1 850W 750N	0.9	36	12	64
C1 850W 875N	1.3	24	13	61
C1 850W 900N	1.1	45	16	58

Metals -- Aqua Regia Digestion/AAS Geochem



PHASE ~~II~~
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ROSSBACHER LABORATORY LTD.

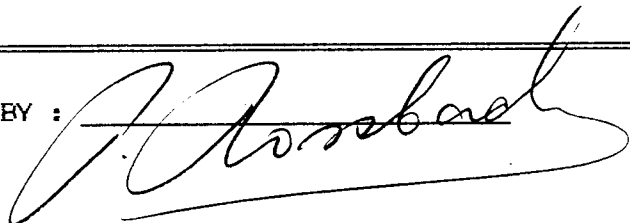
2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 1

PRE FIX	SAMPLE NAME	FFM Ba
P	90-RZ-C14-12	1100
P	90-RZ-C14-13	1660
P	90-RZ-C14-14	1500
P	90-RZ-C14-15	1000
P	90-RZ-C14-16	1760
P	90-RZ-C14-17	1780
P	90-RZ-C14-18	1240
P	90-RZ-C14-19	1380
P	90-RZ-C14-20	1500
P	90-RZ-C14-21	1260
P	90-RZ-C14-22	1780
P	90-RZ-C14-23	1240
P	90-RZ-C14-24	1320
P	90-RZ-C14-25	1380
P	90-RZ-C14-26	1480
P	90-RZ-C14-27	1040
P	90-RZ-C14-28	1300
P	90-RZ-C22-29	1240
P	90-RZ-C22-30	1160
P	90-RZ-C22-31	1080
P	90-RZ-C22-32	630
P	90-RZ-C22-33	940
P	90-RZ-C15-34	1680
P	90-RZ-C15-35	1040
P	90-RZ-C15-36	960
P	90-RZ-C15-37	950
P	90-RZ-C15-38	980
P	90-RZ-C15-39	1100
P	90-RZ-C15-40	1060
P	90-RZ-C15-41	1160
P	90-RZ-C15-42	1440
P	90-RZ-C15-43	1160
P	90-RZ-C15-44	1460
P	90-RZ-C15-45	1260
P	90-RZ-C15-46	980
P	90-RZ-C15-47	1700
P	90-RZ-C15-48	2600
P	90-RZ-C15-49	1140
P	90-RZ-C15-50	1000
P	90-RZ-C15-51	1440

CERTIFIED BY : 

ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

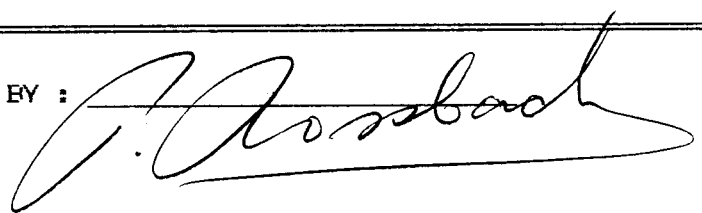
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 2

FRE FIX	SAMPLE NAME	FFM Ba
P	90-RZ-C15-52	1180
P	90-RZ-C15-53	1040
P	STRIP # 1	1100
P	STRIP # 2 A	960
P	STRIP # 2 B	1120
P	STRIP # 3	1100
P	STRIP # 4	1060
P	STRIP # 5 A	2940
P	STRIP # 5 B	3640
P	STRIP # 6	3040
P	STRIP # 7	2040
P	STRIP # 8	1540
P	STRIP # 9	1520
P	STRIP # 10	1280
P	CL 600W 150N	1300
P	CL 600W 100N	4000
P	CL 600W 050N	2340
P	CL 600W 000N	1520
P	CL 600W 050S	1380
P	CL 600W 100S	1400
P	CL 600W 150S	1420
P	CL 600W 200S	1260
P	CL 600W 250S	1700
P	CL 600W 400S	1460
P	CL 600W 450S	1600
P	CL 600W 500S	2040
P	CL 605W 000S	4800
P	CL 605W 050S	1720
P	CL 605W 100S	1280
P	CL 605W 150S	1440
P	CL 605W 200S	1200
P	CL 605W 250S	1020
P	CL 605W 300S	1860
P	CL 605W 400S	2520
P	CL 605W 450S	2640
P	CL 605W 500S	3100
P	CL 605W 050N	5800
P	CL 605W 100N	1860
P	CL 605W 150N	1540
P	CL-FB- 1	1120

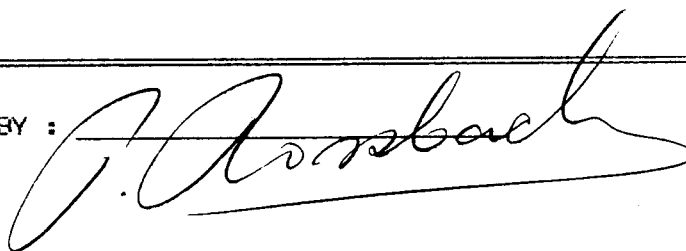
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ROSSBACHER LABORATORY LTD.2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252**CERTIFICATE OF ANALYSIS**TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICALCERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 3

PRE FIX	SAMPLE NAME	FFM Ea
P	CL-RB- 2	1760
P	CL-RB- 3	1200
P	CL-RB- 4	1040
P	CL-RB- 5	1540
P	CL-RB- 6	1220
P	CL-RB- 7	1160
P	CL-RB- 8	1540
P	CL-RB- 9	1020
P	CL-RB- 10	1380
P	CL-RB- 11	1220
P	CL-RB- 12	1240
P	CL-RB- 13	1120
P	CL-RB- 14	1340
P	CL-RB- 15	1460
P	CL-RB- 16	1600
P	CL-RB- 17	1060
P	CL-RB- 18	1320
P	CL-RB- 19	1160
P	CL-RB- 20	1060
P	CL-RB- 21	940
P	CL-RB- 22	960
P	CL-RB- 23	1140
P	CL-RB- 24	1160
P	CL-RB- 25	1020
P	CL-RB- 26	1280
P	CL-RB- 27	1240
P	CL-RB- 28	1080
P	CL-RB- 29	1120
P	CL-RB- 30	1020
P	CL-RB- 31	1300
P	CL-RB- 32	1240
P	CL-RB- 33	1120
P	CL-RB- 34	1080
P	CL-RB- 35	1220
P	CL-RB- 36	980
P	CL-RB- 37	1160
P	CL-RB- 38	740
P	CL-RB- 39	1480
P	CL-RB- 40	1240
P	CL-RB- 41	1560

CERTIFIED BY :



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2225 S. Springer Ave., Burnaby,
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Ph: (604)299-6910 Fax: 299-6252

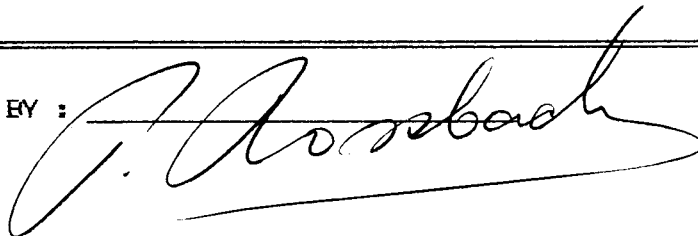
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 4

PRE FIX	SAMPLE NAME	PPM Ba
P	CL-RB- 42	1720
P	CL-RB- 43	1220
P	CL-RB- 44	1240
P	CL-RB- 45	1200
P	CL-RB- 46	1320
P	CL-RB- 47	1420
P	CL-RB- 48	1400
P	CL-RB- 49	1300
P	CL-RB- 50	1200
P	CL-RB- 51	1100
P	CL-RB- 52	1080
P	CL-RB- 53	1100
P	CL-RB- 54	1060
P	CL-RB- 55	1840
P	CL-RB- 56	1280
P	CL-RB- 57	1580
P	CL-RB- 58	1300
P	CL-RB- 61	500
P	CL-RB- 62	1100
P	C 13-RB- 58	640
P	C 13-RB- 59	900
P	C 13-RB- 60	640
P	C 13-RB- 61	600
P	C 13-RB- 62	660
P	C 13-RB- 63	560
P	C 13-RB- 64	530
P	C 13-RB- 65	800
P	C 13-RB- 66	560
P	C 13-RB- 67	720
P	C 13-RB- 68	660
P	C 13-RB- 69	480
P	C 15-RB- 70	1120
P	C 15-RB- 71	1240
P	C 15-RB- 72	1040
P	C 15-RB- 73	1160
P	C 15-RB- 74	1280
P	C 15-RB- 75	960
P	C 15-RB- 76	1880
P	C 15-RB- 77	1840
P	C 15-RB- 78	1520

CERTIFIED BY :



ROSSBACHER LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax:299-6252

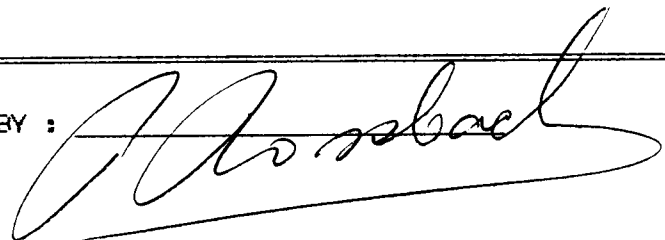
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 5

FRE FIX	SAMPLE NAME	FFM Ba
P	C 15-RB- 79	1360
P	C 15-RB- 80	2540
P	C 15-RB- 81	3080
P	C 15-RB- 82	1640
P	C 2-RB- 83	540
P	C 2-RB- 84	1440
P	C 2-RB- 85	1340
P	C 2-RB- 86	1140
P	C 2-RB- 87	1240
P	C 2-RB- 88	1480
P	C 2-RB- 89	1600
P	C 2-RB- 90	2680
P	C 2-RB- 91	1600
P	C 2-RB- 92	1680
P	C 2-RB- 93	1740
P	C 2-RB- 94	1860
P	C 9-RB- 95	1460
P	C 9-RB- 96	1340
P	C 9-RB- 97	1200
P	C 9-RB- 98	1340
P	C 9-RB- 99	1160
P	C 9-RB- 100	1360
P	C 9-RB- 101	1800
P	C 9-RB- 102	1360
P	C 9-RB- 103	1440
P	A1-156E 000N	1440
P	A1-156E 050N	1380
P	A1-156E 100N	1120
P	A1-156E 150N	1300
P	A1-156E 200N	1120
P	CL14L500W200S	960
P	CL14L500W250S	860
P	CL14L500W300S	1000
P	CL14L500W350S	1160
P	CL14L500W400S	1100
P	CL14L500W450S	650
P	CL14L500W500S	1100
P	CL11L620W000N	1320
P	CL11L620W050N	920

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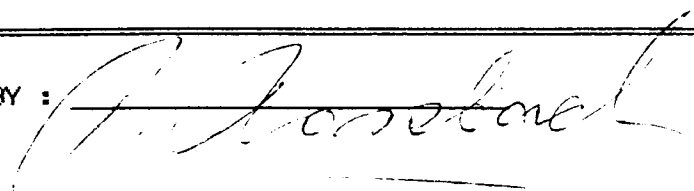
2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 6

PRE FIX	SAMPLE NAME	PPM Ba
P	CL11 L620W200N	1460
P	AREA2 BL 000	1460
P	AREA2 BL 050	1360
P	AREA2 BL 100	1380
P	AREA2 BL 200	1540
P	AREA2 BL 250	1180
P	12-L615W1500S	1240
P	12-L615W1550S	1700
P	12-L615W1600S	2000
P	12-L615W1650S	1520
P	12-L615W1700S	1440
P	CL5 380W 550N	1520
P	CL5 380W 700N	1500
P	CL5 380W 750N	1980
P	CL5 380W 800N	1500
P	CL5 380W 850N	1640
P	CL5 380W 900N	1520
P	CL5 380W 950N	1640
P	CL5 380W 1000N	1600
P	C 13-RH - 01	1740
P	C 13-RH - 02	3200
P	C 13-RH - 03	2040
P	C 13-RH - 04	2720
P	C 13-RH - 05	2200
P	C 13-RH - 06	2580
P	C 13-RH - 07	1240
P	C 13-RH - 08	1240
P	C 13-RH - 09	1220
P	C 13-RH - 10	1640
P	CL - RH - 01	1320
P	CL - RH - 02	1320
P	CL - RH - 03	1800
P	CL2L639W1100N	1440
P	CL2L639W1150N	1220
P	CL2L639W1200N	1740
P	CL2L639W1250N	1280
P	CL2L639W1300N	1500
P	CL2L639W1350N	1460
P	CL2L639W1400N	1320
P	CL2L639W1500N	1460

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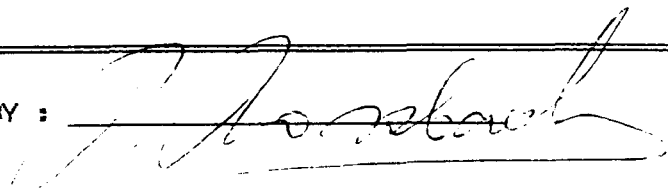
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 7

PRE FIX	SAMPLE NAME	PFM Ba
P	CL2L639W1550N	1620
P	CL2L639W1600N	1460
P	CL2L639W1650N	1360
P	C 9 650W 150S	1220
P	C 9 650W 200S	1200
P	C 9 650W 250S	1720
P	C 9 650W 300S	1460
P	C 9 650W 350S	1420
P	C 9 650W 400S	1360
P	C 9 650W 450S	1700
P	C 9 650W 500S	1860
P	C 9 650W 550S	1880
P	C 9 650W 600S	1560
P	C 9 650W 650S	1140
P	C 9 650W 700S	1220
P	C 9 650W 700AS	1400
P	C 9 650W 735S	1500
P	90-RZ-C19-54	1480
P	90-RZ-C19-55	1640
P	90-RZ-C19-56	2400
P	90-RZ-C19-57	1560
P	90-RZ-C19-58	1220
P	90-RZ-C19-59	1380
P	90-RZ-C19-60	1680
P	90-RZ-C19-61	1880
P	90-RZ-C19-62	1500
P	90-RZ-C19-63	1300
P	90-RZ-C19-64	1440
P	90-RZ-C19-65	1320
P	90-FM-C19 01	2260
P	90-FM-C19 02	1800
P	90-FM-C19 03	1680
P	90-FM-C19 04	2960
P	90-FM-C19 05	1340
P	90-FM-C19 06	2000
P	90-FM-C19 07	1360
P	90-FM-C19 08	1160
P	90-FM-C19 09	1420
P	90-FM-C19 10	1940
P	90-FM-C19 11	2060

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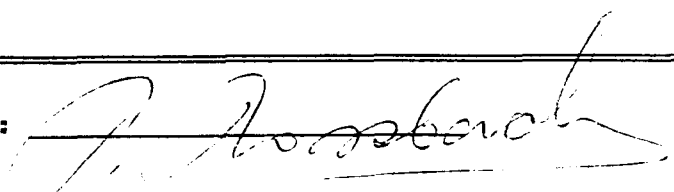
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 8

PRE FIX	SAMPLE NAME	PPM Ba
P	90-FM-C19 12	2980
P	90-FM-C19 13	2000
P	90-FM-C19 14	1320
P	90-FM-C19 15	1280
P	90-FM-C19 16	1400
P	90-FM-C19 17	1660
P	C21-RB- 132	1180
P	C21-RB- 133	1020
P	C21-RB- 134	1380
P	C21-RB- 135	1200
P	C21-RB- 136	1140
P	C21-RB- 137	1400
P	C21-RB- 138	1160
P	C21-RB- 139	1080
P	C21-RB- 140	1160
P	C21-RB- 141	1260
P	C21-RB- 142	1540
P	C21-RB- 143	1340
P	C21-RB- 144	1600
P	C21-RB- 145	1320
P	C21-RB- 146	1180
P	C21-RB- 147	1000
P	C 4-RB- 148	1480
P	C 4-RB- 149	1300
P	C 4-RB- 150	1100
P	C 4-RB- 151	1260
P	C 4-RB- 152	1360
P	C 4-RB- 153	1140
P	C 4-RB- 154	1180
P	C 4-RB- 155	1200
P	90-RZ-C7- 78	1540
P	90-RZ-C7- 79	1120
P	90-RZ-C7- 80	980
P	90-RZ-C7- 81	1160
P	90-RZ-C7- 82	1080
P	90-RZ-C7- 83	780
P	90-RZ-C7- 84	300
P	90-RZ-C7- 85	1180
P	90-RZ-C7- 86	1100
P	90-RZ-C7- 87	1100

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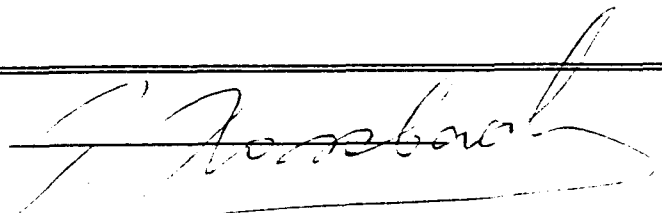
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 9

PRE FIX	SAMPLE NAME	PPM Ba
P	90-RZ-C7- 88	1080
P	90-RZ-C7- 89	1020
P	90-RZ-C7- 91	1020
P	90-RZ-C7- 92	1140
P	90-RZ-C7- 93	1280
P	90-RZ-C7- 94	1400
P	90-RZ-C7- 95	1280
P	90-RZ-C7- 96	1080
P	90-RZ-C7- 97	1360
P	90-RZ-C7- 98	1400
P	90-RZ-C7- 99	1180
P	90-RZ-C7- 100	1220
P	90-RZ-C7- 101	1580
P	90-RZ-C7- 102	1320
P	90-RZ-C7- 103	1620
P	90-RZ-C7- 104	1340
P	90-RZ-C7- 105	720
P	90-RZ-C7- 106	980
P	90-RZ-C7- 107	1160
P	90-RZ-C7- 108	1300
P	90-RZ-C7- 109	1300
P	90-RZ-C7- 110	1160
P	90-RZ-C7- 111	1240
P	90-RZ-C7- 112	1160
P	90-RZ-C7- 113	1040
P	90-RZ-C6- 66	1200
P	90-RZ-C6- 67	1240
P	90-RZ-C6- 68	1400
P	90-RZ-C6- 69	1220
P	90-RZ-C6- 70	1180
P	90-RZ-C6- 71	830
P	90-RZ-C6- 72	1400
P	90-RZ-C6- 73	1320
P	90-RZ-C6- 74	1160
P	90-RZ-C6- 75	1020
P	90-RZ-C6- 76	1160
P	90-RZ-C6- 77	1140
P	C 21-RH - 11	1140
P	C 21-RH - 12	1120
P	C 21-RH - 13	1580

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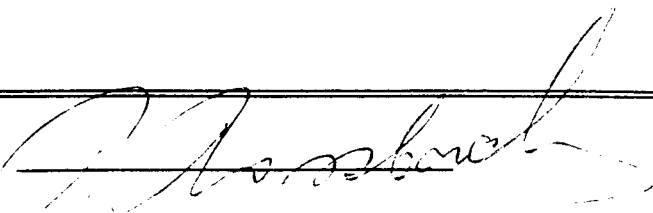
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 10

PRE FIX	SAMPLE NAME	PPM Ba
P	C 21-RH - 14	1020
P	C 21-RH - 15	960
P	C 21-RH - 16	1200
P	C 21-RH - 17	1980
P	C 21-RH - 18	1540
P	C 21-RH - 19	1260
P	C 21-RH - 20	1100
P	C 21-RH - 21	1460
P	C 21-RH - 22	1520
P	C 21-RH - 23	1460
P	C 21-RH - 24	1420
P	C 21-RH - 25	1540
P	C 21-RH - 26	1260
P	C 4-RH - 27	1380
P	C 4-RH - 28	1580
P	C 4-RH - 29	1520
P	C 4-RH - 30	1380
P	C 4-RH - 31	1260
P	C 4-RH - 32	1560
P	C 4-RH - 33	1160
P	90-CL-FM- 18	1400
P	90-CL-FM- 19	1520
P	90-CL-FM- 20	1800
P	90-CL-FM- 21	1480
P	90-CL-FM- 22	1660
P	90-CL-FM- 23	2440
P	90-CL-FM- 24	1580
P	90-CL-FM- 25	1500
P	90-CL-FM- 26	1340
P	90-CL-FM- 27	1520
P	90-CL-FM- 28	1840
P	90-CL-FM- 29	1220
P	90-CL-FM- 30	1080
P	90-CL-FM- 31	1420
P	90-CL-FM- 35	1280
P	90-CL-FM- 36	1360
P	90-CL-FM- 37	1180
P	C 3-RB- 104	1820
P	C 3-RB- 105	2000
P	C 3-RB- 106	1840

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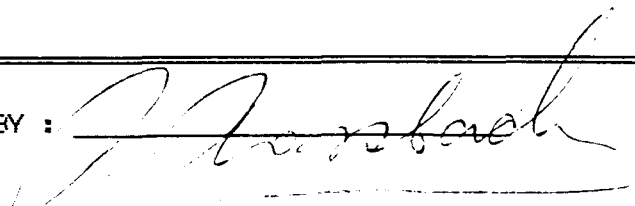
CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
WHITEHORSE, Y.T.
PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 90232
INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 11

PRE FIX	SAMPLE NAME	PPM Ba
P	C 3-RB-- 107	1700
P	C 3-RB-- 108	1760
P	C 3-RB-- 109	1500
P	C 3-RB-- 110	1580
P	C 3-RB-- 111	1700
P	C 3-RB-- 112	2000
P	C 3-RB-- 113	1200
P	C 3-RB-- 114	1240
P	C 3-RB-- 115	1380
P	C 3-RB-- 116	2400
P	C 3-RB-- 117	1640
P	C 3-RB-- 118	1580
P	C 3-RB-- 119	1220
P	C 3-RB-- 120	1260
P	C 1-RB-- 121	1280
P	C 1-RB-- 122	1800
P	C 1-RB-- 123	1740
P	C 1-RB-- 124	1860
P	C 1-RB-- 125	2540
P	C 1-RB-- 126	2280
P	C 1-RB-- 127	2320
P	C 1-RB-- 128	2540
P	C 1-RB-- 129	2020
P	C 1-RB-- 130	1100
P	C 1-RB-- 131	1260
P	C3 910W 000S	2620
P	C3 910W 050S	1840
P	C3 910W 100S	2360
P	C3 910W 150S	2560
P	C3 910W 200S	2300
P	C3 910W 250S	2520
P	C3 910W 400S	2260
P	C3 910W 450S	2960
P	C3 910W 500S	1540
P	C3 910W 550S	1520
P	C3 910W 600S	1420
P	C3 910W 650S	1480
P	C3 910W 700S	1400
P	C3 910W 750S	1600
P	C3 910W 800S	1360

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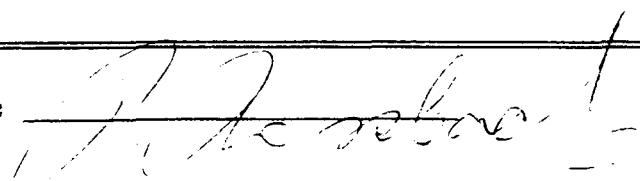
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CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LABORATORY LTD.
105 COPPER ROAD
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PROJECT : 34643
TYPE OF ANALYSIS : GEOCHEMICAL

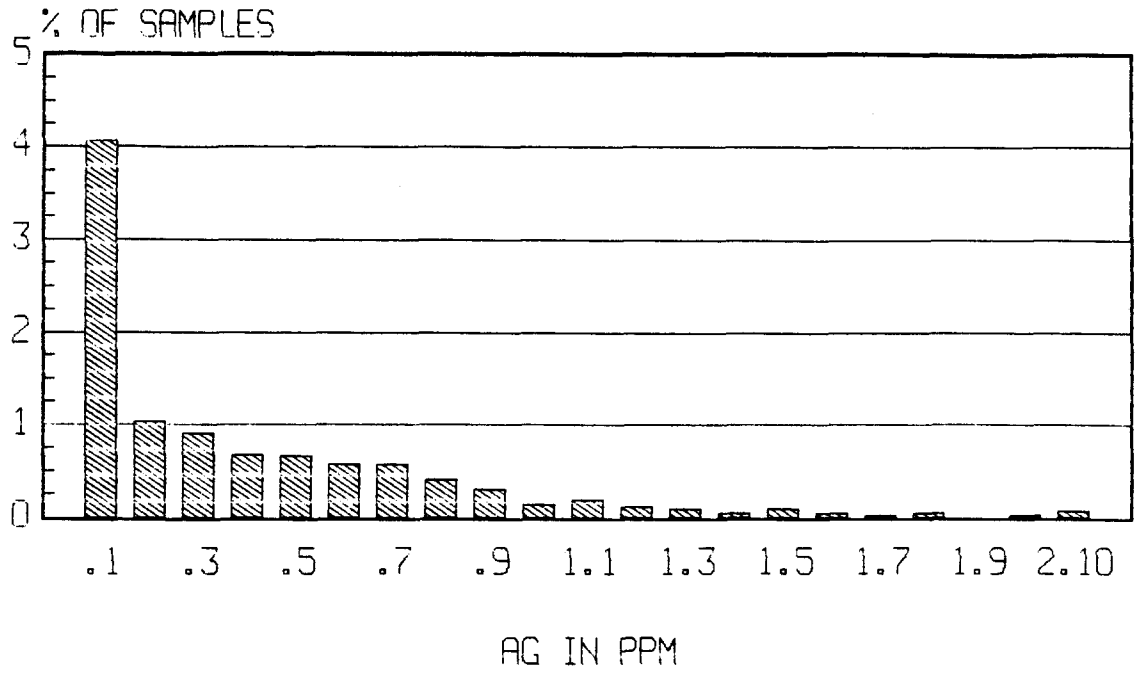
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INVOICE # : 10350
DATE ENTERED : 90-06-26
FILE NAME : NAL90232
PAGE # : 12

PRE FIX	SAMPLE NAME	PPM Ba
P	C3 910W 850S	1440
P	C3 910W 900S	1480
	C3 910W 950S	1440
	C3 910W 1000S	1400
P	C1 850W 600N	1250
	C1 850W 650N	1520
	C1 850W 700N	1460
P	C1 850W 750N	1140
P	C1 850W 875N	2440
	C1 850W 900N	4300
P	AREA 2 BL 150	1240
P	CL R11- 5100	220
	CL R11- 4003	1400
	CL R11- 4004	1640
P	CL R11- 4005	1240
	CL R11- 4006	> 1 %
	CL R11- 4007	> 1 %
P	CL R11- 4008	> 1 %
P	CL R11- 4009	4300
	CL R11- 410	> 1 %
P	CL R11- 4011	> 1 %
P	CL R11- 4012	> 1 %
	CL R11- 4013	1880
	CL R11- 4014	560
P	CL R11- 4015	500
	CL R11- 4016	1680
	CL R11- 4017	460
P	CL R11- 4018	240
P	CL R11- 4020	740
	347458	> 1 %
P	347459	1340
P	347460	1220

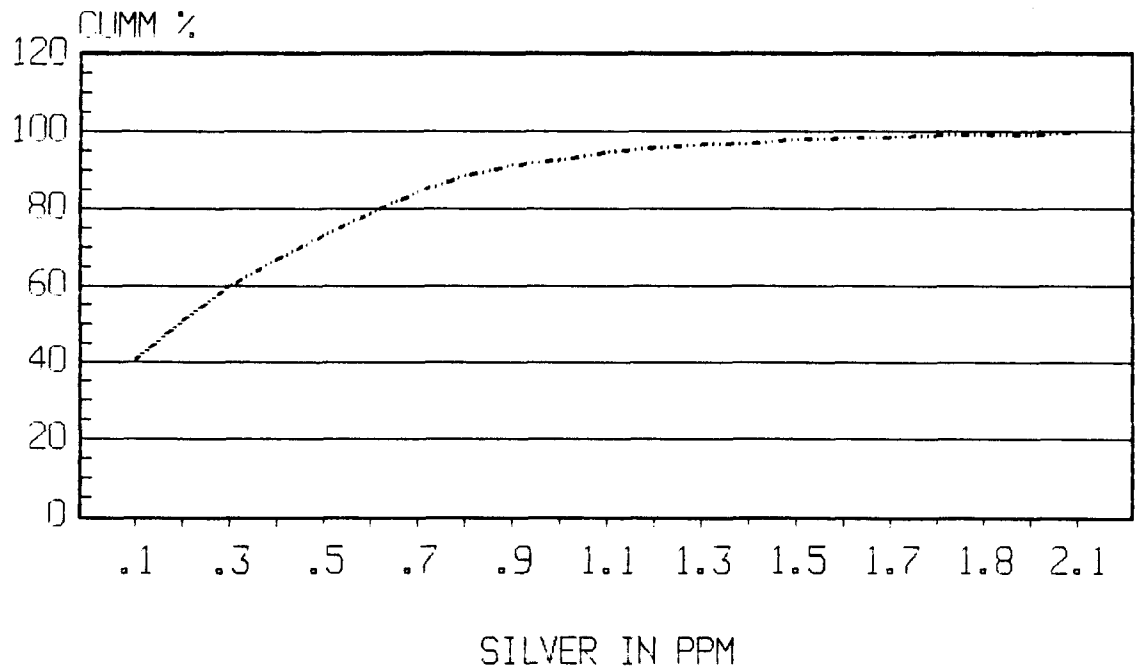
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APPENDIX B
GEOCHEMICAL STATISTICS

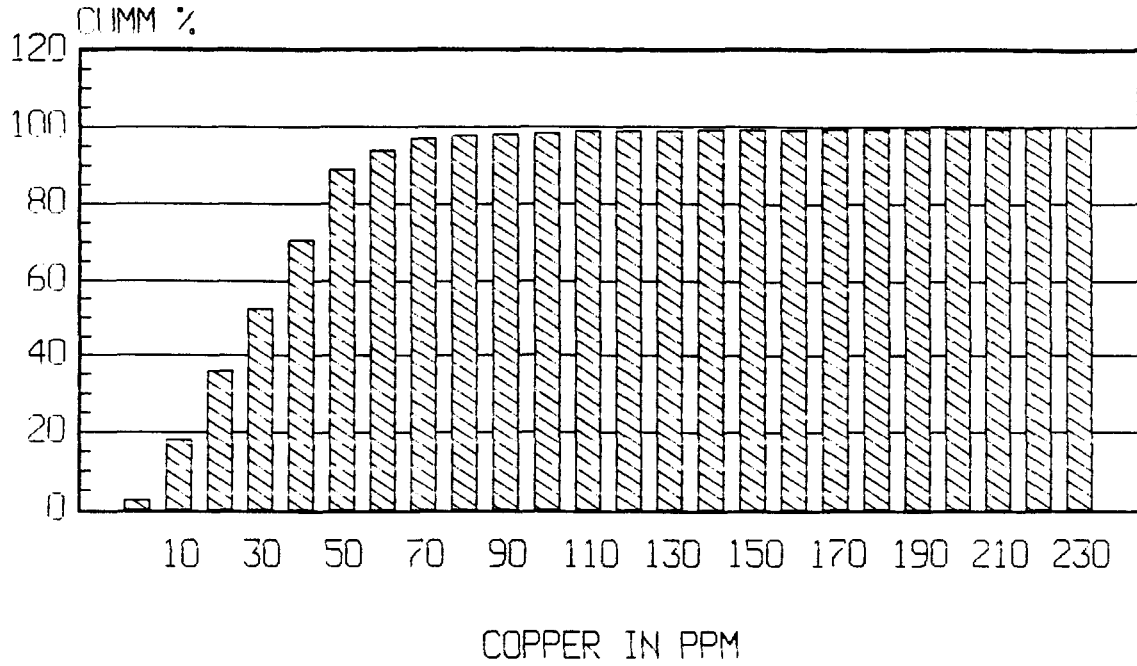
CLEAR LAKE HISTOGRAM - AG
445 CASES; 35 MD



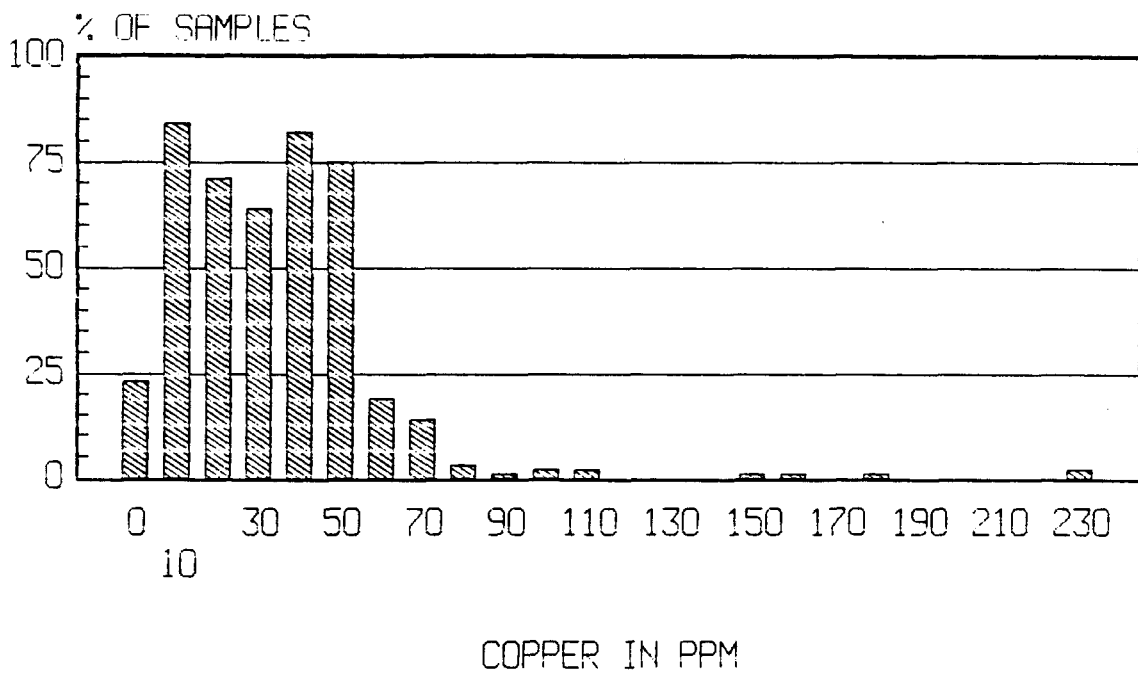
CLEAR LAKE CUMULATIVE FREQUENCY - Ag
445 CASES, 35 MD



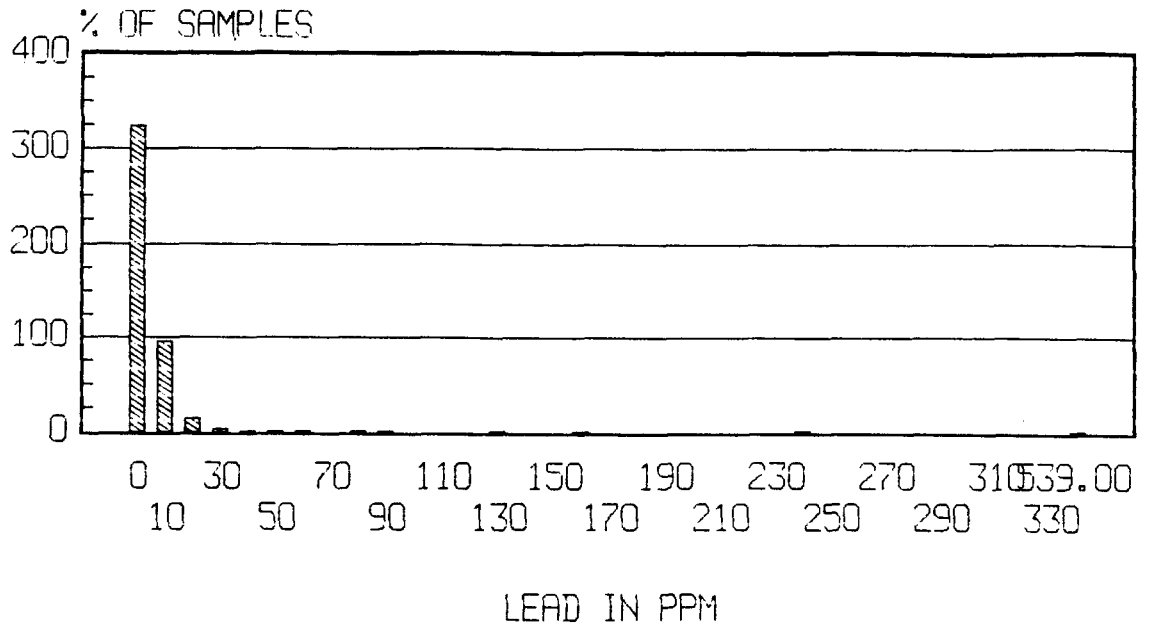
CLEAR LAKE CUMULATIVE FREQUENCY - CU
445 CASES; 35 MD



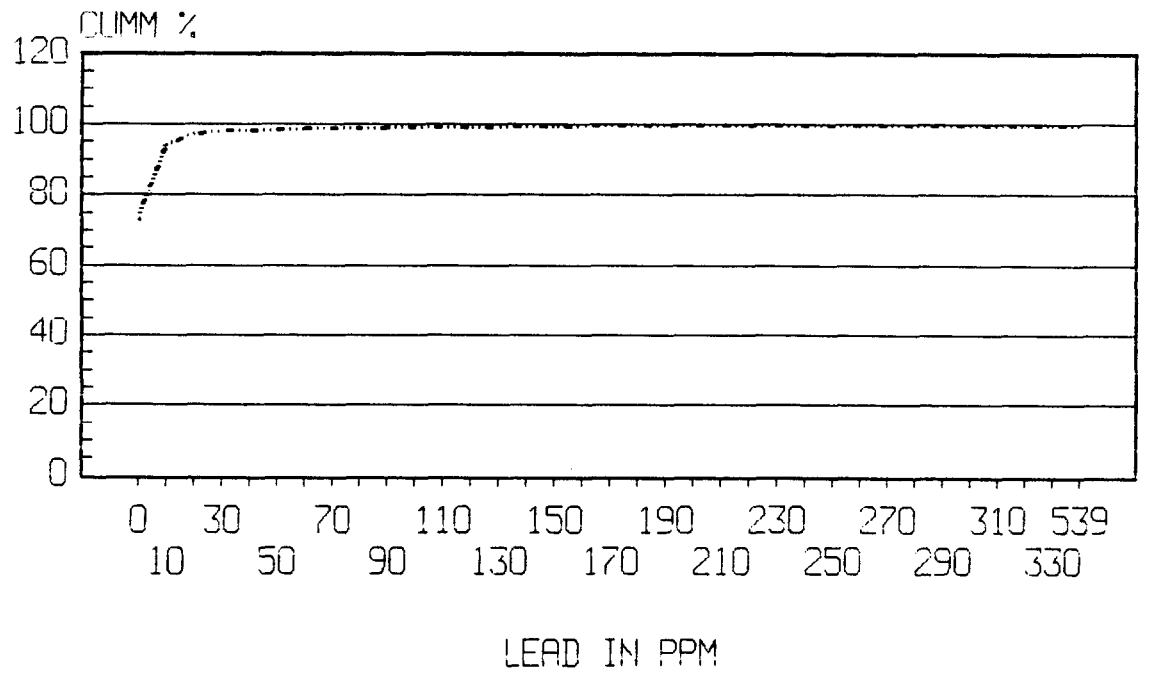
CLEAR LAKE HISTOGRAM CU
445 CASES; 35 MD



CLEAR LAKE HISTOGRAM - PB
445 CASES; 35 MD

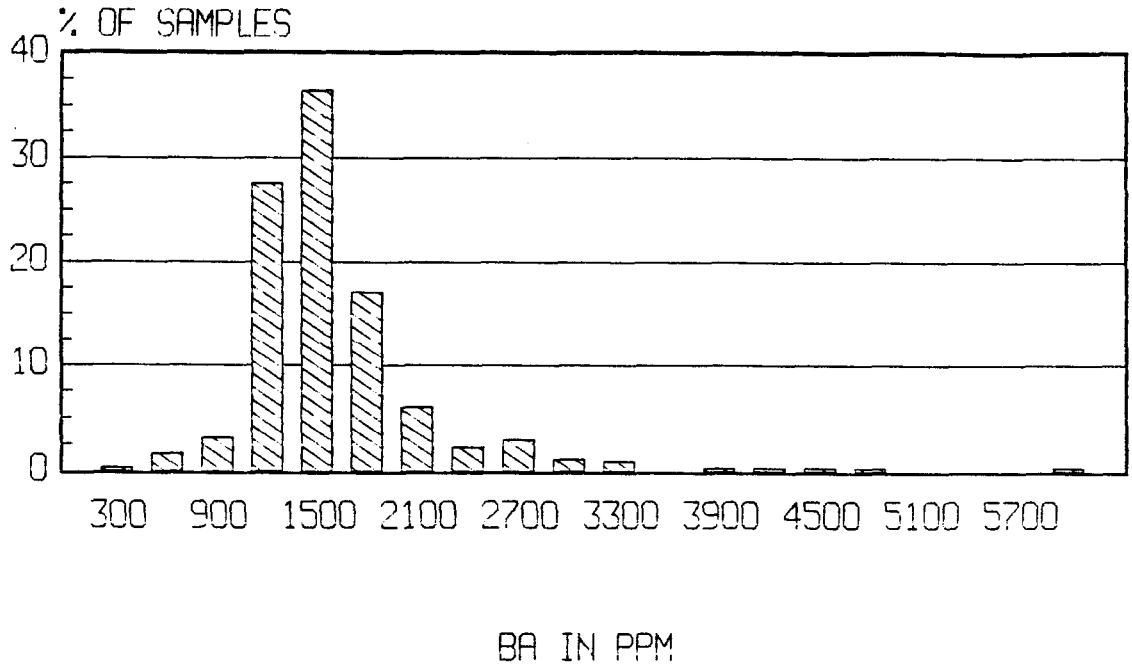


CLEAR LAKE CUMULATIVE FREQUENCY - PB
445 CASES; 35 MD

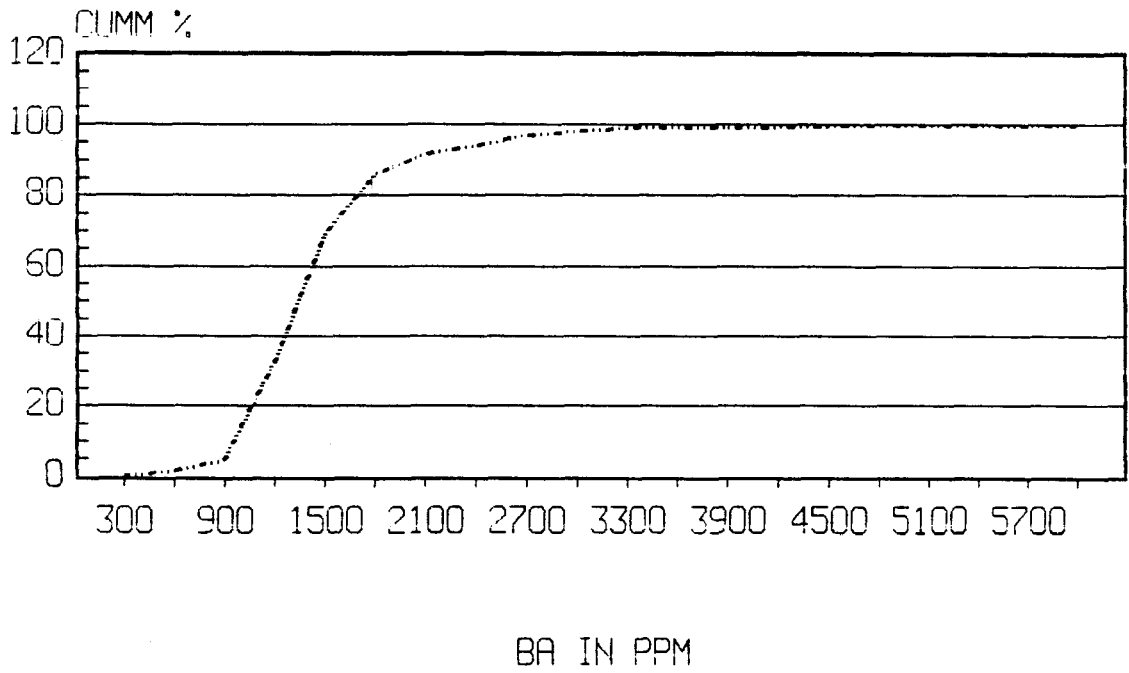


css/pc: graphs	HISTOGRAM: J 451 CASES; 29 MD			
<i>Ba</i>	N of CASEs	% of CASEs	Cumm.N of CASEs	Cumm.% of CASEs
.0 - 300.	1	.22	1	.22
300. - 600.	7	1.55	8	1.77
600. - 900.	14	3.10	22	4.88
900. - 1200.	124	27.49	146	32.37
1200. - 1500.	164	36.36	310	68.74
1500. - 1800.	77	17.07	387	85.81
1800. - 2100.	27	5.99	414	91.80
2100. - 2400.	10	2.22	424	94.01
2400. - 2700.	13	2.88	437	96.90
2700. - 3000.	5	1.11	442	98.00
3000. - 3300.	4	.89	446	98.89
3300. - 3600.	0	.00	446	98.89
3600. - 3900.	1	.22	447	99.11
3900. - 4200.	1	.22	448	99.33
4200. - 4500.	1	.22	449	99.56
4500. - 4800.	1	.22	450	99.78
4800. - 5100.	0	.00	450	99.78
5100. - 5400.	0	.00	450	99.78
5400. - 5700.	0	.00	450	99.78
5700. - 5800.	1	.22	451	100.00

CLEAR LAKE HISTOGRAM - BA
451 CASES; 29 MD



CLEAR LAKE CUMULATIVE FREQUENCY - BA
451 CASES; 29 MD

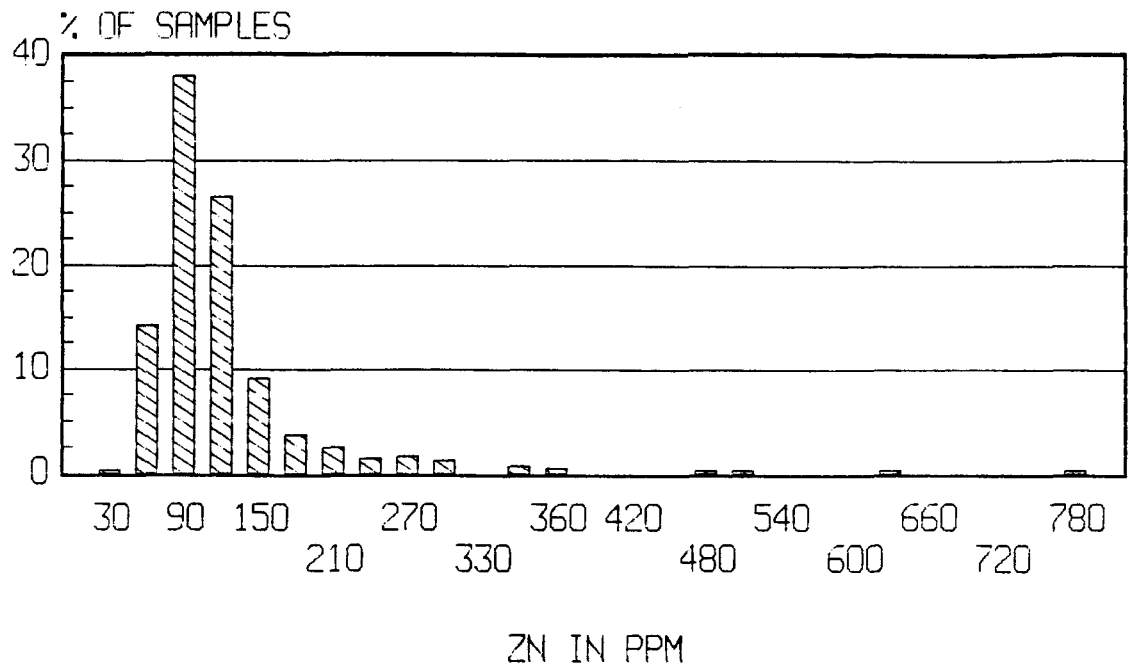


css/pc:
graphs

HISTOGRAM: I
445 CASES; 35 MD

Z_n	N of CASEs	% of CASEs	Cumm.N of CASEs	Cumm.% of CASEs
.0 - 30.	1	.22	1	.22
30. - 60.	63	14.16	64	14.38
60. - 90.	169	37.98	233	52.36
90. - 120.	118	26.52	351	78.88
120. - 150.	40	8.99	391	87.87
150. - 180.	16	3.60	407	91.46
180. - 210.	11	2.47	418	93.93
210. - 240.	6	1.35	424	95.28
240. - 270.	7	1.57	431	96.85
270. - 300.	5	1.12	436	97.98
300. - 330.	0	.00	436	97.98
330. - 360.	3	.67	439	98.65
360. - 390.	2	.45	441	99.10
390. - 420.	0	.00	441	99.10
420. - 450.	0	.00	441	99.10
450. - 480.	0	.00	441	99.10
480. - 510.	1	.22	442	99.33
510. - 540.	1	.22	443	99.55
540. - 570.	0	.00	443	99.55
570. - 600.	0	.00	443	99.55
600. - 630.	0	.00	443	99.55
630. - 660.	1	.22	444	99.78
660. - 690.	0	.00	444	99.78
690. - 720.	0	.00	444	99.78
720. - 750.	0	.00	444	99.78
750. - 780.	0	.00	444	99.78
780. - 790.	1	.22	445	100.00

CLEAR LAKE HISTOGRAM - ZN
445 CASES; 35 MD



CLEAR LAKE CUMULATIVE FREQUENCY - ZN
445 CASES; 35 MD

