

MAP NO.: ASSESSMENT REPORT X
105 G 9 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092891
MINING DISTRICT: Watson Lake
TYPE OF WORK: Geology
Geochemistry

REPORT FILED UNDER: Warren Arnholtz

DATE PERFORMED: Sept 7, 1989, June 13, 1990

DATE FILED: Dec 24, 1990

LOCATION: LAT.: 61°32'N

AREA: Wolverine Lake

LONG.: 130°32'W

VALUE \$: 4,000

CLAIM NAME & NO.: ARM 1-8

WORK DONE BY: R. Basnett, Total Energold Corp.

WORK DONE FOR: Warren Arnholtz

DATE TO GOOD STANDING:

REMARKS: Dev to Miss interbedded black slates, phyllites and minor chert pebble cong. underlay the property. Soil sampling revealed an area anomalous in zinc and copper on a prominent limonite dep. The source of the anomaly was not located nor was the source of the gossan. It is thought that the anomalie may be reflecting the presence of a sedex type deposit in the area as there are several others of that type in the area (PACK FYRE, FETISH).



GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE ARM 1-8 MINERAL CLAIMS

ARM PROPERTY
Wolverine Lake Area
Watson Lake Mining District
NTS 105G/9
Lat. 61°32'N, Long 130°26'W

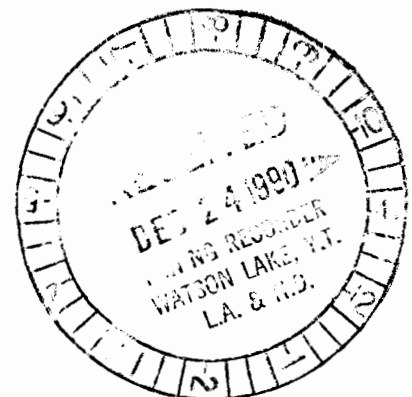
Owner: WARREN ARNHOLTZ
Box 5634
Whitehorse, Yukon

CONFIDENTIAL

Work Performed: September 7th, 1989 & June 13th, 1990

Prepared by: Total Energold Corporation
Richard Basnett
December 20, 1990

092891



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 \$ 4,000.

W. J. Ouellette

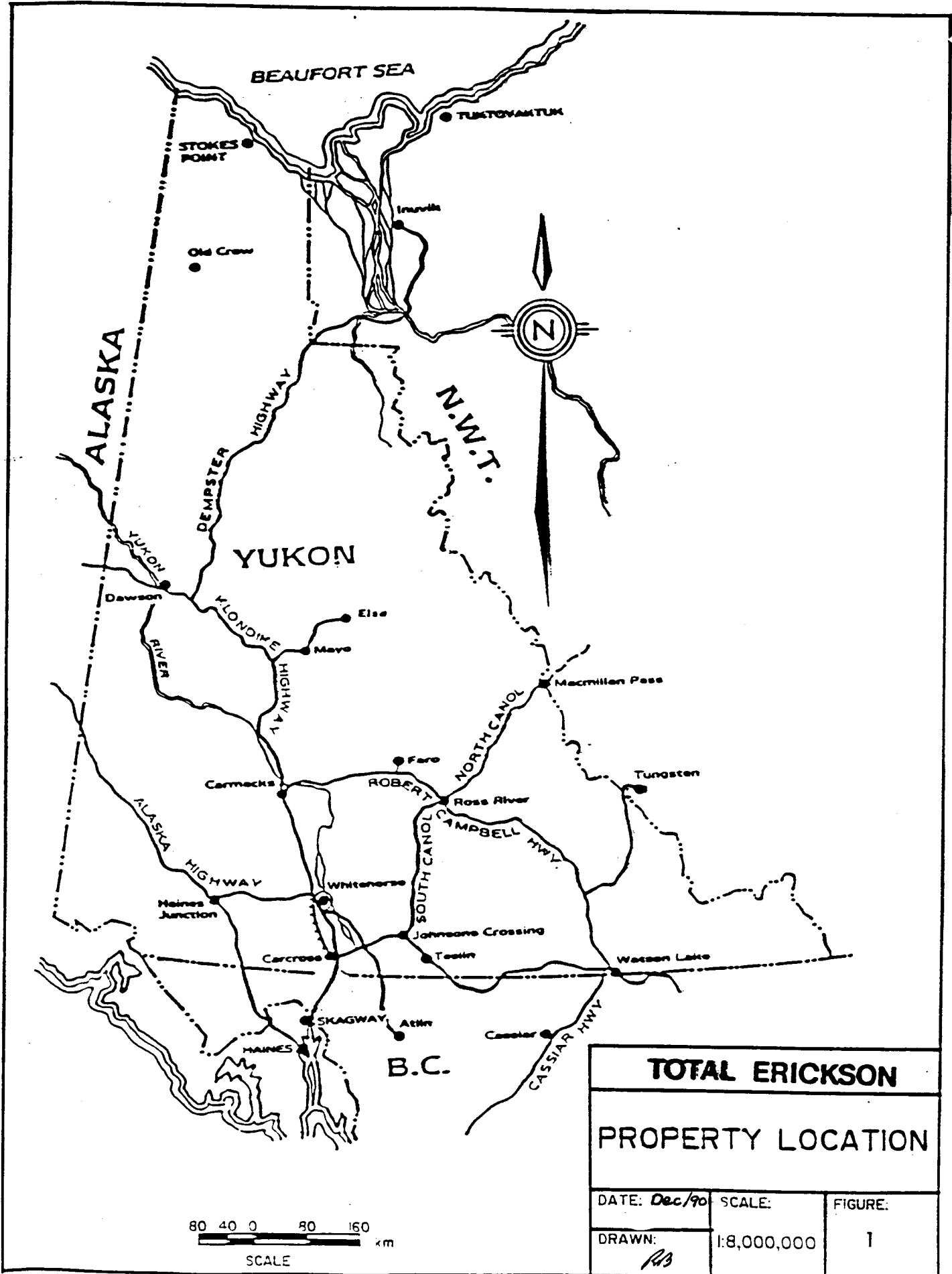
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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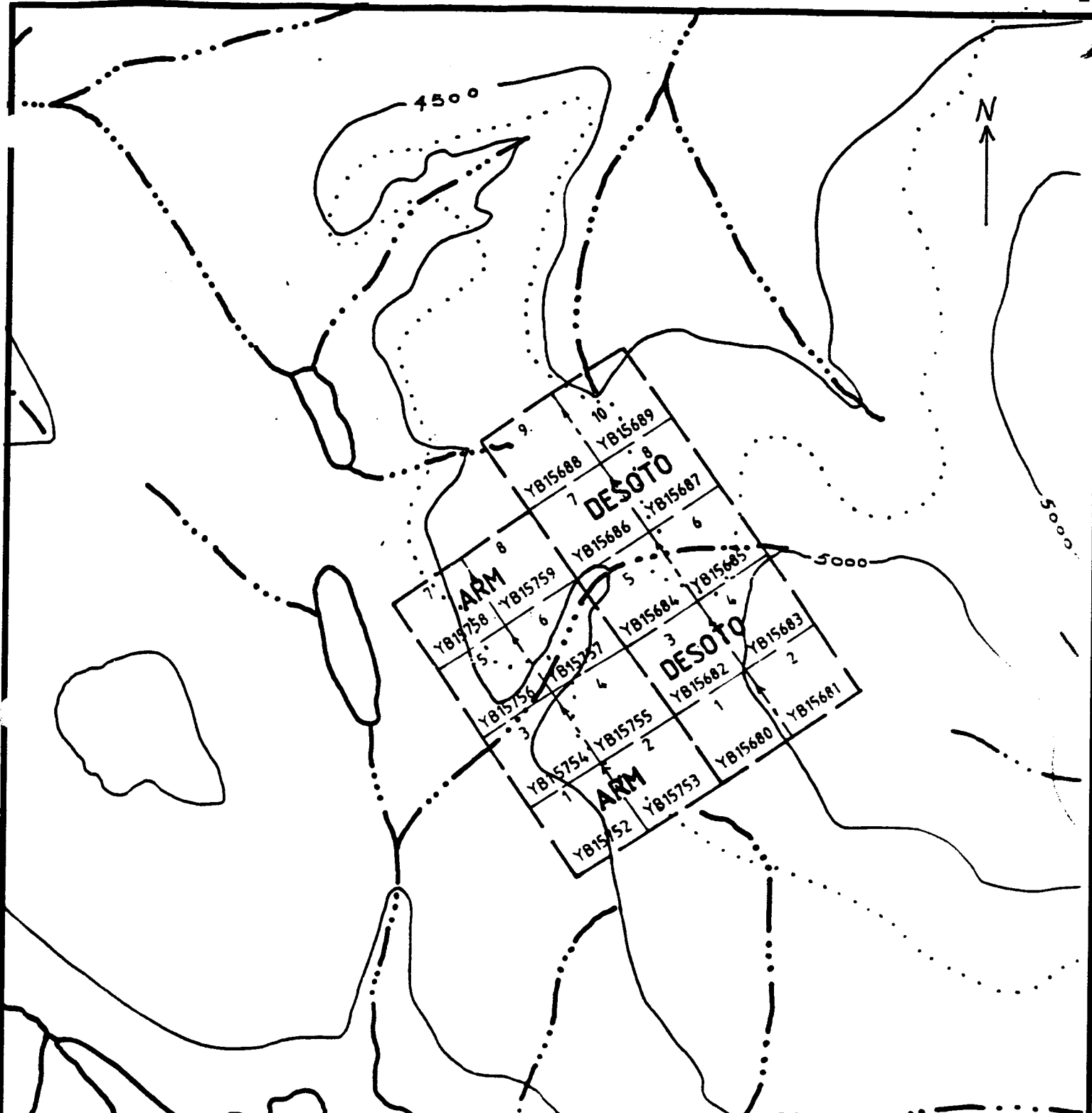
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TOTAL ERICKSON		
PROPERTY LOCATION		
DATE: <i>Dec/90</i>	SCALE:	FIGURE:
DRAWN: <i>RB</i>	1:8,000,000	1



TOTAL ENERGOLD CORPORATION

ARM PROPERTY

Claim Plan

N.T.S.: 105G-9	TECH: <i>RB</i>	DATE: Dec/90
SCALE: 1/2 mi = 1"	DRAUGHTING:	FIGURE: 2.

1. INTRODUCTION

On September 7th 1989 and June 13th, 1990 a geological and geochemical survey was done on the ARM property in the eastern Yukon.

2. LOCATION AND ACCESS

The ARM property is located at approximate latitude $61^{\circ}32'$ N, longitude $130^{\circ}26'$ W and appears on claim sheet 105G/9 in the Watson Lake Mining District. It contains 8 unsurveyed mineral claims located and recorded under the Quartz Mining Act. The claims are held by Warren Arnholtz. The particulars of the claims are outlined as follows.

<u>Claim Name</u>	<u>Record Number</u>	<u>Date Recorded</u>
ARM 1-8	YB15752-15759	July 31, 1989

Access to the property is by helicopter 140 km east southeast of Ross River. A three kilometer long lake suitable for a float plane lies 2 km to the south of the property. The Robert Campbell Highway is 10 km to the north of the property.

3. HISTORY

The area was prospected since the 1920's but until the G.S.C. stream sediment release in 1988 no claims were staked in the area. This survey revealed stream sediment samples that were anomalous in Zn (3511 & 1935 ppm Zn) about 1 km down drainage. These anomalies prompted the staking of the ARM claims.

North of the ARM claims Al Carlos staked the DESOTO claims.

4. GEOLOGY

The ARM claims are underlain by the late Devonian to Mississippian interbedded black slates, black siliceous phyllites and minor medium grey chert pebble conglomerates. Beds of rusty quartzites are present to the northeast, probably separated by a fault contact.

The black phyllites seen on the ARM claims are well-foliated with the foliation trending northwest, and the foliation plane dipping to the northeast between 30 and 75 degrees. The bedding plane seems to coincide with the foliation plane.

A series of parallel northeast trending valleys suggest the presence of major faults in that direction. Thin breccias, and quartz vein rubble with slickensided margins in the frost-heaved outcrops indicate the common presence of steeply dipping minor faults lacking topographical expression.

A coarse conglomerate is present upstream from the limonite deposit described below. It lies unconformably on the black phyllites and is composed of cobble-size, slightly rounded, black phyllite clasts and some well-rounded brown quartzite cobbles.

5. 1990 EXPLORATION

5.1 Mineralization and Prospecting

Two days of cursory mapping and prospecting (two geologists and one prospector) located a prominent limonitic deposit (Figure 3). The margins of the limonite deposit are covered by talus and peat. It is visible for about 300 m in length and is about 10 m in width. For most of its length it is over 3 m thick. The base of the deposit is not exposed, and the lowest exposure is formed by the creek bed.

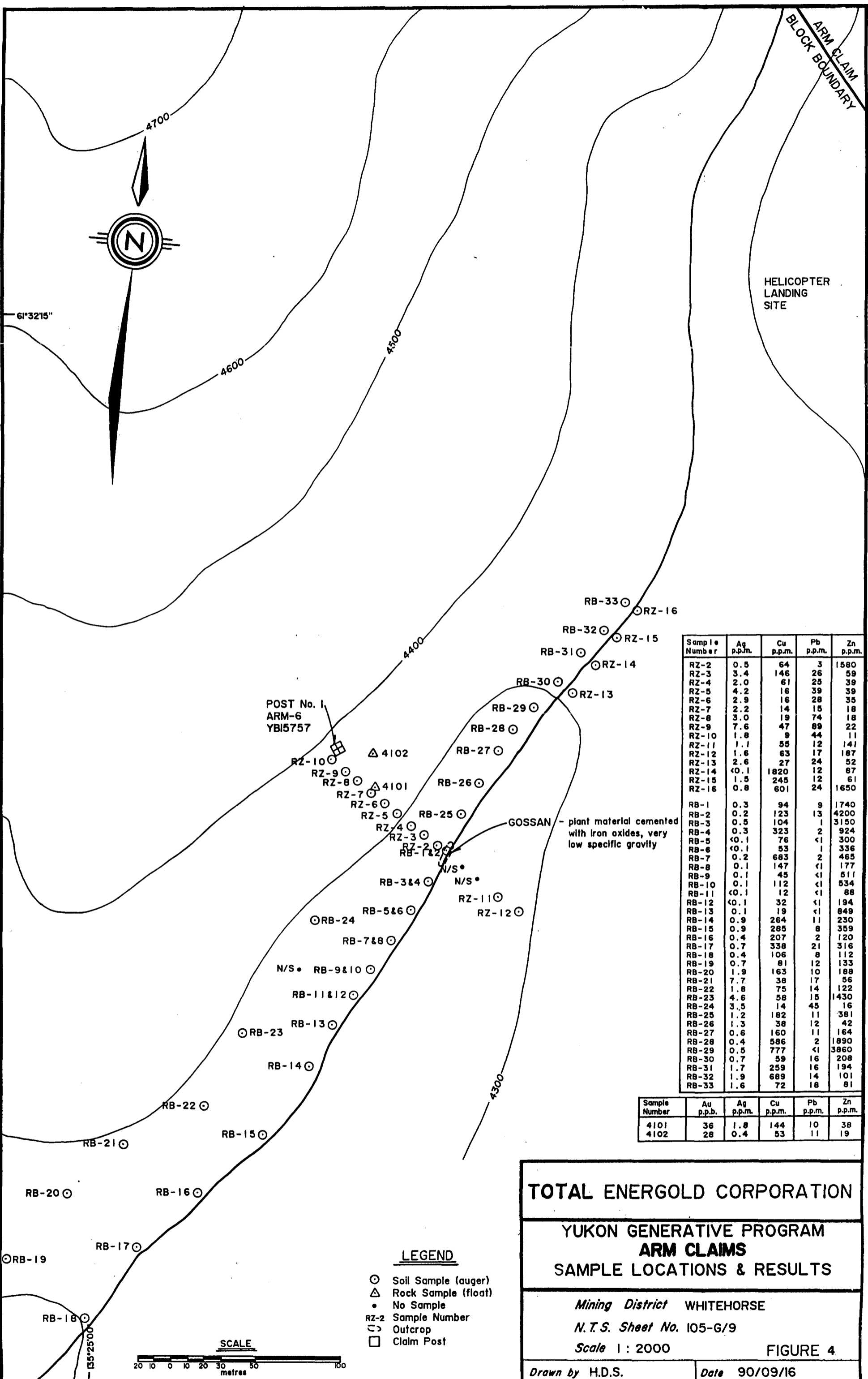
5.2 Geochemistry

Forty-eight soil samples and two rock samples were collected on the property. Soil samples were analysed by atomic absorption (AA) for Ag, Cu, Pb, and Zn (Au was added in the rock samples). Approximately half of the soil samples taken were anomalous; with values higher than 1.0 ppm Ag, 100 ppm Cu, and 250 ppm Zn. The high values were 7.6 ppm Ag, 1820 ppm Cu, and 4200 ppm Zn.

Rock sample 4101 of black phyllite had high Ag (1.8 ppm) and Cu (144 ppm) values.

5.3 Discussion of Results

The soil survey was done along contour lines near the valley bottom. A well-developed red brown layer up to 2 m thick was sampled. This was found only in the valley floor. Steep talus covered slopes on either side of the valley have very poorly developed soil which was formed from talus fines.



Sample Number	Ag p.p.m.	Cu p.p.m.	Pb p.p.m.	Zn p.p.m.
RZ-2	0.5	64	3	1580
RZ-3	3.4	146	26	59
RZ-4	2.0	61	25	39
RZ-5	4.2	16	39	39
RZ-6	2.9	16	28	35
RZ-7	2.2	14	15	18
RZ-8	3.0	19	74	18
RZ-9	7.6	47	89	22
RZ-10	1.8	9	44	11
RZ-11	1.1	55	12	141
RZ-12	1.6	63	17	187
RZ-13	2.6	27	24	52
RZ-14	<0.1	1820	12	87
RZ-15	1.5	245	12	61
RZ-16	0.8	601	24	1650
RB-1	0.3	94	9	1740
RB-2	0.2	123	13	4200
RB-3	0.5	104	1	3150
RB-4	0.3	323	2	924
RB-5	<0.1	76	<1	300
RB-6	<0.1	53	1	336
RB-7	0.2	683	2	465
RB-8	0.1	147	<1	177
RB-9	0.1	45	<1	511
RB-10	0.1	112	<1	534
RB-11	<0.1	12	<1	88
RB-12	<0.1	32	<1	194
RB-13	0.1	19	<1	849
RB-14	0.9	264	11	230
RB-15	0.9	285	8	359
RB-16	0.4	207	2	120
RB-17	0.7	338	21	316
RB-18	0.4	106	8	112
RB-19	0.7	81	12	133
RB-20	1.9	163	10	188
RB-21	7.7	38	17	56
RB-22	1.8	75	14	122
RB-23	4.6	58	15	1430
RB-24	3.5	14	45	16
RB-25	1.2	182	11	381
RB-26	1.3	38	12	42
RB-27	0.6	160	11	164
RB-28	0.4	586	2	1890
RB-29	0.5	777	<1	3860
RB-30	0.7	59	16	208
RB-31	1.7	259	16	194
RB-32	1.9	689	14	101
RB-33	1.6	72	18	81

Sample Number	Au p.p.b.	Ag p.p.m.	Cu p.p.m.	Pb p.p.m.	Zn p.p.m.
4101	36	1.8	144	10	38
4102	28	0.4	53	11	19

- LEGEND**
- ⊙ Soil Sample (auger)
 - △ Rock Sample (float)
 - No Sample
 - RZ-2 Sample Number
 - ⊔ Outcrop
 - Claim Post



TOTAL ENERGOLD CORPORATION

YUKON GENERATIVE PROGRAM

ARM CLAIMS

SAMPLE LOCATIONS & RESULTS

Mining District WHITEHORSE

N.T.S. Sheet No. 105-G/9

Scale 1 : 2000

FIGURE 4

Drawn by H.D.S. *Date* 90/09/16

MAP 105 G/9 Doc# 092291 295

6. CONCLUSIONS AND RECOMMENDATIONS

A prospecting and soil sampling survey involving 3 people for 2 days was successful in locating a transported limonitic "gossan" and a very anomalous Zn-Cu zone in the soil. The program was not successful in locating the source of the "gossan" or soil anomaly.

Several other properties in the area (the PACK, FYRE, and FETISH) display significant zinc and copper mineralization in sedex type deposits. It is highly likely that the source for the anomalies on the Arm property is similar to the sedex mineralization found in the area.

It is recommended that further soil sampling along 150 m spaced grid lines and detailed geologic mapping be done on the claims.

7. STATEMENT OF EXPENDITURES

Personnel

	Position	Days	Rate	Totals
R. Basnett	Geologist	3	\$400/d	\$1200
R. Zuran	Geologist	2	\$300/d	600
J. Martensson	Prospector	2	\$150/d	300

Helicopter

5 hours @ \$600/hr	\$3000
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Map Preparation

\$200

\$5300

8. STATEMENT OF QUALIFICATIONS

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 15 years.
3. I am a member of the Geological Association of Canada.
4. I participated in the work described in this report while evaluating the mineral potential of the ARM claims for Total Energold Corporation.

Date: Dec 21 /90



Richard Basnett

APPENDIX

Analytical Results

June 26, 1990

Work Order # 34664

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

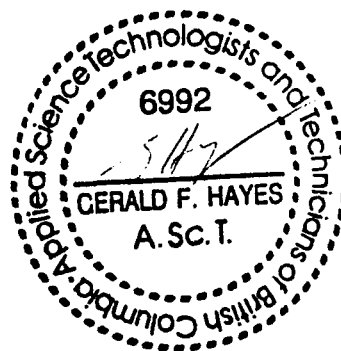
File # 34664a

P.O. # 3458

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn
4101	36	1.8	144	10	38
4102	28	0.4	53	11	19

Au -- 15g Fire Assay/AAS
Metals -- Aqua Regia Digestion/AAS Geochem



June 26, 1990

Work Order # 34664

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

File # 34664b

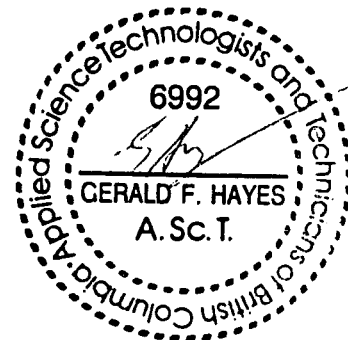
P.O. # 3458

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
--------	--------	--------	--------	--------

SITE A	ARM RZ -002	0.5	64	3	1580	Gosson line across creek upstream from Gosson
	ARM RZ -003	3.4	146	26	59	
	ARM RZ -004	2.0	61	25	39	
	ARM RZ -005	4.2	16	39	39	
	ARM RZ -006	2.9	16	28	35	
	ARM RZ -007	2.2	14	15	18	
	ARM RZ -008	3.0	19	74	18	
	ARM RZ -009	7.6	47	89	22	
	ARM RZ -010	1.8	9	44	11	
	ARM RZ -011	1.1	55	12	141	
	ARM RZ -012	1.6	63	17	187	
	ARM RZ -013	2.6	27	24	52	
	ARM RZ -014	<0.1	1820	12	87	
	ARM RZ -015	1.5	245	12	61	
	ARM RZ -016	0.8	601	24	1650	
SITE B	ARM RZ -017	1.5	116	32	526	
	ARM RZ -018	6.1	158	29	1510	
	ARM RZ -019	0.7	47	15	431	
	ARM RZ -020	0.7	60	23	372	
	ARM RZ -021	1.2	28	11	164	
	ARM RZ -022 (Silt-yellow oxide powder)	0.3	5	5	353	

Metals -- Aqua Regia Digestion/AAS Geochem



June 26, 1990

Work Order # 34664

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

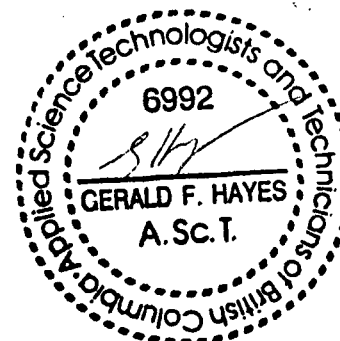
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P.O. # 3458

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
ARM RB - 001	0.3	94	9	1740
ARM RB - 002	0.2	123	13	4200
ARM RB - 003	0.5	104	1	3150
ARM RB - 004	0.3	323	2	924
ARM RB - 005	<0.1	76	<1	300
ARM RB - 006	<0.1	53	1	336
ARM RB - 007	0.2	683	2	465
ARM RB - 008	<0.1	147	<1	177
ARM RB - 009	0.1	45	<1	511
ARM RB - 010	0.1	112	<1	534
ARM RB - 011	<0.1	12	<1	88
ARM RB - 012	<0.1	32	<1	194
ARM RB - 013	0.1	19	<1	849
ARM RB - 014	0.9	264	11	230
ARM RB - 015	0.9	285	8	359
ARM RB - 016	0.4	207	2	120
ARM RB - 017	0.7	338	21	316
ARM RB - 018	0.4	106	8	112
ARM RB - 019	5.7	81	12	133
ARM RB - 020	1.9	163	10	188

Metals -- Aqua Regia Digestion/AAS Geochem



June 26, 1990

Work Order # 34664

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

File # 34664d

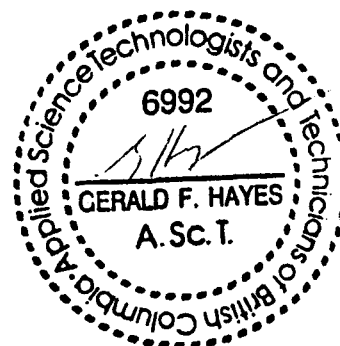
P.O. # 3458

Assay Certificate for Samples Provided

Sample	ppm Ag	ppm Cu	ppm Pb	ppm Zn
ARM RB - 021	7.7	38	17	56
ARM RB - 022	1.8	75	14	122
ARM RB - 023	4.6	58	15	1430
ARM RB - 024	3.5	14	45	16
ARM RB - 025	1.2	182	11	381
ARM RB - 026	1.3	38	12	42
ARM RB - 027	0.6	160	11	164
ARM RB - 028	0.4	586	2	1890
ARM RB - 029	0.5	777	<1	3860
ARM RB - 030	0.7	59	16	208
ARM RB - 031	1.7	259	16	194
ARM RB - 032	1.9	689	14	101
ARM RB - 033	1.6	72	18	81
ARM RB - 034	0.4	12	<1	2060
ARM RB - 035	0.6	61	9	161
ARM RB - 036	2.7	73	31	229
ARM RB - 037	1.6	45	21	170
ARM RB - 038	1.1	164	27	284
ARM RB - 039	0.4	31	4	1950

Au -- 15g Fire Assay/AAS

Metals -- Aqua Regia Digestion/AAS Geochem



June 26, 1990

Work Order # 34664

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

File # 34664e

P.O. # 3458

Assay Certificate for Samples Provided

Sample	ppb Au
ARM RB - 001	41
ARM RB - 002	30
ARM RB - 003	21
ARM RB - 004	<10
ARM RB - 005	<10

Au -- 15g Fire Assay/AAS

