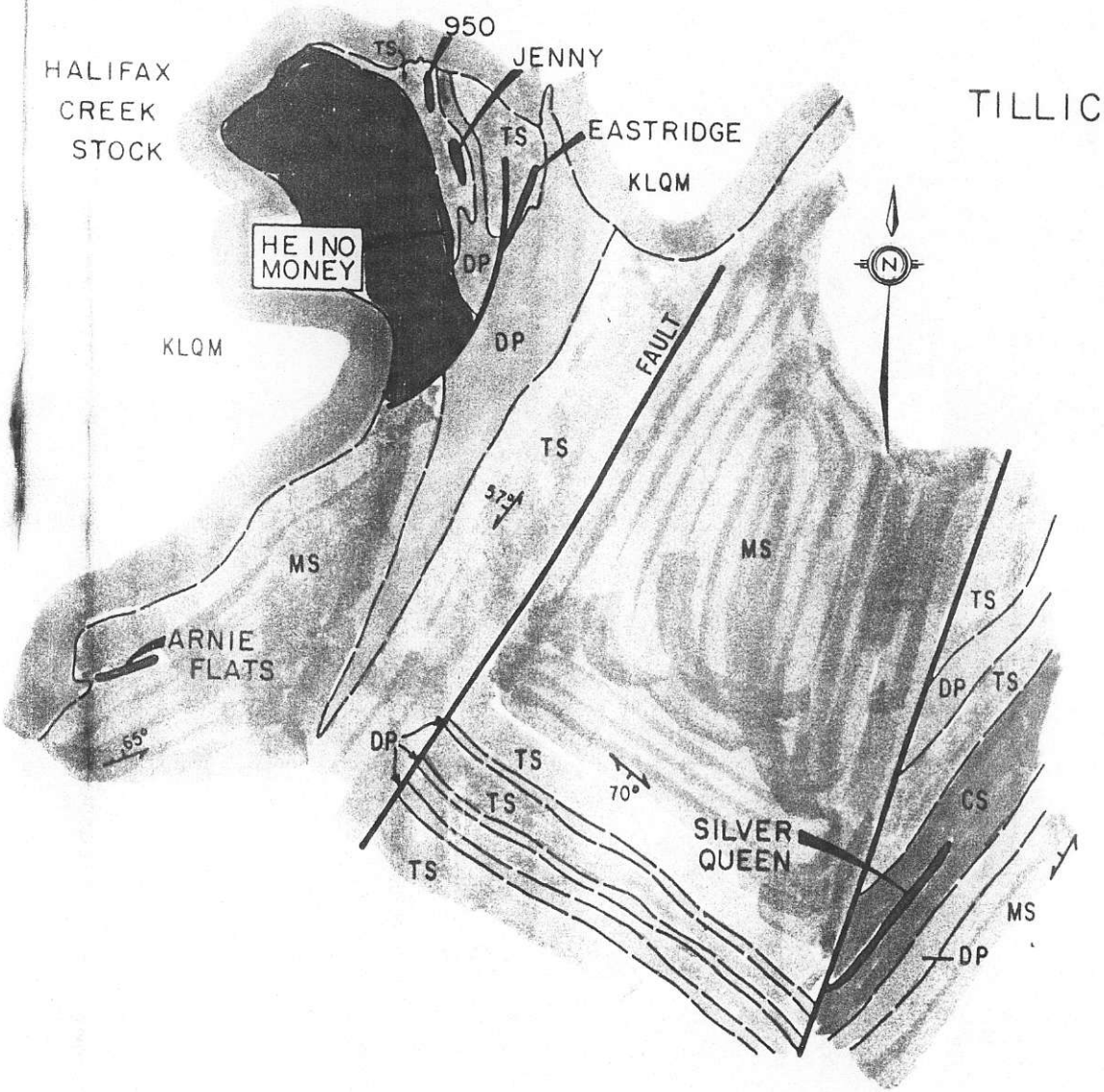
822785



GEOLOGY
TILLICUM GOLD PROPERTY

KLQM	QUARTZ DIORITE, DIORITE
DP	DIORITE PORPHYRY
MILFORD GROUP ?	
CS	CALCAREOUS META-SEDS.
TS	TUFFACEOUS META-SEDS.
	META BASALTIC ANDESITE
MS	UNDIVIDED MILFORD GP.

0 — 1.0
KILOMETRE

Figure 3

LEGEND: TILLICUM DISTRICT

AGE	UNIT	DESCRIPTION	METAMORPHIC OVERPRINT: CALC-SILICATE SKARN	METAMORPHIC OVERPRINT: HORNFELS
		LAMPROPHYRE DYKES		
UNKNOWN	LMP	DARK GREEN CARBONATE ALTERED, AUGITE-EPIDOTE BEARING LAMPROPHYRE		
"	LGR	LEUCOGRANITE DYKES		
		GOAT CANYON - HALIFAX CREEK STOCKS		
CRET-JURASSIC	Kgmb	HORNBLENDE-BIOTITE QUARTZ MONZONITE, minor QUARTZ DIORITE, GRANODIORITE		
		SKARN IMPREGNATIONS —GOLD MINERALIZATION	DIOPSIDE-TREMOLITE QUARTZ SKARN + GOLD QUARTZ SKARN + GOLD + PYRITE TREMOLITE-GROSSULARITE K-FELD QUARTZ SKARN + PYRITE + GALENA + SPHALERITE + GOLD DIOPSIDE-TREMOLITE-CLINOZOISITE QUARTZ SKARN + PYRITE + GOLD TREMOLITE-EPIDOTE-CARBONATE-CHLORITE GARNET-K-FELDSPAR SKARN CLINOZOISITE-GARNET-DIOPSIDE-K-FELDSPAR QUARTZ SKARN + PYRITE + GOLD	
UNKNOWN	DP	MASSIVE TO FOLIATED, GREY DIORITE PORPHYRY WITH SUBROUNDED PLAGIOCLASE PHENOCRYSTS IN MOTTLED APHANITIC GROUNDMASS WITH SPARSE ANHEDRAL GARNETS		
	DH	HYBRID DIORITE-HIGHLY DIORITIZED METASEDIMENTS		
		MILFORD GROUP INCLUDES META-SEDS/META VOLC ASSEMBLAGES ORIGINALLY MAPPED AS MILFORD/KASLO GROUPS		
MISSISSIPIAN & YOUNGER	SH	DARK-GREY-BLACK INDISTINTLY LAMINATED SHALE, LOCAL DEVELOPMENT OF SILTSTONE LAMINATIONS	CALC-SILICATED-HORNFELSED SHALE	BIOTITE-ACTINOLITE-CHLORITE SCHIST
	TS	BEIGE-TAN-DARK GREY, LAMINATED TUFFACEOUS SHALE	LAMINATED CALC-SILICATE BIOTITE-PLAGIOCLASE-CHLORITE-GARNET SCHIST	BIOTITE-CHLORITE-HORNBLENDE SCHIST
	TV	BEIGE, PALE GREEN TUFFACEOUS ANDESITE	QUARTZ-TREMOLITE-CLINOZOISITE INPREGNATED TUFFACEOUS ANDESITE	BIOTITE-ACTINOLITE-CHLORITE SCHIST
	MA	DARK GREEN, FINE GRAINED META ANDESITE TO META-BASALTIC ANDESITE (BRECCIA, TUFFS, FLOWS)	ZEBRA ANDESITE. DIOPSIDE-TREMOLITE-ACTINOLITE-BIOTITE GARNETIFEROUS HORNFELS	PLAGIOCLASE-HORNBLENDE-AUGITE EPIDOTE AMPHIBOLITE BIOTITE-HORNBLENDE-PLAGIOCLASE-CARBONATE HORNFELS
	HC	PINK-BEIGE, FINE GRAINED, SUGARY TEXTURED, ALTERED CLASTICS INCLUDING QUARTZITE, ARKOSE AND SILTSTONE.	BIOTITE-MUSCOVITE-GARNETIFEROUS SKARN	QUARTZ-K-FELDSPAR-BIOTITE-CHLORITE SCHIST
	HQ	YELLOW-BROWN, SUGARY TEXTURED, FINE GRAINED, ALTERED QUARTZITE	QUARTZ-TREMOLITE-SULPHIDE INPREGNATED META QUARTZITE	MUSCOVITE-ORTHOCLASE-QUARTZ SCHIST
	SS	WHITE TO YELLOW, QUARTZ-SERICITE SCHIST (POSSIBLY CAUSED BY SHEARING AND ALTERATION OF DH)		

MODIFERS

- f — FAULTED, SHEARED
- t — TUFFACEOUS
- py — PYRITIC
- l — LAMINATED
- m — MASSIVE
- q — QUARTZ VEINING
- v.g — VISIBLE GOLD
- Po — PYRRHOTITE
- ms — MASSIVE SULPHIDE
- Pb — GALENA
- Zn — SPHALERITE
- i — INTERMITTANT
- w — WEAK

ALTERATION TYPES

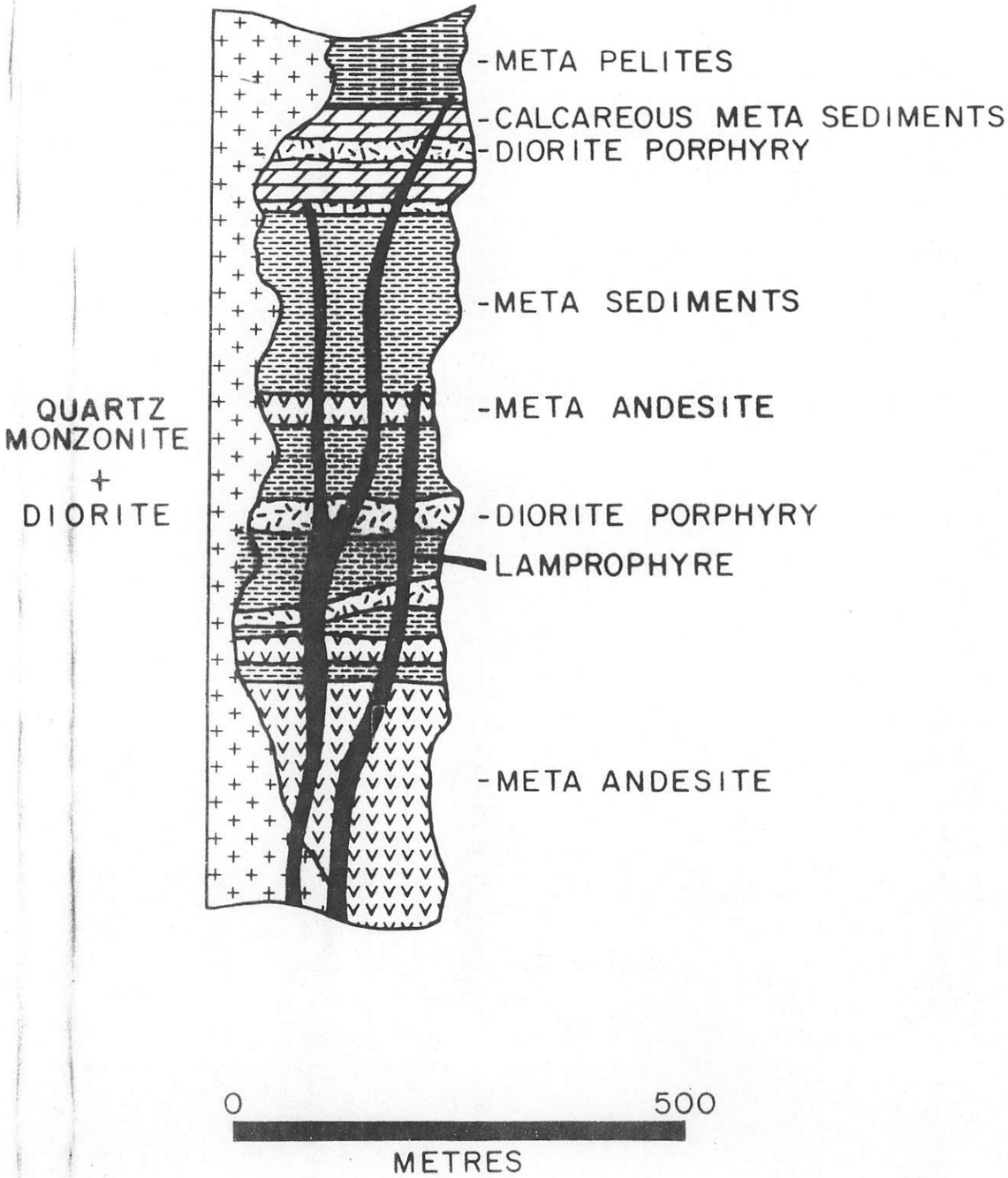
- A — ALTERED, NOT DEFINED
- H — HORNFELS
- K — CALC-SILICATE
- C — CARBONITIZATION
- S — SILICIFICATION
- N — SKARN
- R — ARGILLIC ALTERATION (KAOLINITE, MONTMORILLONITE, PYROPHYLLITE)

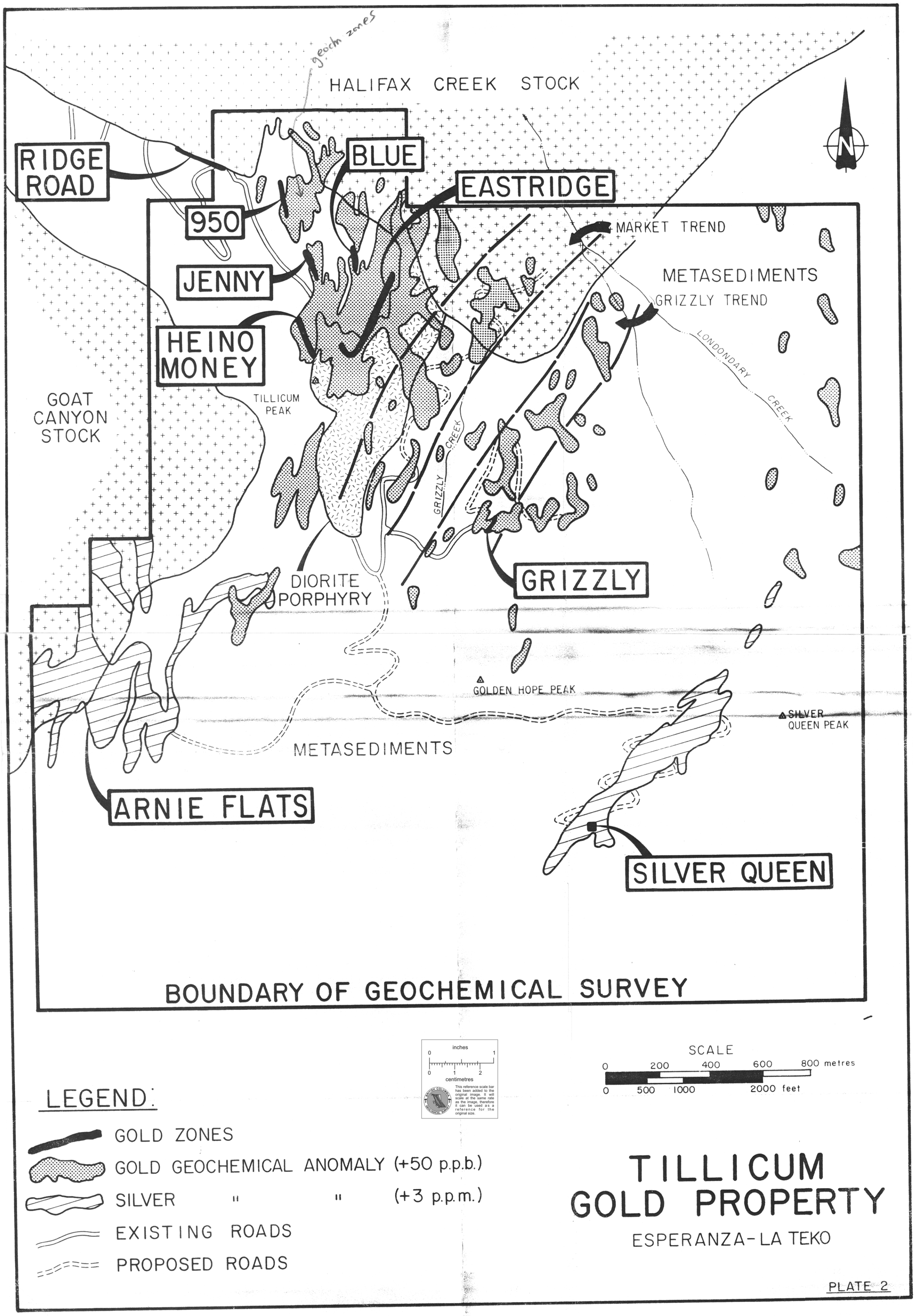
Fig: 4

FIGURE 5

TILLICUM GOLD PROPERTY

LITHOSTRATIGRAPHIC COLUMN




geoch zones
HALIFAX CREEK STOCK
RIDGE ROAD
BLUE
EASTRIDGE
950
JENNY
HEINO MONEY
MARKET TREND
METASEDIMENTS
GRIZZLY TREND
LONDONDARY CREEK
GRIZZLY CREEK
GOAT CANYON STOCK
TILLICUM PEAK
DIORITE PORPHYRY
GRIZZLY
GOLDEN HOPE PEAK
SILVER QUEEN PEAK
METASEDIMENTS
ARNIE FLATS
SILVER QUEEN
BOUNDARY OF GEOCHEMICAL SURVEY
inches
0 1
0 1 2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
SCALE
0 200 400 600 800 metres
0 500 1000 2000 feet
LEGEND:
GOLD ZONES
GOLD GEOCHEMICAL ANOMALY (+50 p.p.b.)
SILVER " " (+3 p.p.m.)
EXISTING ROADS
PROPOSED ROADS
TILLICUM GOLD PROPERTY
ESPERANZA-LA TEKO
PLATE 2

HEINO-MONEY ADIT

CHIP SAMPLING

Sample No	Location	Interval (m)	Width (m)	Au o/t	Ag o/t
8003	Dump	0 - 1	1	2.672	1.08
8004	"	1 - 1.5	0.5	6.708	3.76
8005	"	1.5 - 2.5	1	0.175	1.69
8006	Face of Adit	0 - 1	1	0.018	0.07
8007	"	1 - 2	1	0.026	0.05
8008	"	2 - 3	1	0.006	0.10
8009	" Round No.	3 - 4	1	0.029	0.07
8010	"	4 - 5	1	0.002	0.03
8011	" –	–	–	–	–
8012	Face after R 1	0 - 1	1	1.668	0.83
8013	" "	1 - 2	1	0.008	0.01
8014	" "	2 - 3	1	0.064	0.03
8015	" R 2	0 - 1	1	0.001	0.01
8016	" "	1 - 2	1	0.11	
8017	" "	2 - 3	1	0.09	
8018	" "	3 - 4	1	0.07	
8019	" R 3	0 - 1	1	0.008	
8020	" "	1 - 2	1	0.10	
8021	" "	2 - 3	1	0.07	
8022	" "	3 - 4	1	0.05	0.05
8023	–	–	–	–	0.04
8024	" R 4	0 - 1	1	0.007	0.19
8025	" "	1 - 1.8	0.8	0.003	0.11
8026	" R 5	0 - 1	1	0.013	0.06
8027	" "	1 - 1.9	0.9	0.003	0.06
8028	" R 6	0 - 1	1	0.002	0.06
8029	" "	1 - 2.4	1.4	0.06	0.06
8030	" R 7	0 - 1	1	0.00	0.07
8031	" "	1 - 1.9	0.9	0.001	0.06
8032	" R 8	0 - 1	1	0.001	0.10
8033	" "	1 - 2.1	1.1	0.007	0.06
8034	" R 9	0 - 1	1	0.006	0.06
8035	" "	1 - 1.95	0.95	0.582	0.33
8036	" R 10	0 - 1	1	0.052	0.04
8037	" "	1 - 2.1	1.1	0.02	0.01
8038	" R 11	0 - 0.9	0.9	0.009	0.01
8039	" "	0.9 - 2	1.1	0.006	0.01
8040	" R 12	0 - 1	1	0.005	0.01
8041	" "	1 - 1.5	0.5	0.005	0.01
8042	" R 13	0 - 1	1	0.001	0.04
8043	" "	1 - 1.7	0.7	0.005	0.01
8044	Ore zone Face Slash (R 14)	0 - 0.8	0.8	0.012	0.05
8045	Face after R 15	0 - 0.6	0.6	0.01	0.04
8046	" "	0.6 - 1.5	0.9	0.006	0.01
8047	" R 16	0 - 1	1	0.001	0.08
8048	" "	1 - 2	1	0.001	0.06
8049	" R 17	0 - 0.65	0.65	0.001	0.11
8050	" "	0.65 - 1.85	1.2	0.001	0.06
8601	" R 18	0 - 1	1	0.014	0.06
8602	" "	1 - 2.1	1.1	0.001	0.05
8603	" R 19	0 - 0.8	0.8		0.17
8604	" "	0.8 - 1.6	0.8		0.07
8605	14.6 m from HA 4 R 20	0 - 1.3	1.3		0.06
8606	" "	1.3 - 1.9	0.6		0.13
8607	7.2 m from HA 5 " R 21	0 - 1.3	0.13		0.07
8608	" "	1.3 - 2.1	0.8		0.06
8609	9.1 m from HA 5 " R 22	0 - 1.2	1.2		0.17
8610	" "	1.2 - 1.85	0.65		0.08
8611	" R 23	0 - 1.2	1.2		0.10
8612	" "	1.2 - 1.8	0.6		0.07
8613	" R 24	0 - 1.5	1.5	0.009	0.05
8614	" "	1.5 - 2.1	0.6	0.003	0.06
8615	" R 25	0 - 0.6	0.6	0.001	0.06
8616	" "	0.6 - 1.8	1.2	0.026	0.07
8617	" R 26	0 - 1.2	1.2	0.021	0.10
8618	" "	1.2 - 1.8	0.6	0.04	0.12
8619	" R 27	0 - 0.9	0.9	0.001	0.06
8620	" "	0.9 - 1.7	0.8	0.024	0.12
8621	" R 28	0 - 0.8	0.8	0.001	0.04
8622	" "	0.8 - 1.2	0.4	0.001	0.03
8623	" "	1.2 - 1.7	0.5	0.061	0.12
8624	" R 29	0 - 0.7	0.7	0.001	0.06
8625	" "	0.7 - 1.6	0.9	0.009	0.06
8626	" "	1.6 - 1.9	0.3	0.001	0.04
8627	" R 30	0 - 0.7	0.7	0.008	0.06
8628	" "	0.7 - 1.55	0.85	0.013	0.06
8629	" "	1.55 - 1.8	0.25	0.002	0.03
8630	" R 31	0 - 0.7	0.7	0.009	0.03
8631	" "	0.7 - 1.4	0.7	0.001	0.05
8632	" "	1.4 - 2	0.6	0.058	0.07
8633	" R 32	0 - 1.2	1.2	0.001	0.04
8634	" "	1.2 - 1.9	0.7	0.017	0.06
8635	" R 33	0 - 1.1	1.1	0.009	0.05
8636	" "	1.1 - 1.9	0.8	0.015	0.06
8637	" R 34	0 - 1	1	0.033	0.09
8638	" "	1 - 2	1	40.074	18.37
8639	" R 35	0 - 1	1	0.087	0.12
8640	" "	1 - 2.1	1.1	0.087	0.06
8641	" "	0 - 0.8	0.8	0.226	0.17
8642	" "	0.8 - 1.85	1.05	0.002	0.04
8643	Left wall after R 37	1.1 - 2.1	1	0.108	0.11
8644	" "	2.1 - 3.1	1	0.182	0.11
8645	Left wall & Face after R 39	0 - 1	1	0.847	0.39
8646	Face after R 40	0 - 0.6	0.6	0.02	0.07
8647	" "	0.6 - 1.5	0.9	0.006	0.04
8648	" R 41	0 - 0.5	0.5	0.02	0.08
8649	" "	0.5 - 1.5	1	0.011	0.06
8650	" R 42	0 - 0.5	0.5	0.005	0.0[illegible]
8983	" "	0.5 - 2.0	1.5	0.045	
* 8995	" R 43	0 - 1.1	1.1	0.049	
8993	" R 44	0 - 0.6	0.6	0.077	
8994	" "	0.6 - 1.4	0.8	0.133	

BACK SAMPLES

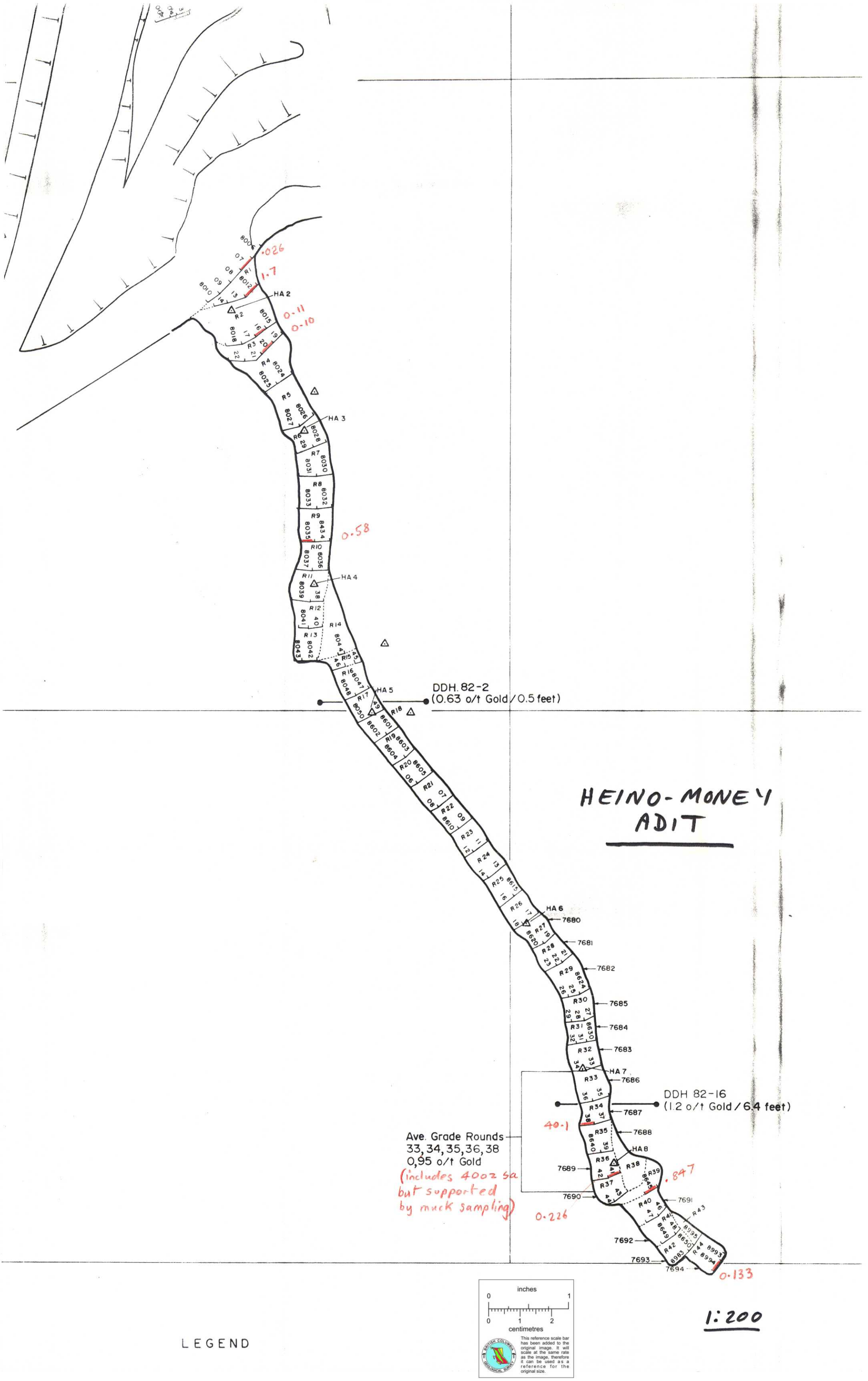
Sample No	Location	Width (m)	Au o/t	Ag o/t
7680	0.09 m from HA6 to HA7	1.51	0.016	
7681	2.6 " HA6 " HA7	1.68	0.004	
7682	4.6 " HA6 " HA7	2	0.012	
7683	0.7 " HA7 " HA6	1.93	0.008	
7684	2.4 " HA7 " HA6	1.9	0.011	
7685	3.9 " HA7 " HA6	1.68	0.007	
7686	1.2 " HA7 " HA8	1.78	0.017	
7687	2.9 " HA7 " HA8	1.81	0.116	
7688	4.6 " HA7 " HA8	1.95	6.387	
7689	6.4 " HA7 " HA8	2.74	0.153	
7690	8 " HA7 " HA8	3.45	0.114	
7691	3.4 " HA8 " face	1.67	0.036	
7692	5. " face " HA8	1.8	0.012	
7693	6.5 " face " HA8	2.48	0.012	
7694	1 " face " HA8	1.5	0.022	

MUCK SAMPLES

Round No	Interval	Sample No	Au o/t	Ag o/t
1	Not sampled			
2				
3				
4	3.65 to 6.1 m *	8951	0.009	0.03
5	6.1 " 8.3 *	8952	0.017	0.03
6	8.3 " 10 *	8953	0.007	0.01
7	10 " 11.9 *	8954	0.04	0.01
8	11.8 " 14 *	8955	0.006	0.01
9	7.1 m from sta. HA 3	8956	0.007	
10	7.1 to 9 m to sta. HA 3	8957	0.013	
11	9 " 11 from sta. 3	8958	0.012	
12	11 " 12.75 " 3	8959	0.011	
13	12.75 " 14.6 " 3	8960	0.007	
Slash R14		8961	0.02	
Round 15	5.2 " 5.8 " 4	8962	0.006	
16	5.8 " 7.7 " 4	8963	0.001	
17	7.7 " 9.7 " 4	8964	0.001	
18	9.7 " 11.4 " 4	8965	0.016	
19	11.4 " 13.1 " 4	8966	0.022	
20	13.1 " 14.6 " 4	8967	0.121	
21	7.2 m from sta. 5	8968	0.067	
22	7.2 to 9.1 m from sta 5	8969	0.052	
23	9.1 " 10.9 " 5	8970	0.070	
24	10.9 " 12.9 " 5	8971	0.016	
25	12.9 " 14.7 " 5	8972	0.025	
26	14.7 " 16.5 " 5	8973	0.024	
27	16.5 " 18.3 " 5	8974	0.048	
28	18.3 " 20.0 " 5	8975	0.033	
29	5.2 m from sta. 6	8976	0.018	
30	5.2 to 6.8 m from sta. 6	8977	0.006	
31	6.8 " 8.3 " 6	8978	0.006	
32	8.3 " 10.2 " 6	8979	0.011	
33	10.2 " 12.2 " 6	8980	0.464	
34	12.2 " 13.7 " 6	8981	1.414	
35	5.7 m from sta 7	8982	0.432	
36	5.7 to 7.2 m from sta. 7	8984	0.110	
37	7.2 " 8.6 " 7	8985	0.018	
Slash 38	No recorded distance	8986	2.091	
Slash/Round 39	3 m from sta " 8	8987	0.101	
Round 40	3 to 4.1 m from sta. 8	8988	0.012	
41	4.1 " 5.8 " 8	8989	0.010	
42	5.8 " 7.3 " 8	8990	0.006	
Slash 43	7.18 m from sta. 8	8991	0.031	
Round 44	7.3 to 9.2 m from sta. 8	8992	0.030	

* Interval measured from sta HA 2

** Interval measured from sta HA 3


HEINO-MONEY
ADIT
DDH. 82-2
(0.63 o/t Gold / 0.5 feet)
DDH 82-16
(1.2 o/t Gold / 6.4 feet)
Ave. Grade Rounds
33, 34, 35, 36, 38
0,95 o/t Gold
(includes 400z sa
but supported
by muck sampling)
HA 2
HA 3
HA 4
HA 5
HA 6
HA 7
HA 8
.026
1.7
0.11
0.10
0.58
40.1
.847
0.226
0.133
7680
7681
7682
7685
7684
7683
7686
7687
7688
7689
7690
7691
7692
7693
7694
inches
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
1:200

LEGEND

HEINO-MONEY ZONE

TONNAGE AND GRADE CALCULATION

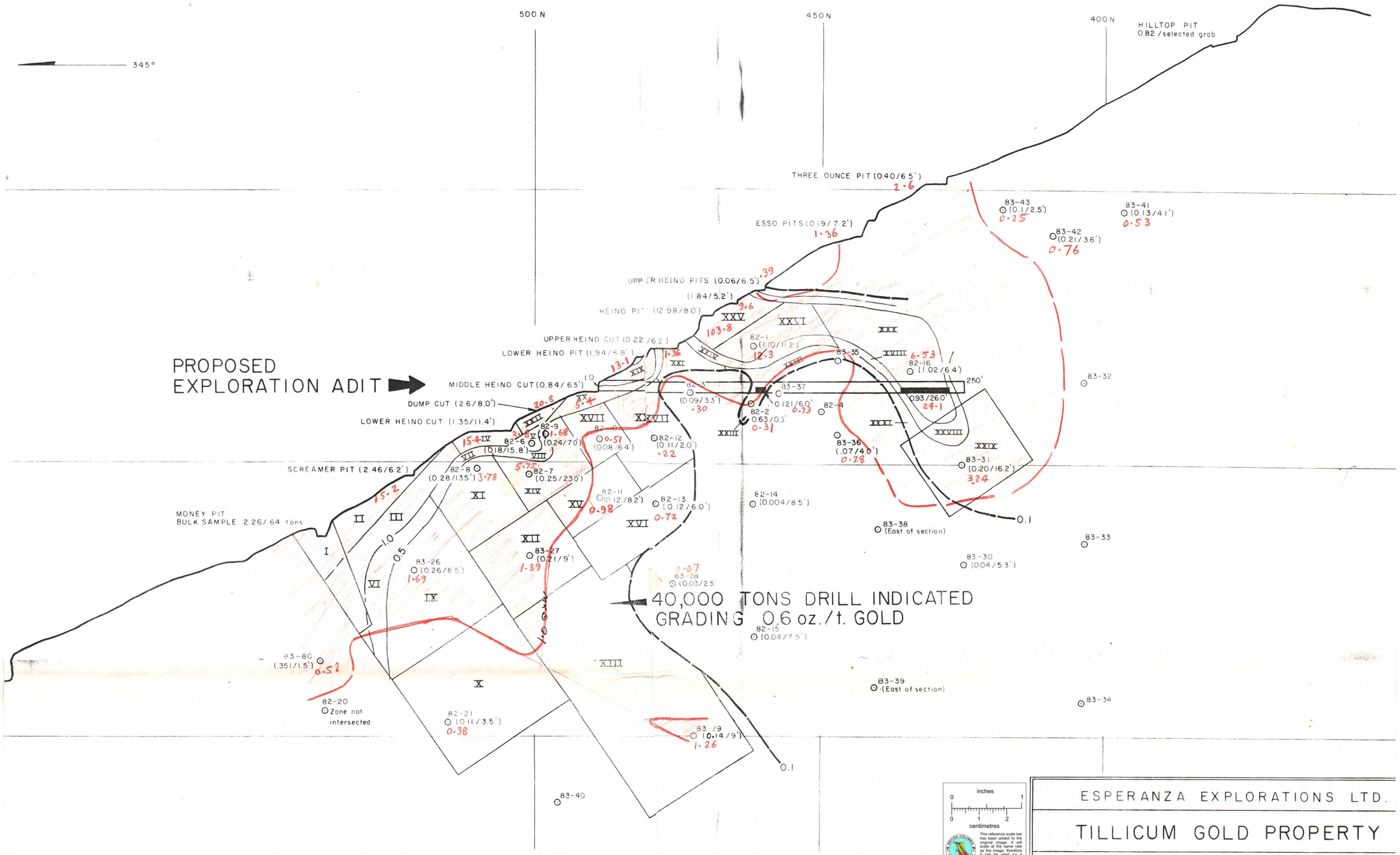
THICKNESS AND ISOPACH METHOD

BLOCK	DIMENSIONS (Feet)	TONNAGE (tons)	GRADE (oz/t Au)	CONTAINED GOLD (oz)
I (Money Shoot)	40 x 16 x 70	3733	2.00	7466
II	100 x 16 x 6	800	2.00	1600
III	110 x 15 x 6	825	1.00	825
IV	3927*	327	1.35	441
V	15 x 10 x 15	187	1.18	221
VI	100 x 10 x 6	500	0.5	250
VII	45 x 6 x 10	225	0.5	113
VIII	60 x 6 x 10	300	0.5	150
IX	80 x 40 x 6.5	1733	0.26	
X	80 x 70 x 3.5	1633	0.11	180
XI	43 x 40 x 13.5	1935	0.28	542
XII	57 x 48 x 9	2052	0.21	431
XIII	145 x 77 x 9	8374	0.14	1172
XIV	45 x 27 x 23	2329	0.25	582
XV	48 x 27 x 8.2	886	0.12	107
XVI	75 x 31 x 6.0	1163	0.12	140
XVII	5649*	470	0.08	38
XVIII	732*	61	0.5	30
XIX	20 x 10 x 6	100	1.94	194
XX	2842*	237	0.84	199
XXI	2325*	194	0.22	43
XXII	1206*	100	2.0	200
XXIII	4844*	404	0.121	49
XXIV	4224*	352	0.5	176
XXV	5040*	420	2.0	840
XXVI	12540*	1045	1.1	1149
XXVII	3528*	294	0.11	32
XXVIII	5580*	465	0.5	232
XXIX	36852*	3071	0.2	614
XXX	20988*	1749	0.93	1627
XXXI	2460*	205	0.1	20
		36,169		20,113

* Volume in cubic feet

To accompany Plate 9

TILLICUM PEA



LEGEND:

82-21 (0.11/3.5') ⊙ DIAMOND DRILL HOLE NUMBER
(GOLD oz./t / WIDTH IN FEET)

SCALE

10 0 10 20 30 40 metres

50 0 50 100 feet

REV. NOV. 1984

inches 0 1

0 1 2 centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

ESPERANZA EXPLORATIONS LTD.

TILLICUM GOLD PROPERTY

HEINO - MONEY ZONE

VERTICAL LONGITUDINAL SECTION

RESERVE CALCULATION
THICKNESS & ISOPACH METHO

NTS: 82 F/13	SCALE: 1:500	PLATE: 9
DATE: APR., 1984	DRAWN: W.R./r.w.r.	

TABLE II

Summary Assay Results - East Ridge Zone

Hole No.	Footage From	Footage To	Width Feet	Width Metres	Gold Oz/ton
TS83-51	36.5	68	31.5 ▲	9.6	→ 0.080 ✓ S
includes	44.5	51	6.5	2.0	0.100 S
includes	56	68	1.2	0.4	0.19
TS83-53	30.2	47.5	17.3	5.3	→ 0.040 ✓ N
TS83-55	17.5	22.3	4.8	1.5	→ 0.095 ✓ S
TS83-57	21.8	47.7	16.9	5.2	→ 0.040 ✓ N
TS83-61	25.5	74	49.5 ▲	15.1	→ 0.057 ✓
includes	50	74	24 ▲	7.3	0.10
includes	50	59	9	2.7	0.260 S ¢
TS83-65	71	88.1	17.1	5.2	→ 0.070 ✓
TS83-67	81	97.5	16.5	5.0	→ 0.033 ✓
includes	82.5	94	11.5	3.5 2 zones	0.042
	118.5	160	41.5 ▲	12.7	→ 0.029
TS83-69	137.5	183	45.5 ▲	13.9	→ 0.031 ✓
includes	159	175	16	4.9	0.045
includes	155	175	20	6.1	0.039
TS83-71	85	156	80 *	24.4	→ 0.083 ✓ N ¢
includes	134.2	165	30.8 ▲	9.4	0.14
includes	152	156	4.0	1.2	1.0
TS83-73	108	183	75 *	22.9	→ 0.041 ✓ N ¢
TS83-75	76	118	42 ▲	12.8	→ 0.044
TS83-77	34	50.5	16.5	5.03	0.019
	72	82	10	3.0	→ 0.026 ✓ S
includes	80	82	2	0.6	0.086
TS83-79	37.6	163	125.4	38.2	→ 0.010
TS93-81	112	120	8	2.4	→ 0.030 ✓
TS83-83	101.2	107.2	6	1.8	→ 0.06 ✓ ¢ S
TS83-58	204.8	243.5	38.7 ▲	11.8	→ 0.11 ✓
S82-17	130	180	50 *	15.2	→ 0.036 ✓
S82-18	93	148	55 *	16.8	→ 0.055 ✓
S82-19	51	69	18	5.5	→ 0.070 ✓ ¢
S82-24	25.8	63	37.2 ▲	11.3	→ 0.039 ✓
S82-25	88	115	33 ▲	10.1	→ 0.030 ✓
TS84-86	78	98	20 ▲	6.1	→ 0.030 ✓
	134.5	166.5	32 ▲	9.8 3 zones	→ 0.038 ✓
	203	286	85 *	26.0	→ 0.034 ✓
includes	203	233	30 ▲	9.1	0.066
TS84-87	122.5	175	52.5 *	16.0	→ 0.048 ✓
TS84-88	100.5	140	39.5	12.0	→ 0.024
TS84-89	13.5	49.5	36 ▲	11.0 2 zones.	→ 0.025
	196	205	9	2.7	→ 0.06 ✓

~~≥ .05~~

≥ .03 < .05

≥ .05

≥ 25' < 50' ▲

≥ 50' *

→ principal intxn for a ddh.

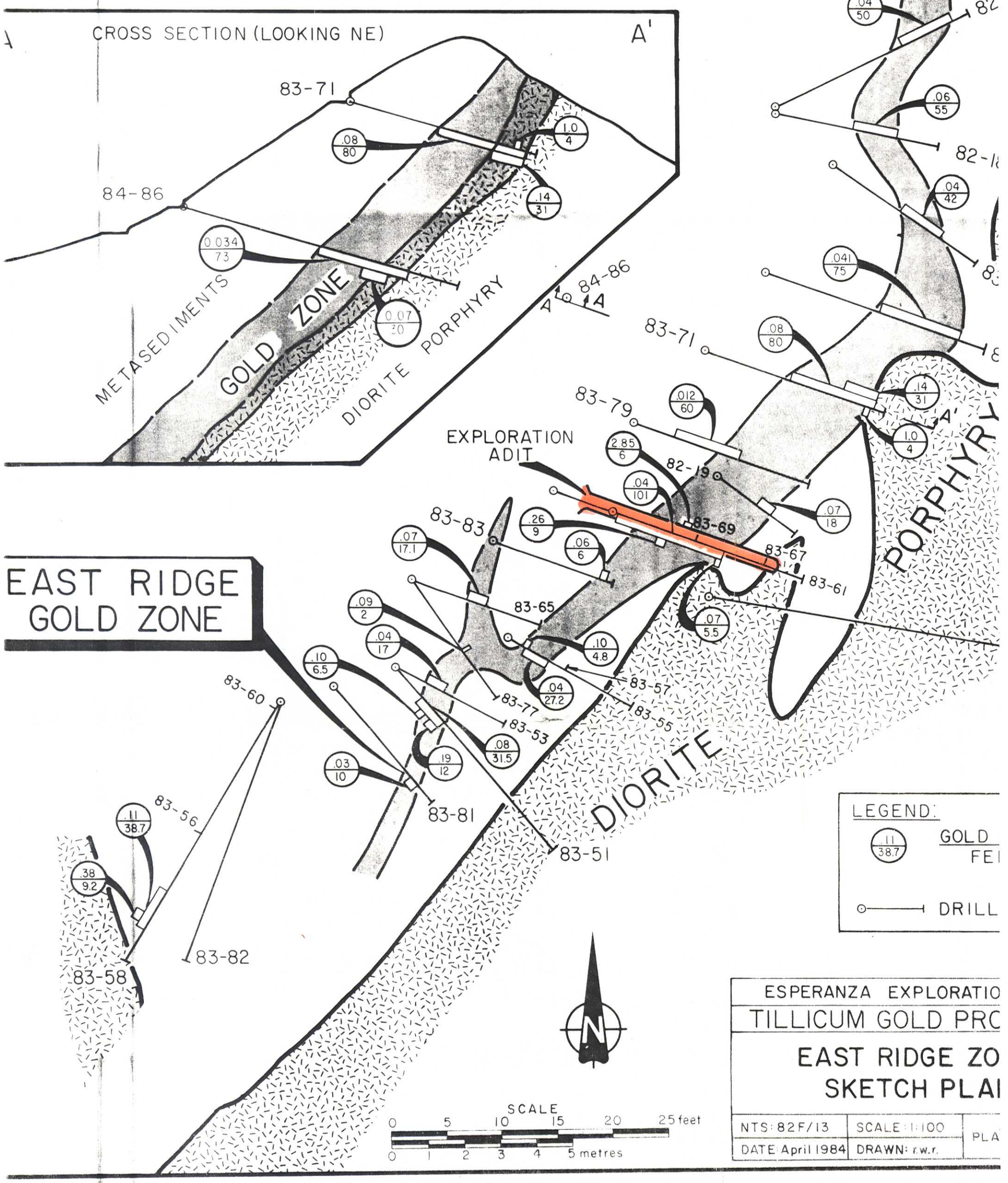
✓ 11 principal intxns ≥ .05 avg = .07 Au / 33'

✓ 13 " " ≥ .03 < .05 avg = .035 / 34.3'

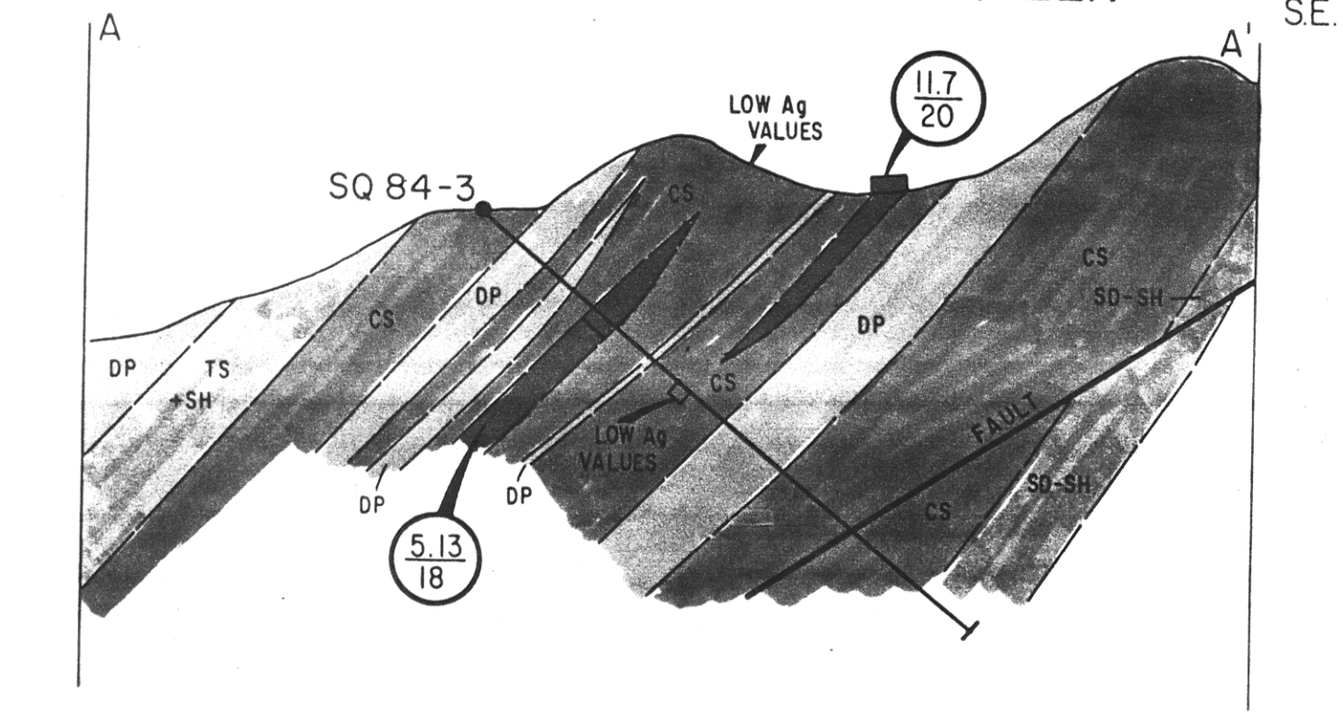
24

.05 / 33½'

EAST RIDGE ZONE
TILLICUM GOLD PROPERTY



CROSS SECTION – SILVER QUEEN



DP	DIORITE PORPHYRY
TS	TUFFACEOUS SILTSTONE
SH	SHALE
SD	SANDSTONE
CS	CALCAREOUS SEDIMENTS
	SILVER ZONE

0 20
METRES

Figure 8