

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 105 G/1

**1998 ASSESSMENT REPORT
ON THE
IC PROPERTY**



GEOLOGICAL MAPPING AND SOIL GEOCHEMISTRY

WATSON LAKE M.D., YUKON

SIMPSON RANGE AREA, PELLY MOUNTAINS

WORK PERIOD

JUNE 18 - 22, 1998

LATITUDE: 61°01'

LONGITUDE: 130°08'

JANUARY, 1999

DARREN A. SENFT

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 \$ 2800.00.

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

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1998 ASSESSMENT REPORT IC PROPERTY, YUKON TERRITORY

1.0 SUMMARY

The IC property comprises 28 units, located 12 kms southwest of Whitefish Lake, 55 kms southeast of Cominco's ABM VHMS Deposit and approximately 130 kms northwest of Watson Lake.

The IC claims were staked in 1997, following the results of a stream sediment anomaly and discovery of a pyrite showing.

The rocks underlying this part of southeastern Yukon have been assigned to the Yukon-Tanana Terrane (YTT) and the Slide Mountain Terrane (SMT). Recent geological mapping by Murphy (1997, 1998), Hunt and Murphy (1998) and Murphy and Piercey (1998) in the Grass Lakes, Fire Lake and Wolverine Lake areas has subdivided the YTT into 7 units. Units 1-4 exist regionally in the Pelly Mountains area, and comprise differentiated sequences of quartzite, pelitic schist, carbonaceous phyllite and schist, with interbanded mafic and felsic metavolcanics. Felsic volcanics of Unit 3 are host to Cominco's ABM VHMS Deposit. These lower units, Devonian to Lower Mississippian in age, are intruded by two to three Lower Mississippian, mafic to felsic meta-plutonic suites.

Units 5-7 have only been described in the Wolverine Lake area, and comprise intervals of mixed meta-sediments with felsic meta-volcanics, exhalite associated with barite-magnetite Fe-formation, and upper mafic meta-volcanics. Boliden/Atna's Wolverine/Lynx VMS Deposit is positioned at the base of Unit 6. These upper units are thought to be Mississippian to Pennsylvanian in age.

The IC property is underlain by Devonian to Lower Mississippian rocks from Units 1 and 2 of the YTT, comprising sequences of mixed metasediments (siltstone, wacke), mafic meta-volcanics and minor intervals of felsic meta-volcanics. Serpentinized ultramafic plutons of Murphy's Unit 2 (SMT ?) also occur on the northern extent of the property.

Work completed on the IC property in 1998 consisted of two person days of geological mapping and three person days of contour and grid soil sampling. The geochemical sampling outlined a 300x1000m area anomalous in Cu, Pb and Zn. Mapping/prospecting enhanced several areas with promising geology, including the IC creek showing. This showing occurs in cherty felsics, and contains rusty banded massive pyrite with trace sphalerite and galena.

Additional geological mapping/prospecting, grid soil geochemistry and ground geophysics (HLEM/Mag) is recommended for the IC property in the area of the showing.

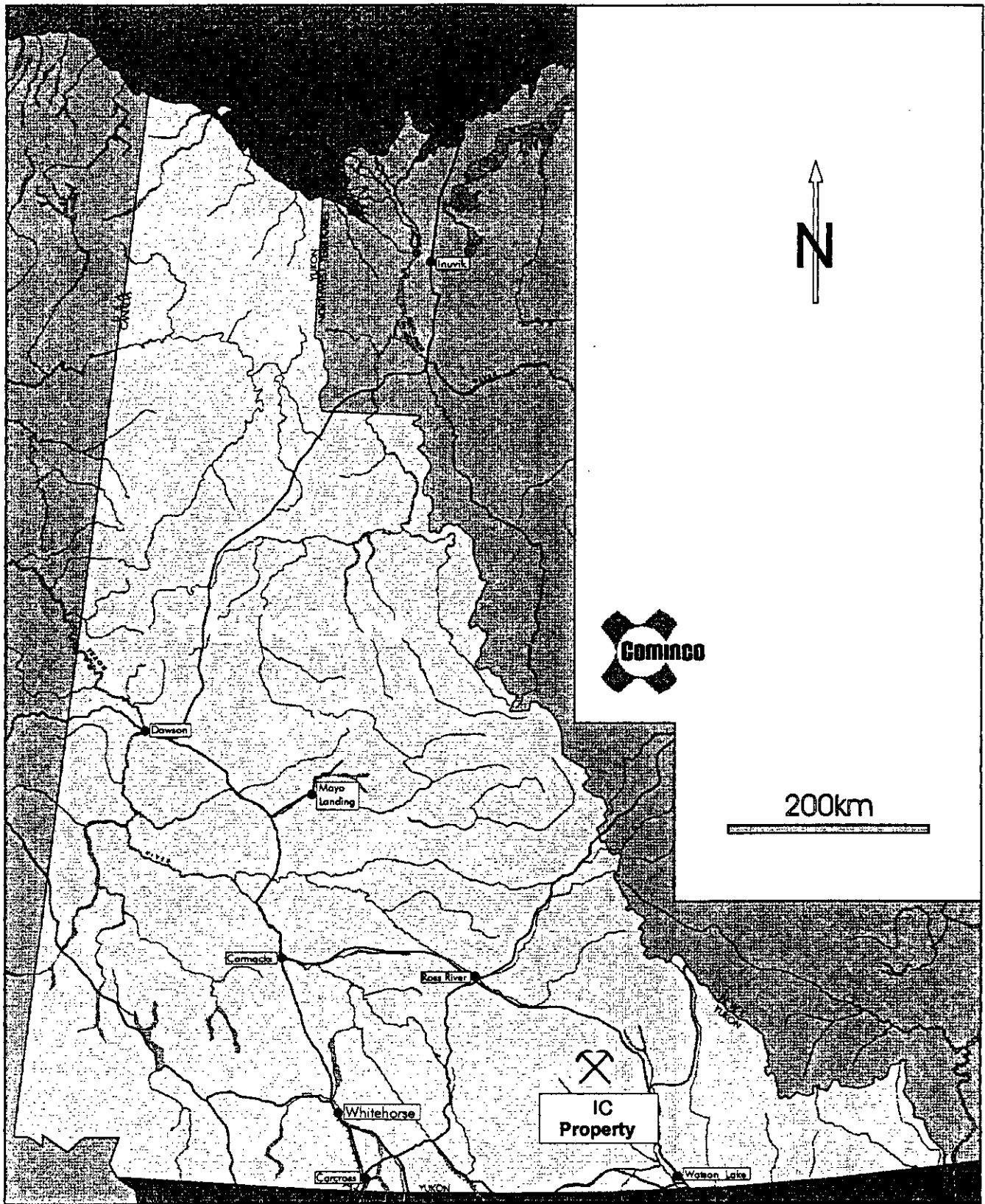
2.0 LOCATION & ACCESS

The IC Property is located about 55 kms southeast of Cominco's ABM VHMS Deposit and approximately 130 kms northwest of Watson Lake (Figure 1). The gravel, all-weather Robert Campbell Highway provides access to within 40 kms of the property. Direct access is by helicopter.

3.0 PROPERTY & OWNERSHIP

The IC property, comprising 28 units, is 100% owned by Cominco Ltd. (Figure 2).

<u>NAME</u>	<u>UNITS</u>	<u>CLAIM NO.</u>	<u>DUE DATES</u>
IC 1-28	28	YB89707-734	August 22/1999



IC
PROPERTY LOCATION

105 G/1, A/13

Scale: As Shown

Date: November 1998

Plate: 1

4.0 PREVIOUS WORK

Prior to Cominco involvement, there is no recorded work or showings in the immediate area of the IC property. Previous Cominco work in the area includes mapping/prospecting and recce soil geochemistry on the adjacent WAT and BL properties in 1996. The IC property was staked in 1997 to cover a newly discovered pyrite showing on a drainage which returned a silt sample strongly anomalous in Pb, Zn and Ag. Additional work by Cominco personnel in 1997 included mapping and geochemical sampling on the property, as well as a single line of HLEM down the creek over the showing.

5.0 REGIONAL GEOLOGY

The rocks underlying this part of the southeastern Yukon have been assigned to two terranes: the Yukon Tanana Terrane (YTT) and the Slide Mountain Terrane (SMT) (Mortensen, 1983a; Mortensen and Jilson, 1985).

Recent geological mapping by Murphy (1997, 1998), Hunt and Murphy (1998) and Murphy and Piercey (1998) in the Grass Lakes, Fire Lake and Wolverine Lake areas has subdivided the YTT into 7 units.

The lower most unit (**Unit 1**) comprises a mixed sequence dominated by quartzose psammite and metapelite with minor felsic metavolcanic schist, calcareous schist/metapelite and marble members. Felsic metavolcanic members locally host minor sulphide (py±sp-ga-cpy) occurrences. The age of this unit is uncertain, but presumed to be pre-Mississippian. This unit would correlate with the pre-Devonian (?) "*lower unit*" as described by Mortensen (1983a).

The overlying 6 units, described below, would correlate to the Devonian-Mississippian "*middle unit*" as described by Mortensen (1983a).

Unit 2 consists of mafic metavolcanic schist and phyllites with very minor carbonaceous phyllite, quartzite and rare marble. Locally significant meta-gabbro, meta-pyroxenite and meta-ultramafic bodies are present representing comagmatic intrusions. Columbia Gold's Fyre Lake Deposit is a significant base-type, Cu-Co-Au VMS deposit hosted by mafic metavolcanics at the top of Unit 2.

Unit 3 comprises a mixed sequence of felsic metavolcanic schist (meta-tuff) and feldspar±quartz augened schist (meta-porphyry) with lesser calcareous psammite, mafic metavolcanic schists and black, carbonaceous phyllite. The thickest accumulation of felsic metavolcanics occurs in the area of Cominco's ABM Deposit. Mortensen (1983a) reports Lower Mississippian U-Pb ages from these metavolcanics.

Unit 4 consists of grey to black, carbonaceous phyllite and mafic metavolcanic phyllite/schist with minor psammite and quartzite which forms a very thick sequence extending north of the ABM Deposit.

Units 1-4 are intruded by two to three Lower Mississippian, mafic to felsic meta-plutonic suites (Simpson Range Suite and granitic to monzonitic, augen orthogneisses).

Murphy and Piercey (1998) suggests that Units 1-4, and the intrusive suites mentioned above, have undergone a Lower to Middle Mississippian (?) deformation event which resulted in uplift and erosion to produce an unconformity, separating this sequence from the overlying Units 5-7. This controversial suggestion is based on the interpretation of a coarse feldspathic sandstone (containing eroded detrital feldspars) in Unit 5 and the belief that Units 1-4 have undergone 2 phases of deformation while Units 5-7 have been deformed by only 1 phase of deformation.

Murphy and Piercey (1998) have described Units 5-7 only in the Wolverine Lake area.

Unit 5 comprises a mixed package of carbonaceous phyllite, with coarse feldspathic sandstone and grits forming lower members, and felsic metavolcanic, locally porphyritic, phyllite (meta-tuff) intruded by locally significant felsic quartz-feldspar meta-porphyry.

Unit 6 consists of thinly bedded, pale coloured siliceous rocks (exhalite) with associated barite-magnetite Fe-formations and light coloured phyllite grading up section into pale siliceous rocks with intercalated dark grey to black phyllite. Boliden/Atna's Wolverine/Lynx VMS Deposit is positioned at the base of Unit 6.

The overlying **Unit 7** comprises carbonaceous phyllite/argillite, sandstone with minor mafic metavolcanic flows and locally developed diamictites containing both mafic and felsic fragments.

Units 5-7 are thought to be Mississippian to Pennsylvanian in age (Murphy, 1998).

Unit 7 is thought to pass conformably into a thick sequence of mafic breccias and pillowed and massive mafic flows with minor intrusive gabbro/diabase and maroon chert and argillite. This sequence is thought to be Pennsylvanian to Permian in age (Murphy and Piercey, 1998) and is equivalent to the Campbell Range Belt. Others (Plint, 1994; Mortensen and Jilson, 1985; Mortensen, 1983a) have described the Campbell Range Belt as the allochthonous SMT. The significant question of whether allochthonous SMT exists in this area, or not, requires further work. Mafic volcanics of the Campbell Range Belt are host to a significant mafic-type (Cyprus-type) VMS deposit on Expatriate's ICE property and to mineralization at the Julia showing on Atna Resources' MONEY property.

The YTT stratigraphic sequence appears to reflect stable, continental platform/shelf sedimentation with intervening periods of rifting/extension and mafic to felsic arc volcanism developed within more reduced basinal settings.

A sub-horizontal to moderately steep north to northeast dipping, penetrative ductile deformation fabric and locally preserved isoclinal folding with associated middle greenschist facies (chlorite-biotite grade) metamorphism affects all YTT rocks, but is particularly well developed in Units 1-4 and less prominent moving up section into Unit 7. These fabrics and metamorphism may reflect 2 phases of deformation; an early Mississippian event and a event related to a continent-arc collision during the Late Permian to early Triassic time.

As mentioned above, others have described the Campbell Range Belt as belonging to the allochthonous, Devonian to Permian aged, SMT and is described as a heterogeneous package of mafic to ultramafic plutonic rocks, mafic volcanics, massive carbonates and cherts. The SMT is thought to represent a disrupted oceanic and volcanic arc assemblage once located between the YTT and the North American craton (Mortensen, 1983a; Mortensen and Jilson, 1985).

Late Triassic (?) immature clastics, comprising micaceous argillites, siltstones and sandstones, unconformably (?) overlie the deformed and metamorphosed YTT rocks. These sediments are often closely associated with "SMT" mafic metavolcanics and are invariably in fault contact with YTT rocks.

The YTT, "SMT", late Triassic sediments, and late Triassic to Middle Jurassic plutons are all affected by a period of Middle Jurassic to late Cretaceous thrust faulting and felsic plutonism, during which the Finlayson Lake Fault Zone was formed. This complex fault zone contains both thrust and steep, transcurrent (?) faults and separates the YTT from autochthonous North America (Mortensen, 1983a; Mortensen and Jilson, 1985). Thrust faulting continued after the formation of the Finlayson Lake Fault Zone as indicated by the presence of over thrust sheets of SMT rocks (Campbell Range Belt) above the fault zone (Plint, 1994). Murphy and Piercey (1998) suggest that the Finlayson lake Fault Zone, as described, does not exist. Further mapping, geochemistry and geochronology studies are obviously required.

6.0 FIELD WORK - IC PROPERTY

Regional scale mapping and contour soil geochemistry was completed by recce traverses on the IC property. A flagged soil grid was also established in the area of the IC showing. The following table summarizes 1998 field work.

GEOLOGY	GEOCHEMISTRY
June 20, 21; PAM, RKM	June 20-22; 132 soils

6.1 GEOLOGY & MINERALIZATION

Detailed geological mapping was carried out in an area where a stratiform pyrite showing, hosted within very siliceous felsic exhalite and argillite, had been discovered in a creek. The pyrite occurrences were discovered in 1997 during follow-up of a strong, multi-element stream sediment anomaly. Mapping on the IC property in 1998 has identified a northeast dipping, homoclinal sequence, which is divisible into 4 main units (Figure 3).

The uppermost unit comprises a thick sequence (>300 metres) of dark green, fine-grained chloritic and phyllitic mafic meta-volcanic tuffs and flows exposed on both ridges in the map area and extending to the northwest onto the WAT Property. Minor, southeast verging F3 folds (fold axis plunge 50° to 061°) were identified in an outcrop on the southern ridge, where the fine interbedded character of the mafic tuffs is quite evident. More massive, fine-grained chloritic intervals are interpreted as flows; no pillow structures were found. Ultramafic sills appear to overlie or intrude into the upper part of the mafic meta-volcanic sequence. This unit is correlated to Unit 2m of Murphy (1998) and likely correlates with a similar unit mapped on the WAT Property.

The mafic rocks are underlain by a 50 to 100 metre section of grey weathered, thin to medium banded (locally shear laminated) meta-wackes, comprised of quartz-biotite-feldspar-muscovite schists.

Underlying the meta-wackes are 50 to 100 metres of brown to tan weathering cherty aphanitic felsic volcanics, host to the IC showing, which contains rusty banded massive pyrite with trace sphalerite and galena. Pyrite bands range from <1cm to 15cm and can comprise up to 50% of the rock over 1-2m intervals. Grab samples from the showing returned 0.8% Pb and 0.2% Zn. This mineralized interval outcrops in the main creek, as well as on the ridge to the south, though the sulphide bands are totally leached out here.

This felsic interval is underlain by a thick sequence (>300 metres) of thin to thick banded/bedded, meta-quartzites and biotitic meta-wackes and siltstones. This sequence of meta-sediments correlates with Unit 1qsu of Murphy (1998).

6.2 GEOCHEMISTRY

A total of 132 soil samples were collected from the IC property in 1998 (Figure 4). Samples were collected at 50 metre spaced stations along flagged grid lines in the immediate showing area and at 100 metre spaced stations along 2 contour soil lines in areas on strike with the favorable geology. This sampling was designed as follow-up of two 1997 contour soil lines which returned strong Pb (802 ppm)-Ag (3.7 ppm)-Ba (14,020 ppm) anomalies up-slope of the creek showings.


The 1998 sampling defined a significant Pb-Zn-Ag anomalous zone, 300 metres wide over a 1 km strike length. Geochemical values range up to 825 ppm Pb, 571 ppm Zn and 5.9 ppm Ag. Significant Cu values up to 393 ppm also occur locally.

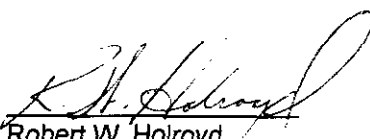
7.0 CONCLUSIONS & RECOMMENDATIONS


The IC property is underlain by Devonian to lower Mississippian rocks from Murphy's units 1 and 2 of the Yukon Tanana Terrane, comprising sequences of mixed metasediments (siltstone, wacke) and intervals of felsic and mafic metavolcanics. Serpentinized ultramafic plutons of Unit 2 (SMT ?) also occur on the northern extent of the property.

Work completed on the IC property in 1998 consisted of two person days of geological mapping and three person days of contour and grid soil sampling. The geochemical sampling outlined a 300x1000m area anomalous in Cu, Pb and Zn. Mapping/prospecting enhanced several areas with promising geology, including the IC creek showing. This showing comprises rusty banded massive pyrite with trace sphalerite and galena within cherty felsics.

Additional geological mapping/prospecting, grid soil geochemistry and ground geophysics (HLEM/Mag) is recommended for the IC property in the area of the showing.

Report by: 
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Release by: 
W. J. Wolfe
General Manager,
Canadian Exploration

DAS/

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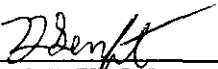
APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Darren A. Senft, of #4-2415 W. 4th Ave., Vancouver, B.C. hereby declare that I:

1. Graduated from The University of British Columbia, Vancouver, B.C. with a B.Sc. in Geology in May, 1994.
2. Have been actively engaged in mineral exploration in Western Canada as a geological assistant with Cominco Ltd. during the summers of 1992-93, as a contract geologist with Cominco Ltd. from May, 1994 to May, 1997, and as a full-time geologist since April, 1997.

Date: December, 1998



D.A. SENFT, B.Sc.
GEOLOGIST I

APPENDIX II
1998 GEOCHEMISTRY DATA

Sample #	Property	Cu	Pb	Zn	Ag	As	Baicp	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	Au	WtAu	Baxrf	P
363092	IC	33	100	174	1.4	14	257	0.5	10	19	4.38	7	27	17	2	56	2	2	8	36	72	676	0.75	0.08	2.17	0.12	0.02	0.34	-1	-1	-1	777
363093	IC	16	825	36	2.1	13	228	0.5	2	6	3.17	7	7	6	2	19	1	1	3	2	5	138	0.13	0.01	0.56	0.02	0.02	0.2	-1	-1	-1	578
363094	IC	114	15	263	1.4	4	771	0.5	15	63	4.18	1	112	12	2	113	1	3	11	27	33	2646	1.09	0.07	2.15	0.35	0.02	0.54	-1	-1	-1	978
363095	IC	55	17	77	1.2	5	120	0.5	7	34	3.45	2	24	8	2	59	1	1	1	4	4	382	0.09	0.03	0.71	0.01	0.04	0.06	-1	-1	-1	347
363096	IC	12	28	23	0.8	4	38	0.5	1	4	0.86	1	2	6	2	9	1	1	2	1	2	46	0.02	0.01	0.54	0.04	0.05	0.04	-1	-1	-1	356
363097	IC	12	34	49	2.1	10	38	0.5	3	9	2.36	1	10	5	2	20	1	1	2	4	6	149	0.25	0.02	1.01	0.01	0.01	0.13	-1	-1	-1	402
363098	IC	10	56	28	4.3	8	28	0.5	2	4	2.62	3	16	5	2	25	1	1	1	2	4	70	0.11	0.01	1.23	0.01	0.01	0.05	-1	-1	-1	285
363099	IC	11	64	22	0.2	11	26	0.5	2	7	1.39	3	9	2	2	37	1	1	1	1	3	52	0.01	0.03	0.26	0.01	0.01	0.01	-1	-1	-1	171
363100	IC	5	28	13	0.9	4	20	0.5	1	5	1	2	10	6	2	17	1	1	1	1	3	62	0.01	0.01	0.31	0.01	0.02	0.02	-1	-1	-1	170
363101	IC	6	14	12	0.5	1	26	0.5	1	2	0.55	1	5	2	2	8	1	1	2	1	2	54	0.03	0.01	0.35	0.01	0.05	0.05	-1	-1	-1	203
363102	IC	18	42	47	1	6	29	0.5	3	13	1.37	2	5	5	2	27	1	1	1	1	3	67	0.01	0.01	0.2	0.01	0.01	0.02	-1	-1	-1	248
363103	IC	5	39	17	1.4	4	26	0.5	1	4	0.44	2	2	2	2	7	1	1	2	1	5	24	0.01	0.01	0.18	0.01	0.02	0.01	-1	-1	-1	130
363104	IC	6	83	15	0.5	16	26	0.5	1	3	1.9	2	6	2	2	28	1	1	1	1	2	29	0.03	0.01	0.38	0.01	0.01	0.02	-1	-1	-1	247
363105	IC	7	12	24	1	1	39	0.5	1	2	0.45	1	2	2	2	5	1	1	1	1	1	308	0.01	0.01	0.18	0.01	0.05	0.02	-1	-1	-1	195
363106	IC	3	2	4	0.2	1	30	0.5	1	1	0.18	1	2	2	2	3	1	1	2	1	1	61	0.01	0.01	0.27	0.02	0.06	0.01	-1	-1	-1	195
363107	IC	38	12	68	0.2	4	104	0.5	5	25	2.54	1	30	2	2	53	1	1	2	3	3	328	0.31	0.03	0.92	0.01	0.02	0.1	-1	-1	-1	462
363108	IC	34	2	21	0.2	1	31	0.5	7	15	1.76	1	61	2	2	47	1	1	13	1	1	114	0.51	0.04	1.17	0.21	0.05	0.02	-1	-1	-1	332
363109	IC	148	2	38	0.2	1	128	0.5	21	59	2.39	1	117	2	2	49	1	1	14	3	2	495	1.34	0.09	2.16	0.53	0.06	0.15	-1	-1	-1	494
363110	IC	152	2	63	0.2	1	458	0.5	33	116	3.56	1	210	2	2	85	1	1	19	2	2	443	2.16	0.14	3.13	0.63	0.07	0.52	-1	-1	-1	662
363112	IC	47	11	62	0.2	1	520	0.5	10	40	3.29	1	60	2	2	142	1	1	13	2	4	520	0.9	0.22	1.96	0.11	0.05	0.44	-1	-1	-1	374
363113	IC	28	16	59	0.2	1	161	0.5	4	20	1.98	1	17	2	2	73	1	1	4	3	3	283	0.17	0.07	0.52	0.04	0.02	0.13	-1	-1	-1	122
363114	IC	15	535	63	1.4	21	422	0.5	2	5	6.82	5	7	16	2	66	1	1	6	1	2	38	0.01	0.05	0.41	0.01	0.04	0.18	-1	-1	-1	1127
363115	IC	20	29	40	0.7	2	108	0.5	4	16	1.98	1	22	2	2	57	1	1	9	1	4	260	0.18	0.1	0.76	0.02	0.02	0.09	-1	-1	-1	470
363116	IC	124	4	63	0.6	4	369	0.5	26	78	3.46	1	97	19	2	82	1	2	22	5	6	895	1.11	0.12	2.67	0.39	0.04	0.52	-1	-1	-1	826
363117	IC	87	2	33	0.2	2	69	0.5	19	71	2.26	1	104	6	2	38	1	1	9	3	3	295	0.89	0.05	2.73	0.24	0.03	0.14	-1	-1	-1	750
363118	IC	28	8	56	0.2	1	124	0.5	7	26	1.91	2	41	2	2	45	1	1	6	5	8	278	0.42	0.05	1.04	0.04	0.02	0.06	-1	-1	-1	216
363119	IC	46	10	89	0.2	1	318	0.5	10	37	2.99	1	58	2	2	90	1	1	14	5	9	483	0.93	0.12	2.06	0.14	0.05	0.14	-1	-1	-1	363
363120	IC	58	10	84	0.2	1	552	0.5	12	38	3.22	1	52	2	2	90	1	1	37	2	4	647	0.89	0.09	1.63	0.17	0.05	0.3	-1	-1	-1	440
363221	IC	104	2	50	1.2	1	138	0.5	10	33	2.76	1	62	8	2	74	1	1	16	3	6	175	0.8	0.1	1.85	0.2	0.04	0.2	-1	-1	-1	341
363222	IC	93	5	61	0.8	1	134	0.5	10	31	2.98	1	48	7	2	76	1	1	9	2	5	172	0.77	0.08	1.59	0.11	0.04	0.21	-1	-1	-1	441
363223	IC	57	5	54	1	1	116	0.5	9	25	2.42	1	38	6	2	58	1	2	8	3	7	141	0.59	0.06	1.63	0.13	0.03	0.15	-1	-1	-1	369
363224	IC	253	2	77	1.4	1	117	0.5	15	29	4.42	1	48	11	2	79	1	3	16	3	4	161	1.09	0.03	2.04	0.08	0.07	0.08	-1	-1	-1	793
363225	IC	75	2	51	0.9	1	94	0.5	13	36	3.09	1	65	9	2	80	1	2	4	4	6	380	0.93	0.1	1.81	0.26	0.04	0.18	-1	-1	-1	475
363226	IC	39	2	42	0.8	1	43	0.5	15	24	2.23	1	66	9	2	56	1	1	4	3	2	507	0.82	0.15	1.56	0.28	0.04	0.08	-1	-1	-1	361
363227	IC	393	2	173	1.4	1	203	0.5	36	70	2.97	1	47	6	2	50	1	2	7	4	5	244	0.65	0.04	1.99	0.11	0.03	0.09	-1	-1	-1	665
363228	IC	43	2	33	1.4	1	77	0.5	9	32	1.7	1	73	2	2	42	1	1	5	2	3	150	0.6	0.07	1.18	0.17	0.03	0.09	-1	-1	-1	366
363229	IC	57	2	28	1.1	1	56	0.5	12	65	1.9	1	119	2	2	40	1	1	7	3	4	152	0.89	0.1	1.73	0.24	0.05	0.07	-1	-1	-1	325
363230	IC	90	2	36	1.4	1	60	0.5	16	80	2.42	1	132	11	2	50	1	1	9	4	5	208	1.14	0.12	2.37	0.36	0.05	0.12	-1	-1	-1	595
363231	IC	125	2	25	1.6	1	63	0.5	13	55	1.7	1	106	2	2	40	1	2	7	3	3	167	0.85	0.09	1.96	0.3	0.04	0.09	-1	-1	-1	737
363232	IC	34	70	104	0.8	1	136	0.5	11	28	5	1	42	14	2	97	3	2	6	6	7	479	0.94	0.25	2.45	0.09	0.02	0.31	-1	-1	-1	886
363233	IC	27	31	94	0.5	1	267	0.5	7	26	3.24	1	52	7	2	82	1	1	9	4	10	370	0.64	0.14	1.58	0.08	0.03	0.3	-1	-1	-1	703

Sample #	Property	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	Au	WtAu	Baxrf	P
363234	IC	20	31	72	1.5	3	132	0.5	2	8	1.29	1	5	2	2	18	1	2	5	2	7	59	0.05	0.01	0.33	0.01	0.05	0.09	-1	-1	-1	401
363235	IC	64	77	213	1.4	9	934	0.5	22	59	6.18	1	101	11	2	167	1	3	7	11	17	758	0.82	0.12	2.56	0.06	0.06	0.65	-1	-1	-1	977
363236	IC	166	18	200	1.3	15	810	0.5	23	89	5.6	2	86	17	2	99	1	2	39	14	17	2038	0.98	0.07	2.65	0.01	0.02	0.43	-1	-1	-1	417
363237	IC	22	45	79	1.3	13	106	0.5	5	15	3.36	1	20	8	2	46	1	2	5	5	10	436	0.26	0.05	0.99	0.02	0.02	0.13	-1	-1	-1	626
363238	IC	26	160	41	5.9	16	110	0.5	3	13	2.79	6	14	8	2	32	1	1	6	6	11	101	0.15	0.03	0.83	0.01	0.01	0.09	-1	-1	-1	357
363276	IC	42	2	29	2.3	1	50	0.5	8	33	1.44	1	52	5	2	28	1	2	5	2	4	192	0.52	0.06	1.28	0.15	0.07	0.08	-1	-1	-1	341
363277	IC	30	51	125	1.2	4	100	0.5	9	33	4.98	2	48	15	2	85	1	2	6	7	7	926	0.59	0.13	1.51	0.04	0.02	0.15	-1	-1	-1	442
363278	IC	69	13	85	1.1	4	619	0.5	13	53	4.41	1	99	7	2	183	1	2	22	5	8	651	1.17	0.25	2.22	0.14	0.06	0.57	-1	-1	-1	523
363279	IC	104	6	71	1	5	644	0.5	28	82	3.91	1	142	16	2	124	1	3	17	5	10	784	1.88	0.19	2.92	0.35	0.07	0.45	-1	-1	-1	451
363280	IC	142	2	68	0.8	3	772	0.5	34	125	4.01	1	192	19	2	114	1	3	24	6	10	794	2.32	0.17	3.22	0.73	0.05	0.72	-1	-1	-1	960
363281	IC	279	2	27	0.7	1	83	0.5	32	56	2.05	1	68	6	2	37	2	1	33	6	3	721	0.79	0.05	2.16	1.39	0.09	0.05	-1	-1	-1	763
363282	IC	66	6	46	1.1	1	58	0.5	13	36	2.83	1	72	7	2	64	1	3	6	3	4	228	0.95	0.13	2.01	0.16	0.04	0.06	-1	-1	-1	274
363283	IC	55	9	73	1.2	3	99	0.5	11	36	2.75	1	48	5	2	50	1	1	6	5	7	421	0.56	0.06	1.98	0.13	0.02	0.08	-1	-1	-1	699
363284	IC	43	14	73	1.2	3	106	0.5	8	32	2.64	1	43	5	2	51	1	2	3	4	5	300	0.48	0.06	1.49	0.05	0.02	0.08	-1	-1	-1	519
363285	IC	23	41	56	2.3	4	104	0.5	4	14	2.32	1	18	2	2	49	1	2	3	4	7	181	0.22	0.07	0.82	0.02	0.02	0.09	-1	-1	-1	375
363286	IC	38	37	89	3.8	5	95	0.5	10	32	4.14	1	49	9	2	61	1	2	3	5	5	379	0.6	0.09	1.58	0.04	0.02	0.15	-1	-1	-1	649
363287	IC	72	25	162	1.6	3	93	0.5	13	53	4.31	3	33	12	2	85	1	2	2	9	7	1008	0.18	0.07	0.77	0.01	0.02	0.13	-1	-1	-1	639
363288	IC	35	24	104	1.2	3	175	0.5	7	28	2.95	1	35	2	2	75	1	2	8	3	6	416	0.46	0.1	1.28	0.02	0.02	0.21	-1	-1	-1	534
363289	IC	45	47	105	1.2	6	201	0.5	6	31	3.15	2	39	6	2	86	2	2	9	4	7	321	0.39	0.1	1.23	0.02	0.02	0.15	-1	-1	-1	456
363290	IC	22	48	71	4.5	10	102	0.5	5	20	2.74	2	25	6	2	45	1	2	6	5	10	222	0.35	0.09	1.04	0.03	0.02	0.2	-1	-1	-1	480
363291	IC	11	18	52	2.3	9	67	0.5	5	11	2.49	1	11	5	2	38	2	2	4	4	8	190	0.4	0.1	1.2	0.02	0.02	0.21	-1	-1	-1	396
363292	IC	12	11	43	0.5	13	51	0.5	4	11	2.44	2	10	2	2	48	2	2	3	4	6	219	0.47	0.13	1.18	0.02	0.02	0.28	-1	-1	-1	395
363352	IC	6	8	28	1	4	26	0.5	2	5	1.55	1	8	2	2	21	1	1	2	2	3	104	0.19	0.03	0.75	0.01	0.01	0.08	-1	-1	-1	151
363353	IC	5	7	19	0.5	3	20	0.5	1	4	1.16	1	4	2	2	15	1	2	1	2	2	80	0.14	0.02	0.43	0.01	0.03	0.11	-1	-1	-1	186
363354	IC	10	17	66	0.6	7	54	0.5	5	11	2.46	1	7	5	2	24	2	2	4	20	59	345	0.43	0.02	1.46	0.04	0.04	0.17	-1	-1	-1	491
363355	IC	11	21	49	0.7	10	63	0.5	4	9	1.81	1	10	2	2	21	1	1	3	8	11	166	0.31	0.03	0.92	0.04	0.01	0.14	-1	-1	-1	340
363356	IC	10	29	42	0.8	13	71	0.5	2	6	2.33	1	7	2	2	26	1	2	2	4	5	100	0.19	0.03	0.83	0.01	0.01	0.1	-1	-1	-1	309
363357	IC	16	52	19	3.3	22	41	0.5	1	4	1.96	3	9	2	2	16	1	1	2	2	2	35	0.07	0.01	0.51	0.01	0.02	0.04	-1	-1	-1	208
363358	IC	12	87	27	1.3	23	38	0.5	2	5	2.32	4	9	2	2	36	1	2	2	2	2	63	0.04	0.04	0.33	0.01	0.01	0.05	-1	-1	-1	329
363359	IC	2	20	7	0.7	4	26	0.5	1	1	0.4	1	2	2	2	4	1	1	2	1	3	17	0.01	0.01	0.22	0.01	0.01	0.01	-1	-1	-1	248
363360	IC	11	28	40	3.4	6	57	0.5	3	7	2.07	1	13	2	2	23	1	2	2	3	6	124	0.27	0.02	1.09	0.01	0.01	0.11	-1	-1	-1	202
363361	IC	10	69	45	0.8	9	40	0.5	1	6	1.86	1	7	2	2	24	1	2	1	1	3	57	0.07	0.02	0.49	0.01	0.01	0.05	-1	-1	-1	219
363362	IC	14	124	31	1.5	11	40	0.5	1	5	1.87	2	4	2	2	34	2	2	1	1	1	33	0.01	0.03	0.15	0.01	0.01	0.01	-1	-1	-1	206
363363	IC	94	80	241	1.5	9	32	0.5	7	34	4.35	5	10	2	2	42	1	2	1	4	1	226	0.01	0.01	0.37	0.01	0.03	0.03	-1	-1	-1	596
363364	IC	30	127	571	0.6	15	305	1	11	32	2.61	2	10	2	2	19	1	4	2	22	36	1291	0.15	0.01	0.68	0.01	0.01	0.2	-1	-1	-1	392
363365	IC	10	29	42	0.5	10	75	0.5	2	7	1.17	1	8	2	2	18	1	2	2	1	2	89	0.08	0.01	0.3	0.01	0.01	0.1	-1	-1	-1	206
363366	IC	17	34	63	0.9	11	125	0.5	2	7	3.05	6	6	2	2	27	2	2	8	6	24	127	0.18	0.01	0.49	0.01	0.04	0.26	-1	-1	-1	813
363367	IC	7	11	56	0.7	3	81	0.5	2	3	2.86	1	2	2	2	8	4	1	1	13	25	457	0.46	0.05	1.36	0.03	0.02	0.36	-1	-1	-1	376
363368	IC	20	6	168	0.2	1	109	0.5	15	18	4.83	1	35	2	2	83	3	4	4	31	44	957	1.23	0.2	2.3	0.26	0.01	0.94	-1	-1	-1	676
363369	IC	20	32	106	0.6	18	211	1	10	16	2.38	4	22	2	2	36	2	1	9	12	23	1810	0.48	0.05	1.13	0.34	0.04	0.22	-1	-1	-1	367
363370	IC	14	42	62	0.2	14	118	0.5	4	12	3.01	3	17	2	2	55	2	2	3	3	2	504	0.21	0.12	0.68	0.02	0.02	0.17	-1	-1	-1	377

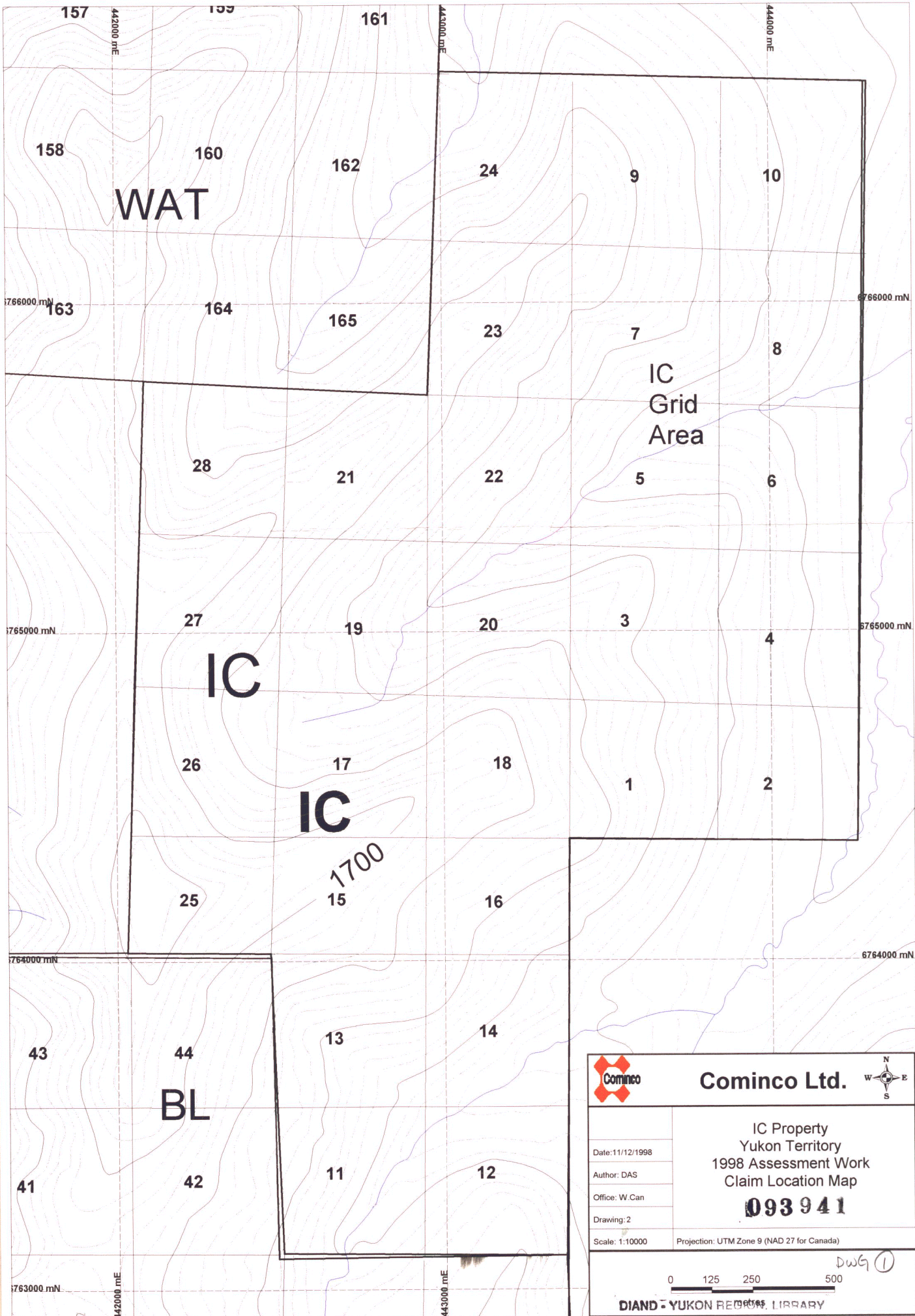
Sample #	Property	Cu	Pb	Zn	Ag	As	Baicp	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	Au	WtAu	Baxrf	P
363371	IC	10	23	41	0.8	2	180	1	4	7	1.54	1	11	2	2	34	1	1	3	2	2	1078	0.08	0.05	0.43	0.01	0.01	0.09	-1	-1	-1	270
363372	IC	26	469	63	1.5	4	326	0.5	2	6	4.22	1	11	2	2	59	2	2	7	1	2	54	0.01	0.05	0.31	0.01	0.02	0.17	-1	-1	-1	821
363374	IC	27	2	30	0.2	3	108	0.5	6	25	1.89	1	38	2	2	32	1	2	4	1	1	138	0.43	0.05	1.04	0.04	0.01	0.08	-1	-1	-1	263
363375	IC	45	2	21	0.2	3	45	0.5	8	31	1.4	1	47	2	2	24	1	2	5	1	1	119	0.38	0.03	1.34	0.09	0.03	0.03	-1	-1	-1	668
363376	IC	65	14	109	0.9	3	520	0.5	22	40	3.19	1	70	2	2	89	2	1	22	3	4	1671	0.8	0.04	1.64	0.25	0.04	0.56	-1	-1	-1	851
363377	IC	20	2	35	0.2	2	89	0.5	5	15	1.65	1	30	2	2	44	1	2	5	1	1	349	0.28	0.06	0.84	0.04	0.04	0.09	-1	-1	-1	349
363378	IC	66	4	65	0.2	4	250	0.5	11	40	3.25	1	66	2	2	87	1	2	9	3	4	471	0.92	0.11	2.05	0.11	0.02	0.23	-1	-1	-1	853
363379	IC	28	8	70	0.2	2	357	0.5	8	23	2.89	1	42	2	2	90	1	4	10	2	1	499	0.48	0.15	1.09	0.1	0.04	0.27	-1	-1	-1	553
363380	IC	41	16	88	0.2	3	216	0.5	8	30	3.76	1	51	2	2	85	2	2	6	3	3	445	0.71	0.12	1.78	0.04	0.02	0.27	-1	-1	-1	847
363382	IC	14	6	45	0.2	3	141	0.5	4	10	1.76	1	12	2	2	38	3	3	3	3	2	1583	0.26	0.07	0.81	0.02	0.04	0.23	-1	-1	-1	254
363383	IC	8	6	29	0.7	3	35	0.5	2	4	1.51	2	10	2	2	27	2	2	2	2	4	285	0.17	0.02	0.62	0.02	0.04	0.13	-1	-1	-1	482
363385	IC	15	11	71	1	2	59	0.5	14	17	3.71	1	40	2	2	71	2	1	2	17	22	520	1.12	0.15	1.78	0.22	0.04	0.77	-1	-1	-1	789
363386	IC	16	9	67	0.2	1	84	0.5	15	19	3.61	1	43	2	2	74	4	1	5	35	72	737	1.12	0.14	1.85	0.33	0.01	0.7	-1	-1	-1	821
363387	IC	16	5	87	0.2	1	121	0.5	17	18	4.54	1	35	8	2	85	2	3	6	41	70	1104	1.25	0.15	2.23	0.41	0.04	0.96	-1	-1	-1	696
363388	IC	15	7	87	1.2	1	123	0.5	14	13	2.95	2	24	7	2	53	3	1	4	40	66	1166	0.65	0.05	1.34	0.29	0.04	0.51	-1	-1	-1	747
363389	IC	7	27	138	0.7	5	79	0.5	4	10	2.27	1	4	7	2	14	2	2	2	31	84	709	0.57	0.03	1.22	0.03	0.02	0.5	-1	-1	-1	362
363390	IC	9	13	102	0.2	5	221	0.5	4	5	3.41	1	2	11	2	7	4	1	4	60	129	830	0.61	0.05	1.98	0.11	0.02	0.67	-1	-1	-1	304
363391	IC	13	11	60	0.8	3	63	0.5	4	10	2.92	1	13	2	2	30	2	1	3	4	8	546	0.36	0.03	1.41	0.02	0.04	0.24	-1	-1	-1	514
363392	IC	11	7	40	1	2	35	0.5	3	7	1.62	1	9	2	2	19	1	1	3	6	13	177	0.25	0.02	0.92	0.04	0.05	0.16	-1	-1	-1	477
363393	IC	15	13	91	0.2	4	71	0.5	9	14	2.76	1	16	7	2	39	1	2	3	22	38	463	0.61	0.1	1.45	0.11	0.01	0.35	-1	-1	-1	679
363394	IC	14	8	96	1.1	8	72	0.5	5	13	3.13	1	9	6	2	22	1	1	3	22	27	441	0.56	0.05	1.84	0.03	0.04	0.26	-1	-1	-1	277
363395	IC	11	7	59	0.2	3	67	0.5	4	9	2.05	1	7	6	2	20	2	2	4	12	17	317	0.34	0.03	1.4	0.04	0.04	0.21	-1	-1	-1	417
363396	IC	6	12	35	1.5	2	19	0.5	4	4	1.12	1	2	5	2	12	1	1	1	15	26	210	0.2	0.01	0.63	0.03	0.04	0.18	-1	-1	-1	535
363397	IC	13	5	62	0.4	5	65	0.5	9	9	3.59	1	5	12	2	41	2	2	8	15	21	591	0.89	0.1	2.13	0.1	0.05	0.84	-1	-1	-1	622
363398	IC	7	4	30	0.9	1	42	0.5	2	3	0.78	1	2	2	2	7	1	1	10	5	8	112	0.18	0.01	0.54	0.06	0.05	0.17	-1	-1	-1	505
363399	IC	11	7	48	0.8	1	52	0.5	5	10	2.59	1	5	8	2	17	2	1	1	8	13	382	0.74	0.07	1.9	0.01	0.02	0.63	-1	-1	-1	377
363400	IC	10	6	38	1.1	1	36	0.5	3	8	1.93	1	5	6	2	15	2	1	2	6	11	213	0.63	0.06	1.58	0.02	0.02	0.51	-1	-1	-1	410
363411	IC	56	23	140	1.1	6	280	0.5	13	58	4.5	2	70	14	2	76	1	3	6	6	7	524	0.93	0.11	2.29	0.07	0.02	0.2	-1	-1	-1	370
363412	IC	19	19	50	1.8	4	153	0.5	3	13	1.25	1	11	2	2	30	1	1	3	2	5	118	0.11	0.04	0.5	0.01	0.02	0.1	-1	-1	-1	289
363413	IC	47	39	99	4.2	1	360	0.5	7	30	2.83	2	35	2	2	76	1	2	4	4	4	320	0.43	0.11	1.11	0.02	0.01	0.18	-1	-1	-1	610
363414	IC	35	34	93	5.3	1	107	0.5	6	24	2.8	1	35	2	2	61	1	2	4	3	5	351	0.49	0.08	1.24	0.02	0.01	0.14	-1	-1	-1	539
363415	IC	48	24	130	1	3	255	0.5	9	35	3.18	3	41	7	2	60	1	2	4	7	10	707	0.42	0.06	1.38	0.03	0.01	0.2	-1	-1	-1	572
363416	IC	32	23	77	1.2	4	92	0.5	8	27	2.69	1	26	2	2	55	1	3	3	4	8	270	0.34	0.07	1.09	0.04	0.02	0.06	-1	-1	-1	305
363417	IC	56	2	44	1.1	3	104	0.5	10	39	2.54	1	56	6	2	50	1	1	5	4	6	200	0.66	0.1	2.01	0.19	0.03	0.08	-1	-1	-1	529
363418	IC	41	4	38	1	1	53	0.5	12	44	2.02	1	58	2	2	45	1	2	4	3	4	167	0.7	0.13	1.5	0.19	0.03	0.06	-1	-1	-1	313
363419	IC	74	7	65	1.8	2	82	0.5	16	59	3.6	1	89	10	2	78	1	3	10	3	3	321	1.24	0.15	2.1	0.16	0.02	0.27	-1	-1	-1	813
363420	IC	71	2	44	0.6	1	58	0.5	19	51	2.95	1	68	9	2	61	1	1	7	2	1	260	1.16	0.18	2.51	0.21	0.03	0.26	-1	-1	-1	618
363421	IC	14	2	23	1	1	8	0.5	24	170	1.43	1	116	2	2	1	1	2	1	1	1	28	0.18	0.01	1.69	0.05	0.01	0.01	-1	-1	-1	489
363422	IC	138	2	36	0.8	1	63	0.5	23	117	2.16	1	112	12	2	39	1	1	8	1	2	215	1.28	0.1	2.17	0.28	0.03	0.09	-1	-1	-1	543
363423	IC	40	19	93	0.9	2	383	0.5	15	35	4.88	1	48	16	2	114	1	1	6	4	6	759	0.88	0.15	2.55	0.07	0.02	0.39	-1	-1	-1	405
363424	IC	110	9	104	0.2	38	844	0.5	33	91	5.65	1	137	23	2	141	2	1	12	10	14	1101	2	0.15	3.04	0.46	0.03	0.61	-1	-1	-1	1353




Sample #	Property	Cu	Pb	Zn	Ag	As	Baicp	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	Au	WtAu	Baxrf	P
363425	IC	66	5	42	1.3	1	87	0.5	12	68	2.28	1	102	9	2	41	1	2	4	3	4	182	0.8	0.09	2.19	0.14	0.03	0.08	-1	-1	-1	391
363426	IC	107	2	38	0.2	1	138	0.5	19	110	2.33	1	138	14	2	40	1	1	10	3	4	213	1.23	0.09	2.47	0.34	0.06	0.19	-1	-1	-1	725
363427	IC	52	2	35	0.2	1	49	0.5	12	44	2.09	1	87	7	2	43	1	1	5	2	2	139	0.73	0.09	1.63	0.16	0.03	0.09	-1	-1	-1	362
383506	IC	30	11	302	0.2	1	115	0.5	18	24	5.39	2	36	15	2	84	2	4	7	34	47	1173	1.28	0.2	2.59	0.45	0.02	0.91	-1	-1	-1	921
383507	IC	15	15	61	0.2	6	138	0.5	7	13	3.99	4	12	14	2	25	2	1	16	83	166	713	0.81	0.03	2.73	0.42	0.03	0.33	-1	-1	-1	594
383508	IC	31	83	74	0.2	9	495	0.5	3	10	5.92	1	18	17	2	47	1	1	5	2	4	103	0.19	0.06	0.81	0.03	0.03	0.18	-1	-1	-1	763
383509	IC	174	16	165	0.9	3	692	0.5	27	95	5.1	1	103	21	2	109	1	2	10	13	20	1185	1.5	0.14	3.52	0.16	0.03	0.87	-1	-1	-1	832
383510	IC	68	5	39	0.8	1	333	0.5	14	31	2.19	1	53	7	2	56	1	1	17	3	6	592	0.65	0.06	1.66	0.35	0.06	0.09	-1	-1	-1	620
383511	IC	73	13	53	0.2	1	82	0.5	17	85	4	2	139	15	2	80	1	2	4	3	4	395	1.01	0.14	3.15	0.11	0.03	0.09	-1	-1	-1	517

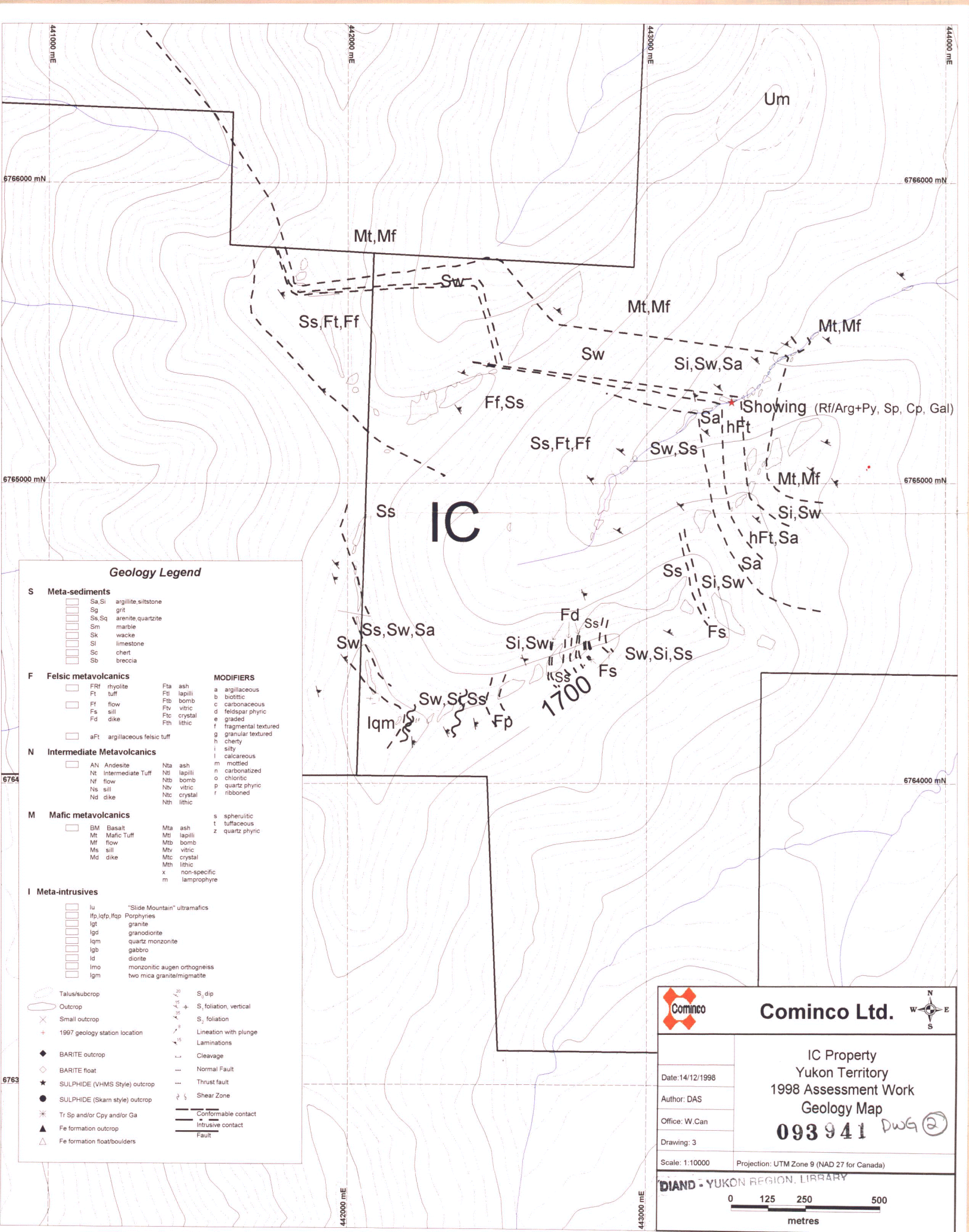
APPENDIX III
STATEMENTS OF EXPENDITURES

IC PROPERTY

<u>EXPENDITURE ITEM</u>	<u>COST \$</u>
STAFF COST	4,600.18
GEOCHEMICAL ANALYSES	2,134.19
DOMICILE	1,372.85
HELICOPTER	2,187.50
TRUCK RENTAL	530.02
FUEL	405.06
EXPEDITING	700.18
EXPENSE ACCOUNTS	759.83
COMMUNICATIONS	509.98
SUPPLIES	277.06
TOTAL	13,476.82



 Cominco Ltd. 	
IC Property Yukon Territory 1998 Assessment Work Claim Location Map <h1 style="font-size: 2em; margin: 0;">093941</h1>	
Date: 11/12/1998	
Author: DAS	
Office: W. Can	
Drawing: 2	
Scale: 1:10000	Projection: UTM Zone 9 (NAD 27 for Canada)
 DWG ①	
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Geology Legend

S Meta-sediments

- Sa, Si argillite, siltstone
- Sg grit
- Ss, Sq arenite, quartzite
- Sm marble
- Sk wacke
- Sl limestone
- Sc chert
- Sb breccia

F Felsic metavolcanics

- FRf rhyolite tuff
- Ff flow
- Fs sill
- Fd dike
- aFt argillaceous felsic tuff

MODIFIERS

- Fta ash
- Ffb lapilli
- Ffv vitric
- Ffc crystal
- Ffl lithic
- a argillaceous
- b biotitic
- c carbonaceous
- d feldspar phytic
- e graded
- f fragmental textured
- g granular textured
- h cherty
- i silty
- l calcareous
- m mottled
- n carbonized
- o chloritic
- p quartz phytic
- r ribboned

N Intermediate Metavolcanics

- AN Andesite
- Nt Intermediate Tuff
- Nf flow
- Ns sill
- Nd dike
- Nta ash
- Ntl lapilli
- Ntb bomb
- Ntv vitric
- Ntc crystal
- Nth lithic


M Mafic metavolcanics

- BM Basalt
- Mt Mafic Tuff
- Mf flow
- Ms sill
- Md dike
- Mta ash
- Mtb lapilli
- Mtbv vitric
- Mtc crystal
- Mth lithic
- x non-specific
- m lamprophyre

I Meta-intrusives


- Iu "Slide Mountain" ultramafics
- Ifp, Iqfp, Iqgp Porphyries
- Igt granite
- Igd granodiorite
- Iqm quartz monzonite
- Igb gabbro
- Id diorite
- Imo monzonitic augen orthogneiss
- Igm two mica granite/migmatite

- Talus/subcrop
- Outcrop
- Small outcrop
- 1997 geology station location
- BARITE outcrop
- BARITE float
- SULPHIDE (VHMS Style) outcrop
- SULPHIDE (Skarn style) outcrop
- Tr Sp and/or Cpy and/or Ga
- Fe formation outcrop
- Fe formation float/boulders
- S_v dip
- S_v foliation, vertical
- S_p foliation
- Lineation with plunge
- Laminations
- Cleavage
- Normal Fault
- Thrust fault
- Shear Zone
- Conformable contact
- Intrusive contact
- Fault



Cominco Ltd.

IC Property
Yukon Territory
1998 Assessment Work
Geology Map
093 941 DWG 2



Date: 14/12/1998

Author: DAS

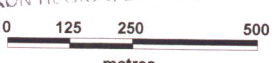
Office: W.Can

Drawing: 3

Scale: 1:10000

Projection: UTM Zone 9 (NAD 27 for Canada)

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0 125 250 500 metres