Rimfire Minerals Corporation

2000 GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT ON THE THORN PROPERTY

Volume I - Text

Located in the Sutlahine River Area
Atlin Mining Division
NTS 104K/10W
58^{o} 32' North Latitude
132^{o} 47' West Longitude

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SUMMARY

The Thorn property consists of 207 claim units covering approximately 52 km^2 of mountainous terrain in northwestern British Columbia, 130 kilometres southeast of Atlin. Access to the property is currently by helicopter and float-plane, with the nearest road 50 kilometres to the southeast. Rimfire Minerals Corporation has an option to acquire 100% interest in the property.

The Thorn property has been sporadically explored since the early 1960's. Rimfire optioned the core of the property in March 2000, recognizing strong similarities in alteration, vein mineralogy, structure and areal extent to the 6.3 million ounce El Indio high-sulphidation epithermal gold-copper deposit in Chile. Later this year, Rimfire flew a 384 line-kilometre airborne geophysical survey, staked 135 claim units and carried out geological and geochemical fieldwork.

The Thorn high-sulphidation system is hosted by feldspar-quartz-biotite porphyry of the Late Cretaceous Thorn Stock, which intrudes Upper Triassic Stuhini Group volcanics and is flanked to the northeast by coeval subaerial volcanics. The stock measures 1,500 x 3,500 metres, elongated along a major northwesterly-trending structure marked by a nine kilometre magnetic low. The stock was not the "causative" intrusion for the high-sulphidation system, but formed a brittle, relatively unreactive lithology which allowed development of dilational fractures and migration of the acidic, high-sulphidation fluids. All known high-sulphidation mineralization is hosted within the Thorn Stock; other styles predominate elsewhere on the property. In the high-sulphidation system, individual veins and vein swarms are enveloped by 10-100 metre wide zones of intense sericite-clay-pyrite alteration, which weather to form vivid yellow jarosite gossans. These zones are flanked by narrower bands of weak clay-sericite-chlorite alteration within pervasively chloritized porphyry. Veining dominantly strikes 060°-100° and dips steeply to the south.

Three types of high-sulphidation veining are present: (a) massive pyrite-enargite-tetrahedrite (MP, Catto veins); (b) quartz-pyrite-enargite-tetrahedrite with silver sulphosalts (Tamdhu, I, L, F zones); and, (c) low sulphide/sulphosalt quartz breccias (B Zone). All three types host significant gold, silver and copper grades, but the second type is generally the richest, with the best sample assaying 22.1 g/tonne Au and 2400 g/tonne Ag.

The soil geochemical survey revealed highly anomalous values from several areas on the Thorn Grid. Anomaly 1, measuring 250 x 300 metres, returned up to 116 ppm Ag, 733 ppb Au, 7219 ppm As and 7643 ppm Pb from soil samples in an area with no record of previous mapping or prospecting. Twenty silt samples were taken in 2000, all of which exceeded the region's 90^{th} percentile in at least four elements of interest. Several highly anomalous creeks drain known mineralization; another four have yet to be explained.

The airborne survey revealed a resistivity low which encompasses the intensely altered portion of the Thorn Stock and most of the known high-sulphidation veins. However, approximately two-thirds of the resistivity low extends north over a till-covered area which is not amenable to surface geological and geochemical exploration. The survey also showed 26 weak EM conductors within the Thorn Stock, mainly covered but in the vicinity of strong sericite-clay-pyrite alteration; these are thought to represent undiscovered sulphide-sulphosalt veins.

The Thorn high-sulphidation epithermal veining is currently the most attractive exploration target on the Thorn property, but three other styles of mineralization deserve further work: (a) arsenopyrite-bearing veins near the Thorn Stock contact, including the G Zone, which assayed 57.4 g/tonne Au across 2.0 metres; (b) porphyry Cu-Mo-Au mineralization, such as the Cirque Zone and potentially at depth below the Thorn high-sulphidation system; and (c) poorly understood mineralization within the 400 x 2,000 metre Outlaw multi-element soil geochemical anomaly, located five kilometres to the southeast of the Thorn high-sulphidation system.

Plate 1:
Looking southwesterly down Camp Creek toward La Jaune Creek and the Jarosite Bluffs.

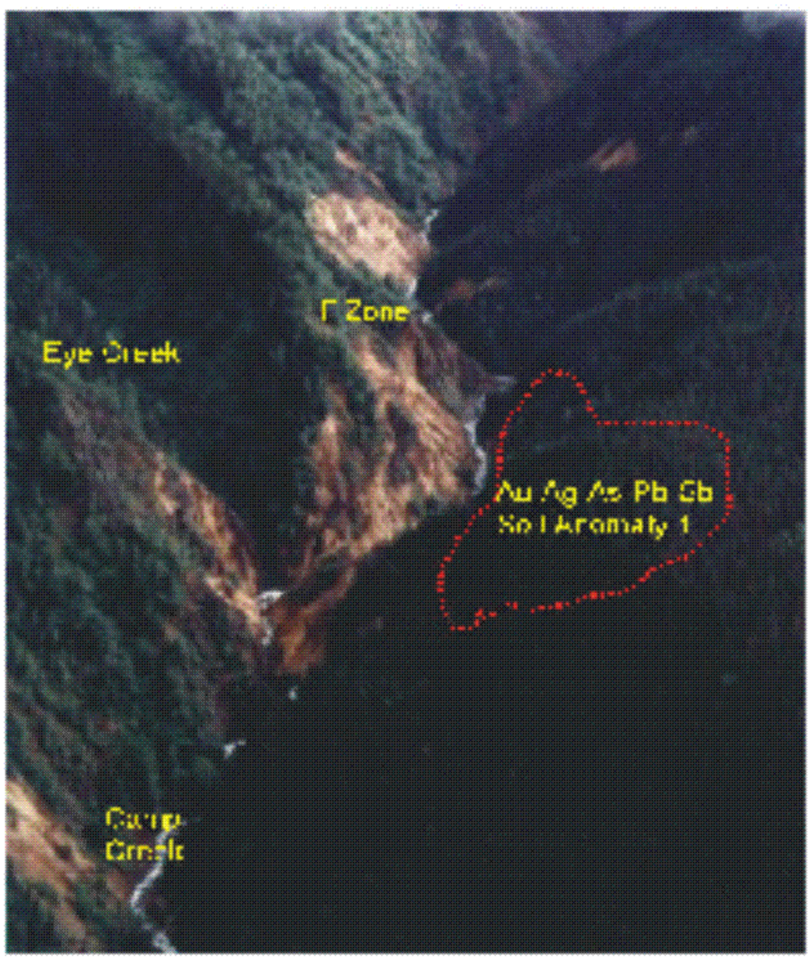

Plate 2:
Looking northeasterly up Camp Creek at the jarosite gossans associated with the F Zone.

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1.0 INTRODUCTION

The Thorn property covers a series of spectacular jarosite gossans and enargite-tetrahedrite-pyrite veins in the Sutlahine River area of northwestern British Columbia (Figure 1). It had been sporadically explored since the early 1960's for various exploration targets, culminating in an eight-hole diamond drilling program in 1986. Recognizing strong similarities to the 6.3 million ounce El Indio high-sulphidation epithermal gold-copper deposit, Rimfire Minerals Corporation optioned the Thorn property in March 2000, flew an airborne geophysical survey in July, enlarged the ground position to 52 km^2 in August and carried out fieldwork in August and September. Equity Engineering Ltd. was contracted to execute the 2000 Thorn fieldwork and has been retained to report on its results.

2.0 PROPERTY TITLE

The Thorn property (Figure 2) consists of 10 mineral claims totalling 207 contiguous units in the Atlin Mining Division of British Columbia, as summarized in Table 2.0.1. Records of the British Columbia Ministry of Energy and Mines indicate all claims are owned by Rimfire Minerals Corporation. Separate documents indicate that the claims are held under option from Kohima Pacific Gold Corporation, R. Terry Heard and Jean Marc Thomas, who have granted Rimfire an option to acquire 100% of the property by carrying out exploration and making cash and share payments.

Table 2.0.1
Claim Data

Claim Name	Mineral Tenure	No. of Units	Record Date	Expiry Date
Check-mate	320695	20	September 2, 1993	December 31, 2006*
Stuart 1	360714	20	November 21, 1997	December 31, 2006*
Stuart 2	360715	16	November 21, 1997	December 31, 2005*
Stuart 3	360716	16	November 21, 1997	December 31, 2005*
Thorn 1	379825	20	August 18, 2000	December 31, 2006*
Thorn 2	379826	20	August 18, 2000	December 31, 2005*
Thorn 3	379827	20	August 18, 2000	December 31, 2005*
Thorn 4	379828	20	August 18, 2000	December 31, 2005*
Thorn 5	379829	20	August 18, 2000	December 31, 2005*
Thorn 6	379830	20	August 18, 2000	December 31, 2005*
Thorn 7	379831	15	August 18, 2000	December 31, 2005*
		207		

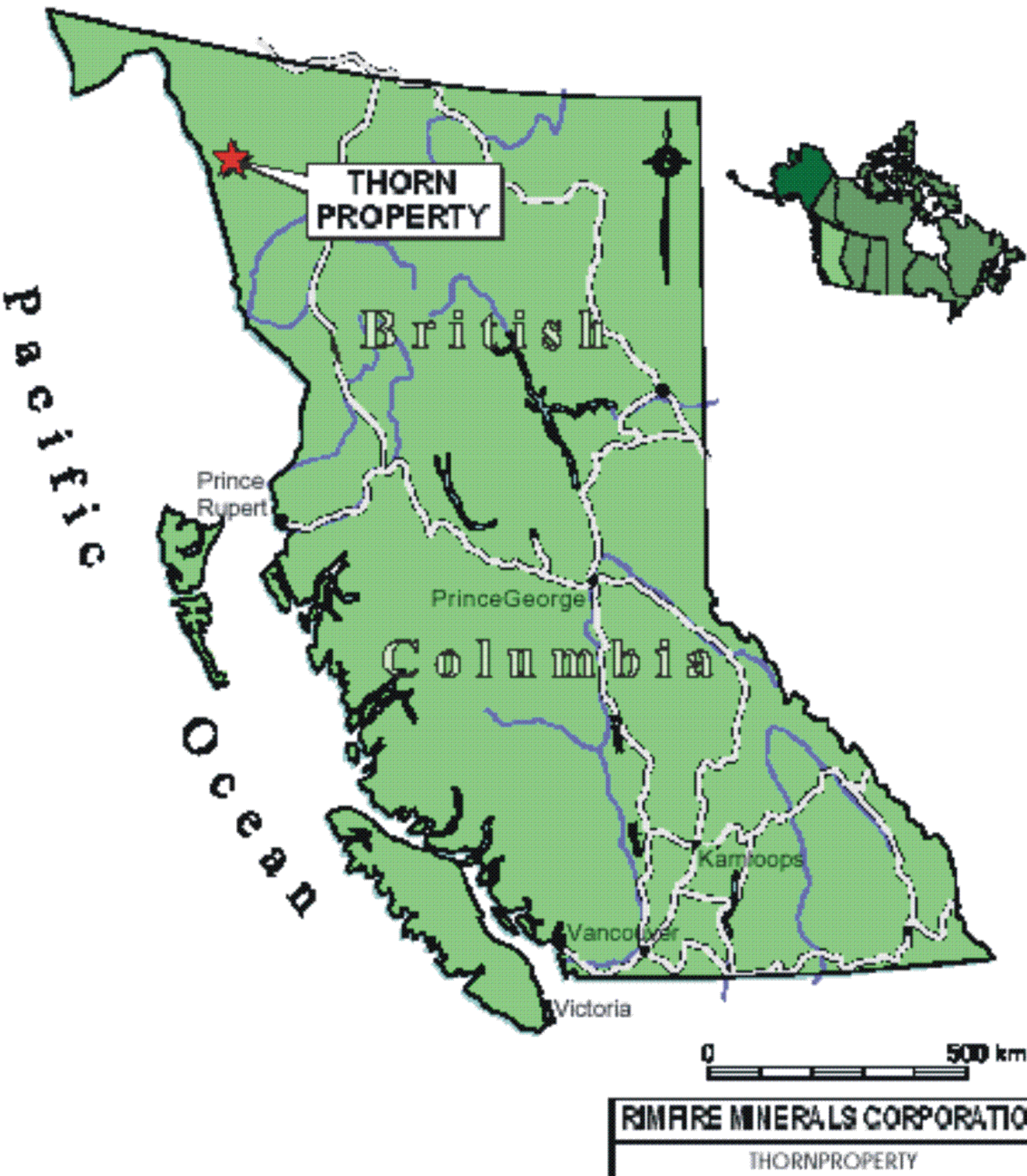
* Subject to approval of assessment work covered by this report

The Thorn 1-7 legal corner posts were located in the field by the author.

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Thorn property lies in the Coast Range Mountains of northwestern British Columbia, approximately 130 kilometres southeast of Atlin, 120 kilometres northwest of Telegraph Creek and 160 kilometres west of Dease Lake (Figure 1). The property lies within the Atlin Mining Division, centred at 58^{o} 32' north latitude and 132^{o} 47' west longitude.

Access to the Thorn property is by helicopter from bases in Atlin or Dease Lake. Float planes can land on Trapper Lake (10 kilometres southeast of the Thorn) and King Salmon Lake (20 kilometres north of the Thorn). In the early 1960's, ski-equipped planes landed immediately east of the Thorn property, along the broad pass at the head of Camp Creek (Figure 2). The Golden Bear Mine, 50 kilometres to the southeast, provides the closest road access.



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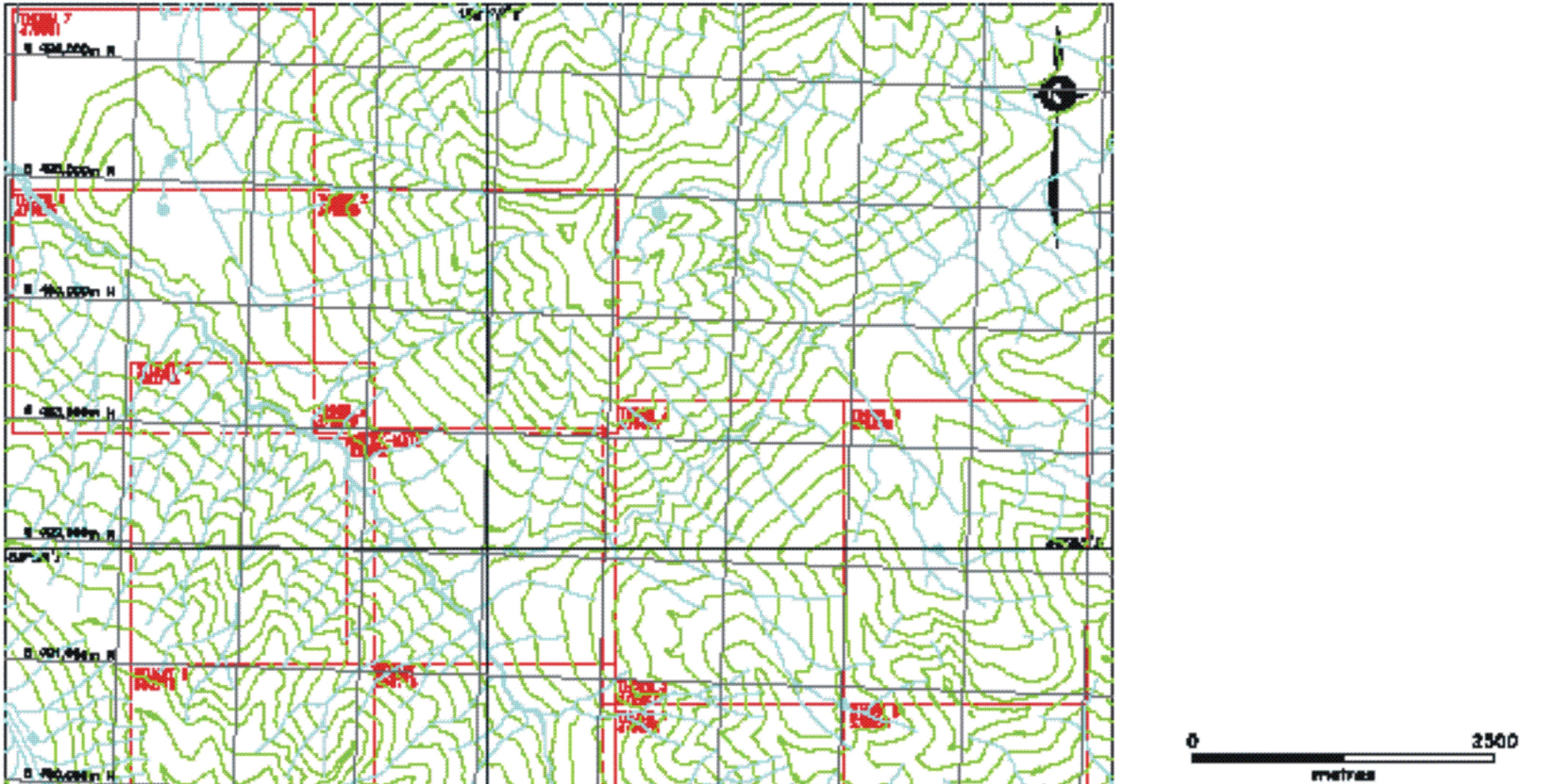
THORNPROPERTY

LOCATION MAP

1



RIMFIRE MINERALS CORPORATION

THORN PROPERTY

CLAIM MAP

Nov 2000	1:50,000	Figure 2
[illegible]	[illegible]	
104K/10	BC	

The Thorn property covers the lower part of a major tributary (named “La Jaune Creek” by previous workers) which flows northwesterly into the Sutlahine River, itself a tributary of the Inklin and Taku Rivers. La Jaune Creek and some of its tributaries form deeply incised canyons within generally rugged, mountainous and glaciated terrain. Elevations range from 340 metres on the Sutlahine River flood-plain to over 2100 metres for the peak on the Thorn 4/6 claim boundary. The majority of the 2000 exploration program was carried out between 560 and 750 metres elevation.

Most of the property is below treeline, which lies at about 1200 metres, and is covered by mature hemlock and spruce with open patches of devil’s club and tag alder. The lower part of La Jaune Creek valley was burned over about ten years ago. Both summer and winter temperatures are moderate although annual rainfall may exceed 200 centimetres and several metres of snow commonly fall at higher elevations. The property can be worked from early June until early October.

4.0 PROPERTY EXPLORATION HISTORY

4.1 Previous Work

Table 4.1.1 summarizes all known exploration work carried out on the ground currently comprising the Thorn property.

Table 4.1.1
Thorn Exploration Programs

Program/Zones	Geochemistry	Geophysics	Drilling	Reference
Kennco (1959) A?	silts, rocks			Barr (1989)
Julian (1963) A, B, C	300 soils, rocks	Ground: magnetics	4 DDH (EQ): 71m	Adamson (1963); BCDM Annual Report (1963, p. 6)
Julian (1964) A, B, C, D, E, F, G, H, I, J, K, L, M, P, Q, Cirque, West	?	Ground: IP		Adamson (1964)
Julian (1965) A, B, E, F, G, I, P, Q, West	rocks	Ground: IP, magnetics	5 DDH (EQ): 244m	Adamson (1965a)
Julian (1965) Cirque	?	Ground: IP, magnetics	2 DDH (EQ): 61m 6 DDH (BQ): 828m	Adamson (1965b)
American Uranium (1969) B, C, L, M	57 silts, 143 soils, rocks	Ground: magnetics		Sanguinetti (1969)
American Uranium (1969) Cirque	300 soils, rocks	Ground: magnetics		Sanguinetti (1969)
J.R. Woodcock (1981)	11 silts, 31 rocks			Woodcock (1982)

Table 4.1.1 (continued)
Thorn Exploration Programs

Program/Zones	Geochemistry	Geophysics	Drilling	Reference
Chevron (1982) Outlaw				Brown and Shannon (1982)
Inland Recovery (1983) B, D	37 silts, 435 soils, 5 rocks	Ground: VLF-EM		Wallis (1983)
Chevron (1983) Outlaw	208 soils, 42 rocks			Walton (1984)
Inland Recovery & American Reserve (1986) B, Catto			8 DDH (NQ): 688 m	Woodcock (1987)
Chevron (1987) Outlaw			4 DDH (HQ/NQ): 654m	Moffat and Walton (1987), Walton (1987)
Shannon (1989) Outlaw	heavy minerals			Cann and Lehtinen (1991)
Gulf International (1989)	rocks			
Glider (1991) Outlaw	469 soils, 232 rocks		(4 DDH?)	Cann and Lehtinen (1991)
Clive Aspinall (1994) B, Catto			Core sampling	Aspinall (1994)
Kohima Pacific (1998) B, Catto, MP	2 rocks		Core sampling	Poliquin and Poliquin (1998)
Rimfire Minerals (2000) A, B, E, F, G, I, L, MP, Tamdhu, Catto, Whiz, Cirque, Outlaw, Bungee	20 silts, 553 soils, 121 rocks, 9 whole rocks	384 line-km airborne EM, magnetics	Core sampling	This report; Smith (2000)
Totals	>125 silts, >2,408 soils, >433 rocks, 9 whole rocks	Ground: magnetics, IP Airborne: EM, magnetics	35 DDH: 2,546m (8,353')	

The earliest known work on the Thorn property was carried out by Kennco Explorations (Western) Limited in 1959 during a regional exploration program. Kennco took a Cu-anomalous silt sample from the mouth of Camp Creek and followed it 1000 metres upstream, where they took a "37-metre chip sample across a silicified zone containing massive pyrite at a fault-controlled contact between chert breccia and volcanic fragmentals [which] assayed 0.34% Cu, 3.5 oz silver/ton and 0.04 oz gold/ton" (Barr, 1989). It is not clear to which showing this refers, although it may have been the A Zone.

Julian Mining Company, the Canadian arm of Anaconda, staked the Thorn property in 1963. They carried out three field seasons of mapping and prospecting, discovering 17 mineral showings of three main types: quartz-pyrite-tetrahedrite-enargite veins (Zones B, C, D, F, I, L and M); structurally-controlled chalcopyrite-pyrite-quartz±arsenopyrite veins and replacement zones (Zones A, E, G and H) and areas of widespread, low-grade disseminated chalcopyrite (J, P and Cirque Zones). Limited diamond drilling was carried out in 1963 (4 holes; 71m) and 1965 (4 holes; 179m) on the A Zone, a quartz-barite-chalcopyrite-pyrite vein immediately south of the Thorn Stock. The best A Zone core intersection graded 2.40% Cu, 201 g/tonne Ag and 1.4 g/tonne Au over 2.4 metres. On the Check-mate claim, Zone B consisted of six large angular quartz boulders with finely disseminated sulphides which averaged 1.20% Cu, 6.9 g/tonne Au and 275 g/tonne Ag. One hole (65m) was drilled upslope from the boulders in 1965, without intersecting their source. The porphyry-style Cirque Zone, on the current Thorn 3 and 4 claims, was discovered in 1964. Following magnetic, IP and soil geochemical surveys, it was drilled in 1965 (8 holes; 889m), with the best intersection grading 0.19% Cu and 0.07% MoS_2 over 10.7m. The remaining zones were evaluated by hand-trenching, chip sampling, limited soil sampling and reconnaissance magnetic and induced polarization survey lines (Adamson, 1963-65).

In 1969, American Uranium Limited carried out work on two small claim groups: the Ink, which covered the Thorn enargite-pyrite-tetrahedrite veins near the mouth of Camp Creek and the Lin over the Cirque Zone. Mapping of the Ink claims showed altered quartz-feldspar porphyry of the Thorn Stock to extend at least 2500 metres down La Jaune Creek from the mouth of Camp Creek, accompanied by Cu-bearing silt samples. Their best trench assayed 8.6 g/tonne Au and 312 g/tonne Ag (with only 0.03% Cu) across 3.7 metres, from the B Zone. On the Cirque Zone, American Uranium outlined a coincident Cu+Mo soil geochemical anomaly over an area 500 metres in diameter (Sanguinetti, 1969).

The Thorn showings were re-staked as the Daisy claims in 1981 by J. R. Woodcock, who carried out limited silt sampling and collected rock samples for geochemical and petrographic analysis (Woodcock, 1982). In 1983, Inland Recovery Group Ltd. acquired the Daisy claims and carried out mapping, soil sampling and VLF-EM surveying near the junction of Camp and La Jaune creeks. The soil grid consisted of an 800-metre base-line trending 060° with perpendicular cross-lines spaced 50 metres apart and sampled at 25 metre intervals. Strong Ag+Au+Cu±Zn soil geochemical anomalies were revealed along Camp Creek and extending 600 metres westerly from the B Zone (Wallis, 1983; Woodcock, 1986).

In 1986, Inland Recovery and American Reserve Mining Corp. drilled eight holes from three drill sites within the soil geochemical anomaly extending west from the B Zone. Core was altered and variably mineralized throughout, but only the highest-grade sections were split and analyzed. The best intersection was reported as 2.77 metres grading 3.78% Cu, 2.0 g/tonne Au and 153 g/tonne Ag, taken from hole 86-6; unsampled intervals within reported sections were assumed to be barren (Woodcock, 1987).

In 1989, the Daisy claims were optioned to Gulf International Minerals who carried out poorly-documented chip sampling of some pyrite-enargite-tetrahedrite showings. No assays are available from this work and the claims were allowed to lapse.

The Thorn showings were re-staked in 1993 as the Check-mate claim by Clive Aspinall of Atlin. The following year, he split an addition 31 core samples from the 1986 drilling, commissioned petrographic analysis of six core specimens and a float boulder and re-interpreted the 1986 drill sections (Aspinall, 1994). Kohima Pacific Gold Corporation staked the Stuart 1-3 claims in 1997 and optioned the Check-mate claim in 1998. Kohima discovered the MP Vein near the mouth of Camp Creek; this massive pyrite-enargite vein assayed 6.88% Cu and 179.0 g/tonne Ag across 0.5 metres. An additional 11 core samples were taken from the 1986 drilling and 84 PIMA readings were taken from holes 86-1, 86-3 and 86-6, showing the predominance of illite, pyrophyllite and dickite in altered core (Poliquin and Poliquin, 1998).

Chevron Canada Limited staked the Outlaw 1-4 claims immediately southeast of Woodcock's Daisy claims in 1981. In 1982, Chevron ran soil lines up ridges and over a rough grid at 200 x 100 metre spacings, indicating the presence of a strong Au+Ag+As+Sb+Cu+Pb soil geochemical anomaly over an area of 400 x 1,600 metres (Brown and Shannon, 1982). The following year, a 50 x 50 metre soil grid was sampled over the heart of the anomaly. Five trenches were blasted across an easterly-trending quartz-arsenopyrite-tourmaline vein, encountering only low gold and silver values (Walton, 1984). In 1985, five more trenches were blasted further east in a zone of intense clay alteration coincident with high As-Sb soil geochemical values, but no data was filed for assessment. In 1987, four holes were drilled along one section from two sites within this clay alteration zone. Drill hole 0-5 had the best gold intersection of 8.3 g/tonne over 0.95 metres, with many other assays in the range of 1-3 g/tonne Au throughout the core. Antimony and arsenic were highly anomalous and could be correlated to stibnite and arsenopyrite in the core (Walton, 1987).

In 1988, Shannon Energy Ltd. optioned the Outlaw property and carried out heavy mineral analysis of talus and silt samples, but no work was filed. Glider Developments Inc. acquired the property in 1991 and laid out 12.4 line-km of soil grid over the heart of Chevron's soil geochemical anomaly. Vuggy quartz-pyrite-galena vein float from the clay alteration zone drilled by Chevron assayed up to 22.9 g/tonne Au (Cann and Lehtinen, 1991). Glider may also have drilled four holes on the Outlaw, but this work was never recorded and has not been confirmed.

4.2 2000 Exploration Program

In February 2000, Rimfire Minerals Corporation optioned the Check-mate and Stuart 1-3 claims, attracted by the Thorn's similarities to El Indio-style high-sulphidation epithermal systems. An airborne geophysical survey was conducted in July, based out of a fishing camp on Little Trapper Lake. Rimfire staked the Thorn 1-7 claims in August to extend the property over the Outlaw soil geochemical anomaly, the Cirque Cu porphyry prospect, the projected extension of the Thorn Stock to the northwest along La Jaune Creek and several airborne EM conductors. Grid-based mapping, prospecting and soil geochemistry was carried out in August/September, with air support provided on a charter basis by Discovery Helicopters and Apex Air Charters, both of Atlin, British Columbia. A magnetic declination of 25° 13'E was used for all compass measurements. All maps and UTMs are referenced to the 1983 North American Datum (NAD-83).

A total of 384 line-kilometres of helicopter-borne EM and magnetics were flown in July, using an A-Star B-2 helicopter from West Coast Helicopters. Most of the survey lines were oriented at 140°, roughly perpendicular to the majority of veining in the Thorn Stock, with lines spaced 100 metres apart in the core area of interest and 200 metres apart elsewhere on the property. Crosslines at 050° were flown at 200 metre intervals in the vicinity of Camp Creek, in order to cut any structures running parallel to La Jaune Creek. The airborne survey was contracted to Fugro Airborne Surveys of Mississauga Ontario, who have reported separately on their procedures and results (Smith, 2000).

The August/September program of geological mapping, prospecting and soil sampling focused on the high-sulphidation veining within the Thorn Stock, centred on the fly camp at the junction of Camp and La Jaune creeks. The **Thorn Grid** was designed to cover previously-reported soil geochemical anomalies, prominent clay-sericite alteration and pyrite-enargite-tetrahedrite veining. An 1100-metre baseline (5000N) was cut and tight-chained at 050° from La Jaune Creek. On the west side of La Jaune Creek, a second baseline (5500N) was flagged for 475 metres at 230° from La Jaune Creek. Perpendicular cross-lines were run 100 metres apart, using compass, hipchain and clinometer. Lines were marked by orange flagging, and soil sampling stations at 25-metre intervals by orange and blue flagging and a Tyvek tag. In addition, two lines of contour soil samples were run, one over the Cirque copper porphyry prospect and another in the Amarillo Creek area.

Most of the mapping and prospecting were carried out at 1:2,500 scale in the vicinity of Camp and La Jaune Creeks, using a topographic orthophoto prepared by Westnet Information Systems of Parksville. A few reconnaissance traverses were also done to investigate the Cirque Zone, the Outlaw showings and the northwestern corner of the property. Sites of the 121 rock samples and 20 silt samples were marked with pink and blue flagging and an aluminum tag. Rock sample descriptions are attached in Appendix C. Six specimens were described petrographically by PetraScience Consultants (Appendix D).

Core from the 1986 diamond drilling was found in excellent condition at the 2000 camp site. It was re-logged and all previously unsampled portions were split for analysis (Appendices E.1-E.2). Most core, rock, soil and silt samples were analyzed by Acme Analytical Laboratories of Vancouver for Au and 30-element ICP, using an aqua regia digestion; a few were analyzed by Chemex Labs of North Vancouver (Appendices F.1-F.5). Pulp assays were carried out for high geochemical values of Au, Ag, Cu, Pb or Zn; the assays were used for plotting and calculations. "Metallics" assays for Au were carried out when geochemical values exceeded 10,000 ppb Au. Nine of the rocks were also submitted for 26-element whole rock ICP analysis at Acme. The procedures, results and conclusions of the sampling quality control/quality assurance program are summarized in Appendix G.

5.0 REGIONAL GEOLOGY

The area around the Thorn property is underlain by mid-Paleozoic and Triassic island arc successions, Late Triassic and Jurassic sediments of the Whitehorse Trough and bimodal Late Cretaceous to Eocene volcanics and associated intrusives (Figure 3). The most recent regional mapping (Figure 3) around the Thorn property was carried out from 1958-60 at a scale of 1:250,000 (Souther, 1971). Mihalynuk et al (1995) of the BCGS mapped the next 1:50,000 sheet to the west, providing additional insight into stratigraphic relationships and ages.

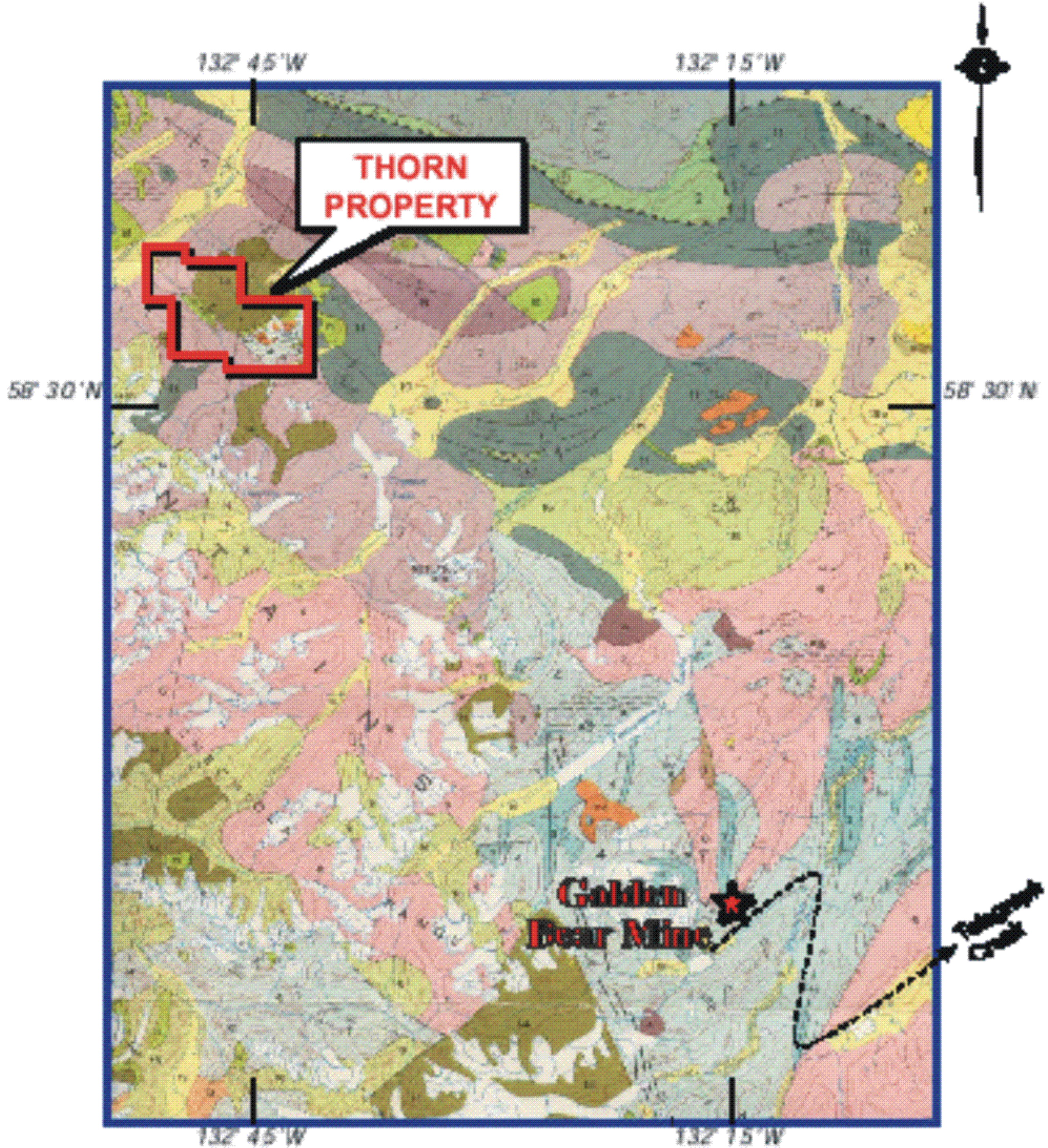
Paleozoic Stikine Assemblage strata (**Unit 4**) consist mainly of fine-grained, dark clastic sedimentary rocks and intercalated volcanics, with lesser chert, jasper, wacke and limestone. They have been intensely folded and variably foliated. These have been intruded by fine- to medium-grained, foliated quartz diorite and granodiorite (**Unit 6**), thought to be Early to Middle Triassic in age. Souther (1971) mapped a broad band of Upper Triassic Stuhini Group rocks (**Unit 7**) in the vicinity of the Thorn property, comprising mainly submarine basaltic volcanics with minor volcanic sandstone, wacke and siltstone. It should be noted that on the NTS sheet west of the Thorn, the subaerial portion of Souther's Stuhini Group was reassigned to the Sloko Group by Mihalynuk et al (1995). Souther differentiates a "King Salmon Formation" (**Unit 8**) dominated by well-bedded clastic sediments within the Stuhini Group; the formational designation has since been abandoned.

The Stuhini Group is unconformably overlain by Upper Triassic limestone and lesser sandstone, argillite and chert of the Sinwa Formation (**Unit 9**). The Sinwa Formation, in turn, is disconformably overlain by the Lower to Middle Jurassic clastic sediments of the Laberge Group. Souther subdivided the Laberge Group into coarse clastic rocks of a near-shore facies (Takwahoni Formation - **Unit 11**) and finer clastics of an off-shore facies (Inklin Formation - **Unit 10**).

In the Late Jurassic, the northwesterly-trending King Salmon Fault was active along the Sinwa Formation, thrusting it southward over the Laberge Group. South of the King Salmon Fault, this was accompanied by broad, symmetrical, northwesterly-trending folds, many of which are doubly plunging.

The late Mesozoic was also marked by intrusion of the Central Plutonic Complex (**Unit 13**), and stocks and dykes of hornblende-biotite granodiorite (**Unit 12a**), biotite-hornblende quartz diorite (**Unit 12b**), hornblende diorite (**Unit 12c**) and augite diorite (**Unit 12d**). The Central Plutonic Complex includes a wide variety of intrusive phases of differing ages, along with minor migmatite and gneiss pendants. The Red Cap porphyry stock, located 35 kilometres northwest of the Thorn and assigned by Souther to Unit 12a, was dated at 87.3$\pm$0.9 Ma by Ar-Ar methods (Mihalynuk, pers. comm. 2000).

Subaerial bimodal volcanics of the Sloko Group (**Unit 14**) unconformably overlie a high-relief paleosurface etched into the Mesozoic and Paleozoic rocks. The majority of the Sloko Group volcanics are pyroclastic; andesite and trachyte alternate with lesser amounts of dacite and rhyolite. They are



LEGEND

QUATERNARY

19 Alluviumandglacialdeposits

LATETERTIARYANDQUATERNARY

17 *HeartPeaksFormation:* trachyteandrhyolite flows,pyroclasticsandrelatedintrusions

LATECRETACEOUSANDEARLYTERTIARY

16 Quartzmonzonite

15 Felsiteandquartz-feldsparporphyry

14 *SlokoGroup:* rhyolite,daciteandtrachyteflows andpyroclastics

PRE-UPPERCRETACEOUS

13 *CentralPlutonicComplex:* granodioriteand quartzdiorite

POSTMIDDLEJURASSIC

12a Hornblende-biotitegranodiorite

12c Hornblendediorite

12d Augitediorite

JURASSIC

11 *LabergeGroup,TakwahoniFormation:* conglomerate,wacke,sandstone,siltstone,shale

TRIASSIC

9 *SinwaFormation:* limestone

8 *StuhiniGroup,KingSalmonFormation:* wacke, conglomerate,mudstone,siltstoneandshale

7 *StuhiniGroup:* andesiticandbasalticflows,tuff andagglomerate

LOWERORMIDDLETRIASSIC(?)

6 Foliateddioriteandquartzdiorite

PRE-UPPERTRIASSIC

4 Fine-grainedclasticsandintercalatedvolcanics

PERMIAN(?)

3 Limestoneanddolomiticlimestone

1 Peridotite,serpentinite,gabbroandpyroxene diorite

UNKNOWNAGE

A Dioritegneiss,amphiboliteandmigmatite

GeologyfromSouther(1971

0 20km

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REGIONAL GEOLOGY

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accompanied by epiclastic sediments, some of which contain coalified plant debris. The Sloko Group is characterized by numerous volcanic centres, rapid facies changes and synvolcanic high-angle faulting. Most of the Sloko strata are flat-lying or gently tilted. They are thought to be extrusive equivalents to high-level, multiphase quartz monzonite, diorite and granite stocks and plutons (**Unit 16**). Souther mapped felsite and quartz-feldspar porphyry intrusions (**Unit 15**) in a northwesterly-trending band through the Thorn property, spatially associated with the volcanics he included in the Sloko Group. These intrusions are aphanitic to fine-grained and are commonly porphyritic, with small feldspar and quartz phenocrysts. There are generally <3% mafic minerals, occurring as fine flecks of biotite or hornblende in the matrix or less commonly as small phenocrysts. They cut all other rocks in the area, but have ambiguous relations with respect to Units 14 and 16; Souther thought them to be high-level phases of Unit 16 and subvolcanic to Unit 14. The Thorn Stock, assigned to Souther's Unit 15, has been dated at 87.8 Ma by Ar-Ar methods (Panteleyev, pers. comm., 1999), essentially the same as the Red Cap Stock. At Tutshi Lake west of Atlin, Mihalynuk et al (1994) date the Sloko Group and its comagmatic intrusions at 55 Ma. No dates are available for the "Sloko Group" in the vicinity of the Thorn property, but if the Thorn Stock date is valid, it would appear that it and its associated volcanics could be considerably older than the true Sloko Group as mapped around Atlin and correspond to a separate, unnamed, magmatic episode.

6.0 PROPERTY GEOLOGY

Mapping at 1:2,500 scale was concentrated in the vicinity of La Jaune and Camp Creeks (Figure 5a-5c). A few reconnaissance traverses were made elsewhere, but property-wide geology in Figure 4 has been largely compiled from Adamson (1965b), Walton (1984) and Evans (1991).

6.1 Lithologies

The southern and western parts of the Thorn property are underlain by a package of Triassic and Jurassic mafic volcanics and marine sediments (Figure 4). In the vicinity of La Jaune Creek, the Triassic Stuhini Group rocks trend southeasterly and dip moderately to the northeast. A major northwesterly-trending structure along La Jaune Creek was intruded by the Late Cretaceous Thorn Stock, which is flanked to the northeast by coeval(?) subaerial volcanics. Age relationships of monzonite and granodiorite stocks in the northeastern part of the property are not clear; they may be Late Cretaceous or younger. Table 6.1.1 summarizes the characteristics of rock units on the Thorn property.

Table 6.1.1
Thorn Lithologic Units

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS

$KTIN_1$	**Rhyolite dykes and sills:** aphanitic or feldspar±quartz-phyric.
$KTIN_2$	**Biotite-hornblende granodiorite:** fine- to coarse-grained, local miarolitic cavities.
$KTIN_3$	**Basalt/andesite dykes:** fine-grained, dark green to brown, aphyric or feldspar-phyric, calcite amygdules common. Weakly magnetic.
$KTIN_4$	**Monzonite and diorite**
$KTIN_5$	**Hornblende lamprophyre dykes**

UPPER CRETACEOUS

uKSV SUBAERIAL VOLCANICS

$uKSV_1$	**Dacitic/andesitic tuff, lapilli tuff and block tuff:** Maroon to grey-brown, matrix-supported.
$uKSV_2$	**Rhyolitic tuff and agglomerate**
$uKSV_3$	**Rhyolite**
$uKSV_4$	**Andesite**
$uKSV_5$	**Basalt**
$uKSV_6$	**Ash tuff**

LATE CRETACEOUS
Thorn Stock

uKPO GRANODIORITE PORPHYRIES

$uKPO_1$ **Coarse-grained feldspar-quartz-biotite porphyry:** 15-40% anhedral 1-5mm feldspar, 15-30% euhedral equant 3-6mm glassy quartz and 5-15% euhedral equant 3-6mm biotite phenocrysts.

$uKPO_2$ **Fine-grained feldspar-quartz-biotite porphyry:** 30% anhedral 0.5-2mm feldspar, 0-5% subhedral 2-4mm quartz and 5% euhedral equant 4mm biotite phenocrysts.

LOWER TO MIDDLE JURASSIC
Laberge Group - Takwahoni Formation

lJTF CLASTIC SEDIMENTS

UPPER TRIASSIC
Sinwa Formation

uTSF LIMESTONE AND LESSER CLASTICS

$uTSF_1$ **Limestone**

$uTSF_2$ **Argillite**

Stuhini Group

uTMV MAFIC VOLCANICS

$uTMV_1$ **Pillow basalt**

$uTMV_2$ **Andesitic lapilli tuff**

$uTMV_3$ **Massive andesite:** dark green, aphyric, aphanitic to fine-grained

$uTMV_4$ **Feldspar-augite porphyry:** dark green, fine- to medium-grained, sparse <1mm feldspar and augite phenocrysts

uTMS MARINE SEDIMENTS: argillite, siltstone, wacke, grit, chert, quartzite and minor limestone

$uTMS_1$ **Interbedded siltstone and wacke:** well-bedded

$uTMS_2$ **Argillite**

Most of the 2000 mapping was confined to the 1,500 x 3,500 metre Thorn Stock, which is composed entirely of two related feldspar-quartz-biotite porphyry phases. From whole rock analysis and petrographic studies, the porphyries are granodioritic in composition. Sample 206835, taken from a relatively little-altered outcrop, showed five phenocryst types: plagioclase feldspar, quartz, biotite, elongate 0.5mm diameter amphibole and specularite (after magnetite?); no potassium feldspar was present as phenocrysts or in the matrix (Appendix D). The most widespread FQB porphyry phase is **$uKPO_1$**, which is coarser-grained and relatively phenocryst-rich, although quite variable in percentage of each phenocryst. Distribution of the finer-grained, quartz-poor **$uKPO_2$** is more restricted and largely confined to the stock's border. Sharp contacts between the two phases, accompanied by changes in alteration types, were noted in drill core. Only fault contacts were observed between the Thorn Stock and the adjacent Stuhini Group volcanics.

6.2 Structure

Appendix H contains stereonets and rose diagrams for the 29 unmineralized fractures, 67 veins, 14 post-mineral dykes and 16 unmineralized faults measured during the 2000 program from the vicinity of the Thorn Stock. It is apparent from them that:

- most structures are steeply-dipping to subvertical;
- one group of unmineralized fractures trends 150° to 170°, parallel to La Jaune Creek and its associated magnetic low. Presumably they were not present or not dilational during the mineralizing events;
- a second group of fractures trends 060° to 100° and is commonly filled by quartz-sulphide-sulphosalt veining;
- faults are present in a variety of orientations, mineralized and unmineralized;
- most of the post-ore dykes trend 030° to 060°, rather than following either major set of fractures.

A major northwesterly-trending structure has been inferred for at least nine kilometres along La Jaune Creek, marked by a prominent magnetic low. This structure appears to have controlled the emplacement of the Thorn Stock, which is elongated along it. Northwesterly-trending fracturing is common within the porphyry near La Jaune Creek, but no post-magmatic faulting has been observed or inferred at this orientation.

West of Camp Creek, altered porphyry of the Thorn Stock lies in fault contact with altered Stuhini Group andesites. A fault trending 010°/90° marks the contact on the northeast side of La Jaune Creek, is offset right-laterally by a second fault at 030°/90° along Gelb Creek and then forms the host structure for the Catto Vein further south, entirely within altered porphyry (Figure 5a). Post-mineral andesitic dykes (**$KTIN_3$**) follow both of these faults.

6.3 Alteration and Mineralization

The Thorn Stock is pervasively altered, with three main alteration styles recognized at the scale of mapping undertaken in 2000: intense sericite/clay; weak clay/sericite/chlorite and weak chlorite. In places, these alteration styles are zoned successively outward over a few tens of metres away from a mineralized vein or fault; elsewhere, the intense sericite/clay alteration covers areas hundreds of metres across, reflecting the coalescence of numerous vein/alteration systems.

The intense sericite/clay alteration is dominated by sericite, accompanied by up to 15% disseminated pyrite and variable amounts of clay minerals; pyrophyllite, dickite and possibly smectite were reported by Poliquin and Poliquin (1998). The sericite and clays completely replace feldspar and biotite phenocrysts and the matrix of the porphyry, which is still readily identifiable from the unaltered quartz phenocrysts and hexagonal casts of the biotite phenocrysts. The intense sericite/clay alteration produces vivid jarosite gossans; these are commonly steep-sided from slumping of clay-rich portions. All significant mineralization within the Thorn Stock is hosted by this style of alteration.

The intense sericite/clay alteration is flanked by a few metres or tens of metres of weak clay/sericite/chlorite alteration. This alteration, which is accompanied by 1-3% pyrite, affects the feldspar and biotite phenocrysts, but leaves them readily identifiable. Disseminated galena and sphalerite occur in the weak clay/sericite alteration flanking the B Zone, but precious metal values are low (e.g. 206833: 844 ppm Pb, 14 ppb Au). Despite its pyrite content, the clay/sericite/chlorite alteration weathers to a grey-brown, rather than the bright orange of the intense sericite/clay zone.

The remainder of the Thorn Stock is affected by weak chloritization of matrix and biotite phenocrysts, accompanied in places by calcite. Pyrite is absent, but disseminated specularite was noted in one location (#206835: 12 ppb Au). Rarely (e.g. #206846: 4 ppb Au), the feldspar phenocrysts are altered to a reddish carbonate; low manganese content indicates that it is not rhodochrosite.

Veining is abundant within intensely clay-sericite altered portions of the Thorn Stock and to a lesser extent within the intruded Stuhini Group andesites and clastics nearby. The vast majority of veins in the vicinity of the Thorn Stock strike between 060° and 100° and dip steeply (Appendix H). There is no regular spatial variation in vein orientation; instead, veins of diverging orientation are commonly located in close proximity, filling a complex system of dilational fractures. The overall structural controls on these vein systems have not been determined.

6.3.1 Veins within the Thorn Stock

Several styles of veining, all common in El Indio-type high-sulphidation systems, have been recognized within intensely clay-sericite altered portions of the Thorn Stock over an area of 1,600 x 1,900 metres. These include:

a) massive pyrite-enargite±tetrahedrite veins (e.g. MP Vein, Catto Vein);
b) quartz-pyrite-enargite-tetrahedrite±alunite veins and veinlets (e.g. Tamdhu Vein, I Zone, F

Plate 3: Weakly chloritized feldspar-quartz-biotite porphyry (**uKPO**$_1$).

Plate 4: Intensely sericite-clay-pyrite altered feldspar-quartz-biotite porphyry (**uKPO**$_1$).

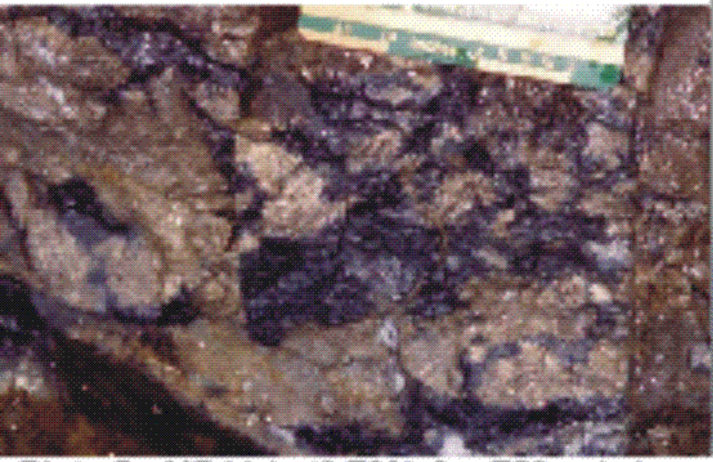


Plate 5: MP Vein (8.73% Cu, 750 ppb Au and 224 g/tonne Ag). Black seams of enargite/tetrahedrite in cream-coloured pyrite.

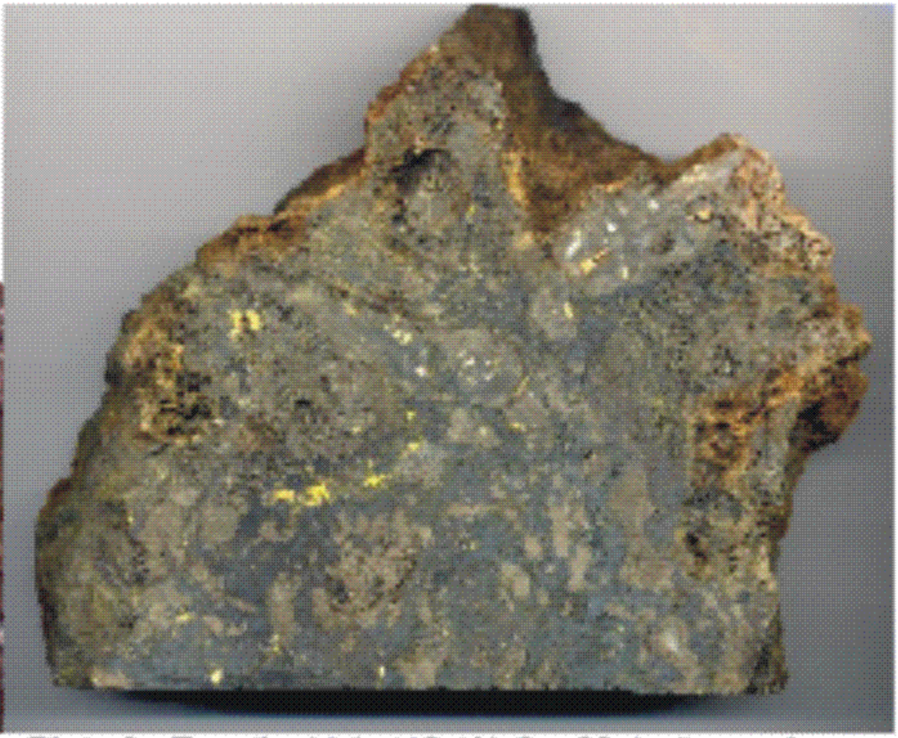


Plate 6: Tamdhu Vein (12.1% Cu, 22.1 g/tonne Au and 2414 g/tonne Ag). Dark grey enargite/tetrahedrite, light grey chalcedonic quartz and cream-coloured pyrite. Yellow patches of stained clay.

Plate 7: B Zone (0.08% Cu, 3.6 g/tonne Au and 44 g/tonne Ag). Looking northeasterly at main outcrop (target for drill holes 86-3 and 86-4). Resistant quartz breccia and veinlet swarm, flanked by sericite-clay-pyrite alteration.

Plate 8: B Zone. Vuggy silica after FQB porphyry, with anhedral voids after feldspar phenocrysts and euhedral voids after biotite phenocrysts. Note remnant quartz phenocryst in upper RHS corner. Cut by chalcedonic quartz veinlets.

Zone and L Zone);

c) sulphide-poor quartz±alunite breccia and stockwork veins with clasts of vuggy silica (e.g. B Zone).

The highest absolute Au and Ag levels are present in veining of type (b). The ratios of silver and base metals to gold decrease progressively from (a) to (c), along with increasing quartz; ratios of base metals to silver are more erratic, but also show a progressive decrease from (a) to (c). Table 6.3.1.1 gives metal ratios for well-mineralized samples from each vein.

Table 6.3.1.1
Metal Ratios (Veins in Thorn Stock)

Zone	Sample	Ag:Au	As:Au	Cu:Au	Pb:Au	Sb:Au	Zn:Au	As:Ag	Cu:Ag	Pb:Ag	Sb:Ag	Zn:Ag
a) MP	129057	299	44133	116400	1020	10973	3320	148	390	3	37	11
a) Catto	206828/29	125	8301	28774	269	1420	1288	67	231	2	11	10
b)Tamdhu	206817/18	77	1007	2998	29	619	37	13	39	0.4	8	0.5
b) I	206841	42	236	575	280	334	59	6	14	7	8	1.4
b) F	206656	85	162	680	395	373	252	2	8	5	4	3
b) L	206808	44	1435	3807	24	970	534	32	86	0.5	22	12
c) B	206811	22	95	137	41	110	41	4	6	2	5	2

Metallic mineralogy within the veins is fairly complex (Appendix D). Pyrite is ubiquitous, as massive aggregates and in veinlets cutting enargite. Tetrahedrite (which has been shown to be tennantite in at least the I Zone by SEM work), is commonly intergrown with enargite. In one thin section (#129057-MP Vein), enargite forms inclusions in tetrahedrite; this could show contemporaneous deposition or replacement of pre-existing enargite by tetrahedrite. In the Catto Vein, enargite forms veinlets which cut pyrite, but which are in turn cut by pyrite veinlets, indicating multiple stages of pyrite deposition. There are no inclusions in pyrite, but tetrahedrite hosts inclusions of a variety of metallic minerals: stannite (Cu_2FeSnS_4), chalcopyrite, galena, covellite, a Ag-telluride and possibly getchellite ($AsSb_3$). Inclusions of stannite, galena, chalcopyrite and hübnerite ($MnWO_4$) are present in enargite. Acanthite-argentite (Ag_2S) rims galena and lines vugs. Pearcite-polybasite [$Ag_{16}As_2S_{11}$-$(Ag,Cu)_{16}Sb_2S_{11}$] was noted only in the Tamdhu Vein, lining vugs. No petrographic descriptions were made of F Zone mineralization, but a variably reddish tinge to the streak of enargite-tetrahedrite in some silver-rich samples suggests the presence of pyrargyrite-proustite [$Ag_3(Sb,As)S_3$].

MP Vein:

The MP Vein is a 50 centimetre wide pyrite-enargite-tetrahedrite vein exposed in a small outcrop "island" surrounded by the boulders of Camp Creek, just above its junction with La Jaune Creek (Figure 5a). It may form part of a wider vein system, covered by the creek alluvium. The MP Vein is composed of massive medium-grained pyrite cut by irregular 1-10mm enargite-tetrahedrite seams and containing pockets of quartz. Petrographic analysis shows the presence of diaspore with the quartz, and minor chalcopyrite, galena, stannite and covellite as inclusions within tetrahedrite (Appendix D, 129057) Precious and base metal values do not extend into the vein's sericitized porphyry wallrock. Airborne EM conductors 60, 170, 280 and 380 metres east along strike indicate the possible strike extension of the MP Vein.

Table 6.3.1.2
MP Vein Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
129057[1]	0.5	750	224g/t	33100	8.73%	765	8230	2490
129059[1]	Select	874	285g/t	42500	11.00%	1030	9570	2740
206801[2]	0.7	23	1.9	98	40	269	10	153

[1]MP Vein [2]Hanging wall to MP Vein

Catto Vein:

The Catto Vein comprises massive pyrite, enargite and tetrahedrite in a matrix of white sericite, located within fine-grained FQB porphyry (**uKPO₂**) a few metres east of its fault contact with Stuhini Group andesite (Figure 5a). The Catto Vein is recessive; on surface, it lies hidden under a thin veneer of dirt in a recent slump. The surface exposure was dug out by hand over a true width of 2.25 metres without exposing its eastern edge. To the west, its contact with the host FQB porphyry indicates that it trends 010°/80°E, an unusual trend for veining in the area. Hole 86-6 probably hit the Catto Vein about 50 metres north along strike and 80 metres downdip from its surface exposure, intersecting 2.8 metres (~1.7 metres TW) grading 4.0% Cu, 1.9 g/tonne Au and 156 g/tonne Ag. In the drill hole, the Catto Vein appears to fill a fault zone; 320 metres to the north across La Jaune Creek, the fault(?) contact between Stuhini andesite and the porphyry also trends 010°, apparently the continuation of the same recessive fault.

Table 6.3.1.3
Catto Vein Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206828	1.15	0.93g/t	99.5g/t	5451	1.68%	335	1070	1359
206829	1.10	1.20g/t	166g/t	12299	4.49%	232	1960	1371
Wt. Avg.[1]	*2.25*	*1.06g/t*	*132g/t*	*8799*	*3.05%*	*285*	*1505*	*1365*

[1]Weighted average of 206828 and 206829

Tamdhu Vein:

The Tamdhu Vein is exposed on the jarosite bluffs across from the junction of Camp and La Jaune Creeks (Figure 5a). Numerous boulders of massive sulphides and vein quartz have rolled down onto the gravel bar at the base of the cliffs, including float sample 206814. The main exposure of the vein trends 080°/50°S, consisting of 90 cm of semi-massive pyrite-enargite-tetrahedrite and 120 cm of chalcedonic quartz with lesser sulphides. A second quartz-pyrite vein 5m to the south (sample 206815) strikes roughly parallel, but dips steeply to the north. Thirty metres along strike to the west, sample 206634 was taken from the western extension of the Tamdhu Vein, with the same strike and dipping steeply to the south.

The petrographic description for sample 206814 (Appendix D) shows the presence of minor to trace amounts of stannite, stibnite, acanthite-argentite, pearcite-polybasite, hübnerite, galena and a Ag-telluride, mainly associated with tetrahedrite and enargite.

Table 6.3.1.4
Tamdhu Vein Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206634[1]	2.0	3.22g/t	380g/t	3482	0.83%	371	6288	863
206814	Float	22.13g/t	2414g/t	38103	12.05%	162	29314	3502
206815[2]	0.9	2.73g/t	51.6g/t	289	0.07%	320	300	51
206817[1]	0.9	5.31g/t	400g/t	7790	2.50%	133	3729	326
206818[1]	1.2	3.31g/t	260g/t	1510	0.32%	115	1718	27
Wt. Avg.[3]	*2.1*	*4.17g/t*	*320g/t*	*4201*	*1.25%*	*123*	*2580*	*155*

[1]Tamdhu Vein [2]Parallel vein and altered wallrock
[3]Weighted average of 206817 and 206818

Jarosite Bluffs:

The jarositic bluffs across from the junction of Camp and La Jaune Creeks are pervasively altered and pyritized; in addition to the Catto and Tamdhu Veins, several narrower veins and systems of sheeted veinlets were sampled (Figure 5a). Two sets of sheeted veinlets were sampled from immediately east of Gelb Creek. Sample 206824 included three parallel clay-pyrite-enargite-tetrahedrite veinlets; it was the target of diamond drill hole 86-6. Between it and the Catto Vein, sample 206826 included two quartz-pyrite-enargite-tetrahedrite veinlets and a scorodite-stained fault slip; its wallrock lacked the veining and the sulphosalt content, but still assayed 0.85 g/tonne Au. Three gold- and silver-rich cobbles of massive enargite-tetrahedrite were sampled from Gelb Creek; they could be derived from the Catto Vein, either of the sheeted veinlet zones described above or other zones as yet undiscovered in this fertile area.

Table 6.3.1.5
Other Jarosite Bluff Veins

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
129060	Float	13.84g/t	2900g/t	>50000	32.80%	1995	>10000	1945
129062	Float	5000	564g/t	>50000	16.50%	1325	>10000	2360
129063	Float	4100	391g/t	42600	8.61%	435	>10000	145
206632	1.0	2.15g/t	59.4	607	3082	169	180	93
206633	0.15	1.46g/t	113g/t	3299	1.08%	0.62%	1231	0.97%
206637	N/A	5.04g/t	311g/t	8584	2.47%	1017	1703	3030
206824	0.95	1.24g/t	127g/t	8764	1.91%	476	3692	377
206826[1]	0.9	4.45g/t	306g/t	4933	1.22%	1613	11896	1732
206827[2]	0.75	0.85g/t	28.3	279	99	113	532	37
Wt. Avg.[3]	*1.65*	*2.81g/t*	*180*	*2818*	*6700*	*931*	*6730*	*962*

[1]Includes two parallel quartz-pyrite-sulphosalt veinlets
[2]Adjacent to 206826, without veinlets
[3]Weighted average of 206826 and 206827

I Zone:

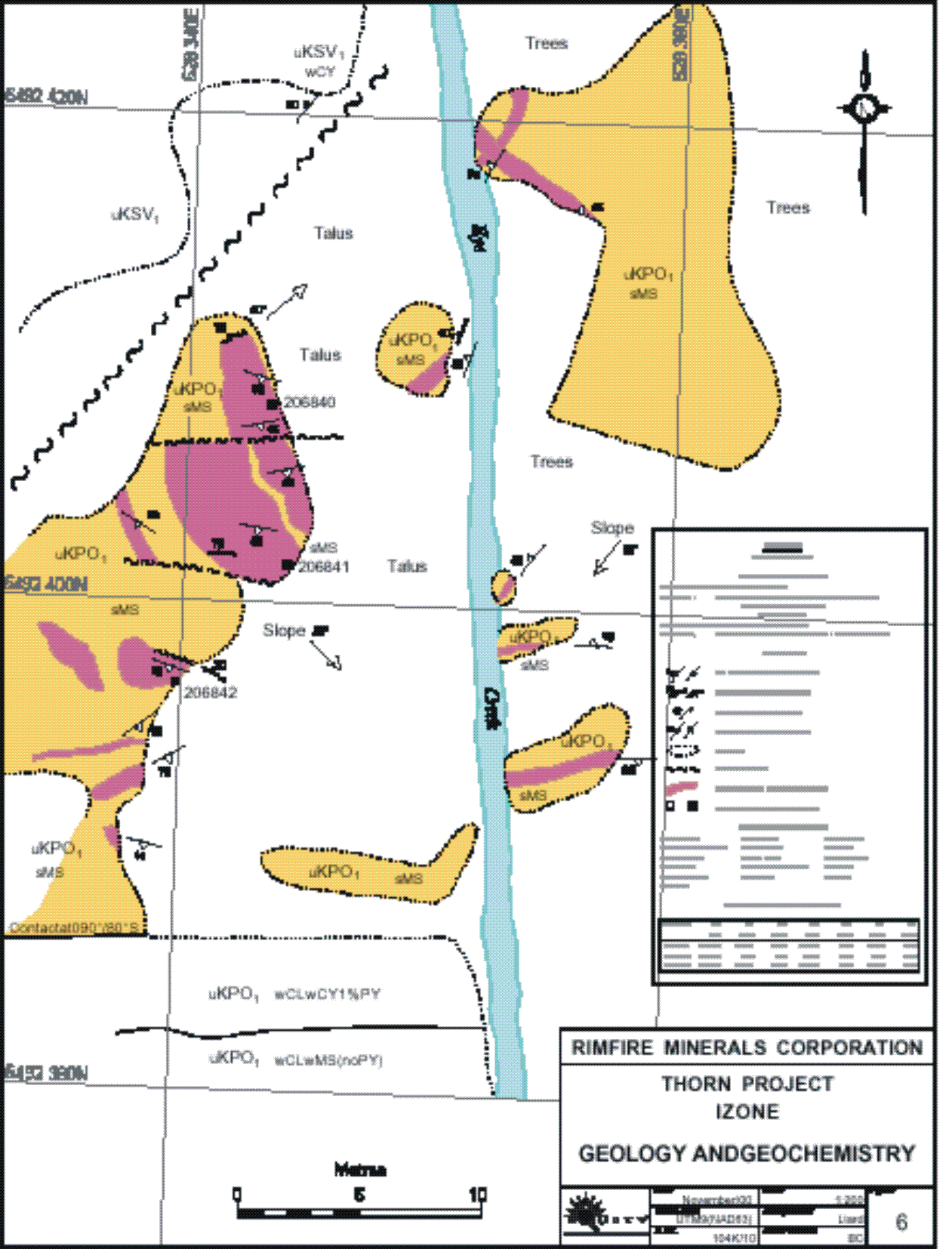
The I Zone is located on Eye Creek, about 360 metres above its junction with Camp Creek (Figure 5b). It is comprised of numerous subparallel quartz-pyrite-tennantite veinlets in intensely sericitized and pyritized FQB porphyry (Figure 6). Most veins strike 070°-100° and dip 40°-75° to the south; a few strike 200°-220° and dip 40°-70° to the northwest. Individual veins range up to 1.5 metres in width; the entire zone would average about 10% veining across a true width >25 metres (note that the proportion of veining is exaggerated in Figure 6, because the veins form resistant dip-slope outcrops). To the south, the intensely sericitized and veined I Zone transitions through a few metres of weakly altered porphyry into relatively fresh, non-pyritic porphyry. The northwestern edge of the I Zone exposure is bounded by a fault which juxtaposes it with little-altered andesitic lapilli tuffs (**uKSV$_1$**). To the east, the strike extent of the I Zone is unknown, since it disappears under heavy vegetation within a few metres of Eye Creek.

Table 6.3.1.6
I Zone Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206840	0.7	4.17g/t	256g/t	4893	1.20%	573	5492	212
206841	1.5	1.79g/t	74.8	422	1029	501	598	106
206842	0.7	9.28g/t	760g/t	1219	0.30%	635	1973	187

F Zone:

The F Zone was prospected but not mapped in 2000; it lies within a prominent jarositic gossan in Camp Creek about 1,000 metres above its mouth (Figure 5a). Anaconda had described it as a “quartz vein which can be traced for 850 feet, strikes east-west and varies in width from five to thirty-five feet with a number of bulbous sections and offshoots” (Adamson, 1964). The 2000 prospecting could not



uKSV1
wCY
uKSV1
Trees
Talus
Talus
Talus
Trees
Trees
Slope
Slope
uKPO1
sMS
206840
206841
206842
Creek
Contactat090°/80°S
uKPO1 wCLwCY1%PY
uKPO1 wCLwMS(noPY)
Metres
0
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RIMFIRE MINERALS CORPORATION
THORN PROJECT
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6

confirm either the reported strike-length or widths, but one vein was traced for 90 metres with widths up to 1.2 metres. A second vein, or offset of the first, was sampled 350 metres downstream in Camp Creek (#206663); it extends northeasterly for several tens of metres up the canyon wall. Numerous other gold-bearing samples were taken from other veins and altered zones in the F Zone area.

Table 6.3.1.7
F Zone Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206649	0.15	1.18g/t	431g/t	4580	1.24%	2952	4131	1760
206651	0.15	2.79g/t	911g/t	789	0.22%	7491	2282	2.12%
206652	0.15	1.43g/t	396g/t	5510	1.76%	2667	6584	1442
206653	Float	1.21g/t	78g/t	1000	0.08%	8608	831	3.86%
206654	0.2	1.79g/t	102g/t	383	0.16%	2179	706	0.71%
206655	1.0	2.81g/t	113g/t	404	0.11%	955	1052	683
206656	1.2	4.56g/t	389g/t	739	0.31%	1801	1699	1147
206657	0.05	1.83g/t	310g/t	4040	0.87%	2619	4786	2451
206658	0.5	1.48g/t	328g/t	10516	2.94%	6361	21535	0.42%
206662	0.75	1.94g/t	79.8	978	1314	227	1145	53
206663	0.2	1.42g/t	189g/t	1971	0.56%	754	2216	0.42%

L Zone:

Narrow quartz-pyrite-enargite-tetrahedrite veins are hosted by intensely sericitized and locally silicified FQB porphyry in Camp Creek about 300 metres above its mouth (Figure 5a). Alunite is present as patches within the veins, elongated parallel to the vein walls. Either specularite or pyrargyrite appears to be intimately mixed with the enargite/tetrahedrite, giving it a streak which ranges from black to blood red; given the high silver contents of L Zone veining, it seems likely to be pyrargyrite. The highest grade samples were taken from angular float coming down a small draw from the south side of the creek; their source is not likely to be far uphill.

Table 6.3.1.8
L Zone Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206601	0.15	7.45g/t	713g/t	8645	1.45%	0.27%	7449	2836
206602	1.0	6.36g/t	295g/t	1224	0.24%	0.57%	3159	3.57%
206607	Float	19.48g/t	1635g/t	67030	17.35%	559	26146	3764
206608	0.05	7.93g/t	1397g/t	32000	6.39%	716	25507	492
206808	Float	24.14g/t	1067g/t	34651	9.19%	584	23422	1.29%

M Zone:

Anaconda reported several quartz float boulders with finely disseminated tetrahedrite, enargite and pyrite on the slopes north of Camp Creek (Figure 5a). One of the boulders assayed 18.2 g/tonne Au, 296 g/tonne Ag and 0.27% Cu (Adamson, 1964). Anaconda carried out hand-trenching without finding their source. These boulders were not located during the 2000 program.

D Zone:

Anaconda reported massive sulphide boulders in slide debris above La Jaune Creek, about 100 metres southeast of the Tamdhu Vein and on strike to the west of the B Zone (Figure 5a). "Mineralization consists primarily of pyrite with appreciable tetrahedrite, enargite and minor luzonite-famatinite"; a sample assayed 8.45% Cu, 21.9 g/tonne Au and 311 g/tonne Ag (Adamson, 1964). The D Zone was not examined during the 2000 program.

B Zone:

The B Zone is exposed on surface as a resistant 1-3 metre wide zone of quartz breccia and coalescing quartz veinlets, which outcrops along 40 metres (Figure 5a). Wallrock fragments of FQB porphyry within the quartz breccia have been altered to vuggy silica with remnant quartz phenocrysts or been argillized and alunitized. Hole 86-3, drilled under the eastern end of the main outcrop, intersected 7.8 metres (~5.5 metres TW) grading 3.6 g/tonne Au and 44 g/tonne Ag, with only 0.08% Cu. Sulphide content in the main showing and in the drill holes under it is generally less than 1%, although subcrop and trench samples from its eastern extension contain up to 15% pyrite, enargite and tetrahedrite. The B Zone can be traced intermittently for 260 metres along strike, trending 070°/85°S, with several right-lateral offsets of a few metres.

Table 6.3.1.9
B Zone Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206613	Float	1.79g/t	18.7	72	109	213	57	2433
206614[1]	1.5	3.26g/t	74.1	124	33	246	256	44
206615[2]	4.5	3.12g/t	93.1	193	81	143	393	60
206616[3]	1.0	1.41g/t	41.5	515	1065	87	367	302
206617[4]	1.5	8.13g/t	286g/t	638	641	239	1213	35
206618[4]	Float	6.78g/t	431g/t	12865	2.46%	262	4747	959
206811[3]	3.0	3424	76.4	326	468	139	378	142

[1]Hanging wall to quartz breccia/vein
[2]Footwall to quartz breccia/vein
[3]B Zone quartz breccia/vein
[4]Eastern extension of B Zone

C Zone:

Anaconda reported a vein showing in Sea Creek (Figure 5a) of “black smoky quartz, likely reflecting very finely diffused tetrahedrite”. Four of their samples averaged 0.15% Cu, 0.4 g/tonne Au and 51 g/tonne Ag (Adamson, 1963). The C Zone was not examined during the 2000 program.

West Zone:

Anaconda investigated an area of anomalous copper in soil geochemistry between Hook and Bramble Creeks on the hillside west of La Jaune Creek (Figure 5a). They reported “a number of small erratic copper seams and random blebs in the quartz-feldspar porphyry country rock”. This area was not investigated by mapping or prospecting in 2000, and is near the southwestern extremity of the soil grid.

J Zone:

The J Zone was reported by Anaconda in Hook Creek on the slope west of La Jaune Creek (Figure 5a). “Mineralization consists of low grade disseminated chalcopyrite with much pyrite in a well altered intensely sheared porphyry. The trend of this shearing is on strike with the strong fault structure that cuts across the A Zone and possibly may be its extension.” No work was done in this area in 2000.

Other Veins within the Thorn Stock:

A few isolated gold-bearing samples were taken from veining away from the zones described above. Sample 206659 was taken from a vein in Camp Creek about 200 metres above the F Zone (Figure 5a). Sample 206802 was from a narrow vein 120 metres west of the L Zone, north of Camp Creek. Sample 206831 was taken from an isolated outcrop of FQB porphyry in Bramble Creek, immediately below its contact with Stuhini andesitic volcanics. Finally, sample 206837 was taken across a narrow vein near the mouth of Amarillo Creek. These samples extend the demonstrated extent of quartz-pyrite-enargite-tetrahedrite veining in the Thorn Stock to 1,600 metres NE-SW by 1,900 metres NW-SE.

Table 6.3.1.10
Other Veins within the Thorn Stock

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206659	0.5	654	18.9	1830	86	5802	1506	3539
206802	0.14	581	92.9g/t	4953	1.62%	276	2418	2802
206831	1.0	0.83g/t	23.9	1750	3624	44	395	239
206837	0.15	1.40g/t	51.9g/t	3930	1.22%	89	765	72

6.3.2 Veins near the Thorn Stock

Within a few hundred metres of the Thorn Stock, the intruded Stuhini Group is weakly altered and hosts veins which differ markedly in mineralogy from those within the Thorn Stock:

a) fault-hosted quartz-carbonate-arsenopyrite-chalcopyrite-pyrite veins (e.g. G Zone, Whiz Vein);
b) sulphide-bearing shear zones (e.g. E Zone);
c) fault-hosted quartz-barite-chalcopyrite veins (e.g. A Zone).

The first style of veining is quite common in the vicinity of Gelb Creek, which is also the locus of much of the stock-hosted veining. It is as though the same fluids depositing Cu and As as enargite and tetrahedrite in the high-sulphidation environment within the porphyry were buffered by the Stuhini Group mafic volcanics, so that they deposited Cu and As as chalcopyrite and arsenopyrite outside it. Table 6.3.2.1 shows ratios of base to precious metals for the veins peripheral to the Thorn Stock.

Table 6.3.2.1
Metal Ratios (Veins Peripheral to Thorn Stock)

Zone	Sample	Ag:Au	As:Au	Cu:Au	Pb:Au	Sb:Au	Zn:Au	As:Ag	Cu:Ag	Pb:Ag	Sb:Ag	Zn:Ag
a) G	206641	2	953	50	45	23	65	610	32	29	15	41
a) Whiz	206644	19	2984	1614	258	14	174	156	84	13	0.7	9
b) E	206638	5265	6505	139939	206505	454	22284	1.2	27	39	0.09	4
c) A[1]	206845	613	1901	725352	1690	211	986	3	1184	3	0.3	2
c) A[2]	206844	41	705	1088	598	64	402	17	26	14	1.6	10

[1]Quartz-barite-sulphide portion of vein [2]Massive pyrite portion of vein

Gee Creek - Gelb Creek Area:

The G Zone is a quartz-carbonate-sulphide vein in Gee Creek about 400 metres upstream from its mouth in La Jaune Creek (Figure 5a). It lies within an erratically mineralized fault zone which strikes 103°/48°S, cutting through argillite and pillow basalt and reaching widths up to 2.0 metres. Several similar but narrower quartz-carbonate-sulphide veins, including the Whiz Vein, are present in the 400 metres south of the G Zone to the contact between the Stuhini Group rocks and the Thorn Stock.

Table 6.3.2.2
Gee Creek - Gelb Creek Mineralization

Sample Number	Sample Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206636	0.5	2.24g/t	208g/t	3963	3.34%	0.52%	22	1.22%
206641[1]	2.0	57.38g/t	89.7	54689	2868	2601	1301	3722
206642[1]	0.5	26.52g/t	322g/t	19696	0.17%	0.57%	629	896
206643[2]	0.65	505	8.9	2519	749	142	33	558
206644[2]	Select	1238	23.7	3695	1998	319	17	216
206820	0.12	654	20.5	459	1986	17	365	73

Table 6.3.2.2 (continued)
Gee Creek - Gelb Creek Mineralization

Sample Number	Sample Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206821	Float	726	238g/t	3468	0.12%	7.50%	98	24.35%
206830	0.08	3.01g/t	6.5	16568	467	957	47	5749

[1]G Zone [2]Whiz Vein

E Zone:

The E Zone, located in Gelb Creek, was described by Anaconda as a northerly-trending shear zone mineralized with chalcopyrite, pyrite and quartz, located within andesite near its contact with the FQB porphyry. Their chip sampling graded 0.95% Cu, 0.28 g/tonne Au and 15.5 g/tonne Ag across 6.7 metres. They reported that the zone was exposed 30 metres further down Gelb Creek, but with lower grades (Adamson, 1964-65). Sample 206638, taken from a variably mineralized shear zone trending 008°/88°E in andesite, may have been taken from this lower exposure. It appears likely that this shear zone is the strike extension of the Catto Vein structure into the andesitic volcanics.

Table 6.3.2.3
E Zone Mineralization

Sample Number	Sample Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206638	0.4	132	696g/t	860	12878	1.85%	2.73%	60	2946

A Zone:

The A Zone was only examined in one location in 2000, an impressive exposure where it crosses Eh Creek immediately south of the Thorn Stock (Figure 5a). At this spot, a 4.0 metre wide quartz-barite vein, with spotty pyrite and chalcopyrite, cuts across the creek, forming a small waterfall. It follows a fault zone trending 125°/80°S which separates Stuhini Group andesite (**$uTMV_4$**) to the southwest from well-bedded clastics (**$uTMS_1$**) to the northeast. Flanking the quartz-barite vein to the northeast is a 1.25 metre vein of brecciated massive pyrite with strikingly different metal ratios, raising the possibility that it represents a separate mineralizing pulse emplaced along the same fault structure. The A Zone was discovered by Anaconda, who drilled 250 metres in 8 short holes, testing it with mixed success along 120 metres of strike length to the southeast of Eh Creek (Adamson, 1963-65).

Table 6.3.2.3
A Zone Mineralization

Sample Number	Sample Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206844[1]	1.25	1.28g/t	52.8	903	1392	765	82	514
206845[2]	4.0	14	8.7g/t	27	1.03%	24	3	14
Wt. Avg.[3]	*5.25*	*315*	*19.2*	*236*	*8179*	*200*	*22*	*133*

[1]Massive pyrite vein [2]Quartz-barite vein [3]Weighted average of 206844 and 206845

H Zone:

The H Zone is a “narrow outcrop of chalcopyrite mineralization” within andesite, immediately above the mouth of the next northeasterly-flowing creek below Gee Creek (Adamson, 1964). It was not investigated in 2000.

6.3.3 Other Showings

Elsewhere on the Thorn property, several other mineral occurrences of a variety of styles have been explored to differing extents in the past, including diamond drilling in the Outlaw area and on the porphyry Cirque Zone (Figure 4). Work in these two areas was limited to reconnaissance traverses in

2000. A new showing, the Bungee Zone, was discovered by following up an airborne geophysical conductor and mineralized float. Table 6.3.3.1 gives representative metal ratios for the examined zones.

Table 6.3.3.1
Metal Ratios (Other Showings)

Zone	Sample	Ag:Au	As:Au	Cu:Au	Pb:Au	Sb:Au	Zn:Au	As:Ag	Cu:Ag	Pb:Ag	Sb:Ag	Zn:Ag
Cirque	206812	41	388	20122	510	245	816	10	493	13	6	20
Bungee	206503	84	550	890	421	405	19871	7	11	5	5	236
Outlaw	206509	6	1879	397	339	105	175	309	65	56	17	29

Cirque Zone:

The Cirque Zone is centred about four kilometres east of the heart of the Thorn's high-sulphidation epithermal system, located just above treeline on the relatively gentle slope south of Camp Creek (Figure 4). Anaconda mapped andesitic and rhyolitic volcanics (**uKSV**) intruded by diorite (**KTIN$_4$**). Quartz veinlets and pods with pyrite, chalcopyrite and molybdenite are associated with potassically altered syenite, syenite porphyry and breccia which cut the diorite. Anaconda drilled 889 metres on the Cirque Zone in eight holes; the best intersection graded 0.19% Cu and 0.07% MoS_2 across 10.7 metres in hole C65-4 (Adamson, 1965b).

Table 6.3.3.2
Cirque Zone Mineralization

Sample Number	Sample Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206812	3.0	49	2.0	19	986	28	25	12	40

Outlaw Zones:

A strong Au+As+Sb+Ag+Pb+Zn soil geochemical anomaly covers 400 x 2,000 metres of alpine terrain approximately five kilometres southeast of the Thorn high-sulphidation veins and three kilometres south of the Cirque Zone (Figure 4). The airborne geophysical survey showed this anomaly to coincide with an east-west resistivity low with scattered electromagnetic conductors. Previous mapping showed the soil anomaly to be underlain by a sedimentary package of argillite, sandstone, grit, chert and minor limestone (**lJTF**), variously interpreted as Permian (Souther, 1971), Upper Triassic (Cann and Lehtinen, 1991) and Lower Jurassic (Walton, 1984). They have been strongly hornfelsed by a biotite-hornblende granodiorite stock (**KTIN$_4$**) which intrudes them to the north, but it is not clear whether hornfelsing preceded, accompanied or followed mineralization. Highly fractured and altered felsic dykes (**KTIN$_4$**), including aphanitic, aphyric and feldspar±quartz porphyry varieties, are found throughout the soil anomaly, trending roughly parallel to it at 285° and dipping 48-65° to the north. Quartz-sulphide veining has previously been reported from various locations within the soil geochemical anomaly. A 75 x 200 metre zone of clay alteration (the "Clay Zone"), with quartz-galena-arsenopyrite-pyrite veining, was drilled by four holes along a single section by Chevron; their best intersection assayed 8.3 g/tonne Au across 0.95 metres (Walton, 1987). Limited prospecting in 2000 was directed at investigating airborne electromagnetic conductors.

Table 6.3.3.3
Outlaw Zones Mineralization

Sample Number	Sample Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206504	Float	372	1.6	56	10	30	8	129
206505	1.0	885	5.2	280	195	22	29	1208
206506	N/A	249	1.7	276	34	144	10	734
206508	Float	170	3.3	1360	82	16	38	95
206509	Float	773	4.7	1453	307	262	81	135

Bungee Zone:

Airborne geophysics showed a strong electromagnetic conductor and coincident magnetic high near a ridgeline at 1900 metres elevation between the Outlaw Zones and the Cirque Zone (Figure 4). Prospecting showed that it corresponds to one of two zones of semi-massive to massive pyrrhotite with minor quartz and epidote which lie along the upper and lower contacts of a limestone (**$uTSF_1$**) bed. The pyrrhotite is hosted within the adjacent argillite (**$uTSF_2$**), apparently as a skarn or replacement. Both pyrrhotite bodies dip moderately to the south; the upper one appears to be 10-20 metres thick and the lower one about 2 metres thick. Precious metal values are low, although arsenic and zinc are locally elevated.

Table 6.3.3.4
Bungee Zone Mineralization

Sample Number	Sample Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206501	N/A	17	8.6	16	24	76	24	1104
206502	N/A	10	6.7	1239	64	49	23	9547
206503	N/A	62	5.2	34	55	26	25	1228
206847	Float	158	4.8	158	49	169	30	921

K Zone:

Anaconda reported a 1.8 metre wide quartz-stibnite vein outcropping for 40 metres in a tributary of Camp Creek, two kilometres northwest of the Cirque Zone (Figure 4). The vein is hosted by rhyolitic flows and pyroclastics (**uKSV**), trends 150°/55°W and contained “no values” in gold or silver (Adamson, 1964).

P Zone:

Anaconda reported that low-grade and erratic chalcopyrite is widely disseminated in quartz diorite (Adamson, 1965a), west of La Jaune Creek on the Stuart 3 claim (Figure 4).

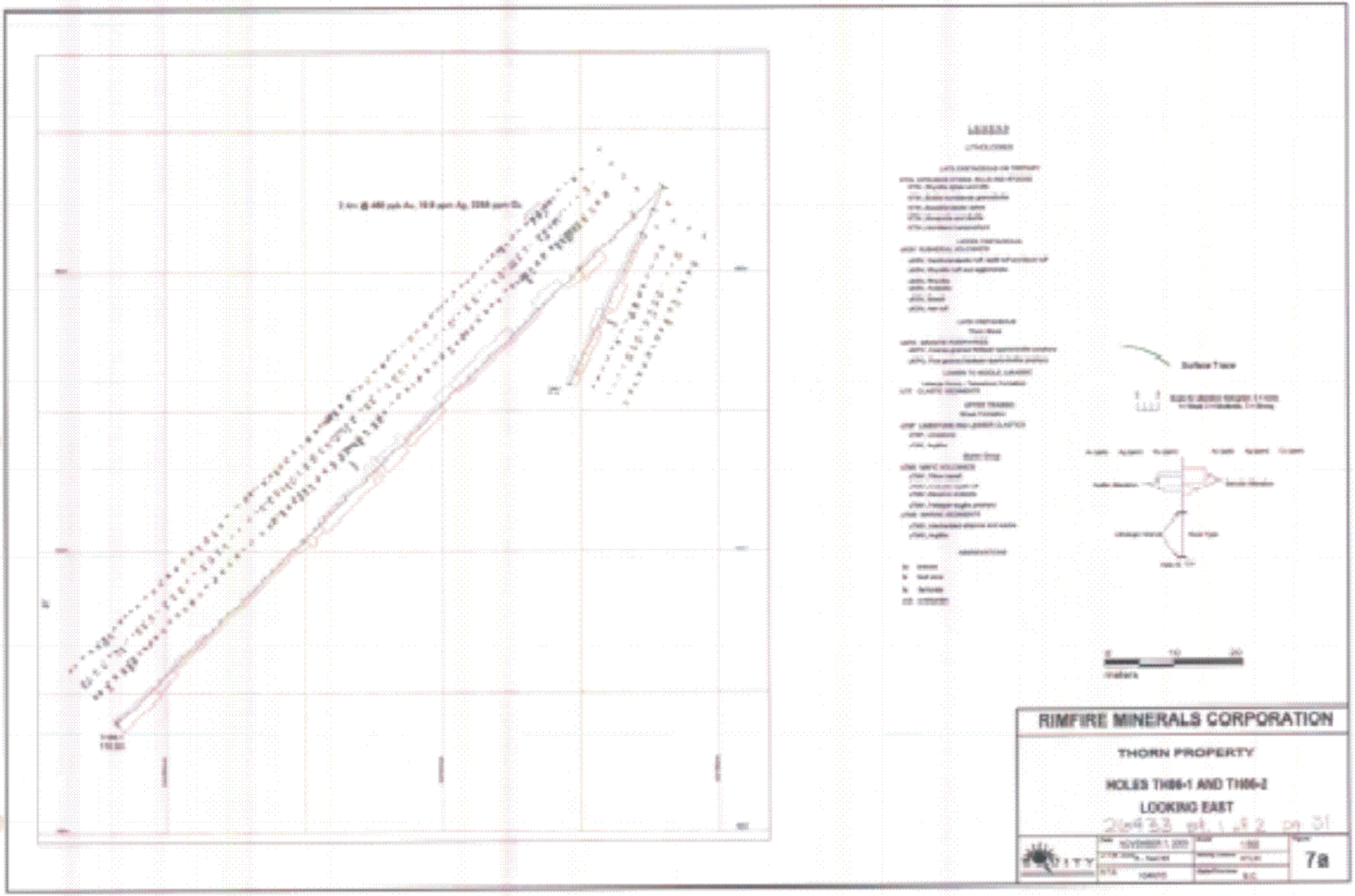
Q Zone:

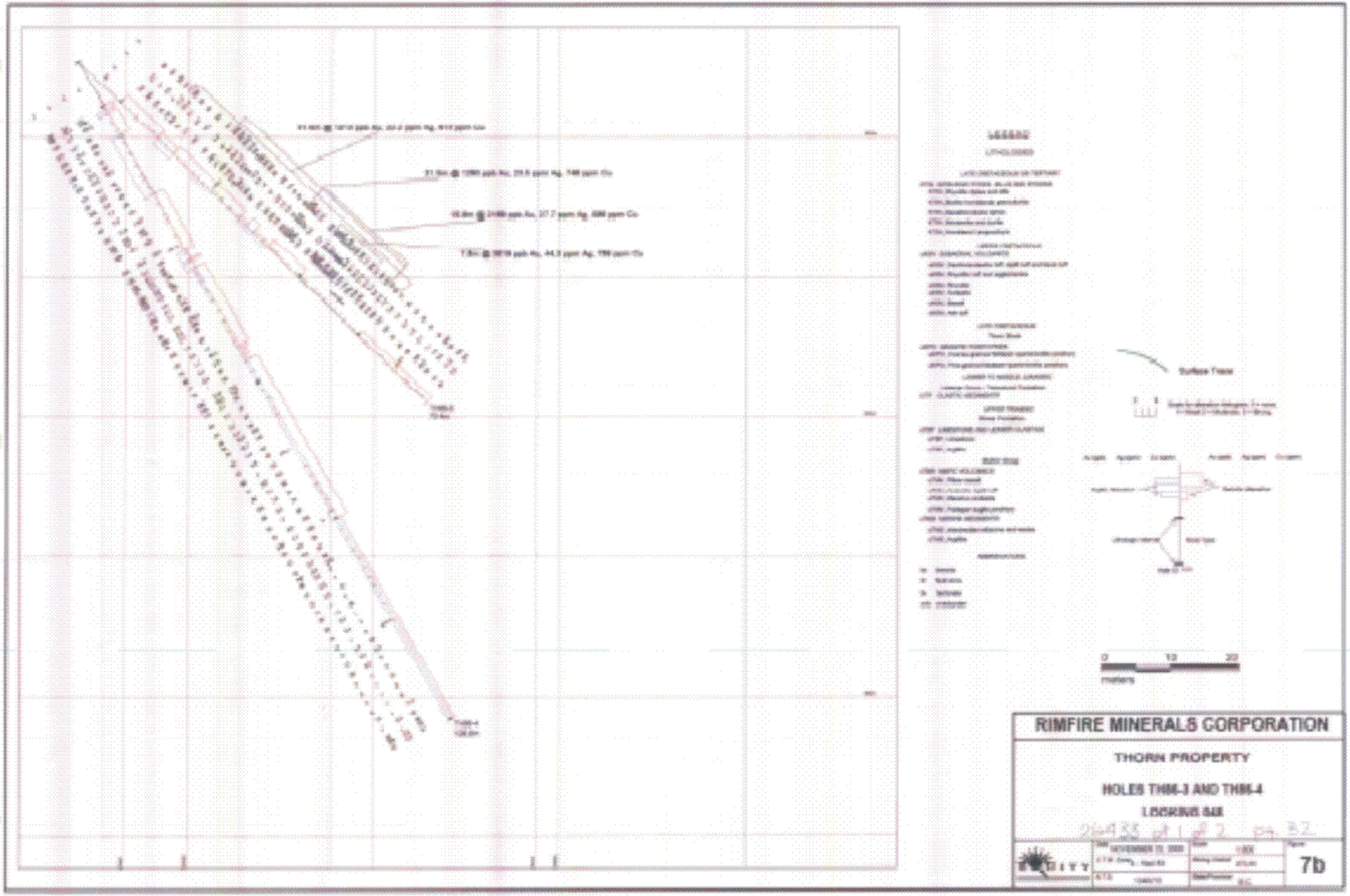
“Very low-grade disseminated chalcopyrite occurs in a rhyolitic flow rock” (Adamson, 1965a) in a small northerly-flowing tributary of Camp Creek, about 1,200 metres northwest of the Cirque Zone (Figure 4).

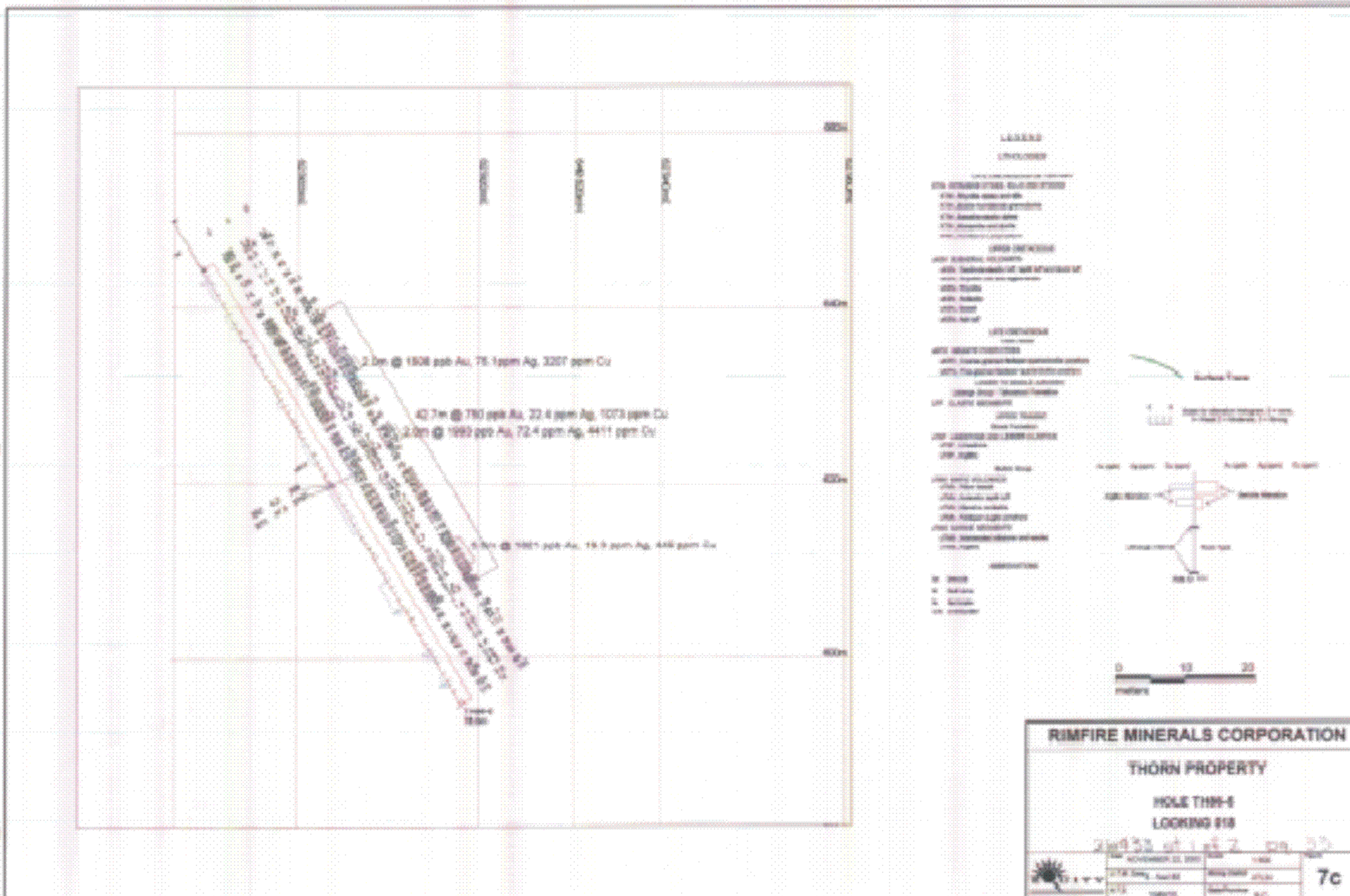
6.4 1986 Core Re-Logging and Sampling

The 1986 drilling was directed primarily at the B Zone, with hole 86-6 intersecting the Catto Vein and holes 86-7 and 86-8 drilled blind under a heavily vegetated area (Figures 5a, 7a-7e). Most of the holes were drilled entirely within the FQB porphyry, although hole 86-6 passed through a fault into Stuhini andesitic volcanics. Alteration was generally intense clay-sericite-pyrite, although some holes (especially 86-4) passed into weak clay-sericite alteration (Appendix E.1).

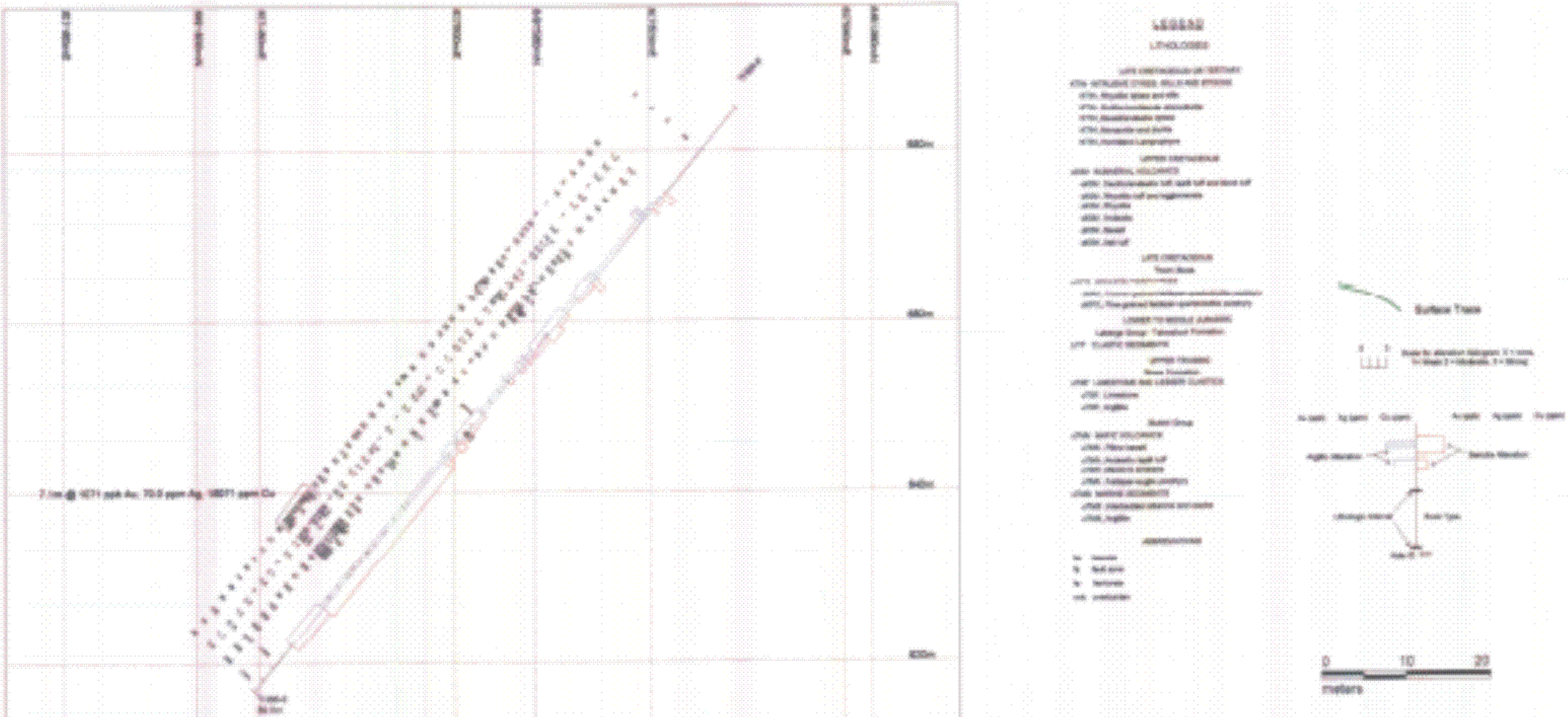
The 1986 holes have now been completely split and sampled. Sampling in previous programs had often overlapped, so the 2000 sampling was laid out to minimize the amount of core quartering necessary to obtain complete analytical results for each hole (Appendix E.2). Table 6.4.1 summarizes mineralized intersections for each hole; As, Sb, Pb and Zn are omitted because of incomplete data from previous sampling campaigns.


Surface Trace
metres
RIMFIRE MINERALS CORPORATION
THORN PROPERTY
HOLES TH06-1 AND TH06-2
LOOKING EAST
7a


Surface Trace
0 10 20
meters
RIMFIRE MINERALS CORPORATION
THORN PROPERTY
HOLES TH86-3 AND TH86-4
7b



meters
RIMFIRE MINERALS CORPORATION
THORN PROPERTY
7c

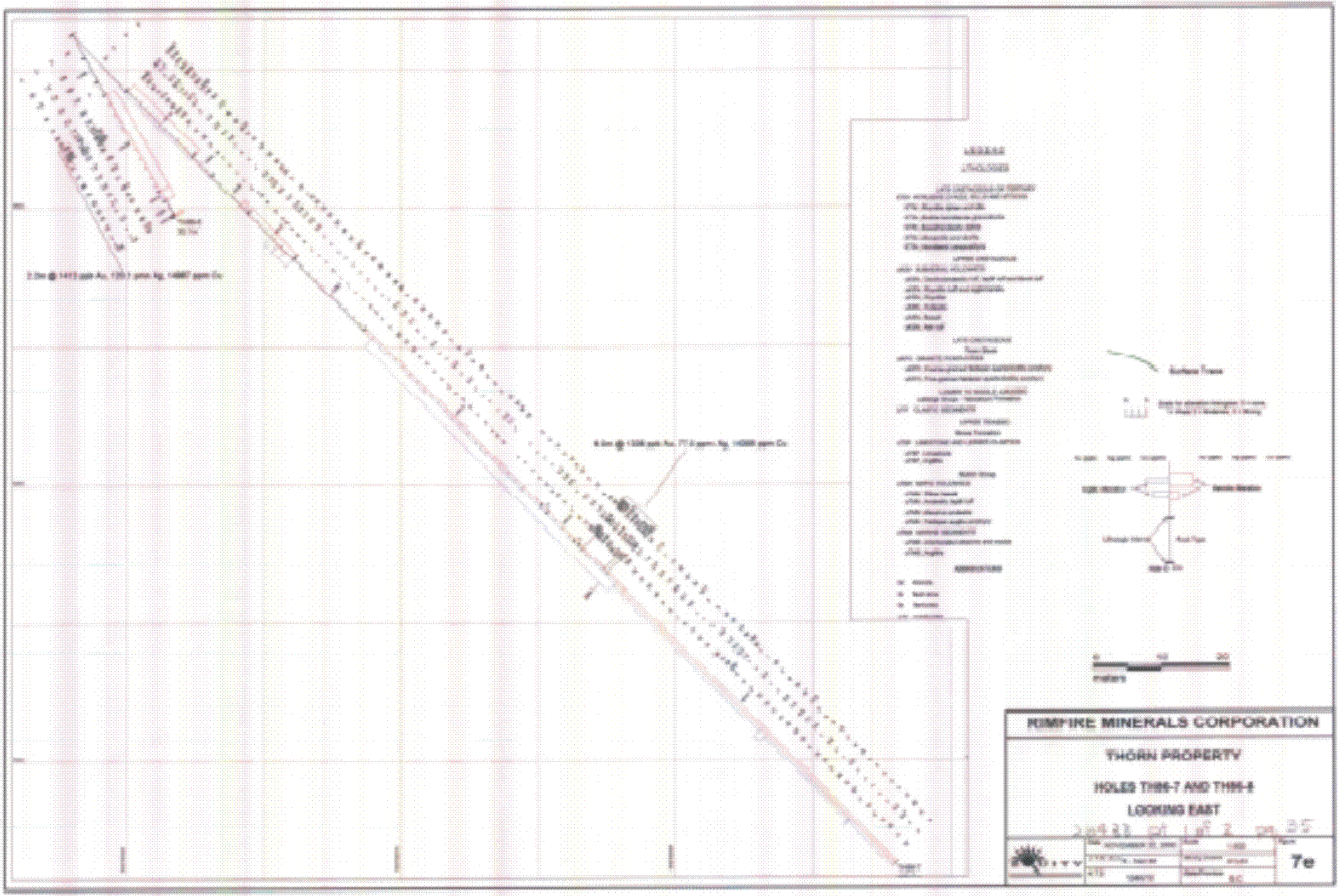


RIMFIRE MINERALS CORPORATION

THORN PROPERTY

LOOKING 030

7d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THORN PROPERTY
LOOKING EAST
7e

Table 6.4.1
1986 Drilling: Significant Intersections

Hole	Zone		From (m)	To (m)	Length (m)	True Width (m)	Au (ppb)	Ag (ppm)	Cu (%)
86-1	B		14.44	16.83	2.39	~1.6	460	19.9	0.23
86-1	B	incl.	14.44	14.87	0.43	~0.3	1714	59.0	0.92
86-2	B		15.98	18.09	2.11	~0.9	480	21.9	0.16
86-3	B		15.00	56.50	41.50	~29.4	1013	22.2	0.06
86-3	B	incl.	23.00	54.50	31.50	~22.3	1260	23.5	0.07
86-3	B	incl.	38.67	54.50	15.83	~11.2	2169	27.7	0.06
86-3	B	incl.	43.69	51.50	7.81	~5.5	3619	44.3	0.08
86-4	B		28.77	30.74	1.97	~1.0	402	32.6	0.17
86-5	B		21.77	64.45	42.68	~21.3	750	22.4	0.11
86-5	B	incl.	29.00	31.00	2.00	~1.0	1508	75.1	0.32
86-5	B	and	40.00	42.00	2.00	~1.0	1993	72.4	0.44
86-5	B	and	57.00	62.00	5.00	~2.5	1821	19.3	0.04
86-6	Catto		64.67	71.78	7.11	~4.4	1071	70.0	1.81
86-6	Catto	incl.	69.01	71.78	2.77	~1.7	1894	156.2	3.96
86-7	N/A		11.16	11.65	0.49	Unknown	3150	109.0	6.34
86-7	N/A		104.33	110.29	5.96	Unknown	1338	77.0	1.44
86-8	N/A		13.30	15.50	2.20	Unknown	1413	120.1	1.50

Holes 86-3 and 86-5 show the B Zone to be enveloped by a considerably wider zone (20-30 metres) of low-grade Au mineralization than might be suspected from surface exposures. However, hole 86-4, which was drilled under 86-3, shows the B Zone to be truncated to depth by a fault in the drilled area (Figure 7b). The two veins intersected by holes 86-7 and 86-8 are not exposed on surface; their orientations (and hence, true widths) remain unknown.

6.5 Whole Rock Geochemistry

Whole rock analysis was carried out on nine samples collected from outcrop and drill core, representative of various alterations within the FQB porphyry (**uKPO**) and different units of their possibly coeval subaerial volcanics (**uKSV**). These show that the porphyry is granodioritic in composition and that the volcanics range from andesitic to rhyodacitic. There is no similarity in conserved element ratios (Zr, Y, Ti, Nb, etc.) between the porphyry and volcanics, which might have supported the hypothesis that they were derived from the same magma.

7.0 GEOCHEMISTRY

7.1 Silt Geochemistry

During the 2000 program, 20 silt samples were collected from tributaries of La Jaune Creek (Figures 4, 5a-b). Silt results are listed below in Table 7.1.1, and compared to percentiles from the 896 silt samples collected from the entire Tulsequah (104K) mapsheet in the federal-provincial RGS program (GSC, 1988).

Table 7.1.1
Silt Samples

Sample Number	Creek	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206851		13	0.8	97	99	41	5	145
206852		28	0.4	95	47	56	5	247
206853		9	< .3	202	35	82	4	183

Table 7.1.1 (continued)
Silt Samples

Sample Number	Creek	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206854	Gee	664	4.0	975	214	293	39	584
206855	Sea	10	0.6	189	64	146	6	510
206856	Faraway	76	1.6	223	25	75	11	201
206857	Camp	10	0.4	236	57	43	7	147
206858	Bramble	19	0.4	75	136	88	13	188
206951	Bee	149	3.9	217	548	242	42	1607
206952	Cirque	12	< .3	117	31	24	3	276
206953	Cirque	20	0.8	166	86	75	< 3	198
206954	Gelb	348	19.2	1332	897	646	355	659
206955	Bramble	14	<.3	81	144	46	10	275
206956	Amarillo	27	0.3	217	18	94	6	123
206957	Amarillo	48	1.2	491	91	599	11	1154
206958	Eh	188	2.1	276	194	168	11	447
206959	Eh	15	1.2	291	65	170	12	459
206960	Barb	159	2.4	140	492	164	26	317
206961	Hook	53	0.6	51	229	27	11	138
206962	Camp	31	1.1	266	81	156	15	345
80th percentile		16	0.2	30	72	17	1.8	120
90th percentile		26	0.3	56	95	26	3.2	143
95th percentile		50	0.4	97	114	39	5.2	173
99th percentile		215	0.9	270	166	67	13.0	295

All silt samples were anomalous (>90th percentile) in at least one element; 5 were anomalous in all seven elements of interest. Some highly anomalous samples were taken downstream from known mineralization which would provide them with at least a partial explanation: 206854 (G Zone), 206954 (Catto Vein, E Zone and some of the other veins in the Jarosite Bluffs area), 206951 (the eastern end of the B Zone), 206962 (L Zone, I Zone, F Zone, etc.) and 206958 (A Zone). Mineralization has been reported upstream of another two samples, but not yet confirmed: 206961 (J Zone) and 206855 (C Zone). However, no mineralization has been found or reported on Barb Creek, even though sample 206960 is anomalous in all seven elements of interest. Similarly, anomalous results indicate Amarillo, Faraway and the upper portion of Eh creeks to be other priorities for future exploration.

7.2 Soil Geochemistry

During the 2000 program, 553 soil samples were collected from the Thorn property: 495 from the Thorn Grid, 18 along a contour soil line crossing Amarillo Creek and 40 from a contour soil line across the Cirque porphyry Cu-Mo prospect. For completeness, Figures 8a-8g also include 754 soils reported by Walton (1984) and Cann and Lehtinen (1991) from previous exploration of the Outlaw area. The data sets are not strictly comparable, since the Cirque samples and most of the Outlaw samples were taken from talus fines, while the Thorn Grid and Amarillo Creek areas are well-vegetated and soil development is relatively good. To eliminate this difference, and given the incomplete analytical data from previous sampling and the current emphasis on the Thorn's high-sulphidation mineralization, percentiles and the correlation matrix in Tables 7.2.1 and 7.2.2 were calculated using only the 2000 sample data from the Thorn Grid and Amarillo Creek areas.

Table 7.2.1
Soil Geochemistry Percentiles

Percentile	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
50th	15	0.7	122	<3	79	3	57	7	132
80th	44	1.5	240	3	141	4	141	12	233
90th	81	2.6	381	5	180	5	260	20	310
95th	242	4.8	741	7	223	7	514	48	417
98th	600	30.9	1378	13	341	9	1825	330	541
Maximum Value	13478	611.0	9770	1440	1117	38	14950	7500	1944
Population	513	513	513	513	513	513	513	513	513

Table 7.2.2
Soil Geochemistry Correlation Matrix

	Au	Ag	As	Bi	Cu	Mo	Pb	Sb	Zn
Au	---								
Ag	0.96	---							
As	0.69	0.76	---						
Bi	0.97	0.96	0.76	---					
Cu	0.27	0.19	0.19	0.21	---				
Mo	0.18	0.18	0.25	0.17	0.06	---			
Pb	0.81	0.92	0.80	0.80	0.20	0.19	---		
Sb	0.94	0.98	0.73	0.95	0.19	0.18	0.91	---	
Zn	0.04	0.01	0.16	-0.04	0.29	0.18	0.13	0.01	---

There is a very strong correlation between Au, Ag, As, Bi, Pb and Sb, not surprising considering the importance of As and Sb sulphosalts with the precious metal-bearing high-sulphidation veins and the common presence of galena inclusions in them. The poor correlation of Cu with these elements is more surprising at first glance, considering that the Cu-bearing enargite and tetrahedrite are by far the most important sulphosalts in these veins. However, many of the highest Cu values are located west of La Jaune Creek, probably underlain by Stuhini andesite; veining in the andesite contains chalcopyrite, rather than enargite and tetrahedrite. Zinc's poor correlation to the other metals is harder to explain. Much of the high-sulphidation veining contains elevated levels of zinc, although sphalerite was not recognized by petrography except in zones of weak alteration away from the veining.

Several multi-element soil geochemical anomalies have been identified on the Thorn Grid (Figures 8a-8g) and are summarized in Table 7.2.3 below:

Table 7.2.3
Thorn Grid Soil Anomalies

Anomaly	Thorn Grid Location		Peak Values						
	Easting	Northing	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
1	3300-3600	5000-5250	733	116.0	7219	*	7643	1130	657
2	2300-2400	5375-5575	945	52.1	1867	1117	4046	1986	665
3	2600-2800	5175-5375	13478	611.0	9770	1087	14950	7500	*
4	2700	5500-5575	683	14.4	755	386	1259	167	487
5	2600-2700	5000-5025	244	30.5	1925	*	1640	532	872
6	2000-2400	5000-5250	161	6.3	510	630	417	76	852

* Background levels

Anomaly 1: This anomaly covers about 250 x 300 metres, rising south from Camp Creek in steep terrain. High Pb and As values extend to the east from the main part of the anomaly. The F Zone quartz-pyrite-sulphosalt veining is exposed north of Camp Creek in this area, but no work has been done to the southwest within the soil anomaly. The very high Ag, Au, As, Pb and Sb are consistent with quartz-sulphosalt veins like those of the F Zone, but the background Cu results suggest that Ag or Pb sulphosalts may predominate over enargite and tetrahedrite in this area.

Anomaly 2: The jarositic bluffs which host the Tamdhu Vein and numerous other quartz-sulphosalt veins lie immediately northeast (across-slope or down-slope) of this anomaly. The anomaly's northern end lies downslope from the Catto Vein and probably reflects it and nearby veinlets. The southern part of the anomaly, with some of its highest values, cannot be explained by known mineralization, but the D Zone sulphide-sulphosalt float boulders were reported from this general area.

Anomaly 3: This 50-100 metre wide anomaly is elongated east-west, following the known extent of the B Zone. Its projected extension to the east is masked by till. The highest results came from immediately below the main B Zone outcrop, from soil poorly developed within B Zone talus.

Anomaly 4: These four soil samples straddle Camp Creek, about 80 metres west of the L Zone; the anomaly remains open to the northeast where no soil sampling was done. No prospecting has been done in this area, but it seems likely that they represent the strike extension of L Zone veining.

Anomaly 5: This restricted but strong anomaly has not been investigated and is unexplained. The airborne geophysical survey located a weak EM conductor in this area.

Anomaly 6: The western slope of La Jaune Creek is marked by generally higher Cu values in soils. In this anomaly, which remains open to the south and west, consistently high Cu is accompanied by spotty highs for the other elements of interest. Anaconda's West Zone was reported to lie near the southern edge of this anomaly, with "small erratic copper seams and random blebs in the quartz-feldspar porphyry" (Adamson, 1965a); it was not investigated in 2000, but seems to offer potential for a bulk-tonnage target.

There are numerous isolated soil samples from the Thorn Grid which returned highly anomalous values for one or more elements. A thick sheet of till blankets much of the eastern slope of La Jaune Creek, including the ridge south of Camp Creek and the gentle slope north of Camp Creek. Except where cut by creeks, this till has the effect of masking any geochemical expression of the underlying bedrock and making its interpretation more difficult. For instance, the western edge of the very strong Anomaly 1 may mark the edge of erosion through the till blanket rather than a cessation of veining. Similarly, the southwestern edge of the grid is covered by an extensive talus blanket derived from volcanics to the east.

Results of sampling in the Amarillo Creek area were disappointing; the contour soil line was run to the east and upslope from the most intense alteration in this area. More surprisingly, the 40 soils taken across the heart of the Cirque Zone Cu-Mo porphyry prospect returned only scattered high Cu and Mo values, with peaks of 319 ppm Cu, 18 ppm Mo and 21 ppb Au.

Figures 8a-g also show the results of previous soil sampling in the Outlaw area of the property, which outlined a strong Au+As+Sb+Ag+Pb+Zn anomaly over an area of 400 x 2,000 metres . Almost no work was done in this area in 2000, and it remains a large and intriguing target.

8.0 AIRBORNE GEOPHYSICS

A 384 line-km helicopter-borne magnetic/EM survey was flown over the Thorn property in July 2000. Procedures, results and interpretation have been reported separately by Fugro Airborne Surveys Corp. (Smith, 2000). Ken Robertson of VOX Image Ltd. reprocessed the data and prioritized the EM conductors (Figures 9a-9c).

8.1 Magnetics

A pronounced magnetic low (the "**La Jaune Low**") trends northwesterly along the La Jaune Creek valley for >9 kilometres, across the entire survey area (Figure 9a). It can be broken into three segments. The 3.8 kilometre middle section, between Eh Creek and the northernmost exposure of the Thorn Stock in La Jaune Creek, was the only section examined in 2000. In this area, the western edge of the magnetic low lies a few hundred metres west of the western edge of the Thorn Stock; the Stuhini Group andesitic volcanics near the stock contact are non-magnetic, possibly due to alteration along it. The magnetic low does not simply outline the FQB porphyry of the Thorn Stock, since it does not follow the stock's eastern bulge up Camp Creek.

The northern 2.5 kilometre section of the La Jaune Low splits around a narrow magnetic high which trends 135° along La Jaune Creek. It seems probable that the magnetic high is due to a structurally-controlled magnetic dyke (**$KTIN_3$**) in the subaerial volcanic package (**uKSV**), which feeds the flat-lying magnetic basalt flows (**$uKSV_5$**) on the hill at the mouth of La Jaune Creek. The magnetic low on either side of this linear high is two kilometres across near the mouth of La Jaune Creek; no mapping has been done in this area to determine its source.

An east-west magnetic low follows Eh Creek (the "**Eh Creek Low**") and marks the southern contact of the Thorn Stock. The La Jaune Creek Low is offset to the west by 500 metres along the Eh Creek Low, but then continues strongly to the southeast for another 2.8 kilometres. This part of La Jaune Creek has been previously mapped as Stuhini Group, which may be a thin skin on top of a buried southeastern extension of the Thorn Stock. Alternatively, the magnetic low could result from structurally-controlled magnetite-destructive alteration within the Stuhini volcanics, analogous to that which occurs near the contact of the Thorn Stock. A weaker east-west magnetic low along Outlaw Creek (the "**Outlaw Creek Low**") apparently shifts the La Jaune Low a few hundred metres further to the west, near the southern edge of the survey.

The Eh Creek Low can be traced eastward from La Jaune Creek for 2,200 metres, where it is offset 500 metres to the south and continues to the east for another 2,000 metres. The eastern portion of the Eh Creek Low parallels the Outlaw Zone soil geochemical anomaly and forms its southern boundary. Here too, it seems to mark the boundary between Stuhini Group volcanics to the south and younger rocks to the north. The Eh Creek Low is thought to represent a major east-west fault which has down-dropped the rocks to the north. The magnetic high whose axis parallels the eastern end of the Eh Creek Low, about 800 metres to the north, corresponds largely to the pyrrhotitic hornfels flanking a biotite-hornblende granodiorite stock (**$KTIN_4$**).

The first vertical derivative map (Figure 9b) shows three strong trends. The first two parallel the La Jaune Low at 135° and the Eh Creek and Outlaw Creek Lows at 090°, and are only prominent around them. The third and strongest trend, at 050°, is prominent throughout the survey area and doesn't appear to be an artefact of calculating/contouring. Many of the side drainages on each side of La Jaune Creek follow these trends. Interestingly, the EM conductors in the Camp Creek area line up along one of these 050° trends. Also, the post-mineral dykes, most of which are magnetic, predominantly strike 030°-060° (Appendix H) along this trend.

8.2 Resistivity

The resistivity map (Figure 9c) illustrates the property-wide structure and lithology very well, complementing the magnetics. The area underlain by Stuhini volcanics is marked by high resistivity throughout the survey area. Because of this, the northern two-thirds of the La Jaune magnetic low shows up as a sharp resistivity break between Stuhini volcanics to the southwest and the less resistive subaerial volcanics (**uKSV**) and Thorn Stock (**uKPO**) to the northeast. There is an off-shoot of low resistivity which extends 1,000 metres southwest up Bramble Creek from La Jaune Creek. In part, this off-shoot shows the presence of a 70-metre wide FQB porphyry dyke outboard from the main stock contact in this area; the resistivity data suggests that there may be more porphyry dyking further upstream. Another low resistivity off-shoot extends south-southwesterly up Barb Creek, but no mapping has been done in this area to determine its cause.

The southern third of the La Jaune Low does not show up in the resistivity data, since it is underlain entirely by Stuhini volcanics. Similarly, the Eh Creek magnetic low is duplicated by the resistivity data, since it also marks the contact between resistive Stuhini volcanics and more conductive rocks to the north. At its eastern end, the axis of the resistivity low lies about 400 metres north of the magnetic low axis and coincides extremely well with the Outlaw soil geochemical anomaly. The Outlaw resistivity low is accentuated because it is sandwiched between two resistive lithologies: Stuhini volcanics to the south and the biotite-hornblende granodiorite stock, and its flanking hornfels, to the north.

The Thorn Stock and its possibly coeval volcanics (**uKSV**) are both relatively conductive and cannot be differentiated on the basis of resistivity. Within the subaerial volcanic package, however, some units, including the basalt flows on the hill near the mouth of La Jaune Creek, appear to be more resistive. The lowest resistivities recorded on the property lie within the area covered by the stock and volcanics. The <284 ohm-m contour outlines two main lobes, of which the northern one has not been mapped. The southern one measures 800 x 2,300 metres, elongated along the eastern slope of La Jaune Creek and largely covered by till (Figure 10). It covers all but the northernmost gossan in La Jaune Creek and most of the high-sulphidation vein occurrences (including the Tamdhu and MP veins, the F, L and B zones and the very strong soil geochemical Anomaly 1).

The Cirque Zone of porphyry Cu mineralization shows up as an annulus of low resistivity approximately 800 metres in diameter, on the eastern edge of the survey area.

The upper part of the Outlaw Creek valley is marked by a broad resistivity low, whose significance is unknown.

8.3 Electromagnetic Conductors

Smith (2000) reported 438 EM conductors from the Thorn survey, 335 of which he attributed to conductive overburden. These conductors are shown on Figure 4 and 9a-9c, with possible conductors shown as black dots, weak bedrock conductors as yellow dots, definite bedrock conductors as cyan, green and red dots and magnetite conductors as white dots.

The three strongest conductors are located at the Bungee Zone, caused by lenses of massive pyrrhotite up to 20 metres thick. A fourth strong conductor is located just 300 metres to the southeast, and probably indicates similar mineralization. A weak conductor lies 250 metres east of the Bungee Zone; exposures in the cirque face show this to be the strike extension of the massive pyrrhotite lenses. The only other strong conductor (L10070/2799) from the survey is located in the heart of the Outlaw soil geochemical anomaly and resistivity low along with two weak conductors. No explanation was found for any of them by prospecting in 2000.

Most of the remaining weak bedrock conductors are located in the Thorn Stock, 23 of them within the lobe of lowest resistivity (<284 ohm-m). None of the weak conductors coincides with known showings, but most are in the vicinity of intense clay-sericite alteration and sulphide-sulphosalt veining. In particular, six conductors are clustered in the Jarosite Bluffs/D Zone/MP Vein area and three more extend northeasterly up Camp Creek on a line from the MP Vein to the M Zone. Most of these conductors are covered; the last three are on strike with the MP massive sulphide-sulphosalt vein and represent 360 metres of potential strike length for it. Another nine weak conductors are clustered east of La Jaune Creek in the 600 metres southeast of Amarillo Creek. La Jaune Creek cuts a canyon through jarosite gossans in this area; the conductors lie immediately to the east under vegetation and have not yet been investigated.

The J Zone coincides with a weak conductor (L10210/4326) within moderately resistive rock near the stock contact. About 400 metres to the southeast, near the mouth of Barb Creek, weak conductor L10210/4260 is also hosted by moderately resistive rock near the stock contact. Immediately south of the Thorn Stock, 1.25 metres of massive pyrite at the A Zone coincides with "possible conductor" L20080/914.

Only three other weak bedrock conductors were indicated by the airborne survey, none of whose significance is known. L10190/2022 is within the northern lobe of lowest resistivity (<284 ohm-m), near the mouth of La Jaune Creek. L10160/3360 is situated within the unexplained resistivity low along Outlaw Creek and L10190/1204 is hosted by resistive rocks 600 metres southeast of the A Zone.

9.0 DISCUSSION AND CONCLUSIONS

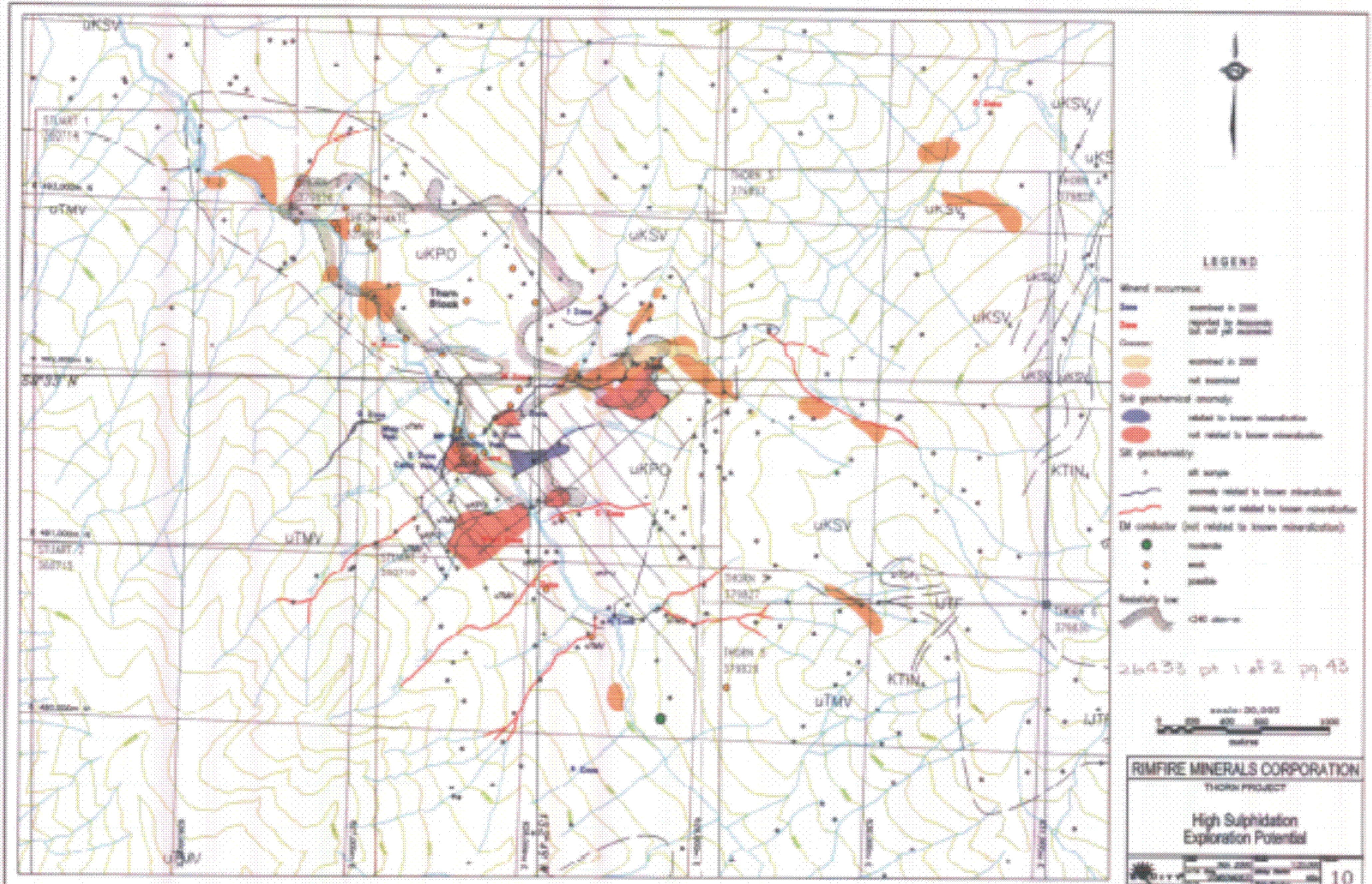
The Thorn property hosts an impressive array of high-sulphidation epithermal veins which contain significant amounts of silver, gold and copper. These veins are hosted within intensely altered and pyritized feldspar-quartz-biotite porphyry of the Thorn Stock over an area of 1,600 x 1,900 metres. A strong analogy can be made between the Thorn property and the El Indio Au-Cu deposit in Chile (23.3 million tonnes milling ore @ 6.6 g/tonne Au, ~4% Cu and 50 g/tonne Ag plus 200,000 tonnes direct smelting ore @ 209 g/tonne Au; Sillitoe, 1999). Some of the key similarities include:

- all significant mineralization hosted by steeply-dipping, structurally complex **veining**;
- **vein mineral assemblage** dominated by enargite, tetrahedrite-tennantite, pyrite and quartz with minor sulphosalts, galena, sphalerite and hübnerite;
- **alteration** in 10-100 metre envelopes around veins and vein swarms, dominated by sericite and clay minerals;
- **vuggy silica** and **alunite** present but volumetrically much less important than in Yanacocha-style high-sulphidation systems;
- **bonanza-grade precious metals** locally present, with samples assaying up to 22 g/tonne Au and 2400 g/tonne Ag on the Thorn.

El Indio produced its ore from more than 40 veins within a cymoid-loop structural block 150 metres wide by 800 metres long; it could easily fit into the Camp Creek structural corridor, which measures about 300 x 1,300 metres from the Catto Vein to the F Zone.

The 2000 exploration program on the Thorn property re-examined a number of previously-reported high-sulphidation vein occurrences, including the B, I, F, L and MP zones. In addition, several new veins were discovered, including the Catto (2.3m @ 3.1% Cu, 132 g/tonne Ag and 1.1 g/tonne Au) and Tamdhu (2.1m @ 1.3% Cu, 320 g/tonne Ag and 4.2 g/tonne Au) veins, both of which are located in one of the most-explored portions of the high-sulphidation system and within sight of camp. There is excellent reason to expect that many more veins will be found within this system (Figure 10):

- **Reported occurrences:** Anaconda reported five more zones of tetrahedrite-enargite veining within the Thorn Stock which have not yet been investigated;
- **Gossans:** a number of vivid jarosite gossans in La Jaune and Camp creeks, similar to those which host all known veining, have not yet been examined;
- **Soils:** the 2000 sampling showed several strong multi-element anomalies which have not yet been followed up, including Anomaly 1, which measures 250 x 300 metres and includes soil samples with up to 116 ppm Ag, 733 ppb Au, 7219 ppm As and 7643 ppm Pb;
- **Silts:** highly anomalous silts were taken from four creeks (Barb, Amarillo, Faraway and the upper portion of Eh) draining the Thorn Stock, which have no reported showings or soil coverage;
- **Conductors:** 26 weak electromagnetic conductors were defined in the Thorn Stock area, mainly near areas of known veining and sericite-clay-pyrite alteration, but most of them covered by vegetation and none of which can be explained by known veins (for comparison, 1.25 metres of massive pyrite in the A Zone shows up only as a "possible conductor");


uKSV
uTMV
uKPO
Thorn Stock
KTIN
LEGEND
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RIMFIRE MINERALS CORPORATION
THORN PROJECT
High Sulphidation Exploration Potential
10

- **Resistivity:** the lowest resistivity (<284 ohm-m) contour outlines most of the known high-sulphidation veins and the sericite-clay-pyrite alteration flanking them, but roughly two-thirds of the resistivity low lies north of Camp Creek in a till-covered area, difficult to explore with geochemistry and mapping/prospecting.

All high-sulphidation veining discovered to date on the Thorn property is hosted within the Thorn Stock, which is thought to be a subvolcanic porphyry in the neck of the volcanic edifice covering the northeastern part of the property. The stock is not considered to be the "causative" intrusion for the high-sulphidation system; more likely, it formed a relatively unreactive, brittle lithology which allowed the development of dilational fractures and the propagation of the acidic high-sulphidation fluids. Where the fluids left the stock and entered the calcareous Stuhini Group andesites, the fluids were buffered and produced quartz-carbonate-chalcopyrite-arsenopyrite veins rather than the enargite-tetrahedrite veins within the stock. World-wide, high-sulphidation systems commonly overlie genetically-related Cu-Mo porphyry systems; if this relation applies at the Thorn property, porphyry mineralization could be hosted by a younger, deeper (and as yet unrecognized) phase of the Thorn Stock.

The main target of interest on the Thorn property is the high-sulphidation epithermal system centred on the Thorn Stock. Other styles of mineralization form valid exploration targets in their own right. Some of the Stuhini-hosted quartz-carbonate-sulphide veins contain elevated gold, including the G Zone, 500 metres northwest of the Thorn Stock, which assayed 57.4 g/tonne Au across 2.0 metres. The Outlaw Zone is a 400 x 2,000 metre east-trending Au+As+Ag+Pb+Sb+Zn soil geochemical anomaly and resistivity low located five kilometres southeast of the Thorn high-sulphidation veining. Despite historical trenching and diamond drilling, mineralization at the Outlaw Zone is poorly understood. Airborne magnetics and resistivity define a major east-west structure extending (with a right-lateral offset of 500 metres) from under the Outlaw soil anomaly west to La Jaune Creek. This structure marks the southern boundary of the Thorn Stock and probably provides a genetic link between the Thorn high-sulphidation system and the Outlaw Zone mineralization.

The Thorn property is fairly remote, located approximately 50 kilometres from the nearest access road in an area of heavy vegetation and difficult terrain. However, it has demonstrated excellent potential to host high-grade silver-gold-copper mineralization similar to that of the 6.3 million ounce El Indio gold-copper deposit in Chile. Given the size and exceptional unit value of the target deposit, the Thorn property unquestionably warrants the expenditures which will be required to fully test its potential.

Respectfully submitted,

Henry J. Awmack, P.Eng.
EQUITY ENGINEERING LTD.

Vancouver, British Columbia
November, 2000

APPENDIX A

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BIBLIOGRAPHY

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APPENDIX B

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES
Thorn 1-7, Check-Mate and Stuart 1-3 Claims
August 18 - September 1, 2000

PROFESSIONAL FEES AND WAGES:			
Henry Awmack, P. Eng.			
	22.5 days @ $460/day	$ 10,350.00	
Jim Lehtinen, P.Geo.			
	14.0 day @ $460/day	6,440.00	
Mike Papageorge, Senior Sampler			
	14.0 days @ $275/day	3,850.00	
Heiko Mueller, Senior Sampler			
	14.0 day @ $275/day	3,850.00	
Phillip Krauskopf, Sampler			
	14.0 day @ $225/day	3,150.00	$ 27,640.00
EXPENSES:			
Expediting		$ 760.00	
Chemical Analyses		14,519.61	
Materials and Supplies		1,160.07	
Orthophoto Production		4,162.30	
Printing and Reproductions		411.72	
Camp Food		2,614.59	
Fixed Wing Aircraft Charters		5,720.50	
Helicopter Charters		16,932.05	
Telephone Distance Charges		464.25	
Courier		89.06	
Freight		2,683.48	
Bulk Fuel		3,556.65	
Contract Line-cutting		3,710.00	
Radio Rental (Non-Equity)		946.95	
Satellite Phone Rental		535.00	
Petrography		1,045.00	59,311.23
EQUITY ENGINEERING EQUIPMENT RENTALS:			
Camp			
	97 days @ $25/day	$ 2,425.00	
Generator, 1kVA			
	16 days @ $10/day	160.00	
Core Splitter			
	08 days @ $05/day	40.00	
Pentium Notebook			
	05 days @ $15/day	75.00	2,700.00
REPORT (estimated)			12,500.00
SUB-TOTAL:			$ 102,151.23

STATEMENT OF EXPENDITURES
Thorn 1-7, Check-Mate and Stuart 1-3 Claims
August 18 - September 1, 2000

PROJECT SUPERVISION CHARGE:		
12% on first $100,000 of expenditures	$	12,000.00
10% on balance of sub-total ($2,151.23)		215.12
SUB-TOTAL:	$	114,366.35
GST: 7% on sub-total		8,005.64
TOTAL:	**$**	**122,371.99**

APPENDIX C

ROCK SAMPLE DESCRIPTIONS

MINERALS AND ALTERATION TYPES

AL	alunite	AS	arsenopyrite	AZ	azurite
BA	barite	BI	biotite	BO	bornite
BT	pyrobitumen	CA	calcite	CB	Fe-carbonate
CC	chalcocite	CD	chalcedony	CL	chlorite
CP	chalcopyrite	CV	covellite	CY	clay
EN	enargite	EP	epidote	GE	goethite
GL	galena	GR	graphite	HE	hematite
HS	specularite	HZ	hydrozincite	JA	jarosite
KF	potassium feldspar	MC	malachite	MG	magnetite
MN	Mn-oxides	MR	mariposite/fuchsite	MS	sericite
MT	marcasite	NE	neotocite	PA	pyrargyrite
PL	pyrolusite	PO	pyrrhotite	PY	pyrite
QZ	quartz veining	RE	realgar	RN	rhodonite
SB	stibnite	SI	silicification	SM	smithsonite
SP	sphalerite	SR	scorodite	TT	tetrahedrite

ALTERATION INTENSITY

m	moderate	s	strong	tr	trace
vs	very strong	w	weak		

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number: **118958 Thorn**

Grid North: N Grid East: E Type: Float Alteration: wCY, sSI
UTM 6492922 N UTM 632956 E Strike Length Exp: Metallics: 10%PY
Elevation: m Sample Width: True Width: Secondaries: sJA
Host : Altered quartz-feldspar porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
<5	1.2	70	28
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
405	<2	4	8

Sampled By: JJL 16-Aug-00

Float taken along eastern claim line during staking. Source of float would be to east off claims. Vuggy textured on both fresh and weathered surfaces.

Sample Number: **129057 Thorn**

Grid North: N Grid East: E Type: Grab Alteration: wCY, sSI
UTM 6491690 N UTM 627686 E Strike Length Exp: 3 m Metallics: 90%PY, 2%EN
Elevation: 690 m Sample Width: 50 cm True Width: 50 cm Secondaries: trCV, trMC
Vein 055°/80° S Host : Pyrite-enargite vein in Quartz feldspar porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
750	224g/t	33100	<10
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
8.73%	765	8230	2490

Sampled By: HJA 30-Sep-99

MP Vein.Massive medium-grained pyrite (varying crystal habit including triangular faces) forms vein with slightly irregular contacts with silicified quartz porphyry. 1-10mm enargite seams through pyrite with minor late white clay in vugs.

Sample Number: **129059 Thorn**

Grid North: N Grid East: E Type: Select Alteration:
UTM 6491690 N UTM 627686 E Strike Length Exp: Metallics: 20%PY, 8%EN
Elevation: 690 m Sample Width: 0 cm True Width: 0 cm Secondaries:
Host : Pyrite-enargite vein

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
874	285g/t	42500	<10
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
11.00%	1030	9570	2740

Sampled By: HJA 30-Sep-99

MP Vein. Select sample from enargite-rich sections of 129057.

Sample Number: **129060 Thorn**

Grid North: N Grid East: E Type: Float Alteration:
UTM 6491665 N UTM 627553 E Strike Length Exp: Metallics: 20%PY, 80%EN
Elevation: 720 m Sample Width: 5 cm True Width: 0 cm Secondaries: wMC, wSR
Host : Enargite-pyrite vein

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
13.84g/t	2900g/t	>50000	<10
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
32.8%	1995	>10000	1945

Sampled By: HJA 30-Sep-99

5x10x10cm cobble in gully west of Camp Creek. Massive bladed, medium-grained enargite with patches of fine-grained pyrite.

Sample Number: **129061 Thorn**

Grid North: N Grid East: E Type: Grab Alteration: vsCY
UTM 6491643 N UTM 627540 E Strike Length Exp: 50 m Metallics: 4%PY, trEN?
Elevation: 725 m Sample Width: 1.2 m True Width: 1.2 m Secondaries: sGE
Host : Quartz-feldspar porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
30	8	520	20
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1260	50	130	55

Sampled By: HJA 30-Sep-99

Intensely argillized, light grey with 4% fine-grained disseminated pyrite and sparse pyrite veinlets. Sparse fine-grained disseminated black specks (enargite? tenorite?). These specks are absent (leached?) in adjacent outcrop above creek level. Outcrop in gully bed (less weathering?)

Sample Number: **129062 Thorn**

Grid North: N Grid East: E Type: Float Alteration: wCY
UTM 6491637 N UTM 627536 E Strike Length Exp: Metallics: 50%PY, 40%EN
Elevation: 770 m Sample Width: 0 cm True Width: 0 cm Secondaries: mGE, mHE, wSR
Host : Quartz-feldspar porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
5000	564g/t	>50000	<10
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
16.50%	1325	>10000	2360

Sampled By: HJA 30-Sep-99

Fine- to medium-grained enargite interspersed with fine-grained pyrite. 5x5x5cm cobble, upstream from 129060.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number	Location	Sample Info	Type / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
129063 Thorn	Grid North: N; UTM 6491637 N; Elevation: 770 m	Grid East: E; UTM 627536 E; Sample Width: 0 cm	Type: Float; Strike Length Exp:; True Width: 0 cm; Host: Quartz-feldspar porphyry	Alteration: sCY, wSI; Metallics: 15%PY, 5%EN; Secondaries: wHE, wSR	4100	391g/t	42600	<10
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					8.61%	435	>10000	145

Sampled By: HJA 30-Sep-99

5x5x5cm cobble. Fine-grained disseminated pyrite and lesser enargite in argillized rock.

Sample Number	Location	Sample Info	Type / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206501 Thorn	Grid North: N; UTM 6491279 N; Elevation: m	Grid East: E; UTM 631654 E; Sample Width:	Type: Grab; Strike Length Exp:; True Width:; Host: ?Limestone/Argillite	Alteration:; Metallics: 80%PO; Secondaries:	17	8.6	16	3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					24	76	24	1104

Sampled By: MLP 18-Aug-00

Massive pyrrhotite with lesser quartz hosted in argillite near Ls contact.

Sample Number	Location	Sample Info	Type / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206502 Thorn	Grid North: N; UTM 6491280 N; Elevation: m	Grid East: E; UTM 631705 E; Sample Width:	Type:; Strike Length Exp:; True Width:; Host: Argillite	Alteration:; Metallics:; Secondaries:	10	6.7	1239	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					64	49	23	9547

Sampled By: MLP 18-Aug-00

Massive pyrrhotite hosted in argillite near Ls contact.

Sample Number	Location	Sample Info	Type / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206503 Thorn	Grid North: N; UTM 6491157 N; Elevation: m	Grid East: E; UTM 631698 E; Sample Width: 1 m	Type: Grab; Strike Length Exp:; True Width:; Host: Argillite	Alteration:; Metallics:; Secondaries:	62	5.2	34	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					55	26	25	1228

Sampled By: MLP 18-Aug-00

Massive pyrrhotite with lesser quartz hosted in argillite near Ls contact. Rare green mineral - diopside(?)

Sample Number	Location	Sample Info	Type / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206504 Thorn	Grid North: N; UTM 6490381 N; Elevation: 1900 m	Grid East: E; UTM 631318 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host: Talus	Alteration:; Metallics:; Secondaries:	372	1.6	56	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					10	30	8	129

Sampled By: MLP 18-Aug-00

Some form of altered (clay) silica breccia.

Sample Number	Location	Sample Info	Type / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206505 Thorn	Grid North: N; UTM 6490384 N; Elevation: m	Grid East: E; UTM 631485 E; Sample Width: 1 m	Type: Chip; Strike Length Exp: 100 m; True Width:; Host: ?	Alteration:; Metallics: 1%PO; Secondaries:	885	5.2	280	5
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					195	22	29	1208

Sampled By: MLP 18-Aug-00

Oxidized orange goo. Right below a massive section of pyrrhotite replacement of argillite.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample	Location		Description		Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206507 Thorn**	Grid North: N; UTM 6490493 N; Elevation: 1860 m	Grid East: E; UTM 631372 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host : Porphyry?	Alteration:; Metallics:; Secondaries:	2	< .3	8	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					2	3	< 3	10
Sampled By: MLP 23-Aug-00	Outlaw. Quartz-carbonate (alunite?) vein material with small quartz vugs. Weathers orange-brown, however did not see any sulphides.							
Sample Number: **206508 Thorn**	Grid North: N; UTM 6490311 N; Elevation: 1835 m	Grid East: E; UTM 631629 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host : Calcareous argillite	Alteration: sEP; Metallics: 5%PY; Secondaries:	170	3.3	1360	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					82	16	38	95
Sampled By: MLP 23-Aug-00	Outlaw. Epidote/pyrite at mag conductor L10100/5457. Dark green epidote and pyrite.							
Sample Number: **206509 Thorn**	Grid North: N; UTM 6490377 N; Elevation: 1800 m	Grid East: E; UTM 631585 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host : Mafic dyke	Alteration: trSI; Metallics: 1%CP (?); Secondaries:	773	4.7	1453	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					307	262	81	135
Sampled By: MLP 23-Aug-00	Outlaw. Appears to be a silicified mafic dyke with ~1%chalcopyrite throughout. Between EM conductors L10100/5457 and L10100/5466.							
Sample Number: **206601 Thorn**	Grid North: N; UTM 6491855 N; Elevation: m; Vein 060°/90° SE	Grid East: E; UTM 627887 E; Sample Width: 15 cm	Type: Grab; Strike Length Exp: <1 m; True Width: 15 cm; Host : Intense clay-sericite-altered intrusive	Alteration: mCY, sMS; Metallics: 25%PY, 1%TT, 2%PA; Secondaries: sJA, sGE	7.45 g/t	712.9 g/t	8645	116
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					1.448 %	2546	7449	2836
Sampled By: JJL 19-Aug-00	Recessive zone in outcrop, parallel to creek. Outcrop to northeast appears to host same mineralogy and secondary structure.							
Sample Number: **206602 Thorn**	Grid North: N; UTM 6491853 N; Elevation: m; Vein+Fault 086°/85° S	Grid East: E; UTM 627895 E; Sample Width: 1 m	Type: Grab; Strike Length Exp: 5 m; True Width: 1 m; Host : Altered intrusive	Alteration: mCY, sMS; Metallics: 20%PY,2%SP,trTT,trPA; Secondaries:	6.36 g/t	294.7 g/t	1224	73
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					2242	0.57 %	3159	3.57 %
Sampled By: JJL 19-Aug-00	L Zone. Zone appears to be weak fracture zone, variably mineralized and silicified. 2-15 cm massive pyrite vein at 035°/85°S cross-cuts mineralized fault hosting 206602.							
Sample Number: **206603 Thorn**	Grid North: N; UTM 6491703 N; Elevation: m	Grid East: E; UTM 627706 E; Sample Width: 20 cm	Type: Float; Strike Length Exp:; True Width:; Host : Silica breccia	Alteration: sSI; Metallics: 15%PY, trPA, trTT; Secondaries: wGE	1.46 g/t	85.8	497	64
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					1611	405	923	673
Sampled By: JJL 20-Aug-00	40x30x20 cm boulder on southeast side of Camp Creek across from camp. Pyrite in clusters, fractures and disseminated. Tetrahedrite and pyrargyrite as irregular clusters (rare) and fine disseminations.							

Rock Sample Descriptions

Project Name: Thorn   Project: RMC00-05   NTS: 104K/10W

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sCY, sMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206604	UTM 6491831 N	UTM 627777 E	Strike Length Exp:	Metallics: 20%PY, trTT/EN	114	4.6	253	6
Thorn	Elevation: m	Sample Width:	True Width:	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 078°/55° S		Host : Clay-sericite-altered porphyry		41	305	24	684

Sampled By: JJL 20-Aug-00

Irregular quartz vein (bifurcating) with clusters of pyrite and trace tetrahedrite or enargite. Vein faulted along the top.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sCY, sMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206605	UTM 6491841 N	UTM 627775 E	Strike Length Exp: 6 m	Metallics: 5%PY, trTT/EN	147	4.9	118	7
Thorn	Elevation: m	Sample Width: 5 m	True Width: 3.5 m	Secondaries: mJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein+Fault 080°/70° S		Host : Sericite-clay-altered intrusive		112	67	52	44

Sampled By: JJL 20-Aug-00

Zone of numerous fractures, some hosting quartz veins and stringers. Tetrahedrite/enargite are disseminated. Sample taken from large clay-altered zone at top of outcrop, then to south.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: sSI	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206606	UTM 6491850 N	UTM 627856 E	Strike Length Exp:	Metallics: 5%PY, trSP,trPA,trEN/TT	179	25.7	247	10
Thorn	Elevation: m	Sample Width:	True Width:	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Quartz-feldspar porphyry		761	715	325	497

Sampled By: JJL 20-Aug-00

Silicified boulder of quartz-feldspar porphyry with numerous quartz stringers and veinlets throughout. Pyrite dominant and pyrargyrite/tetrahedrite/enargite along fractures and clustered. Alunite and quartz veining.

Sample Number:	Grid North: N	Grid East: E	Type: Float+Select	Alteration: sCY, sMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206607	UTM 6491861 N	UTM 627905 E	Strike Length Exp:	Metallics: 5%PY, 60%EN/TT, trPA	19.48 g/t	1634.7 g/t	67030	93
Thorn	Elevation: m	Sample Width:	True Width:	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Porphyry		17.352 %	559	26146	3764

Sampled By: JJL 20-Aug-00

L Zone. High-grade grab of select enargite/tetrahedrite/pyrite quartz-alunite vein material at base of talus (slope failure). Veins appear to pinch and swell from 1 cm to 40 cm. Variably mineralized with pyrargyrite.

Sample Number:	Grid North: N	Grid East: E	Type: Select	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206608	UTM 6491845 N	UTM 627894 E	Strike Length Exp: 5 m	Metallics: 1%PY, 20%EN/TT	7.93 g/t	1397.1 g/t	32000	2696
Thorn	Elevation: m	Sample Width: 5 cm	True Width: 5 cm	Secondaries: sJA, mGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 306°/86° NE		Host : Intrusive		6.391 %	716	25507	492

Sampled By: JJL 20-Aug-00

High grade grab of vein. Variable width (1-5 cm). Parallel structures variably mineralized. Very strong fracturing at ~100-120°/subvertical. Sample ~20 m above 206601.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206609	UTM 6491933 N	UTM 627965 E	Strike Length Exp:	Metallics: 5%PY	145	5.8	256	5
Thorn	Elevation: m	Sample Width: 15 cm	True Width: 15 cm	Secondaries: JA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 130°/90°		Host : Quartz-feldspar-biotite porphyry		319	130	91	235

Sampled By: JJL 21-Aug-00

Parallel fractures hosting quartz-calcite veinlets (<3 cm). Pyrite as clusters, dominantly disseminated. Weak alteration in wall rock parallel to fractures. Slightly increased pyrite content (measured fractures 115°/90°, 130°/90°, 120°/82°)

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number: **206610 Thorn**

Grid North: N | Grid East: E | Type: Float | Alteration:
UTM 6492006 N | UTM 628033 E | Strike Length Exp: | Metallics: 65%GL, 5%PY, 10%SP
Elevation: m | Sample Width: 5 cm | True Width: | Secondaries:
Host : Sulphide vein

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
416	141.1 g/t	274	9
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
427	13.07 %	362	10.64 %

Sampled By: JJL 21-Aug-00

15x10x5 cm boulder of massive galena, pyrite and sphalerite on southeast side of creek. Well-rounded (possibly similar to galena-sphalerite-pyrite veins on Outlaw).

Sample Number: **206611 Thorn**

Grid North: N | Grid East: E | Type: Float | Alteration: mMS, sSI
UTM 6491970 N | UTM 628157 E | Strike Length Exp: | Metallics: tr-1%EN/TT
Elevation: m | Sample Width: 1 m | True Width: | Secondaries: w-mJA
Host : Quartz feldspar mica porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
2.29 g/t	414.9 g/t	5630	110
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1.051 %	567	5242	489

Sampled By: JJL 21-Aug-00

Large (2x1.5x1 m) block of stockwork quartz with some quartz veins hosting enargite ± pyrite. Outcrop near top of slump exposure.

Sample Number: **206612 Thorn**

Grid North: N | Grid East: E | Type: Grab | Alteration:
UTM 6492051 N | UTM 628219 E | Strike Length Exp: | Metallics: trPY, trEN/TT
Elevation: m | Sample Width: | True Width: | Secondaries:
Vein 065°/90° | Host : Quartz feldspar mica porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
214	24.3	183	13
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
596	1926	280	1955

Sampled By: JJL 21-Aug-00

Outcrop on east side of Camp Creek in canyon. Erratic quartz vein. Appears as small blow-out of quartz vein at intersection of two veins (065°/90°, 168°/45° (poor veining-subparallel to dyke)).

Sample Number: **206613 Thorn**

Grid North: N | Grid East: E | Type: Float | Alteration:
UTM 6491567 N | UTM 627887 E | Strike Length Exp: | Metallics: 3%PY
Elevation: m | Sample Width: 18 cm | True Width: | Secondaries: mJA
Host : Vein quartz

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
1.79 g/t	18.7	72	9
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
109	213	57	2433

Sampled By: JJL 22-Aug-00

1x1x0.18m slab of quartz float below B Zone. Pyrite as disseminations and weak banding parallel to wall(?) of vein. Pyrite also in aggregations in vugs up to 1.5 cm. Minor creamy-white soft mineral in late(?) fractures (gypsum? or clay?). Core of vein material appears to have up to 15% pyrite.

Sample Number: **206614 Thorn**

Grid North: N | Grid East: E | Type: Grab | Alteration: sMS, QZ, AL
UTM 6491595 N | UTM 627880 E | Strike Length Exp: 2.5 m | Metallics: trPY,trEN/TT,trPA?
Elevation: m | Sample Width: 1.5 m | True Width: 1.5 m | Secondaries:
Vein 060°/85° SE | Host : Quartz-feldspar-mica porphry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
3.26 g/t	74.1	124	76
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
33	246	256	44

Sampled By: JJL 22-Aug-00

B Zone. Drusy quartz. Wall rock on south east side of quartz breccia. Dominantly quartz ± alunite veining - "pumice"-like vuggy silica alteration near quartz breccia structure.

Sample Number: **206615 Thorn**

Grid North: N | Grid East: E | Type: Grab | Alteration: sMS, mSI
UTM 6491591 N | UTM 627859 E | Strike Length Exp: 4 m | Metallics: tr-1%PY, trSP
Elevation: m | Sample Width: 5 m | True Width: 4.5 m | Secondaries:
Vein 065°/85° S | Host : Quartz feldspar porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
3.12 g/t	93.1	193	60
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
81	143	393	60

Sampled By: JJL 22-Aug-00

Sample of wall rock on north side of B Zone. Numerous sub-parallel silicified/quartz zones. Veins are commonly "frothy" in appearance due to wall rock replacement (?) or pyrite corrosion (?). Orientation from portion of individual vein.

Rock Sample Descriptions

Project Name: Thorn | **Project: RMC00-05** | **NTS: 104K/10W**

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206616	UTM 6491603 N	UTM 627906 E	Strike Length Exp: 2 m	Metallics: sPY, trSP, trHE, ?EN	1.41 g/t	41.5	515	22
Thorn	Elevation: m	Sample Width: 1 m	True Width: 1 m	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 080°/90°		Host : Quartz feldspar porphyry		1065	87	367	302

Sampled By: JJL

Vein in old trench east of B Zone. Vein is offset (right lateral) 2 m by slip at 020°/85E. Disseminated and banded pyrite. Disseminated pyrargyrite. Rare sphalerite in quartz. Sample composite of 3 sections of vein.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sSI	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206617	UTM 6491642 N	UTM 628041 E	Strike Length Exp: 0.5 m	Metallics: 10%PY, tr-1%EN/TT	8.13 g/t	286 g/t	638	72
Thorn	Elevation: m	Sample Width: 1.5 m	True Width:	Secondaries: sJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Brecciated quartz vein		641	239	1213	35

Sampled By: JJL
22-Aug-00

Trench 30 m above Bee Creek. Outcrop below ferricrete cover. Strongly pyritized (2 phases), very fine-grained and coarser. Milky quartz veinlets and darker grey quartz-pyrite veins meander through vuggy silica alteration. Multiple quartz events (minimum 2). Frothy quartz with trace enargite. Entire zone not exposed as trench slumped to

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206618	UTM 6491640 N	UTM 628089 E	Strike Length Exp:	Metallics: 5%PY, 8%EN/TT	6.78 g/t	431.1 g/t	12865	56
Thorn	Elevation: m	Sample Width:	True Width:	Secondaries: wJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host :		2.459 %	262	4747	959

Sampled By: JJL
22-Aug-00

Large float block on north bank of Bee Creek upstream and on same side of hill 206617. Some samples with more enargite than pyrite (a rarity). Few vugs, multi-episode veining and pyrite.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: mBI	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206619	UTM 6490553 N	UTM 633032 E	Strike Length Exp:	Metallics: 5%PO, 1%PY	48	2.9	70	< 3
Thorn	Elevation: m	Sample Width: 3 m	True Width: 3 m	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	304°/90°		Host : Rhyodacite flows		75	7	18	35

Sampled By: JJL
23-Aug-00

Outlaw. Grab across hornfelsed volcanics. Conductor L10041/2715. Pyrrhotite and pyrite in <1 mm clusters and disseminations.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: Hornsfelsed	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206620	UTM 6490364 N	UTM 632659 E	Strike Length Exp:	Metallics: trCP, 3%PO, trPY	99	1.5	151	3
Thorn	Elevation: m	Sample Width: 3 m	True Width:	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Sediments - some strongly net textured		140	7	62	36

Sampled By: JJL
23-Aug-00

Outlaw. Conductor L10060/487. Sample taken to east in hornfelsed sediments. Appears to be clay-altered zone below conductor, above drill pad (second cut out for pad).

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: BI, SI	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206621	UTM 6490371 N	UTM 632383 E	Strike Length Exp:	Metallics:	20	< .3	297	< 3
Thorn	Elevation: m	Sample Width: 3 m	True Width:	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Sediments(?)-hornsfelsed		9	3	22	96

Sampled By: JJL
23-Aug-00

Outlaw. Grab of variety of lithologies and alteration at site of conductor L10070/2799.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample	Location		Sample Info	Alteration / Minerals	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206622 Thorn**	Grid North: N; UTM 6491898 N; Elevation: m	Grid East: E; UTM 627522 E; Sample Width: 20 cm	Type: Float; Strike Length Exp:; True Width:; Host : Altered volcaniclastic	Alteration: sMS, sCY; Metallics: 7%PY, trHS; Secondaries: sJA	37	< .3	14	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					13	7	4	4

Sampled By: JJL 24-Aug-00

Strongly faulted sub-parallel to La Jaune Creek. Pyrite disseminated and in clusters. Trace hematite along <1mm quartz stringers. 20x20x20cm boulder.

Sample	Location		Sample Info	Alteration / Minerals	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206623 Thorn**	Grid North: N; UTM 6491908 N; Elevation: m; Vein 320°/48° NE	Grid East: E; UTM 627487 E; Sample Width: 8 cm	Type: Grab; Strike Length Exp: 10 m; True Width: 8 cm; Host : Volcaniclastic	Alteration:; Metallics: 55%PY; Secondaries:	18	0.6	126	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					60	71	3	36

Sampled By: JJL 24-Aug-00

Massive pyrite vein with bladed marcasite(?). Soft grey white matrix. Fragments of light orange-brown, non-calcareous, soft (~3):sericite?.

Sample	Location		Sample Info	Alteration / Minerals	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206624 Thorn**	Grid North: N; UTM 6491980 N; Elevation: m; Vein 250°/64° N	Grid East: E; UTM 627433 E; Sample Width: 5 m	Type: Grab; Strike Length Exp: 7 m; True Width: 5 m; Host : Volcaniclastic	Alteration: MS, SI, AL, QZ; Metallics: 5%PY; Secondaries: sJA, sGE	101	1.4	26	3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					211	20	12	3

Sampled By: JJL 24-Aug-00

Quartz-pyrite stockwork and silicification in sericite-altered volcaniclastic. Gypsum and alunite on fracture surfaces. Pyrite commonly at core of veining.

Sample	Location		Sample Info	Alteration / Minerals	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206625 Thorn**	Grid North: N; UTM 6491987 N; Elevation: m; Vein 078°/85° S	Grid East: E; UTM 627436 E; Sample Width: 8 m	Type: Grab; Strike Length Exp: 5 m; True Width: 8 m; Host : Volcaniclastic	Alteration: sMS; Metallics: 8%PY; Secondaries:	705	3.3	55	10
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					428	125	12	15

Sampled By: JJL 24-Aug-00

Massive (55%) pyrite veins with silica stringers in wall rock. Pyrite veins up to 30 cm thick (pinch and swell) and occupying erratic fracturing. Gypsum on fracture surfaces. (Pyrite vein at 078°/85° S and fractures at 285°/48° N)

Sample	Location		Sample Info	Alteration / Minerals	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206626 Thorn**	Grid North: N; UTM 6492270 N; Elevation: 650 m; Fracture(s) 192°/72° W	Grid East: E; UTM 627400 E; Sample Width: 20 cm	Type: Grab; Strike Length Exp: 3 m; True Width: 20 cm; Host : Volcanic breccia	Alteration: m-sMS, mSI; Metallics: 1%PY; Secondaries:	11	< .3	6	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					26	15	< 3	29

Sampled By: JJL 24-Aug-00

Pale green with darker (± pyrite) fragments and lighter orange brown fragments in pale sericitic-green-grey matrix. Sample in waterfall.

Sample	Location		Sample Info	Alteration / Minerals	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206627 Thorn**	Grid North: N; UTM N; Elevation: m	Grid East: E; UTM E; Sample Width: 0 cm	Type:; Strike Length Exp:; True Width: 0 cm; Host :	Alteration:; Metallics:; Secondaries:				
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**

Sampled By: JJL 25-Aug-00

Blank for QA purposes.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample	Location		Type / Host	Alteration / Metallics	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206628 Thorn**	Grid North: N; UTM 6492195 N; Elevation: m	Grid East: E; UTM 627255 E; Sample Width: 20 cm	Type: Float; Strike Length Exp:; True Width:; Host : Rhyolite ?	Alteration:; Metallics: trGL, 1%PY, trSP; Secondaries:	134	3.0	1738	31
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					183	398	113	1391

Sampled By: JJL 25-Aug-00

50x20x30cm boulder in gravel bank. Very brown-red rusty with quartz fragments. Iron carbonate and quartz. Euhedral disseminated pyrite and very fine-grained galena(?) (black streak) with minor clusters of sphalerite up to 1 mm. Rock looks like rhyolite cemented with iron carbonate.

Sample	Location		Type / Host	Alteration / Metallics	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206629 Thorn**	Grid North: N; UTM 6492507 N; Elevation: 635 m	Grid East: E; UTM 627156 E; Sample Width: 1 m	Type: Grab; Strike Length Exp: 3 m; True Width: 1 m; Host : ? - Texture obliterated by alteration	Alteration: sMS; Metallics: 1%PY, trEN ?; Secondaries:	142	9.7	54	9
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					19	48	39	10

Sampled By: JJL 25-Aug-00

Rusty resistant knob on southeast side of very large alteration zone. No access to core of zone. Sampling restricted to grab samples along tree line.

Sample	Location		Type / Host	Alteration / Metallics	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206630 Thorn**	Grid North: N; UTM 6491079 N; Elevation: 865 m; Vein 115°/70° S	Grid East: E; UTM 627560 E; Sample Width: 20 cm	Type:; Strike Length Exp: 8 m; True Width: 20 cm; Host : Andesite	Alteration: mCB; Metallics: trPY; Secondaries: wGE	17	0.5	29	3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					55	7	11	31

Sampled By: JJL 26-Aug-00

Minor quartz calcite ± siderite vein up to 20 cm wide in fault(?)Late calcite stringers and chlorite stringers. Carbonate-altered wall rock.

Sample	Location		Type / Host	Alteration / Metallics	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206631 Thorn**	Grid North: N; UTM 6491018 N; Elevation: 915 m	Grid East: E; UTM 627495 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host : Quartz feldspar biotite porphyry	Alteration: mCL, sMS; Metallics: trGL, 3%PY, trSP, trEN; Secondaries:	75	8.1	183	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					251	4249	4	5657

Sampled By: JJL 26-Aug-00

Disseminated pyrite throughout, sphalerite as stringers up to 1 mm as well as disseminated and patchy. Galena ± enargite(?) in very fine-grained disseminations. Similar mineralization found in place ~20 m upstream. 20x30x30 cm boulder.

Sample	Location		Type / Host	Alteration / Metallics	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206632 Thorn**	Grid North: N; UTM 6491610 N; Elevation: 660 m	Grid East: E; UTM 627547 E; Sample Width: 1 m	Type: Grab; Strike Length Exp: 2 m; True Width: 1 m; Host : Intensely altered quartz feldspar biotite porphyry	Alteration: mCY, sMS; Metallics: 30%PY, 1%EN; Secondaries:	2.15 g/t	59.4	607	56
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					3082	169	180	93

Sampled By: JJL 27-Aug-00

Very friable sulphides (weathering) in discrete structure. Enargite content variable along strike.

Sample	Location		Type / Host	Alteration / Metallics	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Sample Number: **206633 Thorn**	Grid North: N; UTM 6491609 N; Elevation: 650 m; Vein+Fault 090°/65° S	Grid East: E; UTM 627557 E; Sample Width: 15 cm	Type: Grab; Strike Length Exp:; True Width: 15 cm; Host : Quartz-feldspar-biotite porphyry	Alteration: mCY, vsMS; Metallics: 35%PY, 2%EN?; Secondaries:	1.46 g/t	113.3 g/t	3299	72
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					1.083 %	0.62 %	1231	0.97 %

Sampled By: JJL 27-Aug-00

Very friable sulphides (weathering), in discrete structure. Enargite content variable along strike.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number: **206634 Thorn**
Grid North: N Grid East: E | Type: Grab | Alteration: mCY, sMS
UTM 6491598 N UTM 627609 E | Strike Length Exp: 2+ m | Metallics: 15%PY, trEN/TT
Elevation: 640 m Sample Width: 2.25 m | True Width: 2 m | Secondaries:
Vein+Fault 080°/85° S | Host : Quartz feldspar biotite porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
3.22 g/t	380.1 g/t	3482	101
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
0.825 %	371	6288	863

Sampled By: JJL 27-Aug-00
Tamhdu Vein. On strike uphill from sample 206815. Quartz breccia and fracture zone. Strong fracture foliation.

Sample Number: **206635 Thorn**
Grid North: N Grid East: E | Type: | Alteration:
UTM N UTM E | Strike Length Exp: | Metallics:
Elevation: m Sample Width: 0 cm | True Width: 0 cm | Secondaries:
Host :

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**

Sampled By: JJL 27-Aug-00
Blank for QA purposes.

Sample Number: **206636 Thorn**
Grid North: N Grid East: E | Type: Grab | Alteration: sCL
UTM 6491636 N UTM 627524 E | Strike Length Exp: 3 m | Metallics: 1%CP, trGL, 3%PY, trSP,
Elevation: 645 m Sample Width: 50 cm | True Width: 50 cm | Secondaries: 1%CC, trMC
Fault 108°/63° S | Host : Stuhini andesite

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
2.24 g/t	207.6 g/t	3963	1051
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
3.341 %	0.52 %	22	1.22 %

Sampled By: JJL 27-Aug-00
Minor mineralized fault ~20 m west-southwest of altered intrusive. Appears faulted toward west.

Sample Number: **206637 Thorn**
Grid North: N Grid East: E | Type: Grab | Alteration: sMS
UTM 6491624 N UTM 627521 E | Strike Length Exp: 6 m | Metallics: 3%PY, 1%TT+EN
Elevation: 650 m Sample Width: | True Width: | Secondaries:
Vein 092°/85° | Host : Quartz feldspar biotite porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
5.04 g/t	311.2 g/t	8584	166
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
2.471 %	1017	1703	3030

Sampled By: JJL 27-Aug-00
Very strongly broken with erratic pyrite veins <5 cm and erratic enargite/tetrahedrite pods. Veins are clay-altered. Heavily fractured with gypsum on fractures.

Sample Number: **206638 Thorn**
Grid North: N Grid East: E | Type: Grab | Alteration: mCL
UTM 6491633 N UTM 627522 E | Strike Length Exp: 8 m | Metallics: trAS,3%CP,1%GL,2%PY, 1%S
Elevation: 650 m Sample Width: 40 cm | True Width: 40 cm | Secondaries: wAZ
Vein+Fault 008°/88° E | Host : Andesite

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
132	696.2 g/t	860	12878
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1.853 %	2.73 %	60	2946

Sampled By: JJL 27-Aug-00
Small shear zone - variably mineralized along strike.

Sample Number: **206639 Thorn**
Grid North: N Grid East: E | Type: Float | Alteration:
UTM 6491630 N UTM 627525 E | Strike Length Exp: | Metallics: 1%AS, 1%PY
Elevation: 645 m Sample Width: | True Width: | Secondaries:
Host :

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
72	5.3	37000	16
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
369	97	17	93

Sampled By: JJL 27-Aug-00
Rusty float block (40x30x20 cm). One end of block has dark fragments with very fine-grained numerous needle-like silver crystals (arsenopyrite?). Block cross-cut by quartz-carbonate veinlets <3 mm. Sample 4 m south of 206636.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number: **206640 Thorn**
Grid North: N Grid East: E Type: Grab Alteration: sCL
UTM 6491577 N UTM 627484 E Strike Length Exp: Metallics:
Elevation: 725 m Sample Width: 1.5 m True Width: 1.5 m Secondaries: mMC
Dyke 220°/78° NW Host : Andesite

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
22	2.7	133	27
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1431	95	12	165

Sampled By: JJL 27-Aug-00
Outcrop on west side of Gelb Creek. Dyke at contact with quartz feldspar porphyry. Sample taken next to dyke in andesite. Malachite but no primary sulphides.

Sample Number: **206641 Thorn**
Grid North: N Grid East: E Type: Grab Alteration:
UTM 6491769 N UTM 627009 E Strike Length Exp: 15 m Metallics: 2%AS, trCP, 5%PY, trSP
Elevation: 835 m Sample Width: 2 m True Width: 2 m Secondaries:
Vein 103°/48° S Host : Quartz-calcite-iron carbonate vein

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
57.38 g/t	89.7	54689	299
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
2868	2601	1301	3722

Sampled By: JJL 28-Aug-00
G Zone runs along creek, crosscutting argillite bedding @270°/60°N. Brecciated and veined fault zone with erratic sulphide distribution.

Sample Number: **206642 Thorn**
Grid North: N Grid East: E Type: Grab Alteration:
UTM 6491756 N UTM 627050 E Strike Length Exp: 2 m Metallics: 5%AS, 6%PY, trSP
Elevation: 805 m Sample Width: 0.5 m True Width: Secondaries:
Host : Pillow basalt

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
26.52 g/t	322 g/t	19696	4235
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1696	0.57 %	629	896

Sampled By: JJL 28-Aug-00
At intersection of G Zone structure with main creek. Early creamy carbonate cross-cut by grey quartz. Intersection or splay of Gee Creek fault and G Zone fault.

Sample Number: **206643 Thorn**
Grid North: N Grid East: E Type: Grab Alteration:
UTM 6491742 N UTM 627118 E Strike Length Exp: 3 m Metallics: trAS,trCP,trGL,7%PY,trSP
Elevation: 795 m Sample Width: 65 cm True Width: 65 cm Secondaries:
Vein 078°/55° S Host : Andesite

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
505	8.9	2519	55
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
749	142	33	558

Sampled By: JJL 28-Aug-00
Whiz Vein. Small gully to south of Gee Creek. Very rusty fractured volcanic with sparse <1mm stringers of pyrite ± arsenopyrite, Underlying vein 0.65 m width exposed TW?

Sample Number: **206644 Thorn**
Grid North: N Grid East: E Type: Select/Grab Alteration:
UTM 6491742 N UTM 627118 E Strike Length Exp: 3 m Metallics: 25%PY,1%SP,trAS,trCP, trGL
Elevation: m Sample Width: 40 cm True Width: Secondaries:
Vein 078°/35° Host :

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
1238	23.7	3695	158
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1998	319	17	216

Sampled By: JJL 28-Aug-00
Whiz Vein. Same location as 206643. High grade sample of pyrite-rich zone.

Sample Number: **206645 Thorn**
Grid North: N Grid East: E Type: Grab Alteration: wCY
UTM 6494617 N UTM 624840 E Strike Length Exp: 6 m Metallics:
Elevation: m Sample Width: 4 m True Width: 4 m Secondaries:
Bedding 340°/34° NE Host : Basalt/andesite - ash tuff

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
3	< .3	8	< 3
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
15	24	< 3	52

Sampled By: JJL 29-Aug-00
Weak clay-altered zone - bedding parallel to fault? Minor iron stain on fracture surfaces. No sulphides. Clay alteration appears contained within medium grained ash tuff. Fault at 135°/65° with chlorite on fault surface.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number: 206646 Thorn

Grid North: N Grid East: E | Type: Grab | Alteration: sSI
UTM 6494623 N UTM 624748 E | Strike Length Exp: | Metallics:
Elevation: 510 m Sample Width: 2 m | True Width: 2 m | Secondaries:
Bedding 040°/85° | Host : Cherty tuff(?)

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
5	< .3	8	< 3
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
16	11	< 3	110

Sampled By: JJL 29-Aug-00

Strange rock with no sulphides. Silicified "lump", commonly as a discontinuous 5 m thick bed, weathering light rusty brown in a maroon matrix.

Sample Number: 206647 Thorn

Grid North: N Grid East: E | Type: Grab | Alteration: CB
UTM 6494565 N UTM 624727 E | Strike Length Exp: 5 m | Metallics: trPY
Elevation: 480 m Sample Width: 30 cm | True Width: | Secondaries:
Host : Lahar

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
2	< .3	30	3
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
19	14	< 3	51

Sampled By: JJL 29-Aug-00

Carbonate-altered sheared lahar (debris flow). Variable orientation on faulting and carbonate alteration.

Sample Number: 206648 Thorn

Grid North: N Grid East: E | Type: Select | Alteration: wCY, sMS
UTM 6491321 N UTM 628297 E | Strike Length Exp: 12 m | Metallics: 5%PY, trHS
Elevation: 725 m Sample Width: 30 cm | True Width: 30 cm | Secondaries:
Fracture(s) 106°/55° S | Host : Quartz-feldspar-biotite porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
297	3.2	155	5
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
270	19	22	847

Sampled By: JJL 30-Aug-00

Small outcrop with gully (040°) running through it. Altered quartz feldspar biotite porphyry with strong fracturing at 106°/55°. Pyrite as clusters and disseminations. Pyrite commonly as dipyramids. Sample of highest pyrite content. Lots of gypsum on fractures.

Sample Number: 206649 Thorn

Grid North: N Grid East: E | Type: Select | Alteration:
UTM 6492225 N UTM 628681 E | Strike Length Exp: 2 m | Metallics: 15%PY, 7%TT+EN
Elevation: 775 m Sample Width: 15 cm | True Width: 15 cm | Secondaries:
Vein 220°/85° N | Host : Vein

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
1.18 g/t	431.4 g/t	4580	105
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1.244 %	2952	4131	1760

Sampled By: JJL 31-Aug-00

Sample taken 4 m west of flag. Zone with patchy sulphides (pyrite and enargite/tetrahedrite) over 5 m width. High grade select of single vein.

Sample Number: 206650 Thorn

Grid North: N Grid East: E | Type: | Alteration:
UTM N UTM E | Strike Length Exp: | Metallics:
Elevation: m Sample Width: 0 cm | True Width: 0 cm | Secondaries:
Host :

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**

Sampled By: JJL 31-Aug-00

Blank for QA purposes.

Sample Number: 206651 Thorn

Grid North: N Grid East: E | Type: Select | Alteration: wCY,sMS
UTM 6492225 N UTM 628673 E | Strike Length Exp: 0.5 m | Metallics: 40%PY, 5%SP, 5%TT+EN
Elevation: 780 m Sample Width: 15 cm | True Width: 15 cm | Secondaries:
Vein 070°/90° | Host : Quartz feldspar biotite porphyry

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
2.79 g/t	910.6 g/t	789	490
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
2226	7491	2282	2.12 %

Sampled By: JJL 31-Aug-00

Two pods of mineralization - one pyrite-rich and the second quartz-sphalerite-enargite in strongly fractured quartz feldspar biotite porphyry. Could enargite/tetrahedrite be lead-stibnite sulphosalt?

Rock Sample Descriptions

Project Name: Thorn | **Project: RMC00-05** | **NTS: 104K/10W**

Sample Number: **206652 Thorn**	Grid North: N; UTM 6492214 N; Elevation: 775 m	Grid East: E; UTM 628686 E; Sample Width: 15 cm	Type: Grab; Strike Length Exp: 5 m; True Width:; Host :	Alteration: sQZ; Metallics: 12%PY, 6%TT+EN; Secondaries:	Au (ppb) 1.43 g/t; Ag (ppm) 396.4 g/t; As (ppm) 5510; Bi (ppm) 1681; Cu (ppm) 1.759 %; Pb (ppm) 2667; Sb (ppm) 6584; Zn (ppm) 1442

Sampled By: JJL 31-Aug-00

Outcrop and float (?) exposed in gully. Sample of silicified zone and sulphides. Outcrop faulted and truncated by rhyolite dyke. Sample taken from 2 to 7 m northwesterly from sample tag.

Sample Number: **206653 Thorn**	Grid North: N; UTM 6492176 N; Elevation: 745 m	Grid East: E; UTM 628690 E; Sample Width: 3 m	Type: Float; Strike Length Exp:; True Width:; Host :	Alteration: sMS; Metallics: trGL?, 7%PY, 3%SP, 4%TT/EN; Secondaries:	Au (ppb) 1.21 g/t; Ag (ppm) 78.3 g/t; As (ppm) 1000; Bi (ppm) 50; Cu (ppm) 874; Pb (ppm) 8608; Sb (ppm) 831; Zn (ppm) 3.86 %

Sampled By: JJL 31-Aug-00

Numerous 3x3x3m boulders (off hill to N) with strong stockwork veining (well mineralized). Variable sulphide mineralogy ± sphalerite ± "enargite/tetrahedrite". Grab from three boulders.

Sample Number: **206654 Thorn**	Grid North: N; UTM 6492205 N; Elevation: 760 m; Fracture(s) 060°/90°	Grid East: E; UTM 628556 E; Sample Width: 20 cm	Type: Grab; Strike Length Exp: 2 m; True Width: 20 cm; Host : Quartz-feldspar-biotite porphyry	Alteration: sMS; Metallics: 40%PY; Secondaries:	Au (ppb) 1.79 g/t; Ag (ppm) 102.2 g/t; As (ppm) 383; Bi (ppm) 114; Cu (ppm) 1642; Pb (ppm) 2179; Sb (ppm) 706; Zn (ppm) 0.71 %

Sampled By: JJL 31-Aug-00

Crude orientation on fracture. Variably pyritized. Numerous other slips and fractures ± pyrite.

Sample Number: **206655 Thorn**	Grid North: N; UTM 6492155 N; Elevation: 775 m; Vein 260°/85° N	Grid East: E; UTM 628546 E; Sample Width: 1 m	Type: Grab; Strike Length Exp: 35 m; True Width: 1 m; Host : Quartz-feldspar-biotite porphyry	Alteration: wCY, sMS; Metallics: 15%PY, trTT+EN; Secondaries: JA	Au (ppb) 2.81 g/t; Ag (ppm) 113 g/t; As (ppm) 404; Bi (ppm) 86; Cu (ppm) 1102; Pb (ppm) 955; Sb (ppm) 1052; Zn (ppm) 683

Sampled By: JJL 31-Aug-00

F Zone. Breccia zone/fault/vein. Sampled to west of 6 m dextral offset. Upstream side shifted to south. Dominantly pyrite in main structure. 180°/70° W is fault offsetting structure on east. (170°/77° is minor)

Sample Number: **206656 Thorn**	Grid North: N; UTM 6492149 N; Elevation: 745 m; Vein 260°/85°	Grid East: E; UTM 628558 E; Sample Width: 1.2 m	Type: Grab; Strike Length Exp: 40 m; True Width: 1.2 m; Host : Altered quartz feldspar biotite porphyry - breccia zone	Alteration: sMS; Metallics: 15%PY, trTT+EN; Secondaries:	Au (ppb) 4.56 g/t; Ag (ppm) 388.7 g/t; As (ppm) 739; Bi (ppm) 344; Cu (ppm) 3115; Pb (ppm) 1801; Sb (ppm) 1699; Zn (ppm) 1147

Sampled By: JJL 31-Aug-00

F Zone. Same structure as 206655 east of dextral offset. Frothy quartz. Pyrite clusters. Breccia in part. Vein not too planar.

Sample Number: **206657 Thorn**	Grid North: N; UTM 6492156 N; Elevation: 745 m; 178°/85°	Grid East: E; UTM 628574 E; Sample Width: 5 cm	Type:; Strike Length Exp: 1 m; True Width: 5 cm; Host : Quartz feldspar biotite porphyry	Alteration: wCY, sMS; Metallics: 10%PY, 3%HS(PA?); Secondaries:	Au (ppb) 1.83 g/t; Ag (ppm) 309.7 g/t; As (ppm) 4040; Bi (ppm) 732; Cu (ppm) 0.872 %; Pb (ppm) 2619; Sb (ppm) 4786; Zn (ppm) 2451

Sampled By: JJL 31-Aug-00

F Zone. Cross structure on main vein sampled. Specular hematite (pyrargyrite?) and pyrite. Main structure 244°/70°.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number:	Grid North: N	Grid East: E	Type:	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206658 Thorn	UTM 6492128 N	UTM 628511 E	Strike Length Exp: 10 m	Metallics: 25%PY, 7%HS(PA?),	1.48 g/t	328.4 g/t	10516	157
	Elevation: 730 m	Sample Width: 0.5 m	True Width: 0.5 m	Secondaries: mSR trTT+EN?	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host :		2.938 %	6361	21535	4066

Type: Grab. Alteration: sCY.

Sampled By: JJL 31-Aug-00

Large clay alteration bounding core of sericite ± quartz zone.

Sample Number:	Grid North: N	Grid East: E	Type:	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206659 Thorn	UTM 6492203 N	UTM 628888 E	Strike Length Exp: 3 m	Metallics: 8%PY	654	18.9	1830	5
	Elevation: m	Sample Width: 50 cm	True Width: 50 cm	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 206°/74° W		Host : Quartz feldspar biotite porphyry		86	5802	1506	3539

Type: Grab. Alteration: sMS, sSI.

Sampled By: JJL 01-Sep-00

Silver-coloured, metallic, fine-grained massive and tiny needle-like crystals (arsenopyrite?/stibnite?). Vein hosted in strongly silicified quartz feldspar biotite porphyry. Second vein 090°/65° S - 15 cm wide.

Sample Number:	Grid North: N	Grid East: E	Type:	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206660 Thorn	UTM 6492225 N	UTM 628882 E	Strike Length Exp: 2 m	Metallics: 1%AS, 1%PY	219	0.7	3132	< 3
	Elevation: m	Sample Width: 15 cm	True Width: 15 cm	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 096°/85° S		Host : Quartz feldspar biotite porphyry - breccia - weakly altered		13	58	26	171

Type: Grab. Alteration: SI.

Sampled By: JJL 01-Sep-00

Sample taken 5 m upstream at water's edge. Parallel stringers of quartz ~1-2 cm width with no sulphides. Lowest stringer has 1% arsenopyrite as needle crystals.

Sample Number:	Grid North: N	Grid East: E	Type:	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206661 Thorn	UTM 6492336 N	UTM 628705 E	Strike Length Exp:	Metallics: 15%PY, 1%TT+EN	450	7.4	194	< 3
	Elevation: 840 m	Sample Width: 1 m	True Width:	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Quartz feldspar biotite porphyry		69	222	22	78

Type: Grab. Alteration: sCY, sMS.

Sampled By: JJL 01-Sep-00

Sample taken at top of clay/sericite outcrop. Erratic pyrite ± enargite(?) veining in rubbly fault(?) material (dip slope?)

Sample Number:	Grid North: N	Grid East: E	Type:	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206662 Thorn	UTM 6492213 N	UTM 628619 E	Strike Length Exp: 50 m	Metallics: 3%PY, trTT+EN	1.94 g/t	79.8	978	47
	Elevation: m	Sample Width: 0.75 m	True Width: 0.75 m	Secondaries: sJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 215°/40° NW		Host : Quartz feldspar biotite porphyry		1314	227	1145	53

Type: Grab. Alteration: sMS.

Sampled By: JJL 01-Sep-00

Silicified/vein zone up to 2 m width. "Frothy" to vuggy quartz in footwall (30 cm). Patchy pyrite ± enargite, dominantly in footwall and hanging wall quartz-rich zones. Two right lateral offsets across hill, 2-3 m each.

Sample Number:	Grid North: N	Grid East: E	Type:	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206663 Thorn	UTM 6492024 N	UTM 628247 E	Strike Length Exp: 30 m	Metallics: 15%PY, 2%HS(PA?)	1.42 g/t	189.1 g/t	1971	138
	Elevation: m	Sample Width: 20 cm	True Width: 20 cm	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 225°/80°		Host : Quartz-feldspar-biotite porphyry		0.563 %	754	2216	4579

Type: (blank). Alteration: sMS.

Sampled By: JJL 01-Sep-00

Quartz breccia 1.5 m thick. Footwall only sampled. Pyrite and specular hematite (pyrargyrite?).

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number	Location		Sample		Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206801 **Thorn**	Grid North: N / UTM 6491688 N / Elevation: 600 m	Grid East: E / UTM 627689 E / Sample Width: 70 cm / Vein 052°/80° S	Type: Grab / Strike Length Exp: 1.2 m / True Width: 70 cm / Host : Coarse quartz feldspar mica porphyry	Alteration: sMS, mSI / Metallics: 5%PY, trEN / Secondaries: wGE	23	1.9	98	5
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					40	269	10	153

Sampled By: HJA 20-Aug-00

MP Vein. Hanging wall to 129057. Medium grey. Orange-red mineral or stain near disseminated fine-grained enargite. Fine-grained disseminated pyrite. Sparse strongly silicified 'veins' paralleling pyrite-enargite-tetrahedrite vein. Hexagonal quartz phenocrysts, 5 mm across. Whole rock sample.

Sample Number	Location		Sample		Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206802 **Thorn**	Grid North: N / UTM 6491846 N / Elevation: 635 m	Grid East: E / UTM 627776 E / Sample Width: 14 cm / Vein 060°/75° S	Type: Grab / Strike Length Exp: 0.8 m / True Width: 14 cm / Host : Vein in coarse quartz feldspar mica porphyry	Alteration: sCY, 40%QZ / Metallics: 50%PY, trEN / Secondaries: sJA	581	92.9 g/t	4953	52
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					1.615 %	276	2418	2802

Sampled By: HJA 20-Aug-00

70% medium grained pyrite with interstitial quartz for 9 cm. Southern 5 cm is light grey, almost chalcedonic quartz. Enargite (and tetrahedrite ?) in 2 mm band between the two. Vein widens to west, then truncated by irregular fracture trending 300°/80°E.

Sample Number	Location		Sample		Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206803 **Thorn**	Grid North: N / UTM 6491846 N / Elevation: 635 m	Grid East: E / UTM 627776 E / Sample Width: 2 m / Vein 060°/75° S	Type: Grab / Strike Length Exp: 10 m / True Width: 1.5 m / Host : Coarse quartz feldspar mica porphyry	Alteration: sMS / Metallics: 10%PY, trEN? / Secondaries: sJA	59	5.9	256	8
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					92	536	30	615

Sampled By: HJA 20-Aug-00

Footwall to 206802. Disseminated and lesser fracture-filling medium-grained pyrite.

Sample Number	Location		Sample		Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206804 **Thorn**	Grid North: N / UTM 6491846 N / Elevation: 630 m	Grid East: E / UTM 627806 E / Sample Width: 25 cm	Type: Float / Strike Length Exp: / True Width: / Host : Quartz sulphide vein	Alteration: 95%QZ / Metallics: 2%PY, 1%EN / Secondaries: mJA	579	138.1 g/t	3050	69
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					0.677 %	69	1824	481

Sampled By: HJA 20-Aug-00

Angular 25x25x35 cm boulder in Camp Creek. Mottled medium and dark grey vein quartz (almost chalcedony) with clusters and disseminations of fine-grained pyrite and enargite.

Sample Number	Location		Sample		Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206805 **Thorn**	Grid North: N / UTM 6491876 N / Elevation: 640 m	Grid East: E / UTM 627875 E / Sample Width: 1.2 m	Type: Grab / Strike Length Exp: 10 m / True Width: 1.2 m / Host : Feldspar quartz biotite porphyry	Alteration: mCL, wCY, mMS / Metallics: 2%PY / Secondaries: sGE	12	0.7	113	< 3
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					333	23	8	244

Sampled By: HJA 20-Aug-00

Feldspars argillized, matrix altered to chlorite and sericite. Fine grained disseminated pyrite. Whole rock sample.

Sample Number	Location		Sample		Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206806 **Thorn**	Grid North: N / UTM 6491872 N / Elevation: 655 m	Grid East: E / UTM 627958 E / Sample Width: 1.5 m / Vein 274°/70° N	Type: Grab / Strike Length Exp: 25 m / True Width: 1.5 m / Host : Coarse feldspar quartz muscovite porphyry	Alteration: sCY, sMS / Metallics: 2%PY / Secondaries: wGE, sJA	713	13.4	118	12
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					60	104	29	155

Sampled By: HJA 20-Aug-00

4 m wide planar alteration zone. Elsewhere in alteration zone, unsampled quartz veining and semi-massive pyrite vein. Variably sericitized and argillized. Wall rock is mCL, wMS porphyry.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number	Location	Type / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206807 Thorn Sampled By: HJA 20-Aug-00	Grid North: N Grid East: E; UTM 6491872 N UTM 627958 E; Elevation: 650 m; Sample Width: 80 cm; Vein 274°/70° N	Type: Chip; Strike Length Exp: 20 m; True Width: 80 cm; Host: Feldspar-quartz-biotite porphyry	Alteration: wCY, sMS, QZ; Metallics: 10%PY; Secondaries: mGE, sJA	797	22.0	146	13	277	296	88	171
206808 Thorn Sampled By: HJA 20-Aug-00	Grid North: N Grid East: E; UTM 6491859 N UTM 627910 E; Elevation: 620 m; Sample Width: 35 cm	Type: Float; Strike Length Exp:; True Width:; Host: Quartz sulphide vein in feldspar-quartz-muscovite porphyry	Alteration: 70%QZ; Metallics: 15%HS, 10%PY, 5%EN; Secondaries: wGE, trHE, mJA, trSR	24.14 g/t	1066.7 g/t	34651	1206	9.185 %	584	23422	1.29 %
206809 Thorn Sampled By: HJA 21-Aug-00	Grid North: N Grid East: E; UTM 6492012 N UTM 627970 E; Elevation: 715 m; Sample Width: 1.2 m; Fault 260°/55° N	Type: Chip; Strike Length Exp: 50 m; True Width: 0.8 m; Host: Feldspar-quartz-biotite porphyry	Alteration: sCY; Metallics:; Secondaries: sGE	83	6.8	566	8	663	323	147	259
206810 Thorn Sampled By: HJA 21-Aug-00	Grid North: N Grid East: E; UTM 6491972 N UTM 628160 E; Elevation: 760 m; Sample Width: 2.5 m	Type: Grab; Strike Length Exp: 50 m; True Width: 2.5 m; Host: Quartz feldspar porphyry	Alteration: sMS, mSI; Metallics: 2%PY, trEN; Secondaries: wGE, sJA, trRE?	206	9.2	211	16	435	31	143	146
206811 Thorn Sampled By: HJA 22-Aug-00	Grid North: N Grid East: E; UTM 6491588 N UTM 627860 E; Elevation: 640 m; Sample Width: 3 m; Vein 070°/85° S	Type: Grab; Strike Length Exp: 30 m; True Width: 3 m; Host: Vein zone in feldspar-quartz-biotite porphyry	Alteration: 50%QZ, sSI, wAL; Metallics: <1%PY, trSP, trEN, trPA; Secondaries: wGE, trHE, mJA,trSR	3424	76.4	326	79	468	139	378	142
206812 Thorn Sampled By: HJA 22-Aug-00	Grid North: N Grid East: E; UTM 6492948 N UTM 631452 E; Elevation: 1300 m; Sample Width: 3 m; Joint 212°/50° NW	Type: Grab; Strike Length Exp: 30 m; True Width: 3 m; Host: Fine-grained monzonite(?)	Alteration: wKF, mSI; Metallics: <1%CP, trMO, 1%PY; Secondaries: wGE, trMC, trNE	49	2.0	19	6	986	25	12	40

206807: 5 m west of 206806 on same structure. Patches and bands of heavy (>50%) pyrite. Width of structure is 3 m but remainder covered by talus. Structure forms well-defined draw, parallel to fracturing and sulphide concentrations.

206808: L Zone. Angular boulder coming down from draw. Both enargite and specularite (in separate patches?) along with pyrite in poorly defined quartz-sulphide vein."Specularite" may actually be pyrargyrite.

206809: 2 m wide zone of intensely argillized porphyry with local fault breccia. Locally stained bright orange but no remnant sulphides. Fairly fresh 1 m andesite dyke (weakly chloritic) forms immediate footwall.

206810: Medium grey. Intensely altered, so that only quartz phenocrysts remain. Disseminated pyrite and rare clusters enargite. Rare orange stain/crystal (realgar?). Orientation not clear.

206811: B Zone. White quartz veinlets and veins with locally abundant pyrite-filled boxwork meander through vuggy silica (after feldspar-quartz-biotite porphyry) and locally alunitized porphyry. Purple stain.

206812: Cirque Creek. Fine-grained siliceous buff monzonite(?). Chalcopyrite on fractures and in coarse clots in sparse quartz veinlets, rarely accompanied by trace molybdenite. Whole rock sample.

Rock Sample Descriptions

Project Name: Thorn — Project: RMC00-05 — NTS: 104K/10W

Sample Number	Location		Type / Host	Alteration / Mineralization	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206813 Thorn	Grid North: N; UTM 6492873 N; Elevation: 1396 m; Joint 170°/80° W	Grid East: E; UTM 630964 E; Sample Width: 1.2 m	Type: Grab; Strike Length Exp: 20 m; True Width: 1.2 m; Host: Rhyolite	Alteration: ; Metallics: ; Secondaries: mGE	29	1.1	20	88
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					22	13	5	1
Sampled By: HJA 23-Aug-00	White fine-grained massive rhyolite. Boxwork after 1% pyrite near fractures. Whole rock sample.							
206814 Thorn	Grid North: N; UTM 6491650 N; Elevation: 590 m	Grid East: E; UTM 627665 E; Sample Width: 15 cm	Type: Float; Strike Length Exp: ; True Width: ; Host: Pyrite-enargite-tetrahedrite vein	Alteration: 3%QZ, 7%AL; Metallics: 60%PY, 30%EN/TT; Secondaries: sGE, mSR	22.13 g/t	2413.5 g/t	38103	133
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					12.045 %	162	29314	3502
Sampled By: HJA 27-Aug-00	Angular boulder at base of cliffs below Tamdhu Vein. Medium-grained pyrite and fine-grained waxy-looking pale-green-stained vein alunite and vein quartz cut by irregular vermicular enargite bands.							
206815 Thorn	Grid North: N; UTM 6491609 N; Elevation: 620 m; Vein 250°/85° N	Grid East: E; UTM 627643 E; Sample Width: 0.9 m	Type: Chip; Strike Length Exp: 5 m; True Width: 0.9 m; Host: Quartz-pyrite vein in coarse feldspar-quartz-biotite porphyr	Alteration: sCY, 30%QZ; Metallics: 20%PY, trEN; Secondaries: wGE, sJA	2.73 g/t	51.6 g/t	289	33
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					719	320	300	51
Sampled By: HJA 27-Aug-00	30 cm quartz pyrite vein (30% pyrite) in intensely argillized porphyry with above average pyrite content.							
206816 Thorn	Grid North: N; UTM N; Elevation: m	Grid East: E; UTM E; Sample Width: 0 cm	Type: ; Strike Length Exp: ; True Width: 0 cm; Host: Fresh monzonite	Alteration: ; Metallics: ; Secondaries:				
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
Sampled By: HJA 27-Aug-00	Blank for QA purposes. (Glassy feldspars, fresh mafics)							
206817 Thorn	Grid North: N; UTM 6491612 N; Elevation: 620 m; Vein 080°/50° S	Grid East: E; UTM 627638 E; Sample Width: 90 cm	Type: Chip; Strike Length Exp: 5 m; True Width: 90 cm; Host: Chalcedony-pyrite-enargite vein	Alteration: 50%QZ; Metallics: 30%PY, 10%EN/TT; Secondaries: wGE	5.31 g/t	399.9 g/t	7790	45
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					2.503 %	133	3729	326
Sampled By: HJA 27-Aug-00	Tamdhu Vein. Chalcedonic medium-grey quartz with irregular bands of fine-grained pyrite and medium-grained enargite running through it. Bounded by 20 cm white clay gouge to north. Continues as 206818 to south.							
206818 Thorn	Grid North: N; UTM 6491612 N; Elevation: 620 m; Vein 080°/50° S	Grid East: E; UTM 627638 E; Sample Width: 150 cm	Type: Chip; Strike Length Exp: 5 m; True Width: 120 cm; Host: Chalcedony-pyrite-enargite vein	Alteration: 90%QZ; Metallics: 5%PY, <1%EN/TT; Secondaries: sGE, trRE?	3.31 g/t	260 g/t	1510	41
					Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					3076	115	1718	27
Sampled By: HJA 27-Aug-00	Continuation of 206817 to south (Tamdhu Vein). South edge of vein covered by clay talus, but 50 cm further south is argillized porphyry. Less sulphides, but still boxwork after 10% sulphides. Medium-grey chalcedony. Local red stain (realgar?) in boxwork.							

Rock Sample Descriptions

Project Name: Thorn | **Project: RMC00-05** | **NTS: 104K/10W**

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: 20%CB, 75%QZ	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206819	UTM 6491742 N	UTM 627511 E	Strike Length Exp: 0.8 m	Metallics: 5%PY	320	6.1	169	76
Thorn	Elevation: 620 m	Sample Width: 12 cm	True Width: 12 cm	Secondaries: mGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 240°/80° N		Host : Quartz-carbonate-pyrite vein in Stuhini andesite		313	16	58	19

Sampled By: HJA 27-Aug-00 — Intensely fractured over 50 cm with 12 cm quartz-carbonate vein containing scaly, coarse pyrite.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: 70%QZ	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206820	UTM 6491721 N	UTM 627505 E	Strike Length Exp: 1.5 m	Metallics: 30%PY	654	20.5	459	115
Thorn	Elevation: 625 m	Sample Width: 12 cm	True Width: 12 cm	Secondaries: sGE, wJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 070°/85° S		Host : Quartz-pyrite vein in Stuhini andesite		1986	17	365	73

Sampled By: HJA 27-Aug-00 — Coarse scaly pyrite in light to medium grey vein quartz. Emplaced in 1 m wide zone of intense fracturing parallel to vein.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: 15%CB, wCL, 20%QZ	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206821	UTM 6491697 N	UTM 627516 E	Strike Length Exp:	Metallics: 15%GL, 5%PY, 15%SP	726	237.9 g/t	3468	< 3
Thorn	Elevation: 620 m	Sample Width: 10 cm	True Width:	Secondaries: sGE, mSM	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Quartz-carbonate-sulphide vein in andesite		1134	7.5 %	98	24.35 %

Sampled By: HJA 27-Aug-00 — Angular boulder in creek draw. Coarse galena, dark brown sphalerite and fine-grained pyrite in irregular quartz-carbonate vein cutting chloritized andesite.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sCY	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206822	UTM 6491625 N	UTM 627528 E	Strike Length Exp: 1 m	Metallics: 50%PY, 2%EN	361	21.9	1767	117
Thorn	Elevation: 650 m	Sample Width: 30 cm	True Width: 30 cm	Secondaries: sGE, wHE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 055°/55° SE		Host : Pyrite-clay vein in quartz-poor feldspar-quartz-biotite porph.		5367	410	248	897

Sampled By: HJA 27-Aug-00 — Recessive white clay vein (or replacement) with semi-massive fine-grained pyrite and local veinlets of enargite.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: wCL	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206823	UTM 6491595 N	UTM 627504 E	Strike Length Exp: 2 m	Metallics:	15	1.0	1238	4
Thorn	Elevation: 685 m	Sample Width: 75 cm	True Width: 75 cm	Secondaries: sGE, trMC, wNE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Andesitic fragmental (Stuhini)		662	204	20	567

Sampled By: HJA 27-Aug-00 — Very fractured and rubbly between andesite dyke and feldspar quartz biotite porphyry contact. Green and maroon Stuhini lapilli tuff.

Sample Number:	Grid North: N	Grid East: E	Type: Chip	Alteration: mCY, mMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206824	UTM 6491580 N	UTM 627509 E	Strike Length Exp: 2 m	Metallics: 8%PY, 1%EN	1.24 g/t	127.2 g/t	8764	245
Thorn	Elevation: 700 m	Sample Width: 95 cm	True Width: 95 cm	Secondaries: mGE, wJA, wSR	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 070°/80° S		Host : Quartz-poor feldspar-quartz-biotite porphyry		1.906 %	476	3692	377

Sampled By: HJA 27-Aug-00 — Three parallel clay-pyrite-enargite 2-7 cm veins in argillized (pale blue-grey) porphyry. Probable source of silver-rich enargite-tetrahedrite pebbles in Gelb Creek. Pyrite and enargite also disseminated in wall rock. Individual veinlets are discontinuous. Whole rock sample.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: mCY, mMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206825 Thorn	UTM 6491580 N	UTM 627509 E	Strike Length Exp: 2 m	Metallics: 5%PY, trEN(?)	81	11.9	539	3
	Elevation: 700 m	Sample Width: 130 cm	True Width: 100 cm	Secondaries: sGE, wJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 070°/80° S		Host : Quartz-poor feldspar-quartz-biotite porphyry		164	112	134	92

Sampled By: HJA 27-Aug-00

Footwall (north side) of 206824. Medium gray. Fine-grained disseminated pyrite and sparse finer black specks.

Sample Number:	Grid North: N	Grid East: E	Type: Chip	Alteration: sMS, <5%QZ	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206826 Thorn	UTM 6491566 N	UTM 627489 E	Strike Length Exp: 1 m	Metallics: 10%PY,1%EN,trPA,<1%T	4.45 g/t	306.3 g/t	4933	3753
	Elevation: 705 m	Sample Width: 115 cm	True Width: 90 cm	Secondaries: sGE, wJA, wSR	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 045°/90°		Host : Quartz-poor feldspar-quartz-biotite porphyry		1.216 %	1613	11896	1732

Sampled By: HJA 28-Aug-00

Two parallel 0.5-12 cm quartz-pyrite-enargite-tetrahedrite-pyrargyrite veinlets and one 15 cm scorodite-stained clay bounding fault (northeast edge) in sericitized porphyry with 5% disseminated pyrite. Not exposed to southeast to see whether more parallel veinlets are present.

Sample Number:	Grid North: N	Grid East: E	Type: Chip	Alteration: sCY, sMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206827 Thorn	UTM 6491566 N	UTM 627489 E	Strike Length Exp: 1 m	Metallics: 3%PY, trEN	0.85 g/t	28.3	279	55
	Elevation: 705 m	Sample Width: 75 cm	True Width: 75 cm	Secondaries: mGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Fault 045°/90°		Host : Quartz-poor feldspar-quartz-biotite porphyry		99	113	532	37

Sampled By: HJA 28-Aug-00

Wall rock to northwest of 206826. Fine-grained disseminated pyrite and sparse black specks (enargite?). Includes 10 cm white clay fault/slip at contact with 206826.

Sample Number:	Grid North: N	Grid East: E	Type: Chip	Alteration: sCY, mMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206828 Thorn	UTM 6491560 N	UTM 627489 E	Strike Length Exp: 1.8 m	Metallics: 80%PY, 2%TT 2%EN	0.93 g/t	99.5 g/t	5451	265
	Elevation: 710 m	Sample Width: 115 cm	True Width: 115 cm	Secondaries: mGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 010°/80° E		Host : Pyrite-enargite-tetrahedrite vein		1.683 %	335	1070	1359

Sampled By: HJA 28-Aug-00

Catto Vein. Includes two 10 cm strongly sericitic porphyry wall rock splits. Massive fine-grained pyrite with black enargite-tetrahedrite seams. White clay forms matrix to sulphides. Continues east under overburden. Joins 206829 to west. Located within recessive gully.

Sample Number:	Grid North: N	Grid East: E	Type: Chip	Alteration: sCY	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206829 Thorn	UTM 6491560 N	UTM 627489 E	Strike Length Exp: 1.8 m	Metallics: 80%PY, 5%TT, 5%EN	1.2 g/t	166 g/t	12299	234
	Elevation: 710 m	Sample Width: 110 cm	True Width: 110 cm	Secondaries: mGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 010°/80° E		Host : Pyrite-enargite-tetrahedrite vein		4.485 %	232	1960	1371

Sampled By: HJA 28-Aug-00

Catto Vein. Adjoins 206828 to west. Similar to 206828 but no wallrock splits. Locally sulphides are cohesive since clay totally absent. Western contact with intensely sericitized quartz-poor feldspar-quartz-biotite porphyry (5% disseminated pyrite). Irregular 1-4 cm sulphide veinlets extend into porphyry. Enargite is bladed: luzonite?

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sCL, wCY	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206830 Thorn	UTM 6491531 N	UTM 627453 E	Strike Length Exp: 1.5 m	Metallics: 2%AS, 5%PY	3.01 g/t	6.5	16568	7
	Elevation: 745 m	Sample Width: 8 cm	True Width: 8 cm	Secondaries: sGE, sHE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 055°/90°		Host : Stuhini andesite		467	957	47	5749

Sampled By: HJA 28-Aug-00

30 cm sheeted fracture zone, well mineralized for 8 cm. Separate patches of fine-grained pyrite and fine-grained arsenopyrite.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206831	UTM 6491407 N	UTM 627551 E	Strike Length Exp: 1.2 m	Metallics: trPA, 5%PY, trTT, 1%EN	0.83 g/t	23.9	1750	12
Thorn	Elevation: 725 m	Sample Width: 1.2 m	True Width: 1 m	Secondaries: sGE, trSR	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Feldspar(-quartz-biotite?) porphyry		3624	44	395	239

Sampled By: HJA 28-Aug-00
Highest outcrop of porphyry in Bramble Creek. Irregular veinlets and seams of pyrite ± enargite ± quartz (sparse pyrargyrite and tetrahedrite) passing through medium grey porphyry.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: mCA, wCL, mMS, mSI	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206832	UTM 6491418 N	UTM 627566 E	Strike Length Exp:	Metallics: 1%AS, trCP, trGL, trPY	346	12.7	4065	21
Thorn	Elevation: 710 m	Sample Width: 10 cm	True Width:	Secondaries: sGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Andesitic fault zone		156	822	22	828

Sampled By: HJA 28-Aug-00
Rounded boulder (10x15x30cm) in Bramble Creek. Faulted/veined and altered andesite. Bands with abundant fine-grained arsenopyrite and chalcopyrite. Rare blebs galena. Minor disseminated pyrite cubes.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: wCY, wMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206833	UTM 6491620 N	UTM 627752 E	Strike Length Exp: 4 m	Metallics: trGL, 5%PY	14	2.8	81	5
Thorn	Elevation: m	Sample Width: 1.2 m	True Width: 1.2 m	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Joint 060°/80° S		Host : Coarse feldspar-quartz-biotite porphyry		44	844	7	847

Sampled By: HJA 28-Aug-00
Grey-brown weathering. Fine-grained disseminated pyrite and sparse disseminated galena.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206834	UTM 6493000 N	UTM 626535 E	Strike Length Exp: 15 m	Metallics: 15%PY	315	13.2	210	3
Thorn	Elevation: 505 m	Sample Width: 2 m	True Width: 2 m	Secondaries: wGE, mJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Dyke 320°/70° NE		Host : Basalt dyke		54	4655	18	2040

Sampled By: HJA 29-Aug-00
Faulted and extensively pyritized black fine-grained equigranular massive basalt (?). Occupies fault zone between intensely sericitized quartz-poor feldspar-quartz-biotite porphyry to northeast and relatively fresh feldspar-phyric andesite dyke.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: wMS	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206835	UTM 6493342 N	UTM 626713 E	Strike Length Exp: 3 m	Metallics: 1%HS	12	0.7	26	< 3
Thorn	Elevation: 665 m	Sample Width: 1 m	True Width: 1 m	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Fresh feldspar-quartz-biotite porphyry		16	69	6	212

Sampled By: HJA 29-Aug-00
Fine-grained disseminated specularite in fairly fresh pale green porphyry. Whole rock sample.

Sample Number:	Grid North: N	Grid East: E	Type:	Alteration:	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206836	UTM N	UTM E	Strike Length Exp:	Metallics:				
Thorn	Elevation: m	Sample Width: 0 cm	True Width: 0 cm	Secondaries:	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host :					

Sampled By: HJA 29-Aug-00
Blank for QA purposes.

Rock Sample Descriptions

Project Name: Thorn **Project:** RMC00-05 **NTS:** 104K/10W

Sample Number: 206837 Thorn
Grid North: N | Grid East: E | Type: Grab | Alteration: sMS
UTM 6492898 N | UTM 626684 E | Strike Length Exp: 3 m | Metallics: 10%PY, 2%EN
Elevation: 510 m | Sample Width: 15 cm | True Width: 15 cm | Secondaries: sGE, sJA
Joint 340°/75° E | Host : Coarse feldspar-quartz-biotitie porphyry
Sampled By: HJA 29-Aug-00

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
1.40 g/t	52.0 g/t	3930	58
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1.216 %	89	765	72

Intense jointing in porphyry accompanied by fine-grained disseminated pyrite and clusters fine-grained pyrite. Immediately east of parallel 2 m rhyolite dyke.

Sample Number: 206838 Thorn
Grid North: N | Grid East: E | Type: Grab | Alteration:
UTM 6492853 N | UTM 628480 E | Strike Length Exp: 3 m | Metallics:
Elevation: 1104 m | Sample Width: 1 m | True Width: 1 m | Secondaries:
Host : Dacitic lapilli tuff
Sampled By: HJA 01-Sep-00

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
5	< .3	8	< 3
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
23	22	< 3	35

Grey- brown. Siliceous fragments in slightly softer matrix. Taken for whole rock comparison. Flat-lying? Whole rock sample.

Sample Number: 206839 Thorn
Grid North: N | Grid East: E | Type: Grab | Alteration: sMS
UTM 6492675 N | UTM 628432 E | Strike Length Exp: 2 m | Metallics:
Elevation: 970 m | Sample Width: 1 m | True Width: 1 m | Secondaries: wGE
Host : Dacitic tuff
Sampled By: HJA 01-Sep-00

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
3	< .3	19	< 3
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
19	22	< 3	41

Medium grey-green. Brown weathering. Unbedded, unsorted, fragments <2mm. In Eye Creek, northeast of I Zone. Whole rock sample.

Sample Number: 206840 Thorn
Grid North: N | Grid East: E | Type: Grab | Alteration: 90%QZ
UTM 6492408 N | UTM 628343 E | Strike Length Exp: 5 m | Metallics: 9%PY, 1%TT
Elevation: 905 m | Sample Width: 70 cm | True Width: 70 cm | Secondaries: trAZ, wJA
Vein 095°/65° S | Host : Quartz-sulphide vein
Sampled By: HJA 01-Sep-00

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
4.17 g/t	255.9 g/t	4893	215
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1.203 %	573	5492	212

I Zone. One of the wider, better mineralized veins. Light grey, almost chalcedonic quartz with seams and clots of fine-grained sulphides.

Sample Number: 206841 Thorn
Grid North: N | Grid East: E | Type: Grab | Alteration: 90%QZ
UTM 6492401 N | UTM 628344 E | Strike Length Exp: 5 m | Metallics: 8%PY, <1%TT, <1%EN
Elevation: 900 m | Sample Width: 2 m | True Width: 1.5 m | Secondaries: wJA
Vein 100°/40° S | Host : Quartz-sulphide vein
Sampled By: HJA 01-Sep-00

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
1.79 g/t	74.8	422	92
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1029	501	598	106

I Zone. Light grey quartz with clusters and seams of fine-grained sulphides.

Sample Number: 206842 Thorn
Grid North: N | Grid East: E | Type: Grab | Alteration: 90%QZ
UTM 6492396 N | UTM 628340 E | Strike Length Exp: 1.5 m | Metallics: 5%PY, 1%TT, 1%EN
Elevation: 900 m | Sample Width: 70 cm | True Width: 70 cm | Secondaries: wJA
Vein 105°/80° S | Host : Quartz-sulphide vein
Sampled By: HJA 01-Sep-00

Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
9.28 g/t	759.9 g/t	1219	231
Cu (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
2992	635	1973	187

I Zone. Fine-grained sulphides scattered through light-grey quartz.

Rock Sample Descriptions

Project Name: Thorn **Project: RMC00-05** **NTS: 104K/10W**

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: sCY, 5%QZ, 5%AL	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206843	UTM 6491555 N	UTM 627781 E	Strike Length Exp: 3 m	Metallics: 30%PY	854	20.7	370	23
Thorn	Elevation: 600 m	Sample Width: 10 cm	True Width:	Secondaries: wGE, sJA	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 050°/60° SE		Host : Pyrite-alunite-quartz vein in argillized feldspar-quartz-biotite		1573	310	121	144
Sampled By: HJA 02-Sep-00	In bank of LaJaune Creek. 3-25 cm semi-massive pyrite with local alunite or quartz veining. 15 cm clay crush zone in hanging wall (not sampled).							

Sample Number:	Grid North: N	Grid East: E	Type: Chip	Alteration: 10%QZ	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206844	UTM 6490685 N	UTM 628657 E	Strike Length Exp: 10 m	Metallics: 80%PY	1.28 g/t	52.8	903	44
Thorn	Elevation: 690 m	Sample Width: 125 cm	True Width: 125 cm	Secondaries: wGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 125°/80° S		Host : Massive pyrite fault vein		1392	765	82	514
Sampled By: HJA 02-Sep-00	A Zone. Clasts of coarse pyrite and lesser black argillite in matrix of finer pyrite and quartz. Forms northeast footwall to >4 m quartz-barite-sulphide vein.							

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: 80%QZ, 15%BA	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206845	UTM 6490684 N	UTM 628655 E	Strike Length Exp: 15 m	Metallics: 2%CP, 2%PY	14	8.7 g/t	27	6
Thorn	Elevation: 690 m	Sample Width: 4 m	True Width: 4 m	Secondaries: trCC,sGE,wJA,trMC	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 125°/80° S		Host : Quartz-barite-sulphide vein		1.027 %	24	3	14
Sampled By: HJA 02-Sep-00	A Zone. Adjoins to southwest of 206844. White to light grey quartz with locally abundant coarse chalcopyrite, local bands fine-grained pyrite. Bands and patches of coarse (>1 cm) randomly oriented barite crystals with medium-grained disseminated pyrite.							

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: wCA, mCL,	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206846	UTM 6490743 N	UTM 628315 E	Strike Length Exp: 15 m	Metallics: 1%PY	4	0.5	4	< 3
Thorn	Elevation: 625 m	Sample Width: 1 m	True Width: 1 m	Secondaries: wGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Coarse quartz-rich feldspar-quartz-biotite porphyry		88	11	< 3	50
Sampled By: HJA 02-Sep-00	Medium green. Feldspar phenocrysts altering to blood-red carbonate (not rhodochrosite). Whole rock sample.							

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: <5%QZ	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)
206847	UTM 6492896 N	UTM 631511 E	Strike Length Exp:	Metallics: 90%PO, 5%PY	158	4.8	158	< 3
Thorn	Elevation: m	Sample Width: 20 cm	True Width:	Secondaries: mGE	**Cu (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Massive fine-grained pyrrhotite		49	169	30	921
Sampled By: HJA 02-Sep-00	Float in moraine at Cirque Zone. Clasts of coarse pyrite in fine-grained massive pyrrhotite. Black bladed mineral (perfect cleavage, black streak) in coarse clots.							

APPENDIX D

<u>PETROGRAPHIC DESCRIPTION</u>

(Prepared by Anne J.B. Thompson and Vanessa G. Gale, PetraScience Consultants Inc.)

Sample: 129057

LITHOLOGY: Massive pyrite-tetrahedrite-enargite
ALTERATION TYPE: Quartz, sericite, diaspore

Hand Sample Description:
Fine-grained, massive pyrite and gray sulphosalt in a gray-white matrix.

MAJOR MINERALS

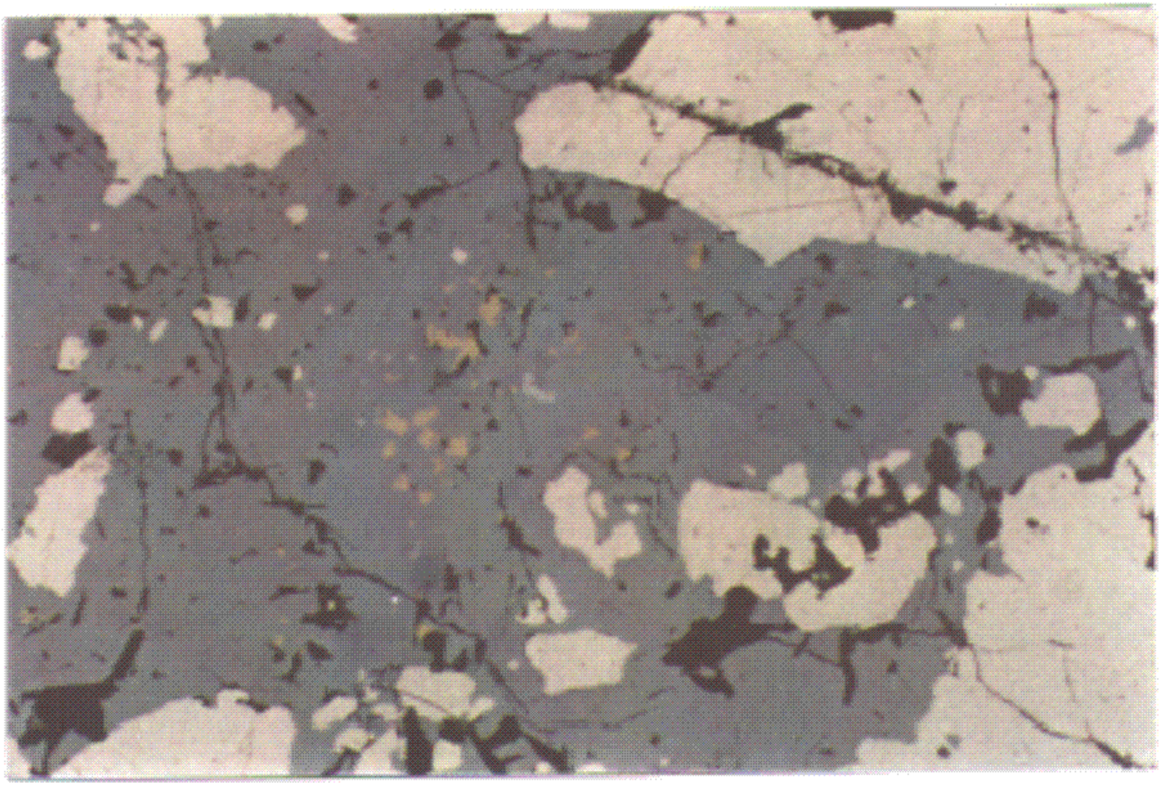
Mineral	%	Distribution & Characteristics	Optical
Tetrahedrite-Tennantite	30	massive, fills open space lined by prismatic quartz, hosts anhedral enargite inclusions, possibly replacing enargite, also hosts fine-grained stannite, pyrite, chalcopyrite and galena inclusions; locally forms veinlets cross-cutting massive pyrite	
Pyrite	30	fine to coarse-grained, typically anhedral, as inclusions in tetrahedrite and as massive aggregates	
Enargite	10	pleochroic (gray-white to purple-gray), anisotropic, as fine to medium-grained, anhedral, irregular inclusions in tetrahedrite, locally intergrown with chalcopyrite and galena	
Quartz	12	fine-grained, anhedral to subhedral, in pockets	
Sericite	07	flakey, fine-grained, in aggregates within pockets of quartz, locally in irregular veinlets (fine-grained), locally as clusters of randomly-ordered platey grains in enargite	
Diaspore	06	generally anhedral (sparse tabular grains), equant, fine-grained, in clusters within quartz-rich pockets	high relief 2nd order δ

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Chalcopyrite	03	fine-grained, anhedral, locally disseminated within tetrahedrite matrix	
Galena	01	white-gray, anhedral, fine-grained, as inclusions in tetrahedrite, commonly intergrown with chalcopyrite	soft h. reflect.
Stannite	trace	pink brown, anhedral, fine-grained inclusions in tetrahedrite	l. reflect.
Covellite	trace	very fine-grained, anhedral, violet-blue, inclusions in tetrahedrite	

Thin Section Description:
Massive tetrahedrite with irregular enargite inclusions. Tetrahedrite is possibly replacing enargite. Fine to coarse-grained pyrite occurs as large massive aggregates and inclusions in tetrahedrite. Locally, tetrahedrite veinlets cross-cut pyrite aggregates. Tetrahedrite hosts fine-grained inclusions of chalcopyrite, galena, stannite and minor covellite. Quartz forms matrix of sample and hosts clusters of diaspore and sericite. Sericite was distinguished from pyrophyllite based on birefringence, however the mica may still be pyrophyllite. Pima analysis will not be effective on this sample, due to the high sulphide and sulphosalt content.

Vanessa G. Gale and Anne J.B. Thompson, P.Geo.



129057: Chalcopyrite (yellow), galena (light gray), pyrite (cream) and enargite (gray purple) inclusions in tetrahedrite-tennantite. Field of view = 0.625mm. RL.

129057: Clusters of diaspore (blocky grains) and pyrophyllite (flakey grains, centre left) in pockets of prismatic quartz. Field of view = 2.5mm. XPL.

Sample: 206814 (626814)

LITHOLOGY: Enargite-tetrahedrite-pyrite-quartz vein
ALTERATION TYPE: Quartz, sericite

Hand Sample Description:
Massive dark gray sulphosalt, with clusters of massive pyrite, and cross-cut by pyrite veinlets. Interstitial patches are filled by gray-white quartz with small white clay-rich pockets.

MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Tetrahedrite	25	massive, strongly intergrown with enargite (locally almost myrmekitic), hosts stannite and pyrite inclusions	isotropic non-pleo
Quartz	25	generally anhedral, fine-grained, forms matrix to massive sulphide, hosts pockets of sericite	
Enargite	20	fine-grained, anhedral, forms massive, poikilitic aggregates, strongly intergrown with tetrahedrite	
Pyrite	15	fine to medium-grained, in granular aggregates intergrown with enargite and tetrahedrite	
Brown grunge	08	mottled, yellow brown and green, isotropic, filling pockets in and rimming massive sulphide	

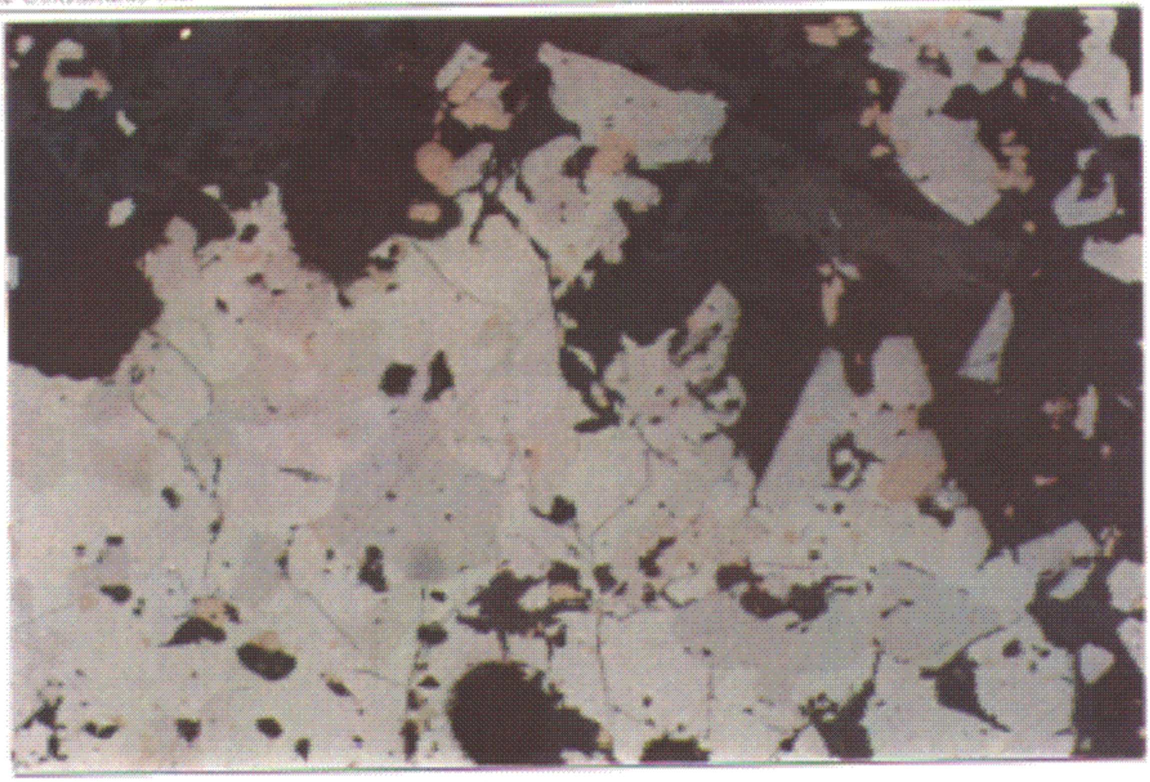
MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Sericite	04	mainly very fine-grained, stained yellow-brown, in pockets within quartz or massive sulphide; also as clusters of fine-grained flakey grains	
Stannite	02	fine-grained, anhedral, rounded, pink-orange-brown, inclusions in enargite and tetrahedrite	
Stibnite	trace	fine-grained, locally in clusters	
Acanthite-Argentite	trace	very fine-grained, anhedral grains in vugs	
Pearcite-Polybasite	trace	fine-grained, anhedral, at vug margin	
Hübnerite	trace	fine-grained, prismatic, inclusions in enargite and in vugs in tetrahedrite	
Galena	trace	fine-grained, anhedral inclusions in enargite	
Ag-telluride	trace	very fine-grained, anhedral inclusions in tetrahedrite	

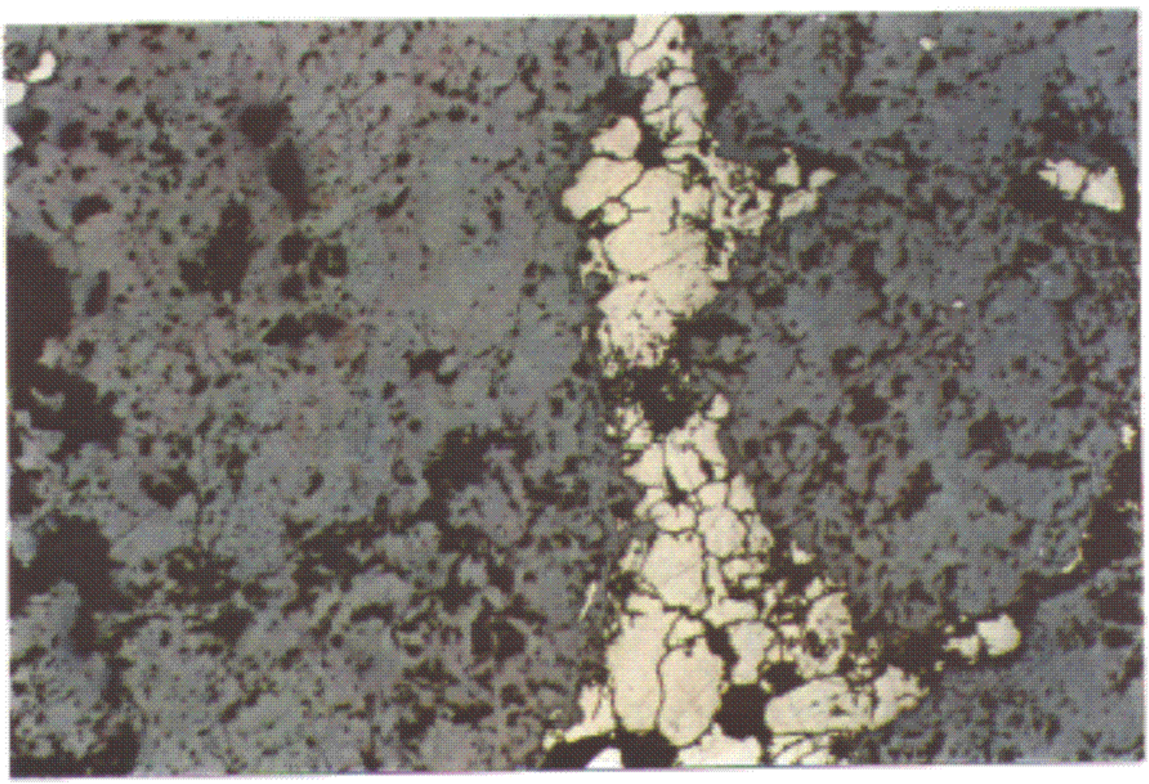
Thin Section Description:

Massive, intergown enargite and tetrahedrite, with pyrite, in a matrix of quartz with pockets of sericite. Alunite was not observed. The sulphosalts host fine-grained inclusions of stannite, hübnerite, galena and an Ag-telluride. Silver also occurs in the sulphosalt pearcite-polybasite and sulphide acanthite-argentite as isolated grains at vug margins. Enargite occurs locally as massive aggregates without tetrahedrite.

Vanessa G. Gale and Anne J.B. Thompson, P.Geo.



206814: Tetrahedrite (light gray) with enargite (pink-purple) and stannite (orange-pink) inclusions. Field of view = 0.625mm. RL.



206814: Pyrite veinlet cross-cutting tetrahedrite (light gray) and intergrown enargite (gray purple) with stannite inclusions (pink). Field of view = 2.5mm. RL.

Sample: 206829

LITHOLOGY: Enargite-pyrite vein
ALTERATION TYPE: Sericite

Hand Sample Description:
Granular, equant grains of pyrite in a massive aggregate, cross-cut by a vein of medium-grained, equant to elongate enargite. A thin veinlet of pyrite cross-cuts the centre of the enargite vein. Pockets within the pyrite and enargite are filled by a fine, white clay.

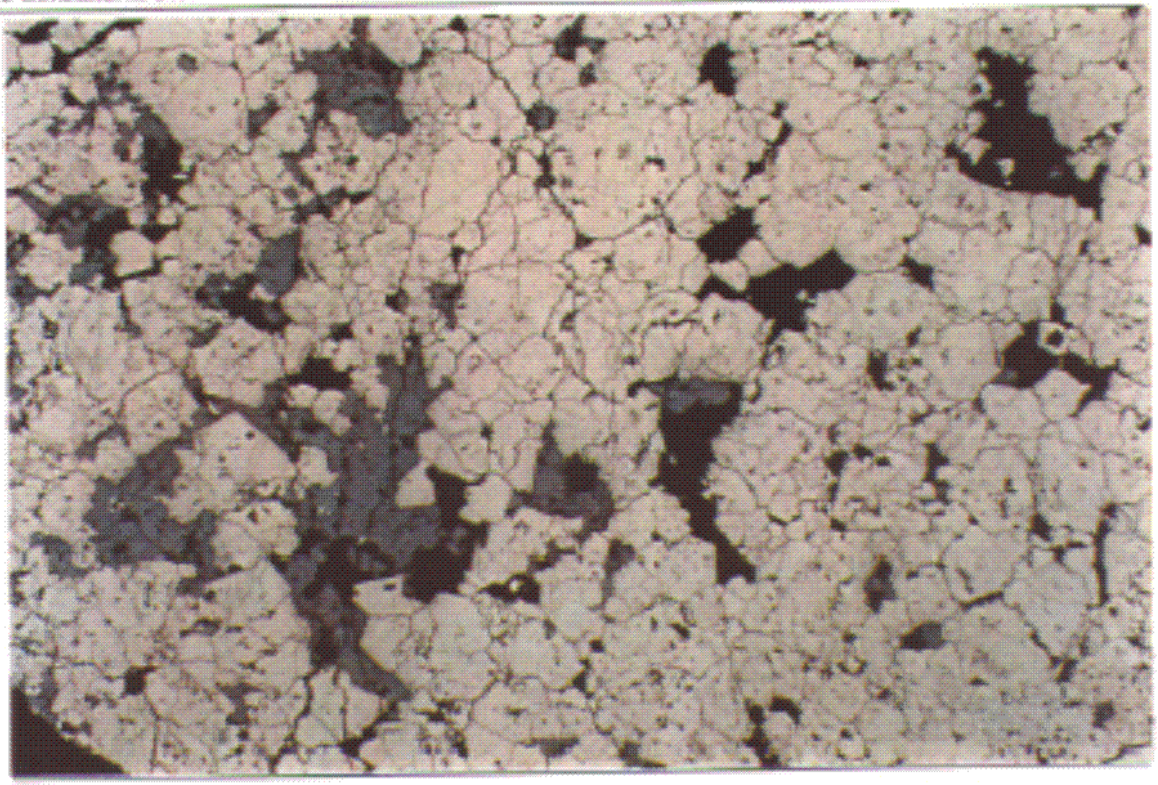
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Pyrite	65	blocky, medium to coarse-grained, anhedral grains in granular, vuggy aggregates, subhedral at vug margins; also within veinlet cross-cutting massive enargite	
Enargite	24	medium-grained, anhedral, pink-gray grains, with red internal reflections, as massive aggregates filling vugs lined by subhedral pyrite and in veinlets cross-cutting the pyrite aggregates; not twinned	
Sericite	10	colourless, fine-grained, flakey grains in yellow in PPL, fills vugs in pyrite aggregates; locally stained yellow-brown, possibly by an Fe-oxide	

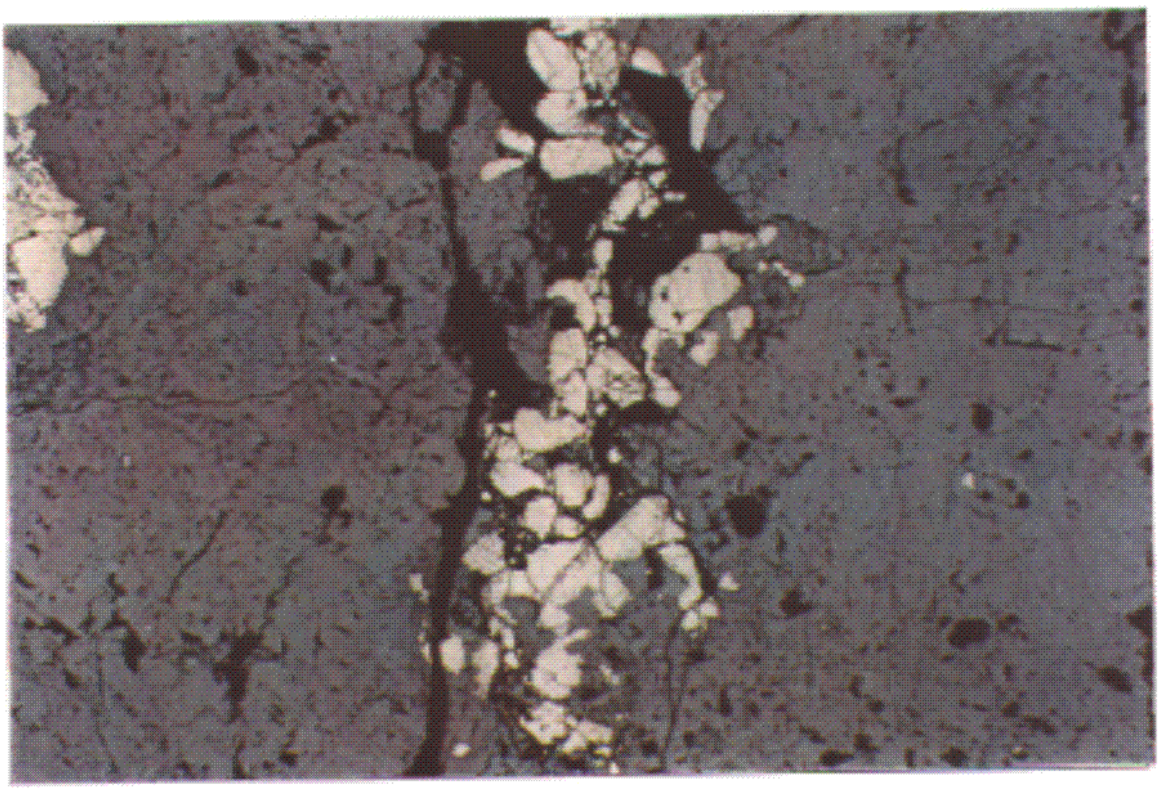
MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Chalcopyrite	trace	very fine-grained, anhedral, disseminated in enargite veinlets	

Thin Section Description:
Section consists of medium-grained, massive pyrite in vuggy, granular aggregates, with subhedral grains lining vug walls. Vugs are filled by massive enargite or sericite. The pyrite aggregates are cross-cut by enargite veinlets. Massive enargite is also cross-cut by a pyrite veinlet, indicating that pyrite mineralization both preceeded and followed enargite. Sericite may be a late phase. Luzonite does not appear to be present as the opaque minerals in the section do not show twinning and are not pink-orange.



206829: Massive pyrite (cream) with enargite (gray) and sericite filling vugs. Field of view = 5mm. RL.



206829: Discontinuous pyrite veinlet cross-cutting enargite vein. Field of view = 5mm. RL.

Sample: 206835

LITHOLOGY: Quartz-feldspar porphyry
ALTERATION TYPE: Clay, carbonate, specularite, rutile

Hand Sample Description:
Coarse-grained, generally rounded quartz eyes, pink-cream tabular phenocrysts and gray tabular phenocrysts lined by fine-grained black phase, in fine-grained, light gray matrix. Fine-grained, disseminated, rounded, gray-black grains. Calcite replaces pink-cream phenocrysts. Lack of staining indicates no K-feldspar is present.

MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Quartz	42	coarse-grained, rounded, resorbed eyes; very fine-grained throughout groundmass	
Illite	28	very fine-grained, colourless, partly replacing feldspar phenocrysts and other tabular grains; disseminated throughout groundmass	
Calcite	12	partly replaces feldspar phenocrysts, typically with clay; as anhedral grains in irregular clusters (probably filling vugs)	
Plagioclase	07	euhedral, medium-grained phenocrysts, partly replaced by carbonate and clay	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Muscovite	03	colourless, fine to medium-grained, within tabular phenocrysts with rutile (after biotite?) and replacing feldspar phenocrysts with carbonate	2nd order δ
Specularite	03	fine to medium-grained, blocky to acicular, in disseminated clusters replacing a phenocryst phase (magnetite?), locally with small magnetite inclusions; very fine grains rim ~20% of phenocrysts	
Rutile	01	fine-grained, stubby to prismatic, very light brown, replaces specific tabular grains with calcite and clay, also disseminated	
Apatite	01	fine to medium-grained, prismatic, hexagonal, colourless, unaltered, disseminated and partly replacing phenocrysts	high relief
Chlorite	01	fine-grained, clustered, partly replacing plagioclase	

Thin Section Description:
The porphyry has a very fine-grained quartz and clay matrix. At least five phenocryst types are present: tabular plagioclase phenocrysts, partly replaced by calcite and clay; elongate grains replaced by clay and rutile, with hematite rims, commonly six-sided with 120 and 60° angles, probably after amphibole; large, resorbed quartz eyes; small specularite grains, probably after magnetite; tabular grains of muscovite and rutile, possibly after biotite.

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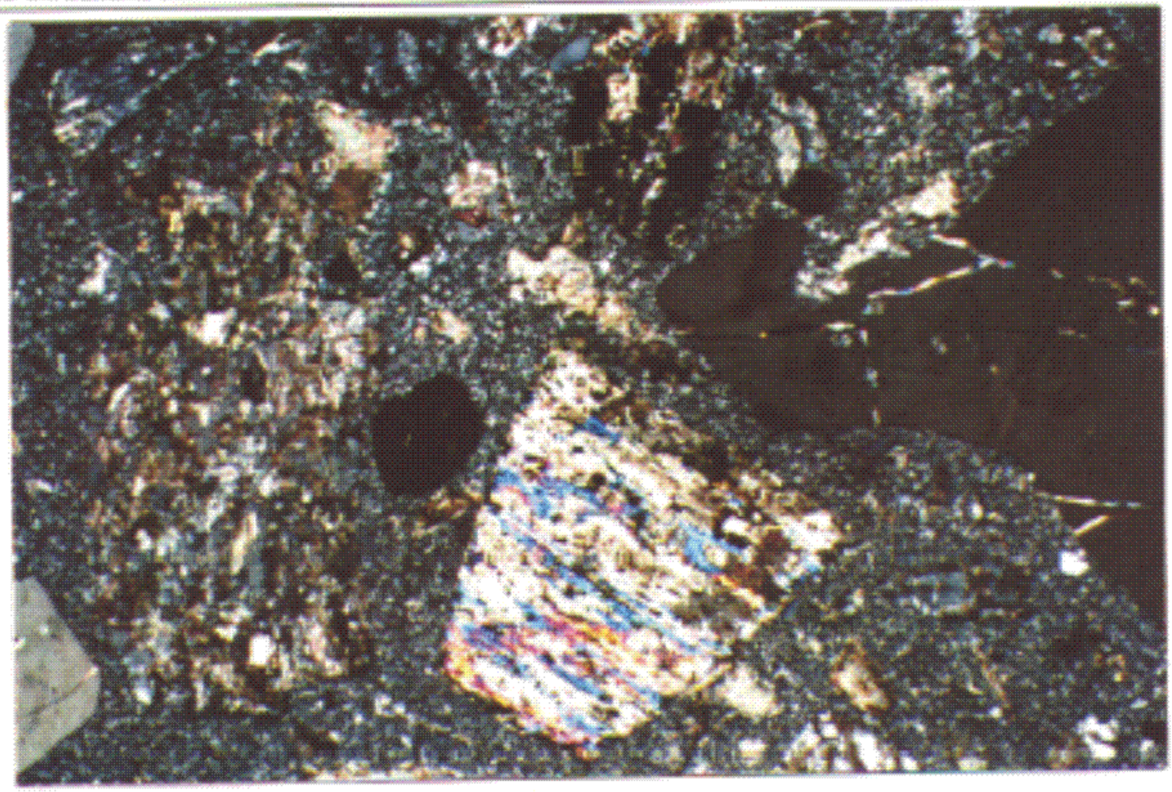
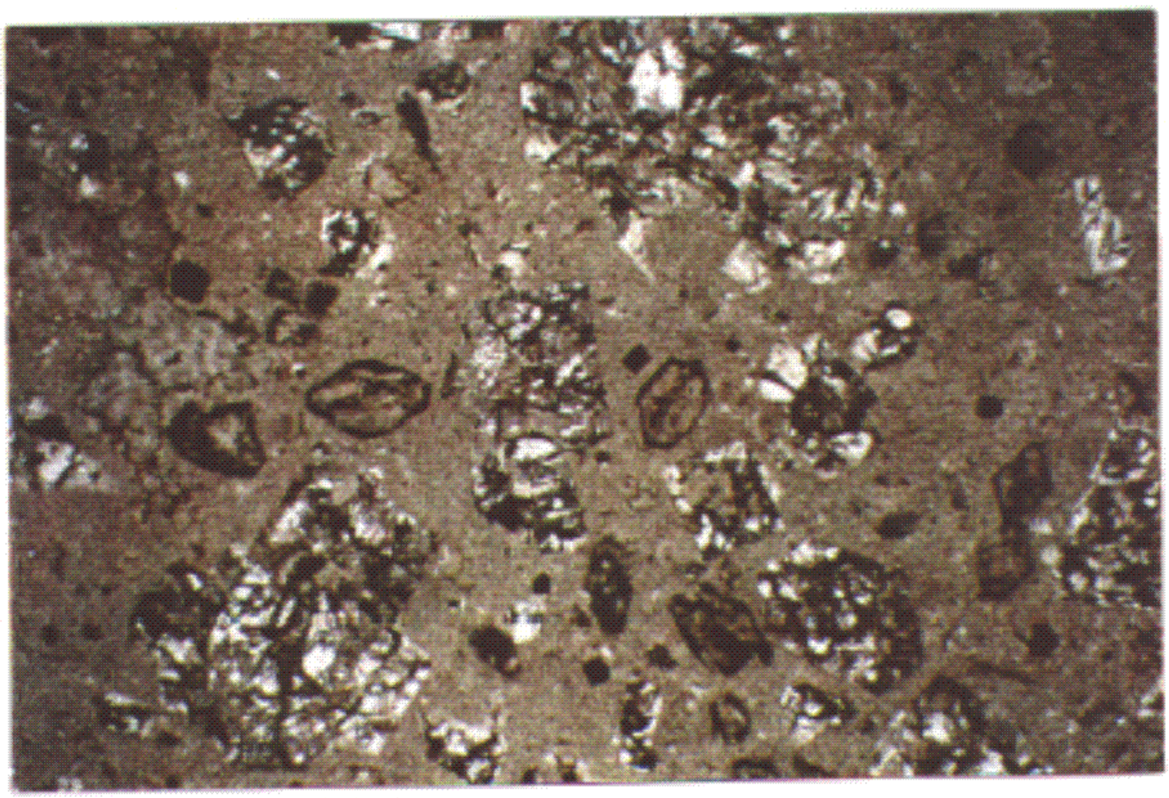


206835: Large, resorbed quartz phenocryst (right), phenocryst replaced by carbonate and sericite (centre), specularite grain (after magnetite?) and tabular plagioclase grain partly replaced by carbonate and clay (left) in quartz-clay matrix. Field of view = 5mm. XPL.



206835: Six-sided amphibole phenocrysts, rimmed by hematite and replaced by clay; tabular feldspar grains replaced by carbonate and clay in a fine-grained quartz-clay matrix. Field of view = 5mm. PPL.

Sample: 206840

LITHOLOGY: Quartz-pyrite-tennantite vein
ALTERATION TYPE: Quartz gangue

Hand Sample Description:
Fine-grained pyrite and dark grey sulphosalt aggregates in white quartz matrix.

MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Quartz	75	fine to coarse-grained, subhedral, interlocked quartz grains, vapour-rich fluid inclusions	
Pyrite	10	anhedral to subhedral, medium-grained, typically in granular aggregates within vugs with tennantite	
Tennantite	07	gray white, anhedral (filling vugs in quartz), intergrown with pyrite, rare red internal reflections	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Fe-oxide weathering	04	honey yellow in TL, not reflective, fine-grained, fills vugs with tennantite	
Sericite	01	fine-grained, in small radial aggregates disseminated throughout quartz matrix, concentrated within pyrite-tennantite aggregates	
Galena	01	fine-grained, anhedral, inclusions in tennantite, locally with partial acanthite-argentite rims	
?Getchellite	trace	fine-grained, anhedral, as inclusions in tennantite, observed on SEM	
Acanthite-Argentite	trace	fine-grained, anhedral, distinct grains at vug margins; as partial rims on galena grains	

Thin Section Description:
Sample consists of a quartz vein with vugs filled by pyrite, tennantite (known from scanning electron microscope enegy dispersive spectra) and a fine-graned, honey-yellow mineral, probably an Fe-oxide. Tetrahedrite and tennantite can not be distinguished optically.

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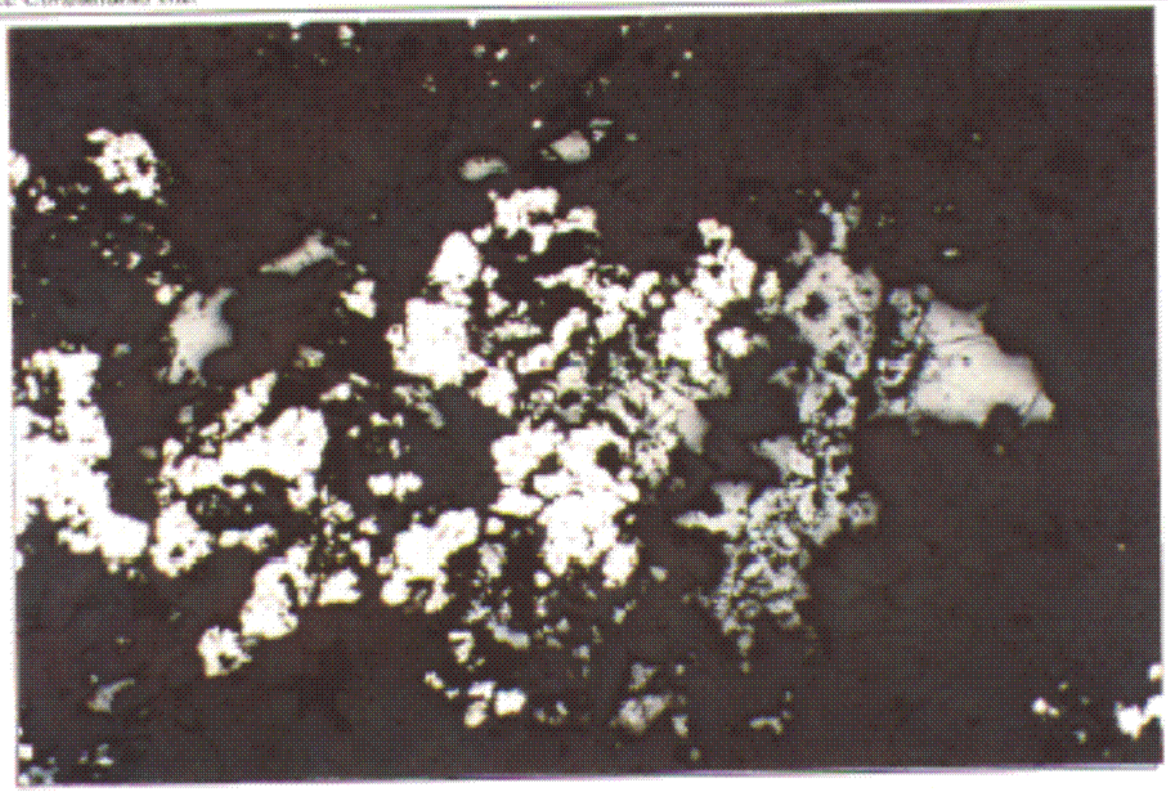


206840: Pyrite (white) and tennantite (light gray) in quartz matrix. Field of view = 5mm. RL.

206840: Pyrite and tennantite filling vug lined by prismatic quartz. Field of view = 5mm. XPL.

Sample: 86-4-15.9
*Section is covered and opaque minerals can not be determined by inspection in reflected light

LITHOLOGY: Quartz-feldspar porphyry
ALTERATION TYPE: Pyrophyllite, illite, quartz, sphalerite, rutile

Hand Sample Description:
Porphyry with quartz and soft white phenocysts in white, soft matrix. Fine-grained pyrite is disseminated and medium-grained dark gray-blue sphalerite partly replaces white phenocrysts. Sample is locally stained pink.

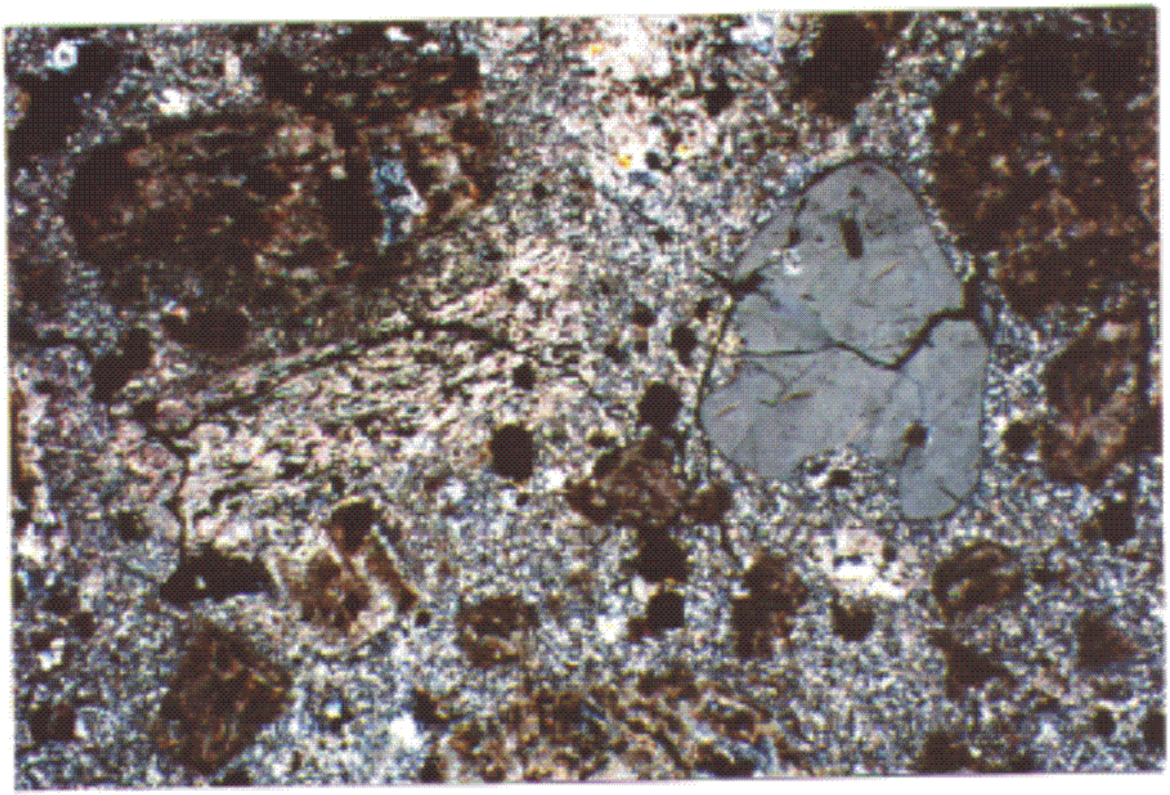
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Pyrophyllite and illite	45	intergrown, very fine-grained, stained brown, replaces large tabular grains (locally with sphalerite); in small patches throughout matrix; pyrophyllite (confirmed by PIMA) replaces specific tabular phenocrysts (possibly mica books)	
Quartz	40	very fine-grained, granular, forms matrix of sample; as medium to coarse-grained, anhedral, resorbed phenocrysts; partly replacing tabular phenocrysts with sericite and opaque minerals	
Sphalerite	05	pale brown, blocky, anhedral, in clusters partly replacing phenocrysts, commonly intergrown with coarser-grained sericite, rimmed by very fine-grained sericite and fine brown material	isotropic
Pyrite	05	fine to medium-grained cubic to hexagonal, disseminated	

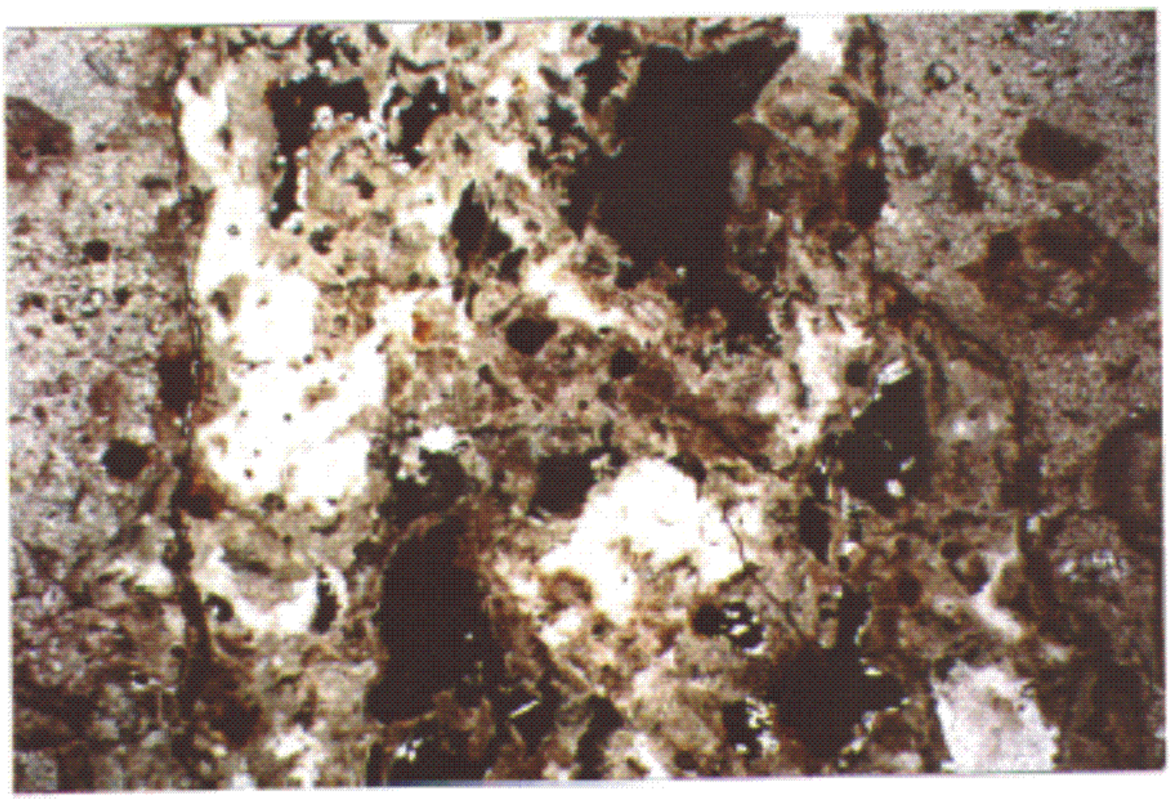
MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Rutile	02	fine-grained, high relief, brown grains, partly replacing specific phenocrysts with sericite, one grain of titanite replaced by rutile	
Zircon	trace	small, prismatic grain in sericite aggregate with opaque minerals and fine-grained rutile	

Thin Section Description:
Porphyry now pervasively altered to fine-grained clay and quartz matrix. Large quartz phenocrysts are resorbed. Most phenocrysts are replaced by fine-grained, brown-stained sericite, fine to medium-grained quartz, sphalerite and pyrite. Other opaque minerals may be present. Some phenocrysts, entirely replaced by sericite, rutile and sphalerite, but with a preserved platey texture, may have been biotite books.



86-4-15.9: Resorbed quartz phenocryst (right); tabular grain replaced by sericite, rutile and opaque minerals (centre left); sericite and fine-grained brown material replacing equant to tabular phenocrysts. Field of view = 5mm. XPL.



86-4-15.9: Sphalerite (dark brown), fine-grained sericite (red brown), fine-grained colourless clay and opaque minerals replacing large blocky phenocryst. Field of view = 5mm. PPL.

SEM Report

Two samples were inspected on the scanning electron microscope (SEM) in the Earth and Ocean Sciences Department at the University of British Columbia, Vancouver. Vein sample 206814 was analyzed in order to determine the composition of the sulphosalt phase intergrown with enargite. Energy dispersive spectra (EDS) indicate that the sulphosalt generally contains Cu>>Ag and Sb>As. Although the spectra are not quantitative, the relative peak heights suggest that the mineral is tetrahedrite [$(Cu,Fe,Ag,Zn)_{12}Sb_4S_{13}$]. Other minerals identified in this sample were stannite (Cu_2FeSnS_4) and hübnerite, the Mn-rich end member of wolframite [$(Fe,Mn)WO_4$]. EDS spectra indicate that the Ag-bearing grains in the section include pearcite-polybasite [$Ag_{16}As_2S_{11}$-$(Ag,Cu)_{16}Sb_2S_{11}$], acanthite-argentite (Ag_2S), and an Ag-telluride.

Sample 206840 was also inspected on the SEM in order to identify the sulphosalt phase present. In this case, the EDS spectra peak heights indicate that Cu>Ag and As>Sb, suggesting the sulphosalt is tennantite. Tennantite hosts inclusions of an As-Sb-S-rich mineral, possibly the sulphide getchellite, $AsSbS_3$. Locally, acanthite-argentite (Ag_2S) rims galena and occurs as isolated grains in vugs.

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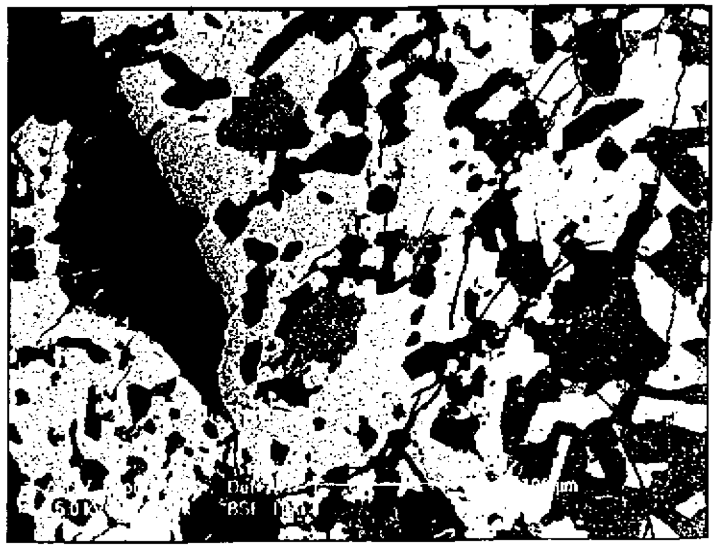
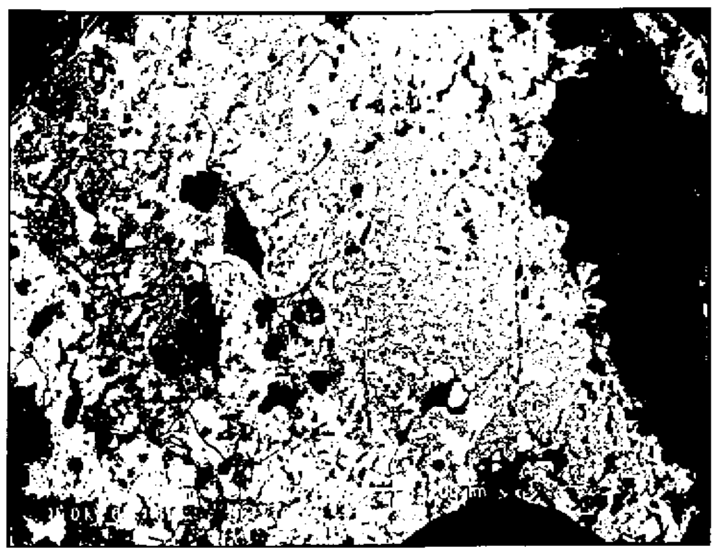
Sample 206814

Intergrown enargite (dark gray) and tetrahedrite (light gray) with stannite inclusions (medium gray, cente and upper centre).

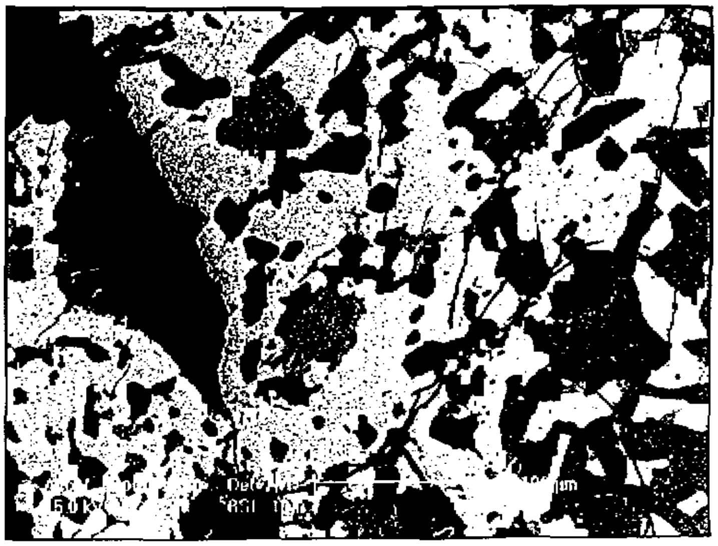


Overview of intergrown tetrahedrite (light gray) and enargite (medium gray) with pyrite (dark gray, right).

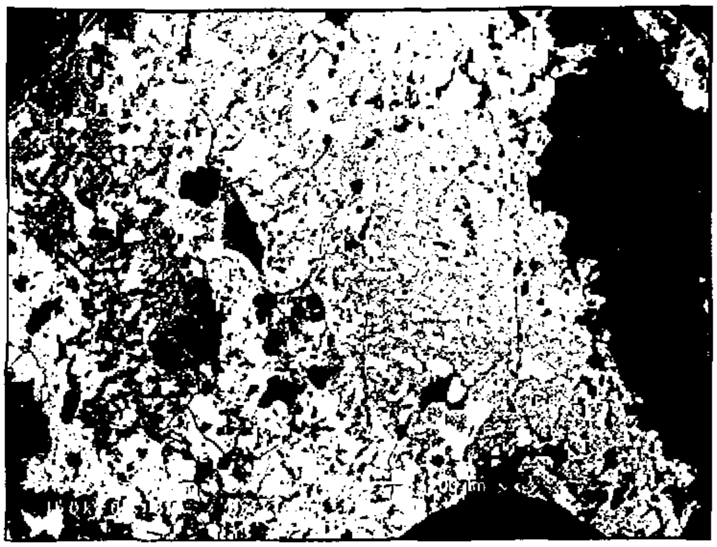


Sample 206814

Intergrown enargite (dark gray) and tetrahedrite (light gray) with stannite inclusions (medium gray, cente and upper centre).

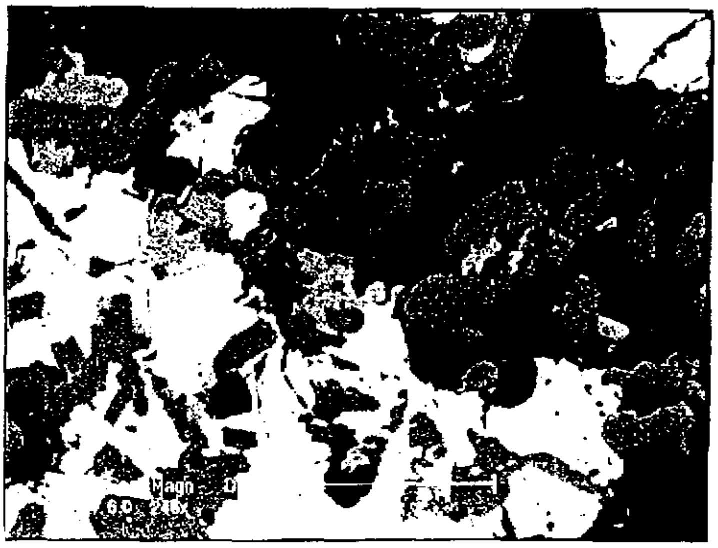


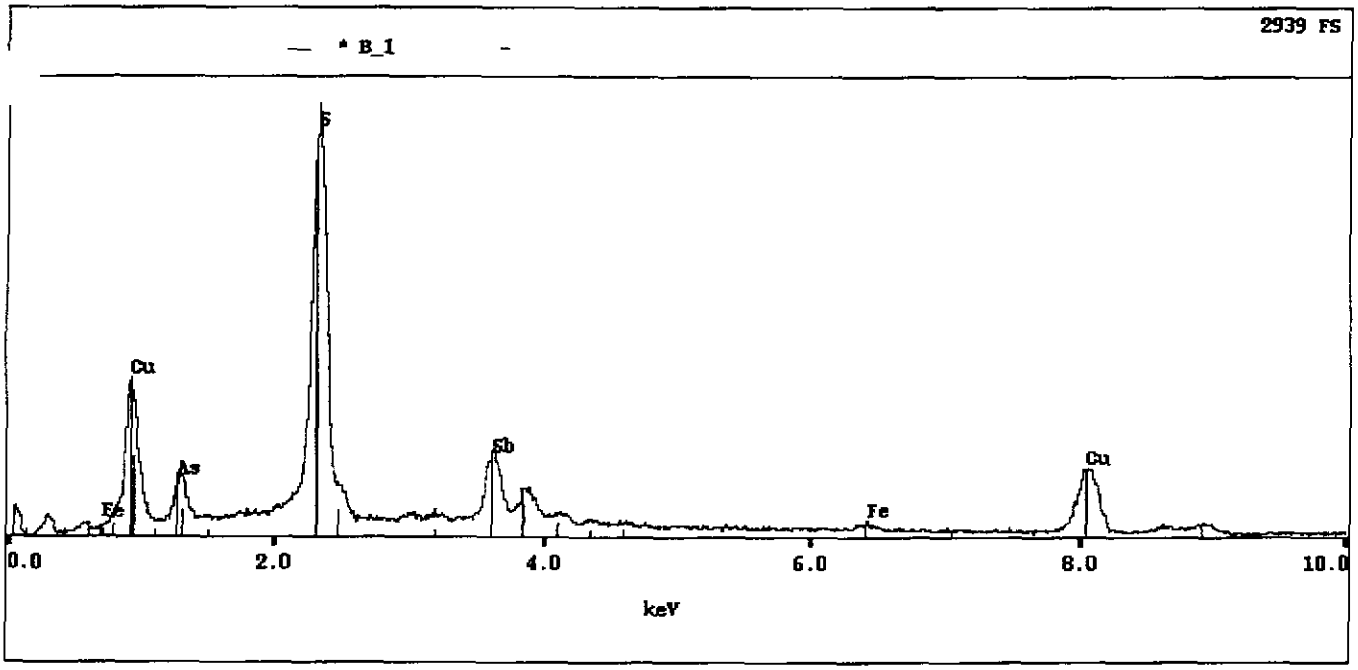
Overview of intergrown tetrahedrite (light gray) and enargite (medium gray) with pyrite (dark gray, right).



Sample 206814

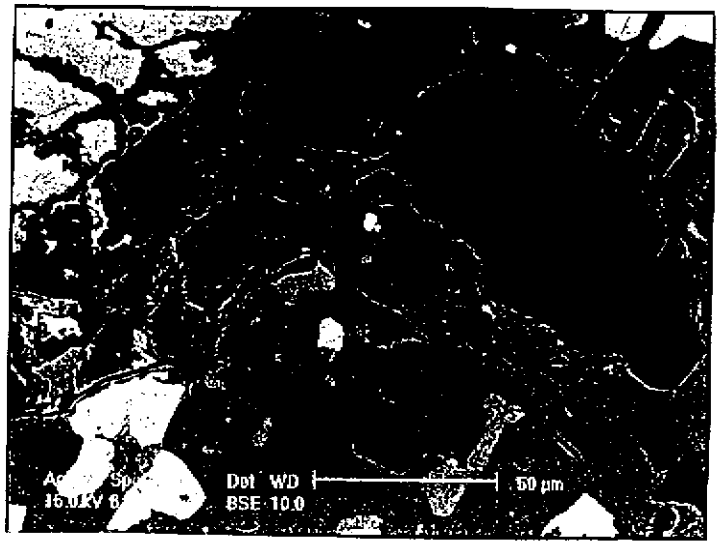
Terahedrite (light gray) with enargite grains (dark gray) and stannite inclusions (medium gray, centre and upper left of centre). EDS spectrum below is of tetrahedrite (note Sb>As).

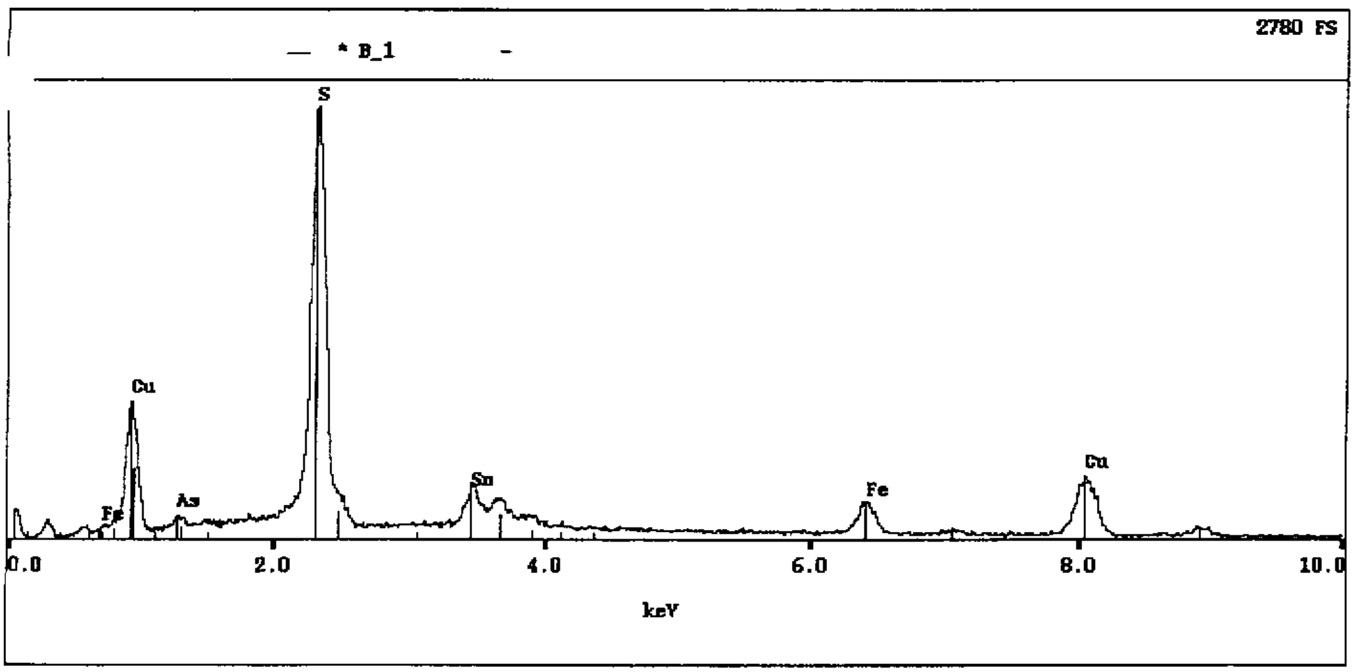




Sample 206814

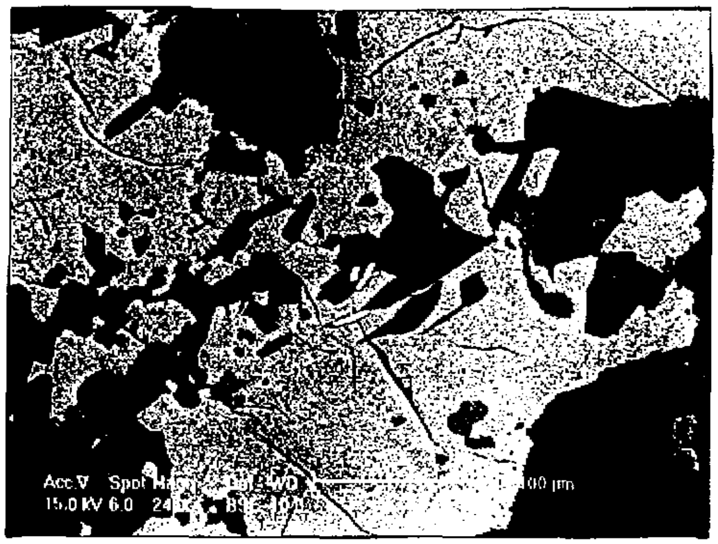
Stannite (medium gray, centre and bottom centre), tetrahedrite (light gray), and galena (bright white, centre) inclusions in enargite (dark gray). EDS spectrum below is of stannite, Cu_2FeSnS_4.

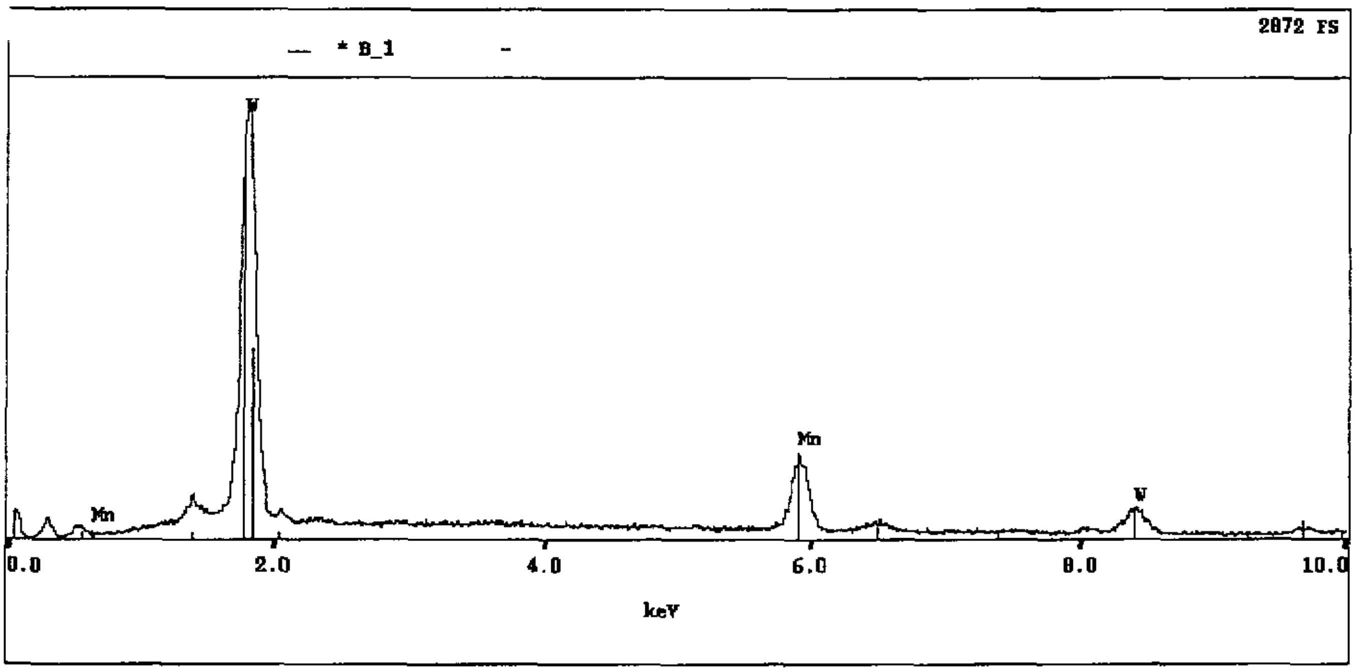




Sample 206814

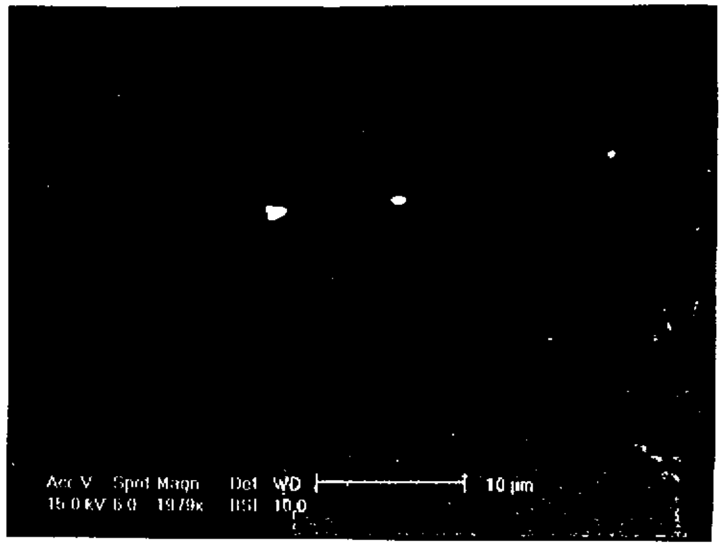
Elongate grains of wolframite ([Fe,Mn]WO_4, bright white, centre) with enargite (dark gray) and stannite (medium gray) inclusions in tetrahedrite. EDS spectrum below indicates the wolframite is Fe-poor and is close to the end-member Hubnerite, $MnWO_4$.

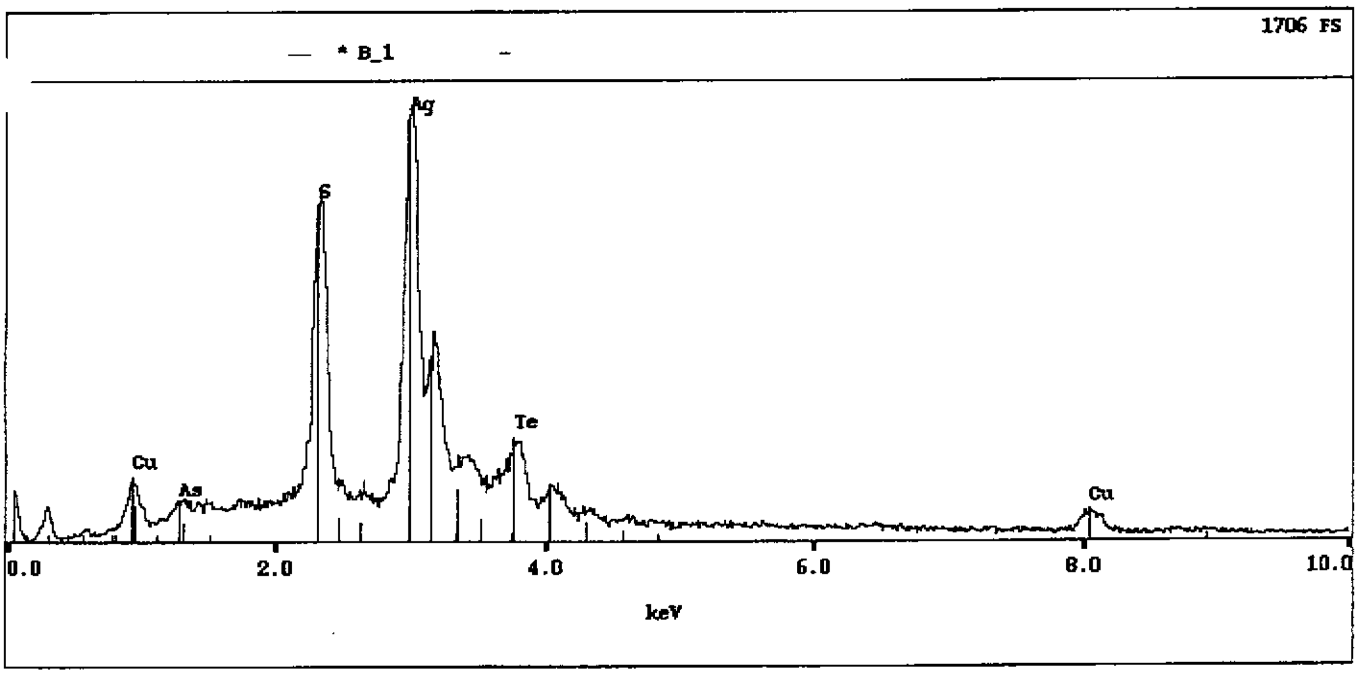




Sample 206814

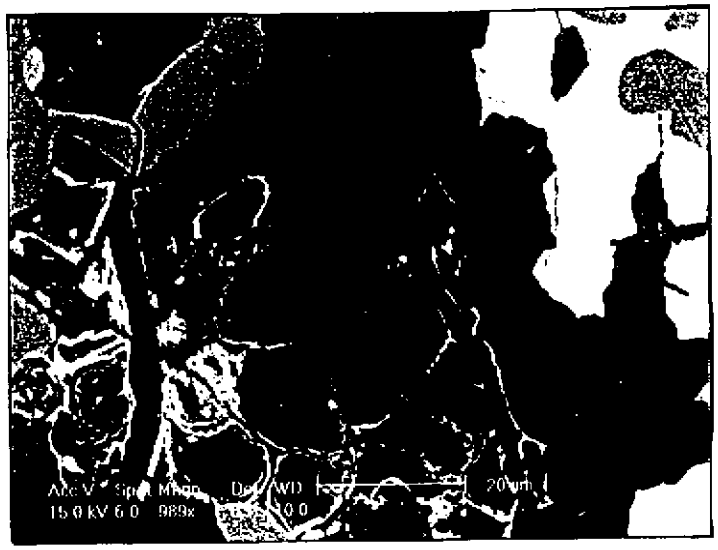
Ag-telluride grains (bright white) in tetrahedrite. Dark gray mineral is stannite. EDS spectrum below is of Ag-telluride.

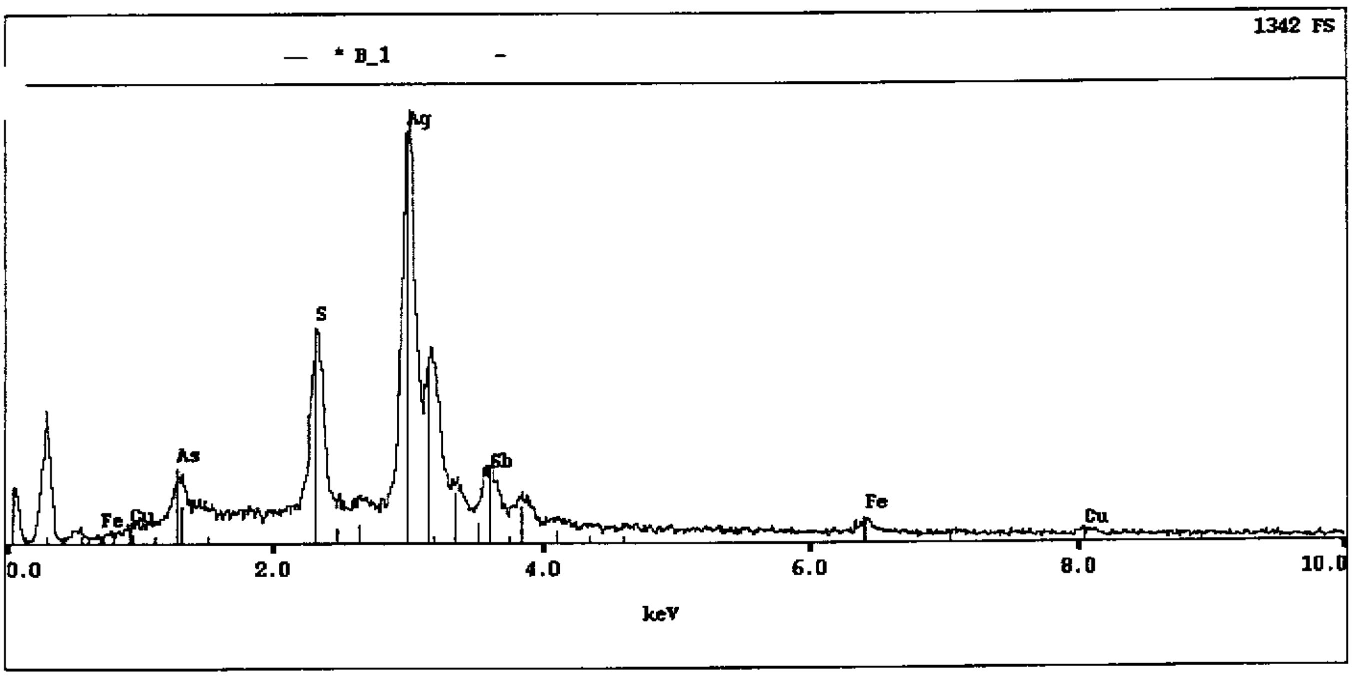




Sample 206814

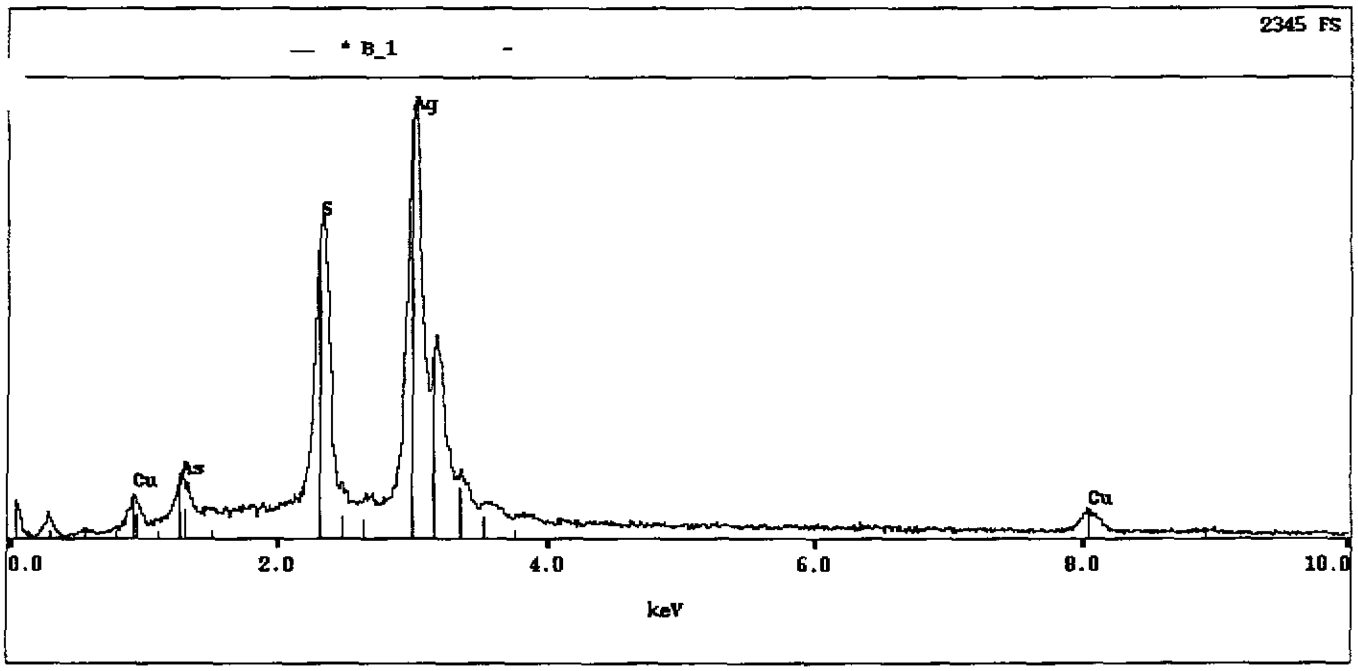
Probable acanthite-argentite grains (bright white, centre and lower left of centre) in vug bordered by tetrahedrite (light gray) and enargite (dark gray). Peak heights on the EDS spectrum below indicate the Ag mineral is acanthite-argentite (Ag_2S). Small As, Sb and Fe peaks are likely due to contamination from material adjacent to the grain during the analysis.





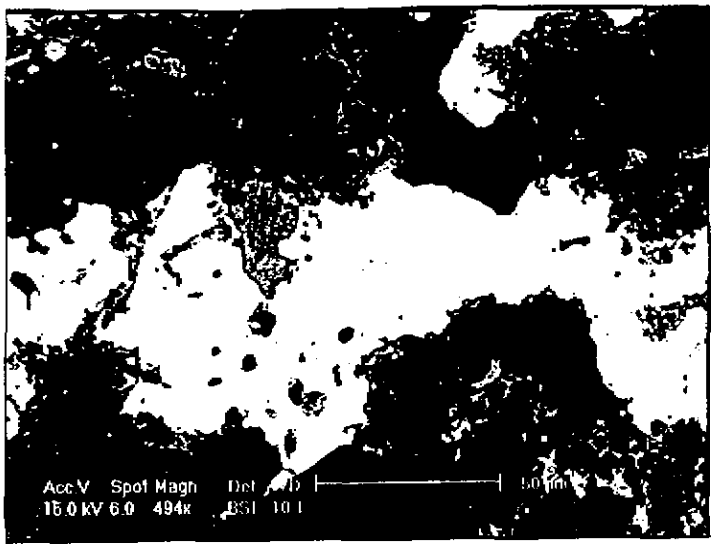
Sample 206814

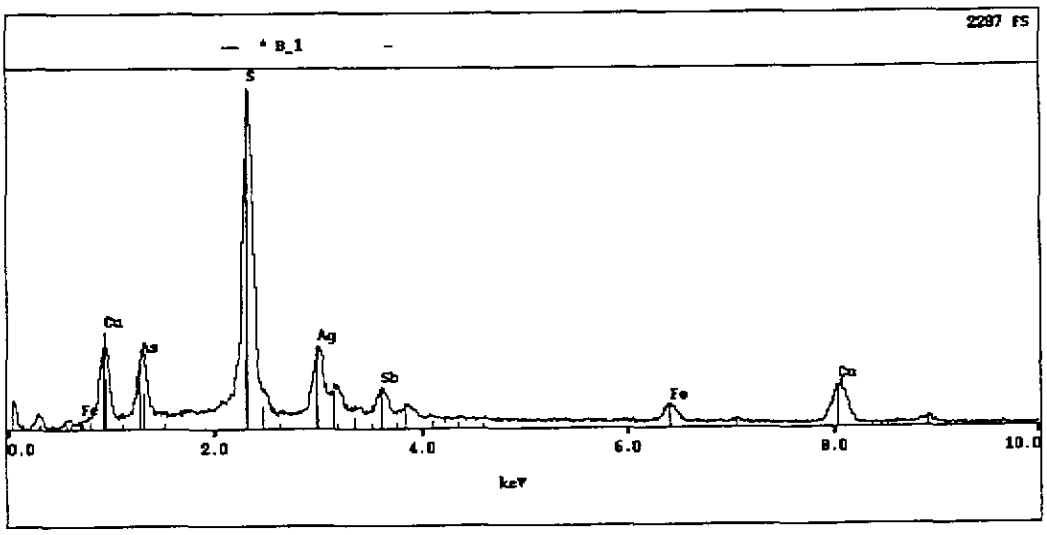
Pearcite-polybasite grain (bright white, centre) with stannite (medium gray, lower centre and upper right), tetrahedrite (light gray) and enargite (dark gray). EDS spectrum below is of pearcite-polybasite, $Ag_{16}As_2S_{11}$ - $(Ag,Cu)_{16}Sb_2S_{11}$

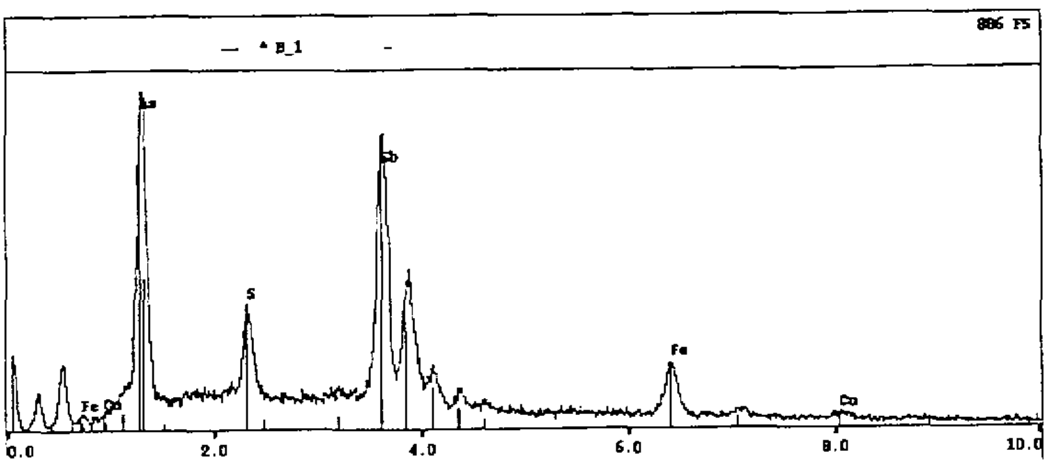


Sample 206840

Tennantite (light gray, upper EDS spectrum), with inclusion of probable getchellite ($AsSbS_3$, medium gray, lower EDS spectrum). Bright patches in tennantite adjacent to getchellite are Ag-rich. Pyrite in upper left corner.

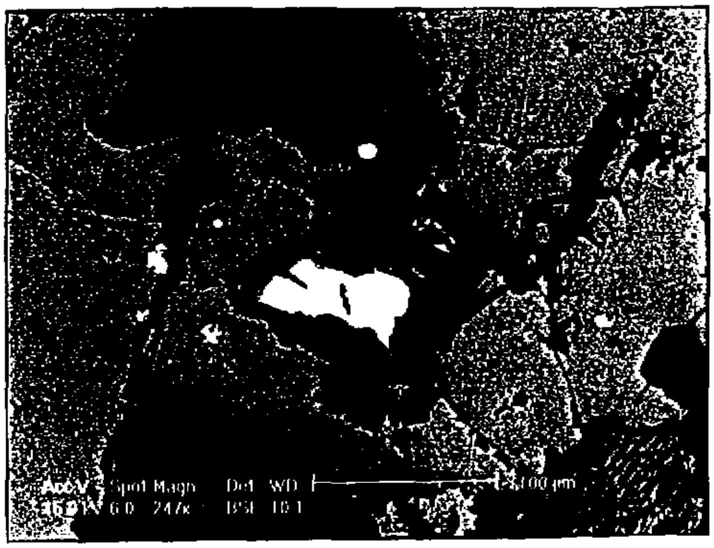




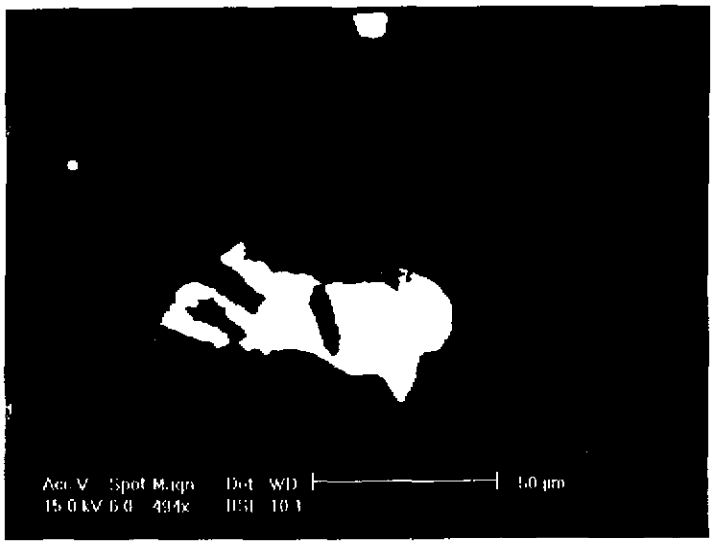


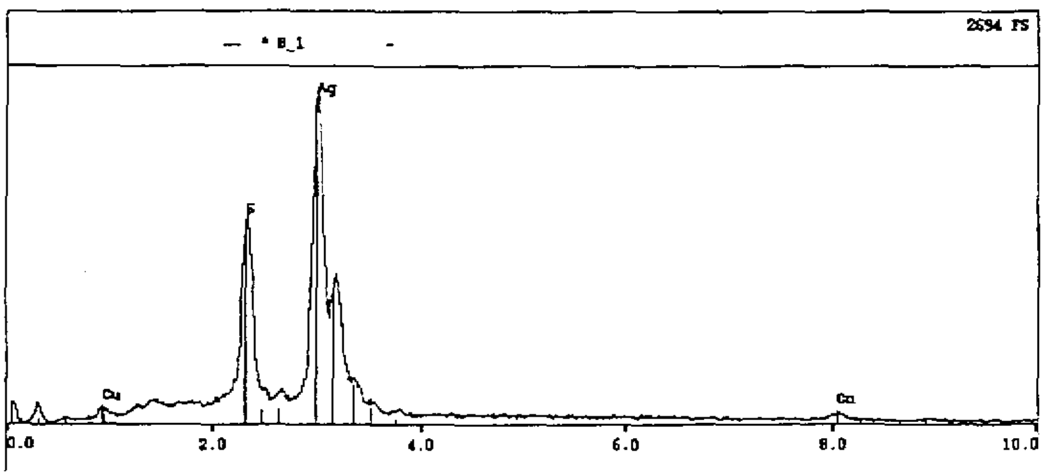
Sample 206840

Anhedral galena grain (centre) in vug in tennantite.



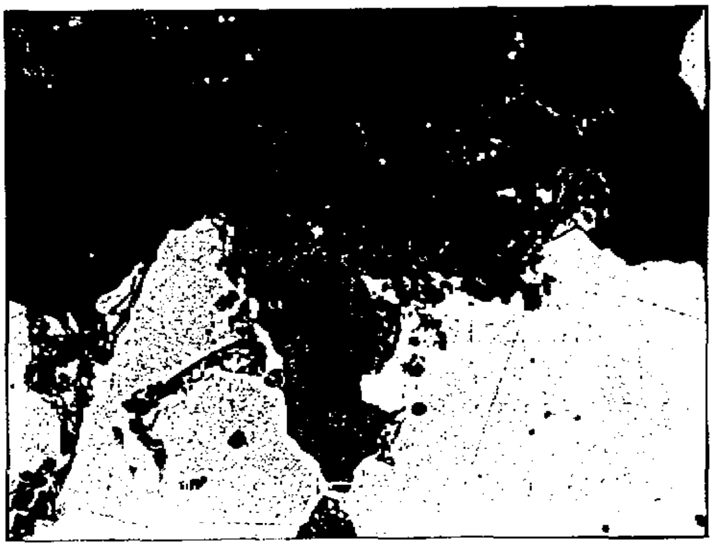
Close up of galena inclusion. Partial rim and inclusion are acanthite-argentite (Ag_2S, EDS spectrum below).

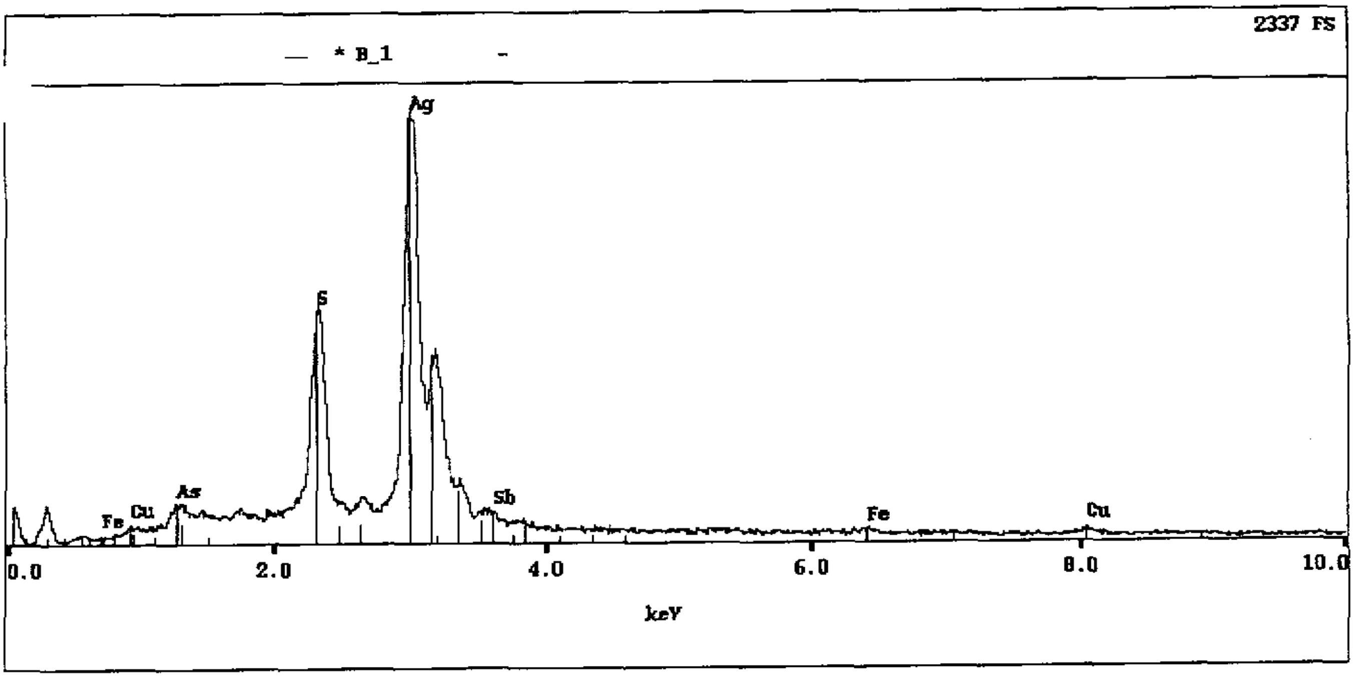




Sample 206840

Close up of small, bright white grain (centre) at margin of getchellite (?) inclusion in tennantite. The EDS spectrum below indicates that the grain is acanthite-argentite (Ag_2S).





APPENDIX E.1

DIAMOND DRILL LOGS

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: THORN RMC00-05	COLLAR ELEVATION:
HOLE: 86-1	AZIMUTH: 000°
LOCATION:	DIP: -44 00
LOGGED BY: M. PAPAGEORGE	LENGTH: 110.03 M
DRILLED BY:	HORIZONTAL PROJECTION: 79.15 m
ASSAYED BY: ACME LABS	VERTICAL PROJECTION: 76.43 m
CORE SIZE: BTW.	
DATE STARTED:	DATE COMPLETED:
DIP TESTS BY:	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

ALTERATION SCALE

0 1 2 3

- absent
- slight
- moderate
- intense

SULPHIDE SCALE

0 1 2 3 4

- traces only
- < 1%
- 1% – 3%
- 3% – 10%
- > 10%

OBJECTIVE

SUMMARY LOG

0-5.85 OVERBURDEN, RUBBLE

5.85 - 110.03 VARIABLY ALTERED - SERICITE, CLAY, CHLORITE - SMALL TO MEDIUM GRAINED FELDSPAR - QUARTZ - MICA PORPHYRY, ON AVERAGE ROUGHLY 3-5% PYRITE, AT TIMES THOUGH 5-10% PY. TRACE OF FINE GN, POSSIBLY EN.

PROJECT: THORN RMC00-05

HOLE: 86-1

GEOLOGICAL DESCRIPTION

DEPTH (M)	% CORE REC	% RQD
5–6	?	?
7	91	63
8–9	88	71
10	75	50
11–12	90	41
13	89	?
14–15	?	?
16	?	?
17–18	80	55
19	~95	?
20–21	~95	?

Interval	Description
0-5.85	OVERBURDEN, FERRICRETE
5.85 - 109.63	SMALL TO MEDIUM GRAINED FELDSPAR-QUARTZ-MICA PORPHYRY, 15-20% SUBHEDRAL FELDSPAR, 10% EUHEDRAL QUARTZ, 5% EUHEDRAL MICA, IN A FINE GRAINED GROUNDMASS.

5.85-12.90 INTENSE PERVASIVE CHLORITE ALT'N

12.90-17.00 INTENSE PERVASIVE SERICITE ALT'N WITH WEAK CLAY ALT'N OF PHENOS

17.00-19.95 MODERATE SERICITE ALT'N

19.95-25.17 INTENSE PERVASIVE CLAY ALTERATION OF QFBP PHENOS AND GROUNDMASS

ALTERATION: SERICITE | CLAY | CHLORITE

FRACTURE INTENSITY

LITHOLOGY | STRUCTURE

 PROJECT THORN RMCOO-05 HOLE 86-1

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
5.85 - 12.90 <1% FINE <1mm EUHEDRAL DISSEMINATED PY		5.85	7.50	1.65	3318						
		7.50	9.00	1.50	3319						
		7.50	9.00	1.50	3320						
		9.00	10.50	1.50	3321						
12.90 - 17.00 5% DISSEMINATED FINE (<1mm) EUHEDRAL PY. SOME MASSIVE PY MZN, BUT MOST OF THE CORE IS GONE ... POSSIBLY TRACE GN OR EN											
		10.50	12.00	1.50	3322						
		12.00	12.90	0.90	3323						
		12.90	13.57	0.67	3324						
		13.57	16.28	2.71	P.S.						
		16.28	16.66	0.38	3325						
		16.66	16.83	0.17	P.S						
17.00 - 19.95 - 2-5% FINE (<1mm) EUHEDRAL PYRITE ± GN (EN?)		16.83	18.50	1.67	3326						
		18.50	20.00	1.50	3327						

PAGE 3 OF 10	PROJECT THORN RMC00 - 05	HOLE 86-1

DEPTH (M)	% CORE REC	% RQD	GEOLOGICAL DESCRIPTION
23	90	53	
24	93	73	
25	~90	?	25.17 - 30.00 WEAK PERVASIVE SERICITE ALT'N
26			
27	88	76	
28			
29			
30	90	75	30.00 - 41.75 INTENSE CLAY ALT'N OF PHENOS WEAK GROUNDMASS SERICITE ALT'N.
31			
32	92	51	
33	60	?	
34	90	62	
35			
36	~90	?	
37	82	26	
38			
39	84	53	
40			
41	95	32	41.75 - 44.70 INTENSE PERVASIVE CLAY ALT'N WITH GOUGEY ZONES
42	76	43	
43			
44			
45			

ALTERATION: SERICITE, CLAY, CHLORITE

FRACTURE INTENSITY

PAGE 4 OF 10 | PROJECT THORN RMC00-05 | HOLE 86-1

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
		20.00	21.00	1.00	P.S.	
		21.00	22.80	1.80	33.28	
25.17 - 30.00 3% FINE (<1mm) DISEM.		22.80	23.15	0.35	P.S.	
PYRITE						
		23.15	24.00	0.85	3329	
		24.00	25.00	1.00	3330	
		25.00	26.00	1.00	PS	
		26.00	27.50	1.50	3331	
		27.50	29.00	1.50	3332	
		29.00	30.00	1.00	3333	
		30.00	31.50	1.50	3334	
30.00 - 41.75 5% 0.5 - 1.0mm						
DISSEMINATED PY ± GN(?)		31.50	33.00	1.50	3335	
		33.00	34.50	1.50	3336	
		34.50	35.00	0.50	3337	
		35.00	36.00	1.00	PS	
		36.00	37.50	1.50	3338	
		37.50	39.00	1.50	3339	
		37.50	39.00	1.50	3340 DUP	
		39.00	40.50	1.50	3341	
		40.50	41.75	1.25	3342	
		41.75	43.50	1.75	3343	
41.75 - 44.70 5% FINE TO 2-3MM						
EUHEDRAL PYRITE		43.50	45.00	1.50	3344	
44.70 - 57.20 5-10% FINE TO 1mm						
EUHEDRAL PY						

PROJECT THORN RMC00-05

HOLE 86-1

DEPTH (M)	% CORE REC	% RQD
45–46	~90	?
46–49	92	70
49–50	92	70
51–52	92	42
52–55	~90	?
55–57	~85	?
57–58	~90	?
58–59	~90	?
60–67	~90	?

Interval	GEOLOGICAL DESCRIPTION
44.70 - 51.85	MODERATE SERICITE ALT'N OF GROUNDMASS AND PHENOS W/ ZONES OF WEAK CLAY ALT'N OF PHENOX
51.85 - 52.70	INTENSE PERVASIVE CLAY ALT'N
52.70 - 56.80	INTENSE PERVASIVE SERICITE ALT'N GRADING INTO MODERATE CLAY ALT'N @ 55.40
56.50 - 57.60	INTENSE PERVASIVE CLAY ALT'N
57.60 - 58.20	INTENSE PERVASIVE SERICITE ALT'N
58.20 - 58.95	GOUGE INTENSE CLAY ALT'N
58.95 - 69.20	INTENSE PERVASIVE SERICITE ALT'N QFBP APPEARS TO HAVE DEVELOPED A SUBTLE FABRIC BELOW THE GOUGE. WEAK CLAY ALT'N.

ALTERATION: SERICITE, CLAY

FRACTURE INTENSITY

 PROJECT THORN RMC00-05 HOLE 86-4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		45.00	46.00	1.00	P.S.						
		46.00	47.50	1.50	3345						
		47.50	49.00	1.50	3346						
		49.00	50.50	1.50	3347						
		50.50	52.20	1.70	3348						
		52.20	52.70	0.50	P.S.						
52.20 - 58.20 >5% PY, FINE TO											
1-2MM EUHEDRAL PY		52.70	54.35	1.65	3349						
		54.35	56.00	1.65	3350						
58.20 - 58.95 <1% FINE (<1mm) DISSEM.											
EUHEDRAL PYRITE		56.00	57.00	1.00	P.S.						
58.95 - 69.20 3-5% FINE TO 1-2mm											
EUHEDRAL PY		57.00	57.60	0.60	3351						
		57.60	58.20	0.60	3352						
		58.20	58.90	0.70	3353						
		58.90	59.50	0.60	P.S						
		59.50	61.00	1.50	3354						
		61.00	62.50	1.50	3355						
		62.50	64.00	1.50	3356						
		64.00	65.50	1.50	3357						
		65.50	67.00	1.50	3358						
		67.00	68.00	1.00	3359						
		67.00	68.00	1.00	3360 DUP.						

PAGE 7 OF 10	PROJECT THORN RMC 00-05	HOLE 86-1

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY	CHLORITE	FRACTURE INTENSITY
68						69.20 - 71.09 RUBBLE MODERATE PERVASIVE SERICITE ALT'N OF QFBP, BROKEN UP.				
69										
70	~80	?				71.09 - 71.93 INTENSE PERVASIVE SERICITE ALT'N OF QFBP.				
71										
72						71.93 - 74.20 MODERATE PERVASIVE SERICITE ALT'N OF QFBP.				
73	~95	?								
74						74.20 - WEAK PERVASIVE SERICITE ALT'N, WITH WEAK CHLORITE ALT'N OF FELDSPAR				
75	~95	?								
76										
77	88	31								
78	96	81								
79										
80	90	80								
81	87	81								
82										
83	91	90								
84	68	0								
85	86	32								
86	85	66								
87										
88	92	67								
89	89	84								
90					25° CALCITE VEINLET	90.25 CALCITE VEINLET @ 25° TO C.A				

 PROJECT THORN RMC00 - 05 HOLE 86-1

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS					
		68.00	69.00	1.00	P.S						
69.20 - 71.09 5-10 % 1-2 mm EUHEDRAL PYRITE.		69.00	70.00	1.00	3361						
		70.00	71.30	1.30	3362						
71.09 - 71.93 >10 % FINE AND 1 mm EUHEDRAL PYRITE. @ 71.80 THERE APPEARS TO HAVE BEEN SOME RUBBLY SEMI-MASSIVELY OF THE FINE DISSEMINATE VARIETY.		71.30	72.50	1.20	P.S.						
		72.50	72.80	0.30	P.S.						
		72.80	74.20	1.40	3363						
71.93 - 109.63 3-9 % 1-2 mm DISSEMINATED EUHEDRAL PYRITE.		74.20	75.70	1.50	3364						
		75.70	77.20	1.50	3365						
		77.20	78.70	1.50	3366						
		78.70	80.20	1.50	3367						
		80.20	81.70	1.50	3368						
		81.70	83.20	1.50	3369						
		83.20	84.70	1.50	3370						
		84.70	86.20	150	3371						
		86.20	87.70	1.50	3372						
		87.70	89.20	.50	3373						
		89.20	90.70	1.50	3374						

PAGE 9 OF 10 | PROJECT THORN RMC00-05 | HOLE 86-1

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION
91	82	59				
92	83	41				91.75 - 98.86 CHLORITE ALTERATION GRADES AWAY TO WEAK CLAY ALTERATION OF FELDSPAR PHENOCRYSTS.
93						
94	99	89				
95	85	33				
96						
97	78	51				
98	67	11	*			
99						98.86 - 102.51 MODERATE PERVASIVE SERICITE ALTN OF QFBP
100	91	12				
101						
102	78	0				102.51 - 109.63 INTENSE PERVASIVE SERICITE ALTN WITH PATCHES OF WEAK CLAY ALTERED FELDSPAR PHENOCRYSTS.
103	91					
104	92					
105						
106						
107						
108						
109						110.03 EOH
110						
111						
112						

ALTERATION: SERICITE | CLAY | CHLORITE | | | | FRACTURE INTENSITY

* NOT SURE ABOUT THIS BLOCK'S POSITIONING

PAGE 10 OF 10 | PROJECT THORN RMC00-05 | HOLE 86-1

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		90.70	92.20	1.50	3375						
		92.20	93.70	1.50	3376						
		93.70	95.20	1.50	3377						
		95.20	96.70	1.50	3378						
		96.70	98.00	1.30	3379						
		96.70	98.00	1.30	3380						
		98.00	98.86	0.86	3381						
		98.86	100.00	1.14	3382						
		100.00	101.37	1.37	3383						
		101.37	103.27	2.00	P.S.						
		103.27	104.77	1.50	3384						
		104.77	106.27	1.50	3385						
		106.27	107.77	1.50	3386						
		107.77	109.27	1.50	3387						
		109.27	109.63	0.36	3388						

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DRILL LOG

PROJECT THORN	COLLAR ELEVATION
HOLE 86-2	AZIMUTH 000°
LOCATION	DIP -64.00°
LOGGED BY H. AWMACK	LENGTH 31.09 m (102')
DRILLED BY	HORIZONTAL PROJECTION 13.63 m
ASSAYED BY ACME	VERTICAL PROJECTION 27.94 m
CORE SIZE BTW	
DATE STARTED	DATE COMPLETED
DIP TESTS BY	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE

ALTERATION SCALE

0 1 2 3

- absent
- slight
- moderate
- intense

SULPHIDE SCALE

0 1 2 3 4

- traces only
- < 1%
- 1% – 3%
- 3% – 10%
- > 10%

SUMMARY LOG

0.0 - 3.5 Overburden

3.5 - 7.2 Ferricrete

7.2 - 31.09 Coarse feldspar-quartz-mica porphyry

7.2-15.0 Weak sericite-clay-chlorite-calcite alteration with 2% pyrite

15.0-18.9 Intense sericite-clay alteration with 7% pyrite and sparse 1-3cm PY-EN veinlets

18.9-31.09 Moderate sericite-clay-calcite alteration with 25% pyrite and rare enargite

PAGE 1 OF 4 | PROJECT THORN | HOLE 86-2

DEPTH (M)	% CORE REC	% RQD	SAMPLED
~2	11	0	
~4.5	84	0	
~6	82	16	
~7	82	0	
~8.5	98	25	
~10.5	77	16	
~14	84	27	
~16	100	?	sampled
~17	80	0	
~17.5	[illegible]	0	
~18	62	?	sampled
~18.5	100	14	
~19.5	95	0	
~21	95	0	
~22.5	100	23	

Structure: 65° (at ~15.0 m); 60° (at ~19 m)

Alteration columns: SERICITE, CLAY, CHLORITE; FRACTURE INTENSITY

	GEOLOGICAL DESCRIPTION
0-3.5	Overburden
3.5-7.2	Ferricrete. Heterogeneous pebbles and cobbles cemented by goethite
7.2-15.0	Coarse feldspar-quartz-mica porphyry. Pale green (from weak chloritization of matrix). 20% euhedral or subhedral 2-6mm quartz phenocrysts, 30% subhedral 1-5mm feldspar phenocrysts, 10% subhedral tan 3mm mica phenocrysts. Weak sericite-clay-chlorite alteration. Pervasive weak calcite in groundmass and on fractures
15.0-18.9	Coarse feldspar-quartz-mica porphyry. Medium grey (from intense sericite-clay alteration). Weathers yellow-brown (from jarosite and orange staining of feldspars). 15% 1-5mm subhedral quartz phenocrysts. 15% 2-4mm anhedral feldspar phenocrysts. 15% 2-4mm subhedral mica phenocrysts
	15.0-15.7 Upper contact is sheared at 65° to CA
	18.8-19.0 Gradational contact with sericite-clay alteration spreading from fractures at 60° to CA
18.9-31.09	Coarse feldspar-quartz-mica porphyry. Variably altered. 15% euhedral 3-6mm quartz phenocrysts, 10% euhedral mica (biotite? phenocrysts (2-4mm), 20% anhedral 1-3mm feldspar phenocrysts. Difficult to distinguish feldspar from

 PROJECT THORN HOLE 86-2

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS					
7.2-15.0 2% PY, mainly disseminated		7.2	8.7	1.5	3017						
but also filling fractures.		8.7	10.2	1.5	3018						
		10.2	11.7	1.5	3019						
		10.2	11.7	1.5	3020-Dup						
		11.7	13.3	1.6	3021						
		13.3	15.0	1.7	3022						
15.0-18.9 7% disseminated PY		15.0	15.96	0.96	3023						
1-3cm massive PY veins with minor		15.96	16.57	PREVIOUSLY SAMPLED							
enargite (?) at 16.0, 17.3 and 18.0		16.57	17.61	1.04	3024						
		17.61	18.09	PREVIOUSLY SAMPLED							
		18.09	18.9	0.81	3025						
18.9-31.9 2-5% disseminated PY. Rare		18.9	20.4	1.5	3026						
black specks (enargite?)		20.4	21.9	1.5	3027						
26.0 Scorodite-stained fracture		21.9	23.4	1.5	3028						

PROJECT THORN

HOLE 86-2

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION
23	100	23				mica, since both weather brown and are generally altered to the same minerals. Pervasive minor calcite in matrix and on fractures
24	80	38				
25				X ≈		24.8-25.0 Crush + gouge zone
26	100	45				
27	98	18				
28						
29	100	16				
30	100	36				
31					EOH (31.09m)	
32						

ALTERATION: SERICITE | CLAY | CHLORITE | | | FRACTURE INTENSITY

PAGE 4 OF 4	PROJECT THORN	HOLE 86-2

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		23.4	24.9	1.5	3029						
		24.9	26.4	1.5	3030						
		26.4	27.9	1.5	3031						
		27.9	29.4	1.5	3032						
		29.4	31.09	1.69	3033						

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT THORN RMC00-05	**COLLAR ELEVATION**
HOLE 86-3	**AZIMUTH** 138.00°
LOCATION	**DIP** -44.00°
LOGGED BY M. PAPAGEORGE.	**LENGTH** 70.41m (231')
DRILLED BY	**HORIZONTAL PROJECTION** 50.65m
ASSAYED BY ACME LABS.	**VERTICAL PROJECTION** 48.91m
CORE SIZE BTW.	
DATE STARTED / **DATE COMPLETED**	

ALTERATION SCALE

0 absent
1 slight
2 moderate
3 intense

DIP TESTS BY

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

SULPHIDE SCALE

0 traces only
1 < 1%
2 1% – 3%
3 3% – 10%
4 > 10%

OBJECTIVE

SUMMARY LOG

0 - 8.42	OVERBURDEN
8.42 - 44.50	FELDSPAR - MICA - QUARTZ PORPHYRY VARYING FROM INTENSE PERVASIVE SERICITE ALTERATION TO MODERATE PERVASIVE SERICITE ALTERATION WITH MODERATE CLAY ALTERATION OF PHENOCRYSTS. 3-5% PYRITE ON AVERAGE, RARE GN (EN?)
44.50 - 56.40	ZONE OF INTENSE Si FLOODING AND BRECCIATION LOTS OF CORE MISSING BUT SAW EVIDENCE OF VUGGY Si WITH PYRITE, Si AND PY MATRIX BX, AND PY VEINLETS. THERE MAY HAVE BEEN SOME EN AT ONE TIME, BUT SOMEONE PROBABLY SCOFFED IT.
56.40 - 70.41	MODERATELY SERICITE ALTERED QFBP. 1-3% SMALL EUHEDRAL PY, POSSIBLE GN (EN?)

PAGE 1 OF 6	PROJECT THORN RMC00-05	HOLE 86-3

ALTERATION columns: SERICITE, CLAY, CHLORITE; FRACTURE INTENSITY

DEPTH (M)	% CORE REC	% RQD	SAMPLED	GEOLOGICAL DESCRIPTION
5	9	0		0-8.42 RUBBLE AND OVERBURDEN
8				8.42- FELDSPAR - MICA - QUARTZ PORPHYRY 15% SUBHEDRAL 2-7mm FELDSPAR. 10% EUHEDRAL 4-5mm MICA. 5% EUHEDRAL 3-7mm QUARTZ PHENOCRYSTS.
10	95	32		
11	73	37		8.42 - 15.90 INTENSE PERVASIVE SERICITE ALTERATION.
13	85	70		
14	96	?		
15			sampled	15.90 - 19.08 MODERATE PERVASIVE CLAY AND SERICITE ALTERATION.
16	57	60		
18	80	72		
19	88	?		19.08 - 23.15 INTENSE PERVASIVE SERICITE ALTERATION
21	78	?		
22	82	?		

PAGE 2 OF 6	PROJECT THORN RMC00-05	HOLE 86-3

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
8.42 - 15.90											
3-5% 0.5-1 mm DISSEMINATED		8.42	10.00	1.58	3302						
EUHEDRAL PYRITE		9.47	9.63	0.16	P.S. RUBBLY, SAMPLED RIGHT THRU.						
		10.00	11.50	1.50	3303						
		11.50	13.00	1.50	3304						
		13.00	14.00	1.00	3305						
		14.00	15.00	1.00	3306						
15.90 - 19.08											
5-10% 0.5-1 mm DISSEMINATED		15.00	16.00	1.00	P.S.						
EUHEDRAL PYRITE											
		16.00	16.30	0.30	PS - LOTS OF CORE LEFT, SAMPLED THRU THIS INTERVAL.						
		16.00	17.50	1.50	3307						
		17.50	19.00	1.50	3308						
19.08-23.15 3-5% 0.5-1 mm DISSEMINATED EUHEDRAL PY											
20.16 - 21.00 3 FINE DISSEMINATED GREY PY VEINLETS, INCREASED PY IN QFBP ~5-10%											

PROJECT THORN RMC00-05

HOLE 86-3

DEPTH (M)	% CORE REC	GEOLOGICAL DESCRIPTION
23		
		23.15 - 27.04 WEAK CLAY AND INTENSE PERVASIVE SERICITE ALTERATION.
24	~90	
25	~94	
26		
27	~92	27.04 - 32.31 INTENSE PERVASIVE SERICITE ALTERATION
28	~95	
29		
30	~95	
31	~95	
32		32.31 - 33.83 WEAK PERVASIVE SERICITE WITH WEAK CLAY ALTERATION OF PHENOCRYSTS.
33	~74	
34	~95	33.83 - 35.20 INTENSE PERVASIVE SERICITE WITH WEAK CLAY ALTERATION OF PHENOCRYSTS
35		
36	~95	35.20 - 38.03 WEAK PERVASIVE SERICITE WITH WEAK CLAY ALTN OF PHENOS.
37	~95	
38		38.03 - 44.50 INTENSE PERVASIVE SERICITE ALTERATION
39	~95	
40	~92	
41		
42	~95	
43	~95	
44		
45		

ALTERATION: SERICITE | CLAY

FRACTURE INTENSITY

 PROJECT THORN RMC00-05 HOLE 86-3

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS	–				
23.15 - 27.04 5+% 0.5-1.5mm											
EUHEDRAL PYRITE ō SPHALK											
PYRITE/TETRAHEDRITE		19.00	27.70	8.70	P.S.						
VEINS.											
PY/TET VEINS @ 23.60, 24.39											
24.80, 23.72, 26.21		28.57	39.40	10.83	P.S						
27.04 - 32.31 3-5% DISSEMINATED											
0.5 - 1 mm EUHEDRAL PY.											
30.30 1cm WIDE PY VEINLET/											
REPLACEMENT ZONE.											
32.31 - 33.83 3-5% DISSEMINATED 0.5-											
1.0mm EUHEDRAL PYRITE,											
OCCASIONALLY IN THIN											
STRINGERS. RARE 2m² PATCHES											
OF GN. 2mm²											
33.83 - 35.20 3-5% DISSEMINATED											
1.00mm EUHEDRAL PY ō											
TRACE GN.											
35.20 - 38.03 5-10% DISSEM EUHEDRAL											
1mm PYRITE ō TRACE GN.											
38.03 - 3-5% PY, <1mm EUHEDRAL											

PROJECT THORN RMC00-05

HOLE 86-3

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY	SILICIFICATION	FRACTURE INTENSITY
46	?					* BETWEEN 44.50 AND 55.17 THE CORE & MEASUREMENT BLOCKS HAVE BEEN HEAVILY FONDLED. LOTSA PEOPLE GRABBIN' 'SHOW AND TELL' CORE ..... NOT MUCH LEFT...				
47	?									
48						44.50-56.40 IN THE PIECES THAT REMAIN, THERE EXISTS SILICA FLOODING WITH PY, VUGGY Si BRECCIATION WITH PYRITE AND GALENA, LESSER TET AND EN.				
49	?									
50		?								
51	~95									
52										
53	~95									
54	~95									
55										
56						56.40-70.41 MODERATE SERICITE ALT'N. OF QFBP. PHENOS ALT'D BUT TEXTURE OF QFBP NOT TOTALLY OBLITERATED.				
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
67					35					

 PROJECT THORN RMC00-05 HOLE 86-3

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		39.40	56.50	17.10	P.S.						
44.50 - 56.40 MASSIVE PODS OF PY											
WITH LESSER PATCHES OF ENARGITE											
MANY DIFFERENT TEXTURES FROM VEINLETS											
TO Si AND PY FLOODING AND DISSEMINATED											
SULPHIDES IN Bx MATRIX. >10% Sx											
56.40 - 70.41 1-3% FINE DISSEMINATED		56.50	58.00	1.50	3309						
EUHEDRAL PY, TRACE AM-											
OUNTS OF GN (EN?)											
		58.00	59.50	1.50	3310						
		59.50	61.00	1.50	3311						
		61.00	62.50	1.50	3312						
		62.50	64.00	1.50	3313						
67.36 - 68.70 FINE EUHEDRAL PY IN		64.00	65.86	1.86	3314						
THIN VEINLETS ~5,											
ROUGHLY 35° TO C.A.		65.86	66.36	0.50	P.S.						
		66.36	68.00	1.64	3315						
		68.00	69.50	1.50	3316						
		69.50	70.41	0.91	3317						

PAGE 6 OF 6

PROJECT THORN RMC00-05

HOLE 86-3

DEPTH (M)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLO-1	CHLORITE	SILICIFICATION	EPIDOTE		FRACTURE INTENSITY
68														
69														
70														
							EOH 70.41m (231')							
71														

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: THORN (RMC00-05)	COLLAR ELEVATION:
HOLE: 86-4	AZIMUTH: 138.00
LOCATION:	DIP: -60.00°
LOGGED BY: MIKE PAPACOSTAS	LENGTH: 108.81 m
DRILLED BY:	HORIZONTAL PROJECTION: 54.41 m
ASSAYED BY:	VERTICAL PROJECTION: 94.23 m
CORE SIZE:	
DATE STARTED: / DATE COMPLETED:	
DIP TESTS BY:	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE

ALTERATION SCALE

0 absent
1 slight
2 moderate
3 intense

SULPHIDE SCALE

0 traces only
1 < 1%
2 1% – 3%
3 3% – 10%
4 > 10%

SUMMARY LOG

0 – 7.32 RUBBLE AND FER[illegible]
7.32 – 74.20 FELDSPAR-BIOTITE-QUARTZ-PORPHYRY
7.32 – 12.20 INTENSE SERICITE ALTERATION ; 3-5% PY
12.20 – 21.05 INTENSE CLAY ALTERATION ; 3-5% PY ± SP, GN (?)
21.05 – 31.12 " SERICITE " ; 3-5% PY
31.12 – 39.09 " CLAY " ; 5-10% PY
39.09 – 52.79 " SERICITE " [illegible]
[illegible] FRACTURES QTZ VEINLETS ; RARE
SILICIFIED ZONES ; 5-10% PY
52.79 – 59.18 COARSENING OF QFBP PHENOCRYSTS, INTENSE
PERVASIVE SERICITE ALTERATION
59.18 – 74.20 COARSE QFBP ; RARE SP + GN , 3-5% PY
74.20 – 75.52 FAULT ZONE
75.52 – 108.81 COARSE QFBP ; WEAK SERICITE, CLAY
CHLORITE ALTERATION ; 3-5% PY , TRACE SP, GN.

PAGE 1 OF 10

PROJECT THORN (RMC00-05)

HOLE 86-4

DEPTH (M)	% CORE REC	% RQD	SAMPLED
2	27	5	
4	83	0	
4	54	0	
5	21	0	
6	66	0	
6	27	0	
7	50	0	
9	95	?	
10–11	67	16	
12	96	?	
13–14	94	?	
15	92	?	*
16–17	93	60	
18	91	?	*
19–20	93	?	*
21	84	28	*
22	79		

FROM–TO	GEOLOGICAL DESCRIPTION
0.0 – 7.32	RUBBLE AND FERRICRETE.
7.32 – 12.20	FELDSPAR BIOTITE QUARTZ PORPHYRY. 10-15% 2-6mm SUBHEDRAL FELDSPAR. 10% EUHEDRAL BIOTITE, 5% EUHEDRAL TO SUBHEDRAL QUARTZ. INTENSE PERVASIVE SERICITE ALTERATION & 1-2% SPORADIC CLAY ALT'D FRACTURES. 3-5% 0.1-0.2 cm EUHEDRAL PYRITE DISSEMINATED THROUGHOUT
	7.90-8.50 INTENSE PERVASIVE CLAY ALTERATION WITH MODERATE SERICITE ALT'N OF PORPHYRY. FELDSPAR & BIOTITE PHENOS TO CLAY. ENARGITE POSSIBLY PRESENT AS SEEN BY RARE SCORODITE STAINING.
	8.57, 11.48, CLAY ALT'D FRACTURES @ 30° AND 50° TO C.A. RESPECTIVELY
12.20 – 21.95	INTENSE PERVASIVE ORANGE (LIMONITE?) WEATHERING CLAY ALTERATION OF FELDSPAR BIOTITE QUARTZ PORPHYRY 5% DISSEMINATED PY, SMALL ≤1mm EUHEDRAL AND SOME LARGER BLEBS ~2-3mm SCALE. TRACE FINE EN (GN?)
21.95 – 21.12	SERICITE ALTERED FELDSPAR-BIOTITE-QUARTZ PORPHYRY AS DESCRIBED ABOVE (7.32 - 12.20).
	21.45 → 21.65: DENSE ZONE OF FRACTURES WITH CLAY ALTERATION, JAROSITE.

STRUCTURE: 50 (≈8.5 m); 50 (≈11.5 m)

ALTERATION: SERICITE | CLAY | | | CHLORITE | EPIDOTE | FRACTURE INTENSITY

*CORE SPLIT BUT NOT REPORTED.

 PROJECT THORN (RMC00-05). HOLE 86-4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		7.32	7.87	0.55	3077						
		7.87	8.55	0.68	P.S						
		8.55	10.05	1.50	3078						
		8.55	10.05	1.50	3080 DUP.						
		10.05	11.42	1.37	3079						
10.98 - 11.32: 2 CLAY ALTERED PY-		11.42	13.44	2.02	P.S.						
EN VEINLETS @ 32° TO CA ~3cm											
APART, ~0.5 cm WIDE (EACH) WITH											
TRACE PY-EN ENRICHMENT BETWEEN											
THE VEINS											
		13.44	15.07	1.63	3081						
		15.07	15.44	0.37	P.S.						
16.30: 0.5cm WIDE PY-EN(?) VEINLET		15.44	17.02	1.58	3082						
WITH AN ENVELOPE OF INTENSE PERVASIVE		17.02	18.62	1.60	3083*						
CLAY ALTERATION WHICH EFFECTS BOTH											
MATRIX AND PHENOS. DARK GREY + BLACK											
F.GRAINED SULPHIDES											
19.50: PREVIOUSLY SAMPLED PY-EN(?)		19.33	20.83	1.50	3084						
VEINLET, 0.3mm WIDE, DARK GREY, FINE		20.83	21.95	1.12	3085						
GRAINED.											

PROJECT THORN (RMC00-05)

HOLE 86-4

DEPTH (M)	% CORE REC	% RQD
23		
24	83	57
25		
26	97	
27		
28		
29	73	
30	93	?
31		
32	91	?
33	92	45
34		
35	95	?
36	79	?
37		
38	99	?
39	87	?
40		
41	89	?
42	89	76
43		
44	85	6
45		

Interval	GEOLOGICAL DESCRIPTION
	24.23-26: CLAY ALTERED VEINLETS
31.12-34.08	ORANGE WEATHERING INTENSE CLAY ALT'N AS DESCRIBED IN UNIT FOUND BETWEEN 12.20-21.95. SMALL 0.5-1mm SCALE EUHEDRAL PYRITE, 5-10%.
	32.61 - 32.97: INTERVAL OF SERICITE ALTERATION IN QFBP CONTAINS TRACE SP ALONG W/ UBIQUITOUS DISSEM. EUHEDRAL PY.
34.08-52.79	SERICITE ALTERED QFBP
	34.05 - 39.53 WISPY CLAY ALTERED FRACTURES AND VEINLETS. PYRITE MORE ABUNDANT HERE THAN IN SERICITE ALT'D QFBP @ TOP OF HOLE.
	42.68-46.87: INCREASED CLAY ALTERATION IN WISPY FRACTURES [illegible] CLAY [illegible] PHENOCRYSTS

ALTERATION: SERICITE, CLAY

FRACTURE INTENSITY

PAGE 4 OF 10	PROJECT THORN (RMC-05)	HOLE 86-4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
23.63→23.76: PY-EN VEINLETS W/		21.95	23.50	1.55	3086						
INCREASED % OF DISSEMINATED SULPHIDES		23.50	25.26	1.76	3087						
IN THE PORPHYRY ->15%		25.26	26.06	0.80	3088 TQ						
24.26-25.21: ZONE CONTAINS ~10											
PY-EN-HM VEINLETS W/ CLAY ALT'D											
ENVELOPES IN AN OTHERWISE TYPICAL		26.06	26.52	0.46	3089						
SECTION OF PORPHYRY FOR THIS HOLE.		26.52	28.47	1.95	3090						
SULPHIDE V. FINE GRAINED, WIDTH		*28.47	-28.77	MISSING CORE*							
INCLUDING ENVELOPE ~0.4cm.		28.77	30.74	1.97	3091						
26.47: PY-EN VEIN @ 62° TO C.A.											
SULPHIDE RICH ENVELOPE ~1cm WIDE											
IN TOTAL.											
26.47-27.49: SERIES OF SULPHIDE		30.74	31.64	0.90	P.S.						
VEINS, DOMINANTLY PY-EN W/ RARE		31.64	32.61	0.97	3092						
HM, AND ASSOCIATED LOCALLY INTENSE		32.61	32.97	0.36	3093						
CLAY ALT'D ENVELOPES. ~8 VEINS ACROSS		32.97	34.08	1.11	3094						
THE INTERVAL											
30.27-30.31: 4cm WIDE ZONE											
OF PY-EN-HM REPLACEMENT IN											
PORPHYRY.		34.08	34.76	0.68	3095						
		34.76	35.16	0.40	P.S.						
		35.16	36.16	1.00	3096						
		36.16	37.61	1.45	3097						
		37.61	37.98	0.37	P.S.						
		37.98	39.48	1.50	3098						
		39.48	41.15	1.67	3099						
		39.48	41.15	1.67	3100 DUP						
		41.15	41.27	0.12	P.S						
		41.27	42.77	1.50	3101						
		42.77	44.37	1.60	3102						
		44.37	45.87	1.50	3103						
		45.87	46.87	1.00	3104						

PROJECT THORN (RMC00-05)

HOLE 86-4

DEPTH (M)	% CORE REC	% RQD
46		
47		
48	95	
49		
50	80	16
51		
52	97	73
53	98	53
54		
55	96	77
56	98	89
57		
58	95	75
59	96	46
60		
61	89	68
62	71	59
63		
64	98	72
65	90	75
66		
67	96	91
68		

LITHOLOGY | STRUCTURE

ALTERATION: SERICITE | CLAY | SILICIFICATION | [illegible] | [illegible] | FADATE | FRACTURE INTENSITY

GEOLOGICAL DESCRIPTION

45.87–49.38: PATCHY SILICIFICATION OF SERICITE ALTERED QFBP. 0.1–0.3 cm EUHEDRAL PYRITE OCCURS PATCHY IN SILICIFICATION. WISPY CLAY ALTERED FRACTURES OCCUR SPORADICALLY THROUGHOUT

52.53–52.79: PATCHY SILICIFICATION OF QFBP.

52.79–59.18: FELDSPAR-QUARTZ-BIOTITE PORPHYRY 10-15% SUBHEDRAL FELDSPAR, 10-15% EUHEDRAL TO SUBHEDRAL 3-7mm QUARTZ PHENOS. 5-10% 2-4mm EUHEDRAL BIOTITE. INTENSE PERVASIVE SERICITE ALTERATION WITH RARE CLAY ALTERED WISPY FRACTURES

59.18–[illegible].20: FELDSPAR-QUARTZ-BIOTITE PORPHYRY. SEE A COARSENING OF PHENOCRYSTS FROM PREVIOUS DIVISION. 10-15%. 1mm-5mm FELDSPAR, 10-15% 3-10mm QUARTZ PHENOS. 5-10% 2-7mm BIOTITE PHENOS INTENSE SERICITE WEATHERING WITH PATCHY WEAK CLAY ALT'N.

PAGE 6 OF 10	PROJECT THORN (RMC00-05)	HOLE 86-4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
46.87-49.38: SILICIFICATION OF SERICITE ALT'D QFBP, WITH SPORADIC PATCHES OF (REPLACEMENT?) 0.1 - 0.3mm EUHEDRAL PYRITE. 7/10% PY IN THE PATCHES. TRACE EN (HM?) IN THE PATCHES		46.87	48.38	1.51	3105						
		48.38	49.38	1.00	3106						
		49.38	51.03	1.65	3107						
		51.03	52.53	1.50	3108						
51.55-51.67: 0.8cm PY - SP(?) - EN (TRACE) VEINLET											
52.53-52.79: PY-SP-GN-EN IN SILICIFIED ZONE OF QFBP		52.53	52.79	0.26	3109						
52.79-59.18: 3-5% DISSEM 1-2mm EUHEDRAL PY.		52.79	54.30	1.51	3110						
		54.30	55.80	1.50	3111						
		55.80	57.30	1.50	3112						
		57.30	58.30	1.00	3113						
59.18-74.60: RARE SP x GN ?? 3-5% DISSEM 1-2m EUHEDRAL PY		58.30	59.18	0.88	3114						
		59.18	60.68	1.50	3115						
		60.68	62.18	1.50	3116						
		62.18	63.68	1.50	3117						
		63.68	65.18	1.50	3118						
		65.18	66.68	1.50	3119						
		65.18	66.68	1.50	3120 DUP						
		66.68	68.18	1.50	3121						

PAGE 7 OF 9 | PROJECT THORN (RMC00-05) | HOLE 86-4

DEPTH (M)	% CORE REC	RQD
69–70	96	77
71–72	98	65
72–73	98	89
74–75	90	60
75–76	86	90
77–78	76	72
78–79	75	75
80–81	90	?
81–82	98	59
83–84	95	87
84–85	95	78
86–87	94	82
87–88	85	82
89–90	92	90
91	81	53

SAMPLED | LITHOLOGY | STRUCTURE

GEOLOGICAL DESCRIPTION

74.20-75.52 FAULT ZONE. QFBP DEVELOPS A FABRIC AND CLAY ALT'N ZONES INTO JAROSITE/CLAY ALT'N FROM 74.77 TO 75.44 THEN INTO CLAY ALTERED QFBP FROM 75.44 TO 75.52

75.52-[illegible] COARSE FELDSPAR-QUARTZ-MICA PORPHYRY. 15-20% SUBHEDRAL 2-5mm FELDSPAR PHENOS, 10-15% EUHEDRAL TO SUBHEDRAL 3-8mm QUARTZ PHENOS, 5-10% EUHEDRAL 2-4mm BIOTITE PHENOCRYSTS... WEAK SERICITE-CHLORITE-CLAY ALTERATION OF PHENOCRYSTS & GROUNDMASS

ALTERATION: SERICITE | CLAY | | | CHLORITE | PYRITE | FRACTURE INTENSITY

 PROJECT THORN (RMC00-05) HOLE 86-4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		68.18	69.68	1.50	3122						
		69.68	71.18	1.50	3123						
71.41 - 71.80 5mm WIDE QZ		71.18	72.68	1.50	3124						
VEIN WITH 2mm WIDE CLAY		72.68	74.20	1.52	3125						
ALTERED ENVELOPES.											
74 74.20 7552 FAULT GOUGE ZONE		74.20	75.52	1.32	3126						
1-2% PYRITE											
75.52 - 108.81 3-5% DISSEMINATED		75.52	77.02	1.50	3127						
EUHEDRAL PYRITE, 1-2 mm. TRACE											
AMOUNTS OF GALENA AND SPHALERITE.											
		77.02	78.62	1.60	3128						
		78.62	80.28	1.66	3129						
		80.28	80.71	0.43	P.S.						
8!		80.71	82.15	1.50	3130						
		82.15	83.65	1.50	3131						
		83.65	85.15	1.50	3132						
		85.15	86.45	1.30	3133						
		86.45	87.95	1.50	3134						
		87.95	89.45	1.50	3135						
		89.45	90.95	1.50	3136						

PAGE 9 OF 10	PROJECT THORN (Rmc00-05)	HOLE 86-4

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY	CHLORITE	FRACTURE INTENSITY
92									
93	80	69							
94	98	88							
95									
96	86	69							
97	75	20							
98									
99	65	54							
100	90	83							
101									
102	90	71							
103	88	83							
104									
105	91	88							
106									
107									
108	76	76			EOH 108.81				

PAGE 10 OF 10 | PROJECT THORN. RMC00-05 | HOLE 86-4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		90.95	92.45	1.50	3137						
		92.45	93.95	1.50	3138						
		93.95	95.45	1.50	3139						
		93.95	95.45	1.50	3140 DUP						
		95.45	96.95	1.50	3141						
		96.95	98.45	1.50	3142						
		98.45	99.95	1.50	3143						
		99.95	101.45	1.50	3144						
		101.45	102.95	1.50	3145						
		102.95	104.45	1.50	3146						
		104.45	105.95	1.50	3147						
		105.95	107.13	1.18	3148						
		107.40	108.81	1.41	3149.						

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: THORN (RMC00-05)	COLLAR ELEVATION:
HOLE: 86-5	AZIMUTH: 108°
LOCATION:	DIP: -45.00°
LOGGED BY: M. PAPAGEORGE	LENGTH: 78.03m
DRILLED BY:	HORIZONTAL PROJECTION: 55.37m
ASSAYED BY: ACME	VERTICAL PROJECTION: 55.37m
CORE SIZE: BTW	

DATE STARTED	DATE COMPLETED

DIP TESTS BY

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

ALTERATION SCALE

- 0 absent
- 1 slight
- 2 moderate
- 3 intense

SULPHIDE SCALE

- 0 traces only
- 1 < 1%
- 2 1% – 3%
- 3 3% – 10%
- 4 > 10%

OBJECTIVE

SUMMARY LOG

0 - 7.92m RUBBLE
7.92 - 78.00m FELDSPAR - QUARTZ - BIOTITE PORPHYRY WITH 3% DISSEMINATED SULFIDE 1-2mm PYRITE AND INTENSE PERVASIVE SERICITE ALT'N. [illegible] [illegible] ALT'N IN FRACTURES

PAGE 1 OF 8 | PROJECT THORN | HOLE 86-5

DEPTH (M)	% CORE REC	% RQD
1		
2		
3		
4	0	0
5		
6		
7		
8		
9	95	?
10	98	23
11	98	52
12		
13	87	41
14		
15	96	62
16	91	67
17		
18	90	81
19	90	?
20		
21	83	61
22		
	96	

LITHOLOGY | STRUCTURE: 40°, 40°, 28°, 33°, 45°, 40°, 55°, 52°, 23°, 12°, 40°, 50°, 45°, 30°, 22°, 50°, MIZD. PY. UM. ± EN, 40°

GEOLOGICAL DESCRIPTION

ALTERATION: SERICITE | CLAY | | | CHLORITE | EPIDOTE | FRACTURE INTENSITY

7.92 - 78.03 FELDSPAR - BIOTITE - QUARTZ PORPHYRY
20% SUB TO ANHEDRAL 2-6mm FELDSPAR PHENOCRYSTS, 5-10% 2-3mm SUBHEDRAL TO EUHEDRAL QUARTZ PHENOS, 10% 2-7mm EUHEDRAL BIOTITE PHENOS.
INTENSE PERVASIVE SERICITE ALT'N OF FELDSPAR AND BIOTITE PHENOCRYSTS AS WELL AS GROUNDMASS.
WEAK CLAY ALTERATION FILLING FRACTURES

9.65m CLAY ALTERED FRACTURE @ 40° TO CA.
TOP OF PY-EN MINERALIZED ZONE.
9.65-10.02 MODERATE CLAY ALTN IN FRACTURES AND PHENOS.
9.73 CLAY ALT'D FRACTURE @ 28° TO CA.
BOTTOM OF PY-EN MINERALIZED ZONE
9.80 CLAY ALT'D FRACTURE @ 40° TO CA.
10.30 & 10.37 CLAY ALT'D FRAC @ 39° & 45° TO C.A RESPECTIVELY.
12.53 CLAY ALT'D FRAC @ 50° TO CA SEE EUHEDRAL PYRITE WITHIN CLAY ALT'N & WITHIN SERICITE (GROUNDMASS) AS DESCR [illegible] ABOVE
12.58 CLAY ALT'D FRAC @ 40° TO CA.
13.21 CLAY ALT'D FRAC @ 33° TO CA WITH A 0.5cm HALO ON EITHER SIDE. POSSIBLY A CLAY ALT'N [illegible] HALO.

PAGE 2 OF 8 PROJECT THORN HOLE 86-5

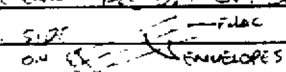
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
7.50 – 9.65 : 3-5% DISSEMINA-		7.50	8.0	0.08	3034	
TED PYRITE WITHIN GROUNDMASS		8.0	9.0	Previously sampled		
AND ALSO 2-3 mm WIDE STRINGERS.		9.0	10.5	1.5	3035	
		10.5	12.0	1.5	3036	
9.65 – 9.81: QUARTZ W/ CLAY		12.0	13.5	1.5	3037	
ALTERED ORANGE BROWN 'GUNGE'.		13.5	15.0	1.5	3038	
QUARTZ CONTAINS CLAY ALT'D O-BN		15.0	16.5	1.5	3039	
GUNGE PODS W/ PYRITIC BOXWORK.		15.0	16.5	1.5	3040-DUP	
		16.5	18.0	1.5	3041	
8.00 – 8.05: PYRITE VEIN. ~75% PY		18.0	19.34	1.34	3042	
WITH QUARTZ GANGUE.		19.34	19.65	PREVIOUSLY SAMPLED		
		19.65	20.65	1.00	3043	
19.26 – 19.46 QUITE BROKEN UP, BUT SOME-		20.65	21.77	1.12	3044	
WHERE IN THE < 20cm SPAN THERE IS						
A PYRITE/ENARGITE + MYSTERY RED MINERAL						
VEIN ? HEMATITE. SOME CLAY ALT'N						
ACCOMPANIES THIS MZN						
21.80: <1cm WIDE PY-EN-HM						
VEIN @ 40° TO C.A.						
23.67: 2mm WIDE PY-EN VEINLET						
@ 25° TO C.A.						

PAGE 3 OF 8 | PROJECT THORN (RMCDO-05) | HOLE 86-5

DEPTH (M)	% CORE REC	% RQD	GRAPHIC		LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY			CHLORITE	EPIDOTE	FRACTURE INTENSITY

GEOLOGICAL DESCRIPTION

15.29 CLAY ALT'D FRAC @ 38° TO C.A.
WITH 2.5cm WHITE CLAY (?) ENVELOPE
15.39 SAME AS ABOVE
15.59 CLAY ALT'D FRAC @ 78° TO C.A.
16.25 CLAY ALT'D FRAC @ 40° TO C.A.
16.53 CLAY ALT'D PYRITE STRINGER @
40° TO C.A.
17.96 CLAY ALT'D FRAC @ 45° TO C.A
18.46 " @ 30° TO C.A.
18.74 CLAY ALT'D FRAC @ 22° TO C.A WITH
0.4mm WHITE CLAY (?) [illegible]
NOTE: THESE ENVELOPES ARE 0.4-0.5 [illegible]
EITHER SIDE ON [illegible]



20.55 CLAY ALT'D FRAC 50° TO C.A
21.50 STRINGER (PY, EM, EN) FILLED
FRACTURE @ 43° TO C.A.
21.87 CLAY ALT'D FRAC @ 43° TO C.A.
23.57 " @ 33° TO C.A.
25.01 CLAY ALT'D FRAC @ 35° TO CA.
25.28 " @ 35° TO C.A.
26.23 " @ 20° TO C.A
32.65 " @ 40° TO CA.

CLAY ALT'D FRACTURES @
36.19 35° TO CA.
36.23 60° TO C.A.
36.50 45° TO C.A
37.04 25° TO C.A.
37.22 50° TO C.A.

42.45-42.98 INCREASED QTZ VEINING AND
MORE PERVASIVE [illegible] ALTERATION.

Depth scale (m): 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45

% Core Rec: 91, 85, 93, 95, 95, 95, 95, 96, 88, 95, 95, 95, 93

Structure annotations: 38°, 25°, 35° MOD.PY-EN, 35°, 25° PY-EN, 20°, 27° PY-EN, 44° PY-EN, 40°, 22°, 35°, 50°, 45° QZ-PY, 50° QZ PY

PAGE 4 OF 8 | PROJECT THORN (RMC00-05) | HOLE 86-5

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
23.67: 2mm WIDE PY-EN VEINLET		21.77	22.00	0.23	P.S.						
@25° TO C.A		22.00	23.00	1.00	3045						
23.79: 2-3 mm WIDE PY-EN VEINLET		23.00	24.00	1.00	3046						
@40° TO C.A., INTERSECTS 23.67		24.00	25.00	1.00	P.S.						
VEINLET		25.00	26.00	1.00	3047						
25.01 CLAY ALT'D FRAC W/		26.00	27.00	1.00	3048						
PY-EN (~3%-5%) @35° TO C.A		27.00	28.00	1.00	PS						
		28.00	29.00	1.00	3049*Q						
25.42 PY-EN VEINLET, 2-5mm											
WIDE @25° TO C.A											
DISSEM EUHEDRAL PYRITE,											
10% (IN VEIN), REMAINDER											
IS BLACK ENARGITE IN SOME											
SORT OF SOFT CLAY ALT'D											
GANGUE. HAS THE SAME 0.5cm											
WHITE CLAY(?) ENVELOPE AS		29.00	32.00	3.00	P.S.						
OTHER CLAY ALT'D FRACTURES.		32.00	32.50	0.50	3050						
BIFURCATES INTO 2 VEINS NEAR C.A.		32.50	33.23	0.73	P.S.						
-		33.23	34.10	0.87	3051						
25.56 SAME AS ABOVE HOWEVER		34.10	34.94	0.84	3061						
ORIENTED @30° TO C.A.		34.94	36.35	1.63	3052						
2 VEINS PRESENT, BUT CORE IS		36.35	37.85	1.50	3053						
MISSING HERE. 2 VEINS MAY BE											
A BIFURCATION OFF OF 1 VEIN AS											
ABOVE.											
		37.85	37.94	0.09	P.S.						
26.73 0.8cm WIDE PY-EN(?) VEIN		37.94	39.00	1.06	3054						
@22° TO C.A. FINE DISS-											
EMINATED EUHEDRAL PY AS											
IN ENTIRE UNIT, + V. FINE											
DISSEM. PY IN VEIN.											
~27.70 3-4mm WIDE PYRITE W A											
VEIN, RIMMED BY ENARGITE.											
SOME MALACHITE/AZURITE PLUS											
>10% DISSEM PY IN MATRIX		39.00	42.00	3.00	P.S.						
AROUND VEIN		42.00	42.49	0.49	3055*Q						
		42.49	42.76	0.27	P.S.						
~29.16- CONTENT OF DISSEM PY IN QFP		42.76	43.10	0.34	3056						
29.36 INCREASES TO 3-10%, WHILE		43.10	43.24	0.14	P.S.						
29.26-29.30 SEMI MASSIVE PY-EN		43.24	44.74	1.50	3057						
EUHEDRAL PY W/IN DISSEMINATED EN		44.74	46.00	1.26	3058						
IN SERICITE ALT'D QFP											
29.70 SCORODITE STAINING ON ROCK											
POSSIBLY SOME FINE GRAINED DISS-											
EMINATED EN IN QFP?											

PROJECT THORN (EMC00-05)

HOLE 86-5

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SILICIC	CLAY			CHLORITE	CARBONATE	FRACTURE INTENSITY
						53.95: QTZ VEIN @ 30° TO C.A.							
46													
47	~80												
48	~95												
49													
	95												
50													
51	~95												
52													
53	~95				30°								
54	~95												
						55.27 Q2 VEIN @ 52° TO C.A.							
55					52°								
56	95												
57	~95												
58													
59	~95												
60													
	~84												
61													
	??	100											
62						62.43 -> 62.52: INTENSE CLAY ALTERATION							
63	~86					64.62: Q2 VEINLET 30° TO CA.							
64	~95				30°								
65													
66	90												
67					30°	57.00: Q2-PY(?) VEINLET 30° TO C.A.							
	71												
68													

 PROJECT THORN (RMC00-05) HOLE 86-5

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
46 30.70 → 30.78		46.00	53.00	7.00	P.S.	
SERIES OF PY-EN VEINS. ALREADY		53.06	53.98	0.98	3059	
SPLIT, TOUGH TO SEE DETAILS		53.00	53.98	0.98	3060-DUP	
		53.98	54.46	0.48	3062	
32.40 : PY-EN VEIN @ 40° TO CA						
32.46 : FOLDED OVER PY-EN VEIN						
32.90 : PY VEINLET w INCREASED						
DISSEM. PY IN PORPHYRY						
34.38 → 34.52 : QT-PY-EN VEINLET						
QT-PY VEINLETS :						
@36.00 (22° TO CA), 36.80 (45° TO CA)						
37.88 (55° TO CA), 38.02, 38.90						
(30° TO CA)						
39.40 → 39.43 : PY-EN VEINLETS						
53 40.40 → 40.86 : PY-EN-HM "						
w QZ & ALUNITE, RARE QZ VUGS.						
42.48 → 42.98 : QZ VEINLETS, INCREASED						
DISSEM. PY IN PORPHYRY.						
45.00 → 45.20 : QZ-PY VEINS, SOME						
REPLACEMENT.						
46.19 → 50.19 : DENSE QZ-PY VEINING						
30-40% SULPHIDES, SOME QZ VUGS ~		54.59	56.16	1.57	3063	
1-1.5cm		56.16	57.00	0.84	3064	
50.59 → 52.00 : MORE VEINING						
AS ABOVE. GYPSUM (?) IN VUGS						
52.24 → 53.00 : MORE VEINING AS ABOVE		57.00	63.00	5.84	P.S.	
53.44 → 54.50 : QZ-PY-EN VEINING.						
54.95 → 55.32 : QZ-VEINING, <10% SX						
55.10 → 58.20 : QZ-PY ±EN VEINING						
GLASSY RED-BROWN MINERAL PRESENT						
→ RUTILE?						
58.20 → 64.60 : DENSE QZ-PY-EN						
VEINING, RARE ALUNITE, MODERATE		63.00	63.40	0.40	3065	
CLAY ALT'N						
		64.45	65.30	0.85	3066 *Q	
		65.30	66.80	1.50	3067	
		66.80	68.30	1.50	3068	

PROJECT THORN (RMC00-05)

HOLE 86-5

DEPTH (M)	% CORE REC	% RQD	SAMPLE(D)	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION
69	83				30 PY-EN	
70					33 Q-PY-EN	
71	95	83				
72	90	45				
73						
74	82				45	74.05 : 40° TO CA. CLAY ALT'D VEINLET
75						
76	83	57				
77	66					
78						E.O.H.
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						

ALTERATION: SERICITE | CLAY | | | CHLORITE | FE-OXIDE (?)

FRACTURE INTENSITY

PAGE 8 OF 8	PROJECT THORN (RMC00-05)	HOLE 86-5

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		68.30	69.29	0.99	3069						
69.30 : PY-EN VEINLET @ 30 TO C.A.		69.29	69.98	0.69	3070						
70.00: QZ-PY-EN VEINLET @ 33° TO CA											
		69.98	71.50	1.52	3071						
		71.50	73.00	1.50	3072						
73.30: (?CPY ACT'D) PY-EN VEINLET		73.00	74.30	1.30	3073						
		74.30	74.83	0.53	3074Q						
		74.83	75.85	1.05	3075						
74.31-74.57 : PY-EN VEINLETS AND		75.85	77.57	1.72	3076						
REPLACEMENT. DISSEM & EUHEDRAL		77.57	78.03	0.46	P.S.						
PY. SOME SCORODITE STAINING											
74.83: PY-EN VEINLET @ 24° TO											
C.A											

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: THORN	COLLAR ELEVATION:
HOLE: 86-6	AZIMUTH: 300°
LOCATION:	DIP: -50°
LOGGED BY: H. AWMACK	LENGTH: 89.0 m
DRILLED BY:	HORIZONTAL PROJECTION: 57.21 m
ASSAYED BY: ACME	VERTICAL PROJECTION: 68.18 m
CORE SIZE: BTW	
DATE STARTED:	DATE COMPLETED:

DIP TESTS BY

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

ALTERATION SCALE

0 absent
1 slight
2 moderate
3 intense

SULPHIDE SCALE

0 traces only
1 < 1%
2 1% – 3%
3 3% – 10%
4 > 10%

OBJECTIVE

SUMMARY LOG

0.0 - 13.0 m	Overburden
13.0 - 46.8 m	Weakly argillized feldspar-biotite (-quartz) porphyry, with 5% pyrite. Narrow fracture-controlled zones of stronger clay-sericite alteration.
46.8 - 82.1 m	Clay-sericite altered feldspar-biotite-quartz porphyry with 2-20% pyrite. Pyrite-enargite-tetrahedrite veining scattered from 67 to 71.1 m. Lower contact (75-82.1 m) is a fault zone.
82.1 - 87.3 m	Weakly chloritized post-mineral andesite dyke (emplaced in faulted contact between porphyry and Stuhini andesite)
87.3 - 89.0 m	Stuhini Group andesitic lapilli tuff, moderately chloritized.

PROJECT: THORN

HOLE: 86-6

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION		SERICITE	CLAY	FRACTURE INTENSITY
0–13.0	12	0		OB		0-13.0	Overburden - Clay and boulders of mixed lithology.			
	44	0		OB						
	51	0		OB						
	18	0		OB						
	29	0		OB						
13–	25	0				13.0-46.9	Feldspar-biotite(-quartz) porphyry			
							30% anhedral 0.5-2mm feldspar planos			
							5% euhedral 4mm mica (biotite?) books			
							rare subhedral 4mm quartz phenocrysts.			
	79	0					Generally brown-weathering, medium grey,			
							weakly argillized with 5% disseminated			
							pyrite.			
							0.2 - 3.6m sections of argillization,			
							cored by strong sericitization in places,			
	94	33				Clay fracture 5°	around fractures and small faults. Weathers			
							orange.			
						13.0-13.8	Fault zone - gouge and poor recovery			
	95	24				14.1-15.7	Fault zone - gouge, broken core and poor recovery			
						16.6-16.9	Argillized			
						17.2-17.7	Broken and argillized			
	59	10				Clay fracture 65°				
22–	100	47								
	90	0								
	92	50								

 PROJECT THORN HOLE 86-6

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	WIDTH	SAMPLE NUMBER	ASSAYS					
13.0 - 46.8 5% fine- to medium-grained disseminated pyrite. Rare specks disseminated enargite in argillized/sericitized sections		13.0	14.5	1.5	3257						
		14.5	16.0	1.5	3258						
		16.0	17.5	1.5	3259				} Duplicates		
		16.0	17.5	1.5	3260						
		17.5	19.0	1.5	3261						
		19.0	20.5	1.5	3262						
		20.5	22.0	1.5	3263						

PAGE 3 OF 8	PROJECT THORN	HOLE 86-6

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION			ALTERATION: SERICITE	CLAY	FRACTURE INTENSITY
23	92	50		D			25.8 - 29.9	Argillized with sericitic sections			
						Clay fracture 60°	31.4 - 37.3	Argillized with sericitic sections			
24	86	14		D		Clay fract. 60°	38.4 - 38.7	Argillized			
							39.3 - 39.9	Argillized			
25											
26	~95	?		D							
27	~100	?		D							
28						Clay fract 25°					
29	89	29		D							
30	100	61		D							
31											
32	~100	?		D		Clay fract. 20°					
33	~95	?									
34	~100	?		D		Py-CN on 20°					
35											
36	~95	?		D							
37											
38	95	15		D		Ser-Py fract 55°					
39	100	24		D							
40											
41	~90	?		D							
42	~100	?		D							
43											
44	95	28		D							
45	95	23									

PAGE 4 OF 8	PROJECT THORN	HOLE 86-6

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
28.3 A few black specks		22.0	23.9	1.9	3264						
(enargite?) on fracture		23.9	25.88	1.98	3265						
34.8 1.5cm irregular pyrite-		25.88	26.34	Previously sampled							
tetrahedrite-enargite vein		26.34	27.62	1.28	3266						
		27.62	27.86	Previously sampled							
		27.86	29.5	1.64	3267						
		29.5	30.6	1.1	3268						
		30.6	31.6	1.0	3269						
		31.6	32.31	Previously sampled							
		32.31	33.94	1.63	3270						
		33.94	34.97	Previously sampled							
		34.97	35.3	0.33	3271						
		35.3	36.35	Previously sampled							
		36.35	38.05	1.7	3272						
		38.05	39.75	1.7	3273						
		39.75	41.45	1.7	3274						
		41.45	42.00	Previously sampled							
		42.0	43.6	1.6	3275						
		43.6	45.2	1.6	3276						
		45.2	46.8	1.6	3277						

PAGE 5 OF 8	PROJECT THORN	HOLE 86-6

DEPTH (M) | % CORE REC | % RQD | SAMPLED | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION: SERICITE, CLAY | FRACTURE INTENSITY

% CORE REC	% RQD	Structure notes
95	23	
100		
~95	?	
~95	?	
95		1cm @ 2cm 25°
92		PY-GY vn 60°
100		
100		PY vn 40° PY vn 20°
~95	?	
~95	?	PY vn
~95	?	
91		
95		PY vn
~95	?	
~95	?	
~95	?	

46.8-82.1m Feldspar-biotite(-quartz) porphyry
30% 1-2mm euhedral feldspar phenocrysts
5% (rose-coloured) biotite phenocrysts
<5% 2-3mm quartz phenocrysts
Variably argillized and sericitized, weathering orange to light grey.
Sparse pyrite ± enargite ± tetrahedrite and quartz veins.
Crushed and broken sections from 59.0 to 82.1m
Fault gouge: 59.6, 73.5, 74.9-75.4, 76.3-76.8, 77.4-77.6, 78.4, 79.0-79.2, 79.4-79.9, 80.3-82.1m

 PROJECT THORN HOLE 86-6

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		46.8	48.82	2.02	3278						
		48.82	49.78	Previously sampled							
		49.78	51.3	1.52	3279				} Duplicates		
		49.78	51.3	1.52	3280						
46.8-76.4m 5% fine-grained disseminated		51.3	52.9	1.6	3281						
pyrite throughout. Scattered 0.2-1cm		52.9	54.5	1.6	3282						
pyrite veins along clay-bearing		54.5	56.1	1.6	3283						
fractures		56.1	57.55	1.45	3284						
		57.55	58.87	Previously sampled							
56.0 1cm PY vein at 40° to CA		58.87	60.52	1.65	3285						
56.4 1cm PY-clay vein @ 20° to CA		60.52	61.18	Previously sampled							
59.3 Irregular 0.5cm PY vein @ 10° to CA		61.18	62.9	1.72	3286						
63.1 Irregular 0.5cm PY vn @ 25° to CA		62.9	64.67	1.77	3287						
64.6 2cm PY vein		64.67	68.04	Previously sampled							
64.6- 67.7 10-20% PY, both disseminated											
and filling fractures											
67.2 10cm (?) massive PY vein with											
sparse enargite											

PAGE 7 OF 8	PROJECT THORN	HOLE 86-6

Depth scale (m): 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90

% CORE REC	% RQD
95	?
95	?
95	?
86	11
98	9
87	8
100	0
98	8
100	0
74	0
100	0
63	21
95	25
95	19

SAMPLED: EOH 89.0m

ALTERATION: SERICITE, CLAY, CHLORITE

FRACTURE INTENSITY

GEOLOGICAL DESCRIPTION

TT-PY vn

PY vn

82.1-87.3m Andesite dyke: fine-grained, dark green, 10% 0.5-2mm feldspar phenocrysts, 10% 0.5-3mm calcite amygdules. Moderately magnetic. Calcite tension gashes.
Fault gouge: 82.1-82.3, 83.6-83.9

87.3-89.0m Andesitic lapilli tuff (Stuhini): Medium green, non-magnetic, Subrounded heterolithic andesitic fragments to 1.5cm.
Fault gouge. 87.3-87.5, 87.6-88.5, 88.7m

PAGE 8 OF 8 | PROJECT THORN | HOLE 86-6

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
69.3 2cm TT-PY vein @ 30° to CA		68.04	69.01	0.97	3288	
70.7-71.1(?) PY-EN-TT vein		69.01	69.35	Previously sampled		
		69.35	70.29	0.94	3289	
		70.29	71.78	Previously Sampled		
		71.78	73.3	7.52	3290	
		73.3	74.8	1.5	3291	
		74.8	76.4	1.6	3292	
		76.4	77.8	1.4	3293	
		77.8	79.2	1.4	3294	
		79.2	80.6	1.4	3295	
		80.6	82.1	1.5	3296	
		82.1	83.8	1.7	3297	
		83.8	85.5	1.7	3298	
		85.5	87.3	1.8	3299	} Duplicates
		85.5	87.3	1.8	3300	}
		87.3	89.0	1.7	3301	
76.4-82.1 2-3% fine-grained dissem. pyrite						
76.6 1cm PY-clay vein @ 25° to CA						

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DRILL LOG

PROJECT THORN RMC00-05	COLLAR ELEVATION
HOLE 86-7	AZIMUTH 180°
LOCATION	DIP -45.00°
LOGGED BY M. PAPAGEORGE	LENGTH 169.47 m
DRILLED BY	HORIZONTAL PROJECTION 119.83m
ASSAYED BY ACME LABS	VERTICAL PROJECTION 119.83m
CORE SIZE BTW	

DATE STARTED	DATE COMPLETED

DIP TESTS BY

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

ALTERATION SCALE

0 1 2 3

- absent
- slight
- moderate
- intense

SULPHIDE SCALE

0 1 2 3 4

- traces only
- < 1%
- 1% – 3%
- 3% – 10%
- > 10%

OBJECTIVE

SUMMARY LOG

PROJECT THORN - RMC00-05

HOLE 86-7

DEPTH (M)	% CORE REC	% RQD	SAMPLES	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY	CHLORITE	EPIDOTE	SILICIFICATION	FRACTURE INTENSITY
1–5						*NOTE: 1ST CORE BOX METER MARKERS IN [illegible] (Rough?) SHAPE. MEASURED BACK USING MARKERS IN 2ND BOX WHICH APPEARED PRETTY [illegible], HOWEVER THE 'CORE [illegible]' IN THE LAST 2 [illegible] WAS MISSING (!) SO I CAREFULLY PUT A NEW ONE IN... ~ : MARKERS PRETTY WACKY UNTIL 3RD BOX, SO '?' FOR % CORE REC & % RQD FOR THESE BOXES						
11.78 – 21.64						FELDSPAR - QUARTZ - MICA PORPHYRY. 10-15% 2-3mm SUBHEDRAL FELDSPAR, 10% 2-4mm [illegible] TO SUBHEDRAL QUARTZ, 5% EUHEDRAL TO SUBHEDRAL 2-3mm MICA. INTENSE PERVASIVE SERICITE ALTERATION WITH [illegible] [illegible] ALTERATION IN WISPY FRACTURES AND VEINLETS...						
21.64 – 24.80						SAME UNIT AS ABOVE, BUT INCREASED [illegible] ALTERATION [illegible] INTO [illegible] UNIT BELOW 24.80 m.						

DEPTH (M)	% CORE REC	% RQD
~11.5	?	?
12	?	?
13	?	?
14	?	?
15	?	?
16	98	8
17	?	?
18	?	?
19	?	?
20	?	?
21	86	31
22	87	16

 PROJECT THORN - RMC00-05 HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
11.28-23.20: 2-5% DISSEMINATED		11.00	13.00	2.00	P.S.*						
0.5-1mm EUHEDRAL PYRITE, LOTS OF											
YELLOWISH [illegible] OR SCORODITE (?)											
STAINING, POSSIBLY SOME TRACE CN.											
		13.00	14.00	1.00	3150						
		14.00	15.00	1.00	3151						
		15.00	16.00	1.00	P.S.						
		16.00	17.00	1.00	3152						
		17.00	18.00	1.00	3153						
		18.00	19.00	1.00	P.S.						
		19.00	20.00	1.00	3154						
		20.00	21.64	1.64	3155						
21.64-24.80: DISSEMINATED PY 5-10%		21.64	23.22	1.58	3156						
FINE 0.5-1mm, EUHEDRAL,		23.22	24.80	1.58	3157						
DISSEMINATED.		24.80	26.30	1.50	3158						

* PREVIOUSLY SAMPLED.

PROJECT THORN - RMC00-05

HOLE 867

DEPTH (M)	% CORE REC	% RQD	SAMPLED
23			
24	90	?	
25	92	60	
26			
27	99	97	
28	96	90	
29			
30	98	83	
31			
32	94	82	
33			
34	83	47	
34	95	21	
35	75	43	
36	89	52	
37			
38	95	76	
39	97	70	
40	81	57	
41			
42	95	60	
43	93	70	
44			
45	95	51	

GEOLOGICAL DESCRIPTION

ALTERATION: SERICITE | CLAY | CHLORITE | SILICIFICATION — FRACTURE INTENSITY

24.80- 28.67 GREY-GREEN TO BLACK, FINE GRAINED ANDESITE (APPEARS DARK & F. GRAINED ENOUGH TO BE CONSIDERED A BASALT IN PLACES). <1% 0.1-0.2 mm FELDSPAR PHENOCRYSTS. WEAK PERVASIVE CHLORITIC ALT'N

28.67- 36.32 GREY HORNBLEND LAMPROPHYRE WITH <5% V. FINE GRAINED EUHEDRAL QUARTZ AND CALCITE AMYGDULES. 15%-20% BLACK SUBHEDRAL HORNBLEND PHENOCRYSTS, 2-4mm IN SIZE, [illegible]

34.76-35.44 FELDSPAR-HORNBLEND-QUARTZ PORPHYRY. 20% 3-4mm SUBHEDRAL HORNBLEND. FINE GRAINED (20%) FELDSPAR. 15% 3-4 mm EUHEDRAL QUARTZ. MODERATE [illegible] ALTERATION

36.32- 45.71 COARSE FELDSPAR-QUARTZ-MICA PORPHYRY. 20% 2-6 mm SUBHEDRAL-ANHEDRAL FELDSPAR. 15%-20% 4-8mm EUHEDRAL QUARTZ. 10-15% 2-8mm EUHEDRAL MICA. MODERATE PERVASIVE SERICITE ALT'N

41.03-41.56 INTENSE PERVASIVE CLAY ALTERATION, 4 [illegible] CLAY [illegible] @ 32° TCA

42.37-42.67 INTENSE CLAY ALTERATION

44.[illegible]-45.71 INTENSE PERVASIVE CLAY ALT'N. PHENOCRYSTS TO CLAY MATRIX INTENSE SER [illegible] ALT'N

STRUCTURE: /32 (≈41.5 m); /62 PY (≈45 m)

 PROJECT THORN - 2MC00-05 HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		26.30	27.50	1.20	3159						
		26.30	27.50	1.20	3160 DUP						
		27.50	28.67	1.17	3161						
		28.67	30.17	1.50	3162						
		30.17	31.67	1.50	3163						
		31.67	33.17	1.50	3164						
		33.17	34.76	1.59	3165						
34.76-35.44 3-5% PATCHY PYRITE											
		34.76	35.44	0.68	3166						
		35.44	36.32	0.88	3167						
36.32-45.71 3-5% PATCHY 2-3 mm EUHEDRAL PYRITE.		36.32	38.07	1.75	3168						
		38.07	39.82	1.75	3169						
41.00-41.58 PATCHY BLEBS OF PYRITE >10%		39.82	41.00	1.18	3170						
		41.00	41.58	0.58	3171						
42		41.58	43.08	1.50	3172						
		43.08	44.10	1.02	3173						
		44.10	45.71	1.60	3174						
44.83 CLAY ALT'D PY VEINLET @ 45° TO CA											

PAGE 5 OF 16 | PROJECT THORN RMC00-05 | HOLE 86-7

DEPTH (M)	% CORE REC	% RQD
46–47	90	72
47–48	97	91
48–49	92	68
49–50	89	56
51–52	95	32
52–54	79	60
54–55	95	32
55–57	97	76
57–58	95	80
58–60	89	79
60–61	97	71
61–63	97	68
63–64	80	63
64–66	97	54
66–67	96	68

ALTERATION: SERICITE, CLAY, CHLORITE

GEOLOGICAL DESCRIPTION

45.36-72 GOUGEY, CLAY ALTERED

45.72-60.20 GREY HORNBLEND LAMPROPHYRE AS DESCRIBED IN 35.67-36.32

52.12-56.69 SPORADIC CALCITE VEINING & VEINLETS, SOME VUGGY, 30-35° TO C.A.

60.20- COARSE FELDSPAR-QUARTZ-MICA PORPHYRY
15% SUBHEDRAL 0.2-0.5mm FELDSPAR,
15% EUHEDRAL 0.4-0.9mm QUARTZ
10-15% EUHEDRAL 0.2-0.5mm MICA.

60.20-61.89 WEAK PERVASIVE SERICITE ALTERATION

61.89- SAME AS ABOVE WITH INTENSE PERVASIVE CLAY ALT'N OF FELDSPARS, BIOTITES, AT TIMES VERY GOUGEY
63.44-63.94 GOUGEY
64.16-64.66 GOUGEY
67.77-68.93 GOUGEY

PAGE 6 OF 16 | PROJECT THORN RMC00-05 | HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
45.72 - 60.20 SPORADIC THIN PY		45.71	47.19	1.48	3175						
VEINLETS, ~1-2mm <1%		47.19	48.69	1.50	3176						
		48.69	50.19	1.50	3177						
		50.19	51.69	1.50	3178						
		51.69	53.19	1.50	3179						
		51.69	53.19	1.50	3180 DP.						
		53.19	54.69	1.50	3181						
		54.69	56.19	1.50	3182						
		56.19	57.91	1.72	3183						
		57.91	59.20	1.29	3184						
		59.20	60.20	1.00	3185						
60.20 - 61.89 3-5% DISSEMINATED		60.20	61.89	1.68	3186						
1-2 mm EUHEDRAL PY											
		61.89	63.50	1.61	3187						
61.89 - 5-10% DISSEM.											
PATCHY 1-2mm EUHEDRAL		63.50	65.00	1.50	3188						
PY		65.00	66.50	1.50	3189						
		66.50	68.00	1.50	3190						
63.44-63.94 GOUGEY ZONE W 0.7cm											
DISSEMINATED F.G AND 1-2 mm											
EUHEDRAL PYRITE											
64.16 - 64.66 AND 67.77 - 68.93 SAME											
AS 63.44 - 63.94											

PAGE 7 OF 16	PROJECT THORN RMC00-05	HOLE 86-7

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY	CHLORITE	FRACTURE INTENSITY
68	94	81								
69–70	83	70								
71	79	60								
72–73	95	70								
74	83	74								
75–76	91	68			65°, 45°	75.05 INTENSE CLAY ALT'D VEINLET @ 65° TO CA 0.5mm [illegible] ENVELOPE ON [illegible] SIDE OF [illegible]				
77	97	67			60°, 35°, 45°	77.64 CLAY ALTERED VEIN 0.6mm IN WIDTH, NO ENVELOPE @ 60° TO CA. 78.25, 78.35 0.5mm WIDE CLAY ALTERED VEINLETS @ 35° AND 45° TO CA. RESPECTIVELY				
78–79	99	86								
80	97	28				76.18 CLAY ALT'D QZ-PY VEIN @ 45° TO CA. LARGE 2.5cm CLAY ALT'D ENVELOPE [illegible] SIDE OF VEIN.				
82	97	77				79.5-80.5 [illegible] 0.5 [illegible] CLAY ALT'D [illegible]				
83–84	93	70								
85	88	49								
86–87	81	75								
88	93	86								
89–90	89	70								

PAGE 8 OF 16	PROJECT THORN RMC00-05	HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		68.00	69.50	1.50	3191						
		69.50	71.00	1.50	3192						
		71.00	72.50	1.50	3193						
		72.50	74.00	1.50	3194						
		74.00	[illegible]	[illegible]	[illegible]						
		[illegible]	77.00	1.50	3196						
		[illegible]	[illegible]	[illegible]	[illegible]						
		[illegible]	79.96	[illegible]	[illegible]						
		[illegible]	[illegible]	[illegible]	[illegible]						
		79.96	81.50	1.54	3200						
		[illegible]	[illegible]	[illegible]	3201						
82.60 0.5 [illegible]		[illegible]	[illegible]	[illegible]	3202						
[illegible]											
		[illegible]	[illegible]	[illegible]	3203						
		[illegible]	86.50	[illegible]	3204						
		86.50	[illegible]	[illegible]	[illegible]						
		[illegible]	[illegible]	1.50	[illegible]						
		[illegible]	[illegible]	[illegible]	[illegible]						

PROJECT THORN RMC00-05

HOLE 86-7

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY
91	82	43					
92							
	93	72					
93							
94	86	49					
95							
	95	50			95.?? - 97.?0 [illegible] ZONE [illegible] IS [illegible] AND INTENSLY [illegible] OF CLAY ALTERED.		
96							
97	92	41					
98							
	99	52					
99							
100	70	21			100.92 - 95 [illegible]		
101							
	77	7					
102							
103					103.?? - 104.?? [illegible] ZONE		
104					104.?3 - 105.7 [illegible] ZONE [illegible]		
105							
106							
107							
108					108.51 - 110.50 ZONE OF INTENSE [illegible]		
109	80	0					
110							
111	96	0					
112							

ALTERATION columns: SERICITE, CLAY, [illegible]

PAGE 10 OF 16	PROJECT THORN RMC00-05	HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		9[illegible].32	92.82	1.50	3209						
		92.82	94.32	1.50	3209						
		94.32	95.62	1.30	3210						
		95.62	96.62	1.00	32[illegible]						
		96.62	97.89	1.27	3212						
		97.89	99.50	1.61	3213						
		99.50	101.00	1.50	32[illegible]						
[illegible]											
[illegible]		101.00	102.50	1.50	3215						
[illegible]											
		102.50	103.41	0.91	3216						
		103.[illegible]	104.33	0.92	3217						
[illegible]		[illegible]	[illegible]		R.S.						
[illegible]											
[illegible]											
110.50 [illegible] AND SOME											
REPLACEMENT IN QFBP											
BY PY-EN.											
		110.50	112.19	1.69	3218						
103.51 – 110.50											
ZONE OF INTENSE PY-EN VEINING, AT											
TIMES MASSIVE SX. BEEN SAMPLED TWICE											
OVER, SO MEASUREMENTS DETAILS											
UNAVAILABLE.											

PROJECT THORN RMC00-05

HOLE 86-7

DEPTH (M)	% CORE REC	% RQD	SAMPLED	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	SERICITE	CLAY	CHLORITE				FRACTURE INTENSITY
113						110.50 - 112.19							
						INTENSE PERVASIVE CLAY ALT'D							
114	86	59				QFBP.							
115	82	71				112.19 -							
						COARSE FELDSPAR - MICA - QUARTZ PORPHYRY							
116						20% 2-6mm SUBHEDRAL FELDSPAR.							
						10-15% 3-8mm EUHEDRAL MICA.							
117	81	64				5-10% 5-9mm EUHEDRAL QUARTZ.							
						WEAK PERVASIVE SERICITE AND CLAY							
118	76	64				ALTERATION OF GROUNDMASS AND PHENO-							
						CRYSTS. WEATHERS LIGHT GREY TO BUFF.							
119													
120	93	86											
121	95	91											
122													
123	92	76											
124													
	78	65											
125													
126	88	78											
127	87	84											
128													
129	80	72											
130	~96	?											
131													
132	~97	?											
133													
134	75	73											
135					50°								

 PROJECT THORN RMCOO - 05 HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
112.19 -		112.19	113.70	1.51	3219						
3-5% DISSEMINATED 0.5-1 mm		112.19	113.70	1.51	3220						
EUHEDRAL PY											
		113.70	115.20	1.50	3221						
114.76 - INTENSE PERVASIVE CLAY ALT'D VEINLET.											
116.75 - 117.35		115.20	116.70	1.50	3222						
ZONE CONTAINS 2 CLAY ALTERED PY-											
EN VEINS @ 55° TO C.A. PYRITE EN-		116.70	118.20	1.50	3223						
RICHMENT IN MATRIX BETWEEN THE											
VEINS		118.20	119.70	1.50	3224						
		119.70	121.20	1.50	3225						
		121.20	122.70	1.50	3226						
		122.70	124.20	1.50	3227						
		124.20	125.70	1.50	3228						
		125.70	127.20	1.50	3229						
		127.20	128.70	1.50	3230						
		128.70	130.41	1.71	3231						
		130.41	132.99	2.58	P.S.						
		132.99	134.50	1.51	3232						
		134.50	136.00	1.50	3233						
135.24 CLAY ALT'D DISSEM PY VEINLET											
@ 50° TO C.A.											

PROJECT: THORN RMC00-05

HOLE: 86-7

DEPTH (M)	% CORE REC	% RQD	SAMPLED	GEOLOGICAL DESCRIPTION
136	82	75		
137				
138	86	73		
139	95	?	sampled	
140				
141	90	75		141.93-142.96 INTENSE PERVASIVE CLAY ALTERATION, GOUGEY.
142	90	75		
143				
144	93	79		
145				
146	86	43		
147	95	75		
148				
149	89	81		
15	91	82		150.94-151.18 CLAY ALTERED QFBP GOUGE. RAVES IN GOUGE @ 50° TO C.A.
151				
152	88	55		
153				
154				
155				
156	93	78		
157				

ALTERATION: SERICITE, CLAY, CHLORITE

FRACTURE INTENSITY

PAGE 14 OF 16	PROJECT THORN RMC00-05	HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	TO	WIDTH	SAMPLE NUMBER	ASSAYS						
		136.00	137.50	1.50	3234							
138.60 - 138.84												
QZ-PY VEINLET, 0.7mm WIDE, ALONG												
CORE AXIS. CLAY ALTERED. ~15% EUHEDRAL												
0.5mm PY IN VEIN.												
		137.50	139.00	1.50	3235							
		139.00	140.50	1.50	3236 *Q							
141.93 - 142.96 ~10% 0.5 - 1.5mm												
EUHEDRAL PY DISSEMINATED IN		140.50	141.93	1.43	3237							
GOUGEY QFBP												
		141.93	143.50	1.57	3238							
		143.50	145.00	1.50	3239							
		143.50	145.00	1.50	3240							
		145.00	146.50	1.50	3241							
		146.50	148.00	1.50	3242							
		148.00	149.50	1.50	3243							
		149.50	151.00	1.50	3244							
		151.00	152.50	1.50	3245							
		152.50	154.00	1.50	324-							
		154.00	155.50	1.50	3247							
		155.50	157.00	1.50	3248							
		157.00	158.50	1.50	3249							

PAGE 15 OF 15	PROJECT THORN RMC00-05	HOLE 86-7

DEPTH (M)	% CORE REC	% RQD	SAMPLES	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY	CHLORITE				FRACTURE INTENSITY
158	88	61											
159	95	94											
160						160.15 - 160.25 INTENSE CLAY ALTERATION OF QSP (PERVASIVE).							
161	82	74											
162	88	75											
163													
164	95	73			35	164.59 CLAY ALTERED FRACTURE @ 35° TO C.A							
165	79	62											
166													
167	85	72											
168													
169						END OF HOLE 169.47 m (556')							
170													
171													
172													

PAGE 15 OF 16 | PROJECT THORN RMC00-05 | HOLE 86-7

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
		158.50	160.00	1.50	3250						
		160.00	161.50	1.50	3251						
		161.50	163.00	1.50	3252						
		163.00	164.50	1.50	3253						
		164.50	166.00	1.50	3254						
		166.00	167.75	1.75	3255						
		167.75	169.49	1.74	3256						

PAGE	OF	PROJECT	HOLE

DEPTH (M)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						FRACTURE INTENSITY

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: THORN	COLLAR ELEVATION:
HOLE: 86-8	AZIMUTH: 180°
LOCATION:	DIP: -60.00°
LOGGED BY: H. AWMACK	LENGTH: 31.09 m (102')
DRILLED BY:	HORIZONTAL PROJECTION: 15.55 m
ASSAYED BY: ACME	VERTICAL PROJECTION: 26.92 m
CORE SIZE: BTW	

DATE STARTED	DATE COMPLETED

DIP TESTS BY

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE

ALTERATION SCALE

Scale	
0	absent
1	slight
2	moderate
3	intense

SULPHIDE SCALE

Scale	
0	traces only
1	< 1%
2	1% – 3%
3	3% – 10%
4	> 10%

SUMMARY LOG

0-3.66	Overburden
3.66-9.75	Fault zone along andesite dyke (weakly chloritized + epidotized)
9.75-25.7	Feldspar-quartz (mica?) porphyry. Intensely sericitized with 5% pyrite and <1% enargite
25.7-27.5	Coarser feldspar-quartz-(mica?) porphyry. Moderately sericitized/argillized with 1-3% pyrite
27.5-29.8	Weakly chloritized andesite dyke.
29.8-31.09	Coarser feldspar-quartz-mica porphyry. Intensely sericitized with 3-5% pyrite and minor enargite.

PAGE 1 OF 4	PROJECT THORN	HOLE 86-8

DEPTH (M)	% CORE REC	% RQD	Previous Samples	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	
0–3.66	3	0				0-3.66	Overburden
3.66–7.5	72	10		D		3.66-7.5	Andesite dyke: Dark green, fine-grained, weakly chloritized and epidotized. Variable percentage 4mm CA amygdules. Sections of crushed andesite and fault gouge (composed mainly of andesite) throughout
	45	12		D	EV 50°		
	93	0		D			
7.5–9.75	17	0		~	~	7.5-9.75	Fault. Very poor recovery. 10cm section of finegrained equigranular monzonite dyke (pink-grey, <1% magnetite)
9.75–	64	8	3 ... ?			9.75-25.7	Feldspar-quartz-(mica?) porphyry. Medium grey from strong sericitization. 1% subhedral colourless 4mm quartz phenocrysts, 30% 1-2mm anhedral feldspar phenocrysts (entirely sericitized). Weathers buff (from jarosite)
	79	0					
	~10	?			EV fracture 60°		
	~95	?					
	~100	?			Py-EV 45°		
	100	15			Alt? 45°	16.8	Alteration intensity in bands at 45° to CA
	100	13				17.6-17.7	Broken
	92	0					
	92	0			~	18.9-20.0	Crushed with fault breccia/gouge sections
	98	25					
	91	7					

ALTERATION: SERICITE | CLAY | | | CHLORITE | EPIDOTE | FRACTURE INTENSITY

PAGE 2 OF 4	PROJECT THORN	HOLE 86-8

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	WIDTH	SAMPLE NUMBER	ASSAYS					
3.66-7.5 <1% PY in clusters, diss + fractures		3.66	5.6	1.94	3001						
6.6 1cm medium grey quartz vein		5.6	7.5	1.9	3002						
cuts fault gouge @ 50° to CA											
		7.5	9.75	2.25	3003						
9.75-25.7 5% disseminated PY. <1%		9.75	11.3	1.55	3004						
disseminated enargite accompanied by		11.3	12.8	1.5	3005						
traces of specularite											
13.6 EN along fracture with 2mm silicified		12.80-	15.85	Previously sampled							
envelope (60° to CA)											
15.45 2cm massive PY with black (EN?)											
clusters											
15.5 8mm PY-EN replacement band at											
45° to CA											
		15.85	17.4	1.55	3006						
		17.4	18.9	1.5	3007						
		18.9	20.4	1.5	3008						
		20.4	21.9	1.5	3009						
		21.9	23.4	1.5	3010						
		23.4	24.6	1.2	3011						
		24.6	25.7	1.1	3012						

PAGE 3 OF 4 | PROJECT THORN | HOLE 86-8

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: SERICITE	CLAY	CHLORITE	FRACTURE INTENSITY
23	91	7							
24	100	14							
25									
26	98	43			25.7-27.5 Coarse quartz-feldspar (-mica?) porphyry. Medium grey. 20% euhedral 2-6mm quartz phenocrysts, 30% 1-2mm anhedral feldspar phenocrysts. Generally weathers brown (less jarosite, since less pyrite).				
27	98	37		Alt^a 40°					
28					27.5-29.8 Andesite dyke. Medium green, fine-grained 20% <1mm calcite amygdules, weakly magnetic				
29	100	50							
30	95	30			29.8-31.09 Coarse quartz-feldspar-mica porphyry. Medium grey. 15% 2-4mm subhedral quartz phenocrysts and 40% subhedral sericitized feldspar phenocrysts (1-3mm). Weathers greybrown to buff. Sparse 4mm euhedral mica phenocrysts				
31				EOH 31.09m					
32									
33									
34									
35									

PAGE 4 OF 4 | PROJECT THORN | HOLE 86-8

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS					
25.7-27.5 1-3% PY in clots and disseminated		25.7	27.5	1.8	3013						
27.0, 27.25 10 cm bands of intense											
sericitization and 5% PY											
		27.5	28.7	1.2	3014						
		28.7	29.8	1.1	3015						
29.8-31.09 3-5% disseminated PY		29.8	31.09	1.29	3016						
and scattered black specks (<0.5%)											
EN(?)											

APPENDIX E.2

DIAMOND DRILL ANALYSES

All available analyses for the four sampling campaigns of the 1986 core have been compiled from the following references:

W86	1986 field notes and Min-En analytical certificates
A94	Aspinall (1994)
P98	Poliquin and Poliquin (1998)
2000	This report

Unfortunately, no certificates are available for a few of the 1986 samples. There is also some discrepancy in downhole measurements, since the 1986 sample intervals (measured to the nearest centimetre) were not available to Aspinall (1994) or Poliquin and Poliquin (1998). The latter's samples (measured to the nearest ten centimetres) adjoin the 1986 sampling, so that the short "unsampled" intervals from 28.83 to 39.40 metres in hole 86-3 (for instance) should probably be included in the 1998 samples.

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
DDH 86-1																																					
OB	2000	0.00	5.85	5.85																																	
3318	2000	5.85	7.50	1.65	4	< .3	1.28	69	< 3	195		< 3	3.87	0.7	9	9	38	2.86		0.22	14	0.85	3748	1	0.04	7	0.090	49	< 3	197	4	< .01		< 8	23	4	208
3319	2000	7.50	9.00	1.50	27	0.3	1.42	126	< 3	242		< 3	4.12	3.2	9	7	95	3.13		0.26	15	0.89	2755	1	0.05	6	0.094	159	< 3	251	3	< .01		< 8	21	< 2	434
3320	2000	7.50	9.00	1.50	24	0.3	1.32	128	3	234		3	3.79	2.4	9	6	67	2.96		0.25	15	0.84	2534	1	0.05	6	0.091	109	< 3	226	3	< .01		< 8	21	< 2	360
3319/20	2000	7.50	9.00	1.50	25	0.3	1.37	127	3	238		3	3.96	2.8	9	7	81	3.05		0.26	15	0.87	2645	1	0.05	6	0.093	134	< 3	239	3	< .01		< 8	21	< 2	397
3321	2000	9.00	10.50	1.50	7	< .3	2.10	61	5	280		< 3	3.69	1.2	10	7	117	3.51		0.34	18	1.02	2974	1	0.06	7	0.086	25	< 3	299	4	0.01		< 8	29	< 2	331
3322	2000	10.50	12.00	1.50	2	< .3	1.38	52	< 3	222		< 3	2.84	5.0	12	6	197	3.88		0.25	15	0.95	5642	1	0.05	8	0.088	37	< 3	235	3	< .01		< 8	25	< 2	1094
3323	2000	12.00	12.90	0.90	11	< .3	1.49	106	< 3	177		< 3	1.94	3.4	10	7	316	4.01		0.27	11	0.85	6374	2	0.05	8	0.095	105	< 3	507	3	< .01		< 8	27	< 2	797
3324	2000	12.90	13.57	0.67	25	< .3	1.58	222	4	260		< 3	0.52	2.0	10	4	355	4.24		0.36	12	0.25	1193	1	0.05	8	0.102	31	< 3	2248	3	< .01		< 8	17	< 2	478
Thorn 1-1	W86	13.57	14.44	0.87	69	5.1											200																				
14-15	A94	14.00	15.00	1.0	711	18.5	0.35	198	1	29	0.1	11	0.21	0.1	15	94	2028	15.00	1	0.12		0.02	1	1	0.03	61	0.047	218	19	301	1	0.01			4	4	1547
Thorn 1-2	W86	14.44	14.87	0.43	1714	59.0											9200																				
Thorn 1-3	W86	14.87	16.28	1.41		13.0											600																				
3325	2000	16.28	16.66	0.38	65	2.0	0.56	127	< 3	50		3	0.41	22.0	12	5	27	4.19		0.21	2	0.04	250	2	0.06	9	0.097	1432	< 3	352	2	< .01		< 8	6	< 2	3074
Thorn 1-4	W86	16.66	16.83	0.17	274	18.5											3400																				
3326	2000	16.83	18.50	1.67	9	0.4	0.63	114	< 3	67		< 3	1.70	0.8	11	6	26	3.79		0.25	11	0.41	5325	2	0.06	8	0.102	126	< 3	530	3	< .01		< 8	11	< 2	286
3327	2000	18.50	20.00	1.50	3	< .3	0.60	97	< 3	104		< 3	3.25	0.3	9	5	23	3.35		0.22	11	1.12	5711	2	0.07	6	0.091	107	3	862	2	< .01		< 8	15	2	77
20-21	A94	20.00	21.00	1.0	6	0.1	1.12	1	1	180	0.8	4	1.12	0.1	7	90	32	3.36	1	0.32		0.53	4184	7	0.10	31	0.104	96	10	626	6	0.01			21	7	148
3328	2000	21.00	22.80	1.80	14	1.5	0.63	161	< 3	67		< 3	0.44	5.1	11	6	49	3.94		0.20	6	0.04	190	2	0.10	8	0.102	302	4	479	3	< .01		< 8	7	2	674
3328	2000	21.00	22.80	1.80	13	1.6	0.64	160	< 3	68		< 3	0.45	5.1	11	5	47	3.94		0.20	6	0.04	196	2	0.10	9	0.103	304	5	478	3	< .01		< 8	7	< 2	679
3328	2000	21.00	22.80	1.80	13	1.7	0.60	159	< 3	70		< 3	0.44	5.2	11	5	47	3.92		0.19	5	0.04	188	2	0.10	8	0.103	293	5	480	3	< .01		< 8	7	< 2	650
3328C	2000	21.00	22.80	1.80	14	1.6	0.62	160	< 3	68		< 3	0.44	5.1	11	5	48	3.93		0.20	6	0.04	191	2	0.10	8	0.103	300	5	479	3	< .01		< 8	7	2	668
Thorn 1-5	W86	22.80	23.15	0.35	206	7.9											1000																				
3329	2000	23.15	24.00	0.85	10	1.6	0.54	143	< 3	65		3	0.33	14.3	9	5	35	3.60		0.16	2	0.02	46	2	0.08	6	0.089	1094	3	431	3	< .01		< 8	5	< 2	1970
3330	2000	24.00	25.00	1.00	4	< .3	0.65	157	< 3	67		< 3	0.39	0.7	10	7	15	3.85		0.21	7	0.02	79	4	0.11	8	0.107	68	< 3	493	3	< .01		< 8	6	4	202
25-26	A94	25.00	26.00	1.0	3	0.7	0.98	1	1	188	0.8	2	0.42	0.1	6	84	22	3.30	2	0.34		0.12	468	4	0.06	16	0.098	261	8	371	7	0.01			11	6	257
3331	2000	26.00	27.50	1.50	3	0.3	0.55	119	3	94		< 3	0.30	0.9	7	5	9	3.39		0.24	11	0.03	121	2	0.05	5	0.092	214	< 3	281	4	< .01		< 8	5	< 2	252
3332	2000	27.50	29.00	1.50	3	< .3	0.59	120	< 3	88		< 3	2.09	0.6	7	8	15	3.07		0.23	14	0.42	2767	2	0.07	4	0.090	82	< 3	607	4	< .01		< 8	8	3	128
3333	2000	29.00	30.00	1.00	3	< .3	0.58	116	< 3	71		< 3	3.97	0.2	7	4	9	2.75		0.20	15	0.52	3081	2	0.08	4	0.087	56	< 3	460	4	< .01		< 8	12	3	77
3334	2000	30.00	31.50	1.50	6	0.5	0.60	93	< 3	73		< 3	3.66	0.5	8	5	24	3.10		0.22	16	0.49	2697	2	0.06	5	0.090	91	3	475	4	< .01		< 8	12	3	99
3335	2000	31.50	33.00	1.50	5	0.5	0.60	105	< 3	91		< 3	3.93	0.8	8	3	27	3.07		0.23	18	0.44	2968	2	0.05	5	0.089	102	4	572	4	< .01		< 8	11	4	157
3336	2000	33.00	34.50	1.50	9	< .3	0.63	157	< 3	93		< 3	3.63	0.3	7	6	19	2.84		0.22	16	0.56	3213	2	0.06	4	0.087	47	< 3	405	4	< .01		< 8	11	3	82
3337	2000	34.50	35.00	0.50	4	< .3	0.72	98	< 3	120		< 3	4.15	0.2	8	6	19	2.51		0.22	16	0.42	2611	2	0.08	5	0.094	35	< 3	340	4	< .01		< 8	17	2	53
35-36	A94	35.00	36.00	1.0	2	0.1	0.93	1	1	153	1	5	2.68	0.1	6	85	20	2.89	1	0.26		0.69	3019	7	0.07	26	0.101	72	12	410	8	0.01			28	7	74
3338	2000	36.00	37.50	1.50	2	< .3	0.67	98	< 3	87		< 3	4.22	0.3	8	5	15	2.89		0.20	17	0.44	2019	1	0.08	5	0.089	35	< 3	499	4	< .01		< 8	15	2	73
3339	2000	37.50	39.00	1.50	20	< .3	0.64	100	< 3	91		< 3	4.13	< .2	7	2	15	2.78		0.20	15	0.46	2238	2	0.06	4	0.084	41	< 3	626	3	< .01		< 8	10	2	53
3340	2000	37.50	39.00	1.50	8	< .3	0.67	98	< 3	92		< 3	4.06	< .2	7	6	14	2.86		0.21	16	0.45	2135	2	0.06	4	0.085	41	< 3	575	4	< .01		< 8	10	2	58
3340	2000	37.50	39.00	1.50	6	< .3	0.66	100	< 3	93		< 3	4.18	< .2	7	6	14	2.93		0.21	17	0.46	2208	2	0.06	4	0.090	40	3	604	4	< .01		< 8	10	2	60
3340	2000	37.50	39.00	1.50	5	< .3	0.63	98	< 3	85		< 3	4.10	0.2	7	4	14	2.83		0.21	16	0.46	2170	1	0.06	4	0.086	43	< 3	592	3	< .01		< 8	9	2	66
3340C	2000	37.50	39.00	1.50	10	< .3	0.65	99	< 3	90		< 3	4.12	0.2	7	5	14	2.85		0.21	16	0.46	2188	2	0.06	4	0.086	41	< 3	599	4	< .01		< 8	10	2	59
3341	2000	39.00	40.50	1.50	3	< .3	0.63	74	< 3	81		< 3	4.26	< .2	7	6	13	2.85		0.21	17	0.54	2352	2	0.06	5	0.087	32	< 3	476	4	< .01		< 8	11	2	51
3342	2000	40.50	41.75	1.25	11	< .3	0.64	105	< 3	85		< 3	3.89	0.3	8	5	17	3.17		0.21	18	0.90	2850	2	0.06	5	0.087	45	4	408	3	< .01		< 8	13	3	100
3343	2000	41.75	43.50	1.75	4	< .3	0.78	79	< 3	89		< 3	4.20	0.2	9	6	20	3.14		0.22	17	0.43	2096	2	0.06	6	0.095	34	< 3	450	3	< .01		< 8	17	2	54
3344	2000	43.50	45.00	1.50	6	< .3	0.75	99	< 3	90		< 3	4.60	0.3	8	5	16	2.94		0.23	16	0.38	2748	2	0.06	5	0.089	39	< 3	406	3	< .01		< 8	12	2	61
45-46	A94	45.00	46.00	1.0	8	0.1	1.25	1	1	215	0.8	4	2.10	0.1	5	68	14	2.61	1	0.33		0.75	3197	5	0.03	24	0.091	92	14	267	7	0.01			17	7	82
3345	2000	46.00	47.50	1.50	38	0.7	0.67	126	< 3	88		< 3	2.69	0.9	6	4	18	2.80		0.25	12	0.60	2449	2	0.04	3	0.081	120	< 3	429	4	< .01		< 8	6	4	168
3346	2000	47.50	49.00	1.50	9	0.3	0.65	107	< 3	86		< 3	3.06	0.2	7	5	9	2.77		0.25	17	0.68	3011	2	0.04	4	0.085	56	< 3	214	4	< .01		< 8	11	2	69
3347	2000	49.00	50.50	1.50	11	< .3	0.45	121	< 3	67		< 3	3.60	0.5	6	6	7	2.67		0.12	15	0.70	3185	1	0.04	4	0.078	62	< 3	345	3	< .01		< 8	7	2	88
3348	2000	50.50	52.20	1.70	13	0.8	0.44	95	< 3	87		< 3	3.40	2.1	6	4	19	2.65		0.18	13	0.77	3298	1	0.04	5	0.077	107	4	965	3	< .01		< 8	8	< 2	250
Thorn 1-6B	W86	52.20	52.70	0.50		3.6	0.39	180		90	<0.5	<2	0.29	<0.5	7	69	422	4.56	<10	0.07	<10	0.02	31	<1	0.03	6	0.069	52	30	187		<0.01	<10	<10	<1	<10	126
3349	2000	52.70	54.35	1.65	60	3.0	0.23	178	6	34		6	0.21	0.4	7	7	299	4.06		0.05	< 1	0.01	28	1	0.02	5	0.076	50	49	74	2	< .01		< 8	2	< 2	41
3350	2000	54.35	56.00	1.65	49	9.9	0.24	202	4	32		8	0.24	24.3	8	5	477	3.87		0.05	< 1	0.01	30	< 1	0.02	6	0.080	193	99	215	2	< .01		< 8	2	< 2	2117
56-57	A94	56.00	57.00	1.0	490	41.4	0.36	1323	1	16	0.2	40	0.27	14.4	10	109	3484	10.00	1	0.09		0.02	13	1	0.02	42	0.068	757	257	689	1	0.01			5	6	1058
Thorn 1-6A	W86	56.10	56.70	0.60		39.0	0.28	760		20	<0.5	76	0.22	9.5	7	86	32337	10.15	<10	0.04	<10	0.01	21	<1	0.02	9	0.048	782	280	224		<0.01	<10	<10	<1	<10	810
3351	2000	57.00	57.60	0.60	99	4.7	0.29	55	5	33		8	0.22	10.1	8	8	100	4.24		0.07	< 1	0.01	23	1	0.02	6	0.071	533	16	197	< 2	< .01		< 8	3	< 2	1132
3352	2000	57.60	58.20	0.60	38	2.0	0.26	16	4	39		5	0.23	0.2	8	2	32	4.08		0.05	< 1	0.01	24	< 1	0.03	6	0.075	131	5	90	2	< .01		< 8	3	< 2	16
3353	2000	58.20	58.90	0.70	71	1.2	0.32	26	4	56		3	0.18	0.3	9	7	39	3.92		0.06	< 1	0.01	20	1	0.01	6	0.067	52	6	841	< 2	< .01		< 8	3	< 2	29
Thorn 1-7	W86	58.90	59.50	0.60		4.0	0.35	60		120	<0.5	8	0.27	0.5	6	105	270	3.97	<10	0.05	<10	0.01	30	<1	0.03	5	0.063	118	20	83		<0.01	<10	<10	1	<10	110
3354	2000	59.50	61.00	1.50	46	2.9	0.19	46	6	39		6	0.21	0.7	7	8	193	4.06		0.04	1	0.01	27	< 1	0.02	6	0.076	75	41	70	2	< .01		< 8	3	< 2	33
3355	2000	61.00	62.50	1.50	32	4.4	0.21	133	5	43		6	0.25	1.8	8	7	503	3.77		0.04	< 1	0.01	24	1	0.02	5	0.092	60	142	167	2	< .01		< 8	2	2	113
3356	2000	62.50	64.00	1.50	14	0.9	0.20	41	3	39		4	0.18	0.7	8	6	50	3.70		0.04	< 1	0.01	21	< 1	0.02	6	0.056	60	10	122	< 2	< .01		< 8	2	2	103

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3357	2000	64.00	65.50	1.50	15	0.9	0.18	38	4	49		< 3	0.11	5.5	8	9	15	3.64		0.03	< 1	0.01	20	1	0.02	5	0.035	292	< 3	534	< 2	< .01		< 8	2	< 2	759
3358	2000	65.50	67.00	1.50	14	1.7	0.27	26	3	49		10	0.20	0.4	8	6	53	3.59		0.06	< 1	0.01	21	< 1	0.03	5	0.055	108	10	321	< 2	< .01		< 8	2	< 2	55
3358	2000	65.50	67.00	1.50	14	1.7	0.27	27	< 3	49		10	0.20	0.7	8	7	56	3.67		0.06	< 1	0.01	22	1	0.04	5	0.056	110	11	329	< 2	< .01		< 8	2	2	67
3358	2000	65.50	67.00	1.50	11	1.8	0.28	28	3	48		10	0.20	0.8	8	10	57	3.68		0.06	< 1	0.01	21	2	0.04	6	0.056	110	11	331	< 2	< .01		< 8	2	2	62
3358C	2000	65.50	67.00	1.50	13	1.7	0.27	27	3	49		10	0.20	0.6	8	8	55	3.65		0.06	< 1	0.01	21	2	0.04	5	0.056	109	11	327	< 2	< .01		< 8	2	2	61
3359	2000	67.00	68.00	1.00	21	1.1	0.39	50	< 3	58		< 3	0.25	8.7	8	6	27	3.62		0.12	1	0.01	27	< 1	0.03	5	0.067	451	4	684	< 2	< .01		< 8	2	< 2	1106
3360	2000	67.00	68.00	1.00	13	1.4	0.24	32	3	44		3	0.18	1.5	7	11	38	3.68		0.05	< 1	0.01	22	1	0.03	5	0.051	97	6	134	< 2	< .01		< 8	2	< 2	191
3359/60	2000	67.00	68.00	1.00	17	1.3	0.32	41	3	51		3	0.22	5.1	8	9	33	3.65		0.09	1	0.01	25	1	0.03	5	0.059	274	5	409	< 2	< .01		< 8	2	< 2	649
68-69	A94	68.00	69.00	1.0	129	12.6	0.46	163	1	40	0.4	21	0.22	21.8	7	95	644	5.36	1	0.16		0.02	19	1	0.04	24	0.045	1381	39	519	2	0.01			6	6	2240
Thom 1-8	W86	68.50	68.90	0.40		33.0	0.29	230		30	<0.5	102	0.18	29.5	4	107	1884	10.50	<10	0.05	<10	0.01	18	<1	0.03	7	0.040	1704	140	478		<0.01	<10	<10	<1	<10	2438
3361	2000	69.00	70.00	1.00	12	1.5	0.25	34	5	38		4	0.19	1.7	7	7	45	3.68		0.05	< 1	0.01	23	< 1	0.03	5	0.055	98	9	160	< 2	< .01		< 8	2	< 2	216
3362	2000	70.00	71.30	1.30	20	0.9	0.38	63	3	40		< 3	0.26	5.2	9	9	19	3.73		0.12	2	0.01	33	1	0.03	6	0.081	326	< 3	515	2	< .01		< 8	3	< 2	661
Thom 1-9	W86	71.30	72.50	1.20		4.2	0.41	60		20	<0.5	<2	0.25	9.0	14	127	646	9.81	<10	0.10	<10	0.01	26	<1	0.04	12	0.066	574	<10	195		<0.01	<10	<10	<1	<10	1352
Thom 1-10	W86	72.50	72.80	0.30	<70	1.0											<100																				
3363	2000	72.80	74.20	1.40	56	0.7	0.49	84	4	43		< 3	0.34	2.7	8	4	25	3.39		0.19	15	0.02	123	1	0.06	5	0.097	228	< 3	253	4	< .01		< 8	3	< 2	420
3364	2000	74.20	74.70	0.50	10	< .3	0.61	74	< 3	64		< 3	1.23	0.8	6	7	10	3.22		0.19	11	0.30	6259	1	0.04	4	0.083	155	< 3	651	3	< .01		< 8	6	4	189
3365	2000	74.70	77.20	2.50	7	< .3	0.54	65	< 3	54		< 3	2.05	1.1	7	6	13	3.04		0.19	12	0.30	4253	< 1	0.05	5	0.087	71	< 3	267	4	< .01		< 8	6	< 2	231
3366	2000	77.20	78.70	1.50	5	< .3	0.49	54	< 3	69		< 3	3.89	0.4	6	6	3	2.83		0.20	15	0.48	4712	< 1	0.05	3	0.082	48	< 3	663	3	< .01		< 8	9	2	48
3367	2000	78.70	80.20	1.50	16	< .3	0.55	162	< 3	80		< 3	4.14	0.7	8	5	5	2.44		0.20	17	0.30	4285	< 1	0.06	4	0.089	76	< 3	402	3	< .01		< 8	12	2	118
3368	2000	80.20	81.70	1.50	119	0.7	0.60	138	3	86		< 3	3.88	1.0	7	5	20	2.52		0.21	17	0.33	4401	1	0.06	5	0.088	115	< 3	291	4	< .01		< 8	15	4	151
3369	2000	81.70	83.20	1.50	73	0.3	0.66	133	< 3	104		< 3	4.22	0.4	6	4	31	2.35		0.21	15	0.34	3997	< 1	0.06	3	0.081	41	4	222	4	< .01		< 8	7	2	70
3370	2000	83.20	84.70	1.50	222	1.2	0.53	219	< 3	77		< 3	1.99	1.5	7	6	29	2.48		0.18	16	0.32	3070	1	0.05	3	0.089	137	3	166	4	< .01		< 8	9	< 2	236
3370	2000	83.20	84.70	1.50	231	1.2	0.56	228	< 3	77		< 3	2.05	1.7	7	5	30	2.52		0.19	16	0.33	3135	1	0.06	4	0.091	141	4	168	4	< .01		< 8	9	< 2	251
3370	2000	83.20	84.70	1.50	240	1.2	0.54	230	< 3	77		< 3	2.03	1.6	7	6	31	2.53		0.19	17	0.32	3206	< 1	0.05	4	0.092	165	3	172	4	< .01		< 8	9	< 2	249
3370C	2000	83.20	84.70	1.50	231	1.2	0.54	226	< 3	77		< 3	2.02	1.6	7	6	30	2.51		0.19	16	0.32	3137	1	0.05	4	0.091	148	3	169	4	< .01		< 8	9	< 2	245
3371	2000	84.70	86.20	1.50	79	0.4	0.59	163	< 3	65		< 3	2.27	2.0	8	3	18	2.94		0.20	11	0.39	5911	1	0.04	5	0.089	122	< 3	223	4	< .01		8	7	< 2	256
3372	2000	86.20	87.70	1.50	11	< .3	0.77	78	< 3	86		< 3	2.65	0.2	6	5	6	2.91		0.22	10	0.45	5137	< 1	0.05	3	0.083	47	< 3	223	4	< .01		< 8	5	2	38
3373	2000	87.70	89.20	1.50	16	< .3	0.90	103	< 3	111		< 3	3.32	0.3	7	6	17	2.50		0.20	14	0.47	5184	1	0.06	4	0.088	85	< 3	219	4	< .01		< 8	10	2	41
3374	2000	89.20	90.70	1.50	46	0.6	0.95	206	< 3	85		< 3	3.25	1.5	8	6	44	2.88		0.24	16	0.65	4938	< 1	0.06	5	0.091	215	3	325	3	< .01		< 8	13	< 2	233
3375	2000	90.70	92.20	1.50	31	0.4	0.66	126	< 3	68		< 3	3.03	0.9	6	6	20	2.89		0.24	16	0.85	4971	1	0.06	3	0.085	114	< 3	193	4	< .01		< 8	12	4	119
3376	2000	92.20	93.70	1.50	14	0.3	0.70	66	< 3	68		< 3	3.24	0.9	8	3	21	2.86		0.22	15	0.50	3989	1	0.05	5	0.089	120	< 3	444	4	< .01		< 8	8	3	129
3377	2000	93.70	95.20	1.50	5	< .3	0.69	39	4	52		< 3	2.95	0.3	7	4	7	2.57		0.20	15	0.43	3074	< 1	0.04	4	0.088	92	< 3	361	4	< .01		< 8	7	< 2	45
3378	2000	95.20	96.70	1.50	9	0.4	0.64	27	< 3	41		< 3	1.56	0.5	8	5	17	3.05		0.22	16	0.39	3042	1	0.05	4	0.096	114	3	341	5	< .01		< 8	8	2	154
3379	2000	96.70	98.00	1.30	6	0.6	0.57	29	< 3	40		< 3	1.06	0.5	9	4	24	3.39		0.21	14	0.31	2774	1	0.05	5	0.093	63	< 3	121	4	< .01		< 8	11	< 2	93
3380	2000	96.70	98.00	1.30	6	0.5	0.59	30	< 3	34		< 3	1.01	1.2	9	4	26	3.46		0.22	14	0.30	2706	1	0.05	5	0.089	82	< 3	132	4	< .01		< 8	10	2	175
3379/80	2000	96.70	98.00	1.30	6	0.6	0.58	30	< 3	37		< 3	1.04	0.9	9	4	25	3.43		0.22	14	0.31	2740	1	0.05	5	0.091	73	< 3	127	4	< .01		< 8	11	2	134
3381	2000	98.00	98.86	0.86	5	0.5	0.70	48	3	34		3	0.41	0.2	10	4	15	3.64		0.22	19	0.16	695	1	0.06	6	0.106	46	< 3	135	5	< .01		< 8	7	< 2	63
3382	2000	98.86	100.00	1.14	6	1.0	0.56	72	< 3	35		< 3	0.44	3.4	15	4	25	4.66		0.24	17	0.04	369	1	0.05	12	0.127	327	< 3	69	5	< .01		< 8	7	< 2	549
3383	2000	100.00	101.37	1.37	5	1.0	0.50	31	< 3	37		< 3	0.34	2.0	10	4	13	3.45		0.23	16	0.02	87	2	0.04	8	0.102	151	< 3	58	5	< .01		< 8	6	< 2	427
Thom 1-11	W86	101.37	102.57	1.20	137	12.3											400																				
Thom 1-12	W86	102.57	103.27	0.70	823	87.1											7900																				
3384	2000	103.27	104.77	1.50	52	2.0	0.17	88	< 3	30		3	0.10	0.2	8	3	106	4.21		0.04	< 1	< .01	20	1	0.02	6	0.028	59	19	41	< 2	< .01		< 8	2	< 2	22
3385	2000	104.77	106.27	1.50	27	1.8	0.19	115	3	29		4	0.15	2.0	11	7	28	4.54		0.05	1	< .01	27	3	0.02	8	0.052	64	6	55	2	< .01		< 8	2	3	194
3386	2000	106.27	107.77	1.50	9	2.7	0.51	153	< 3	24		< 3	0.31	15.4	10	4	36	3.92		0.23	2	0.03	130	1	0.04	7	0.087	663	7	88	3	< .01		< 8	5	< 2	2061
3386	2000	106.27	107.77	1.50	8	2.7	0.52	153	< 3	25		3	0.31	15.9	10	< 1	37	3.89		0.23	2	0.03	131	1	0.04	8	0.087	671	7	88	3	< .01		< 8	6	< 2	2115
3386	2000	106.27	107.77	1.50	10	2.6	0.53	160	3	23		< 3	0.32	15.4	11	4	36	4.03		0.24	2	0.03	136	1	0.05	8	0.088	695	7	86	2	< .01		< 8	5	< 2	2061
3386C	2000	106.27	107.77	1.50	9	2.7	0.52	155	3	24		3	0.31	15.6	10	4	36	3.95		0.23	2	0.03	132	1	0.04	8	0.087	676	7	87	3	< .01		< 8	5	< 2	2079
3387	2000	107.77	109.27	1.50	4	1.2	0.72	112	< 3	35		< 3	0.78	2.2	10	4	45	3.81		0.26	12	0.29	4608	2	0.05	7	0.092	305	5	73	3	< .01		< 8	8	< 2	361
3388	2000	109.27	109.63	0.36	5	0.9	0.83	133	3	51		< 3	1.10	0.4	10	3	20	3.62		0.24	13	0.36	3415	2	0.07	6	0.103	119	< 3	91	4	< .01		< 8	7	< 2	73
DDH 86-2																																					
OB		0.00	7.20	7.20																																	
3017	2000	7.20	8.70	1.50	23	0.3	0.74	104	4	127		< 3	2.21	4.6	11	9	173	3.22		0.23	16	0.52	2911	3	0.05	7	0.115	133	< 3	203	5	< .01		< 8	18	< 2	564
3018	2000	8.70	10.20	1.50	3	< .3	0.71	40	< 3	120		< 3	3.98	0.7	9	4	32	3.30		0.20	13	0.64	3578	2	0.04	7	0.088	31	< 3	325	4	< .01		< 8	14	< 2	214
3019	2000	10.20	11.70	1.50	3	< .3	0.69	54	3	134		< 3	3.65	1.4	9	7	91	3.41		0.21	14	0.66	3087	3	0.05	6	0.091	32	< 3	362	4	< .01		< 8	12	< 2	325
3020	2000	10.20	11.70	1.50	2	< .3	0.73	52	3	142		< 3	3.53	1.6	10	3	107	3.34		0.23	14	0.66	3063	3	0.05	7	0.089	29	< 3	354	4	< .01		< 8	13	< 2	349
3019/3020	2000	10.20	11.70	1.50	2	< .3	0.71	53	3	138		< 3	3.59	1.5	10	5	99	3.38		0.22	14	0.66	3075	3	0.05	7	0.090	31	< 3	358	4	< .01		< 8	13	< 2	337
3021	2000	11.70	13.30	1.60	7	< .3	0.78	52	4	140		< 3	4.05	1.0	10	6	78	3.25		0.22	14	0.61	3845	3	0.05	7	0.091	36	< 3	431	5	< .01		< 8	17	< 2	250
3022	2000	13.30	15.00	1.70	15	0.6	1.30	138	5	205		< 3	2.15	1.5	10	5	42	3.94		0.34	13	0.69	4687	3	0.06	8	0.091	138	< 3	439	4	0.01		< 8	21	< 2	536
3022	2000	13.30	15.00	1.70	17	0.5	1.50	137	6	272		< 3	2.13	1.6	10	5	41	3.89		0.40	13	0.69	4664	3	0.07	8	0.091	147	< 3	441	4	0.01		< 8	23	< 2	541
3022	2000	13.30	15.00	1.70	29	0.8	1.45	137	7	278		< 3	2.15	1.5	10	5	42	3.89		0.38	13	0.69	4637	2	0.06	8	0.089	140	< 3	436	4	0.01		< 8	22	< 2	548
3022C	2000	13.30	15.00	1.70	20	0.6	1.42	137	6	252		< 3	2.14	1.5	10	5	42	3.91		0.37	13	0.69	4663	3	0.06	8	0.090	142	< 3	439	4	0.01		< 8	22	< 2	542
3023	2000	15.00	15.96	0.96	16	0.5	0.73	140	7	80		< 3	0.47	1.7	15	4	51	3.74		0.20	3	0.04	116	3	0.07	14	0.108	39	< 3	709	4	< .01		< 8	8	< 2	455
Thom 2-1	W86	15.96	16.57	0.61																																	

Sample #	Ref.	From	To	Width	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Th	Ti	Tl	U	V	W	Zn
Number		m	m	m	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
3024	2000	16.57	17.61	1.04	81	4.0	0.29	195	4	31		11	0.27	0.3	13	7	619	6.08		0.05	1	0.01	72	2	0.04	10	0.086	67	33	225	2	< .01		< 8	3	3	81
Thom 2-2	W86	17.61	18.09	0.48																																	
3025	2000	18.09	18.90	0.81	125	2.2	0.42	85	7	50		< 3	0.28	10.8	10	6	34	3.77		0.15	2	0.02	89	3	0.06	7	0.085	855	4	260	3	< .01		< 8	5	< 2	1574
3026	2000	18.90	20.40	1.50	7	< .3	0.69	107	< 3	76		< 3	0.47	0.4	11	7	21	4.41		0.23	12	0.12	5885	4	0.08	9	0.108	92	< 3	365	4	< .01		< 8	10	4	183
3027	2000	20.40	21.90	1.50	6	0.9	0.62	155	3	76		< 3	0.37	3.8	11	4	41	3.95		0.22	11	0.03	158	4	0.09	7	0.107	195	3	512	4	< .01		< 8	6	< 2	632
3028	2000	21.90	23.40	1.50	36	3.2	0.71	124	5	89		3	1.17	1.3	9	8	60	3.83		0.21	9	0.33	2198	3	0.09	7	0.093	161	4	523	4	< .01		< 8	8	< 2	294
3029	2000	23.40	24.90	1.50	5	0.3	0.75	164	3	120		< 3	3.98	< .2	9	6	19	3.03		0.22	14	0.44	3121	2	0.10	6	0.090	72	< 3	679	4	< .01		< 8	19	3	89
3030	2000	24.90	26.40	1.50	3	< .3	0.73	115	< 3	123		< 3	4.54	0.2	9	6	20	3.10		0.21	16	0.50	2591	2	0.08	6	0.094	45	3	412	4	< .01		< 8	19	< 2	65
3031	2000	26.40	27.90	1.50	3	< .3	0.79	89	< 3	102		< 3	5.13	< .2	8	3	19	2.53		0.17	13	0.58	2672	1	0.08	6	0.085	23	3	491	4	< .01		< 8	14	< 2	54
3032	2000	27.90	29.40	1.50	6	1.0	0.70	125	< 3	102		< 3	2.46	2.1	8	7	33	3.12		0.23	11	0.32	1768	2	0.07	5	0.093	237	4	271	4	< .01		< 8	8	< 2	346
3033	2000	29.40	31.09	1.69	3	< .3	0.55	86	< 3	88		< 3	2.83	1.5	6	2	11	2.56		0.20	10	0.67	2525	1	0.03	3	0.075	108	< 3	288	3	< .01		< 8	4	3	193
DDH 86-3																																					
OB		0.00	8.42	8.42																																	
3302	2000	8.42	10.00	1.58	133	4.7	0.12	246	3	41		17	0.03	0.6	5	7	44	3.39		0.01	< 1	0.01	27	2	0.01	6	0.012	286	45	45	< 2	< .01		< 8	4	2	77
Thom 3-1	W86	9.47	9.63	0.16	1030	165.0											6170																				
3303	2000	10.00	11.50	1.50	280	16.0	0.09	396	< 3	22		37	0.01	0.4	5	6	441	5.12		0.01	< 1	< .01	16	4	0.01	6	0.015	348	179	50	< 2	< .01		< 8	1	2	95
3304	2000	11.50	13.00	1.50	134	5.9	0.08	336	8	6		12	0.01	0.3	9	4	189	5.21		0.01	1	< .01	14	2	0.01	7	0.003	90	42	17	< 2	< .01		< 8	1	< 2	31
3305	2000	13.00	14.00	1.00	78	5.0	0.10	301	6	10		7	0.01	0.2	8	9	107	4.26		0.01	1	< .01	16	2	0.01	6	0.007	106	32	20	< 2	< .01		< 8	2	< 2	24
3306	2000	14.00	15.00	1.00	135	17.2	0.12	357	4	10		13	0.04	72.7	7	6	117	3.97		0.01	1	< .01	44	2	0.01	6	0.024	1674	30	22	< 2	< .01		< 8	2	< 2	6470
3306	2000	14.00	15.00	1.00	126	17.7	0.13	366	5	10		13	0.04	76.7	7	6	117	4.03		0.01	1	< .01	46	2	0.01	5	0.026	1739	30	22	2	< .01		< 8	2	< 2	6830
3306	2000	14.00	15.00	1.00	135	17.0	0.14	389	6	10		13	0.04	76.1	8	7	118	4.15		0.01	1	< .01	46	3	0.01	5	0.025	1669	31	23	< 2	< .01		< 8	2	< 2	6839
3306C	2000	14.00	15.00	1.00	132	17.3	0.13	371	5	10		13	0.04	75.2	7	6	117	4.05		0.01	1	< .01	45	2	0.01	5	0.025	1694	30	22	2	< .01		< 8	2	< 2	6713
15-16	A94	15.00	16.00	1.0	942	121.4	0.20	676	24	62	0.3	19	0.03	78.0	7	110	548	4.90	1	0.06		0.01	16	4	0.01	22	0.020	2825	101	49	2	0.01			4	6	6957
Thom 3-2	W86	15.73	16.30	0.57	240	44.0											330																				
3307	2000	16.00	17.50	1.50	83	5.1	0.30	272	3	160		< 3	0.09	23.8	9	4	29	2.37		0.13	2	0.02	64	2	0.01	6	0.026	1214	10	37	< 2	< .01		< 8	3	< 2	3168
3308	2000	17.50	19.00	1.50	111	6.4	0.33	322	3	125		< 3	0.09	27.9	9	6	29	2.70		0.14	2	0.02	60	3	0.01	6	0.024	2487	11	32	< 2	< .01		< 8	3	< 2	3935
M580851	P98	19.00	21.00	2.00	140	10.8	0.22	260		10	<0.5	20	0.01	7.5	8	35	201	4.22	<10	0.03		<0.01	15	<1	0.01	4	0.008	236	16	18		<0.01	<10	<10	2	<10	838
M580852	P98	21.00	23.00	2.00	135	5.4	0.16	306		<10	<0.5	28	0.01	<0.5	9	37	244	4.42	<10	<0.01		<0.01	5	3	<0.01	5	0.005	46	18	23		<0.01	<10	<10	2	<10	24
23-24	A94	23.00	24.00	1.0	346	57.0	0.13	2641	76	92	0.3	119	0.02	14.1	8	82	4809	3.78	2	0.01		0.01	116	7	0.01	22	0.003	72	701	29	2	0.01			3	5	83
Thom 3-3	W86	23.99	24.40	0.41	1330	213.0											17600																				
24-25	A94	24.00	25.00	1.0	417	39.1	0.10	1968	1	84	0.3	171	0.03	6.4	10	122	3227	6.52	1	0.01		0.01	72	8	0.01	34	0.002	49	429	23	1	0.01			4	7	47
Thom 3-4	W86	24.83	25.08	0.25	960	80.0											5800																				
25-26	A94	25.00	26.00	1.0	1250	48.3	0.07	950	1	32	0.4	106	0.02	0.1	10	80	2239	12.23	1	0.01		0.01	10	1	0.01	48	0.001	123	279	13	1	0.01			2	4	24
Thom 3-5	W86	25.18	26.01	0.83	1680	60.0											3330																				
26-27	A94	26.00	27.00	1.0	1100	61.5	0.07	1244	1	23	0.3	69	0.02	0.1	9	99	2510	8.54	1	0.01		0.01	19	14	0.01	34	0.002	189	349	12	1	0.01			2	5	147
Thom 3-6	W86	26.01	26.44	0.43	1300	90.0											5300																				
Thom 3-7	W86	26.73	27.14	0.41	1850	86.0											2170																				
M580853	P98	27.00	27.70	0.70	140	6.2	0.19	398		<10	<0.5	12	<0.01	<0.5	9	30	100	4.41	<10	<0.01		<0.01	5	6	<0.01	5	0.004	108	14	21		<0.01	<10	<10	2	<10	26
Unsampled		27.70	28.57	0.87																																	
Thom 3-8	W86	28.57	28.83	0.26	1080	29.0											360																				
Unsampled		28.83	28.90	0.07																																	
M580854	P98	28.90	30.20	1.30	210	10.8	0.16	308		<10	<0.5	14	<0.01	<0.5	10	27	206	4.99	<10	<0.01		<0.01	5	1	<0.01	9	0.004	72	20	19		<0.01	<10	<10	2	<10	40
Unsampled		30.20	30.27	0.07																																	
Thom 3-9	W86	30.27	30.65	0.38	290	9.8											520																				
Unsampled		30.65	30.70	0.05																																	
M580855	P98	30.70	32.40	1.70	80	1.8	0.19	180		<10	<0.5	6	<0.01	<0.5	7	29	39	3.99	<10	<0.01		<0.01	5	1	<0.01	4	0.001	60	2	25		<0.01	<10	<10	2	<10	98
Thom 3-10	W86	32.35	33.83	1.48	210	14.0											100																				
M580856	P98	33.80	35.00	1.20	220	6.2	0.25	296		30	<0.5	4	<0.01	<0.5	9	25	160	4.20	<10	0.05		<0.01	10	1	0.01	5	0.003	240	14	21		<0.01	<10	<10	3	<10	514
Thom 3-11	W86	34.76	34.89	0.13	1180	32.0											1120																				
Unsampled		35.00	35.11	0.11																																	
Thom 3-13	W86	35.11	36.02	0.91	200	7.8											70																				
Thom 3-14	W86	36.02	37.02	1.00	170	5.8											50																				
Thom 3-15	W86	37.02	38.30	1.28	190	10.0											80																				
Unsampled		38.30	38.40	0.10																																	
M580857	P98	38.40	38.60	0.20	370	16.8	0.15	308		20	<0.5	28	<0.01	4.0	8	36	378	4.01	<10	<0.01		<0.01	5	1	<0.01	6	0.008	900	36	47		<0.01	<10	<10	1	<10	742
Unsampled		38.60	38.67	0.07																																	
Thom 3-16	W86	38.67	39.20	0.53	2810	44.5											1530																				
Unsampled		39.20	39.40	0.20																																	
M580858	P98	39.40	39.70	0.30	160	1.4	0.16	304		<10	<0.5	2	<0.01	4.5	9	28	37	3.06	<10	<0.01		<0.01	5	<1	<0.01	5	0.002	86	2	26		<0.01	<10	<10	1	<10	30
Thom 3-17	W86	39.68	39.93	0.25	1200	18.0											610																				
M580859	P98	39.90	42.00	2.10	210	6.2	0.17	294		10	<0.5	6	<0.01	<0.5	10	31	170	4.15	<10	<0.01		<0.01	10	1	<0.01	7	0.004	140	14	19		<0.01	<10	<10	2	<10	56
M580860	P98	42.00	43.80	1.80	285	7.8	0.16	362		30	<0.5	8	<0.01	0.5	9	34	230	4.40	<10	<0.01		<0.01	5	1	<0.01	6	0.001	186	22	17		<0.01	<10	<10	2	<10	56

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
43.5-44.5	A94	43.50	44.50	1.0	987	17.4	0.12	419	1	45	0.4	11	0.01	0.1	7	118	397	5.88	1	0.01		0.01	1	1	0.01	28	0.003	132	52	19	1	0.01			3	6	56
Thom 3-18	W86	43.69	44.24	0.55	1820	34.5											960																				
M580861	P98	44.30	44.90	0.60	250	4.0	0.18	280		10	<0.5	2	<0.01	<0.5	8	37	139	3.85	<10	<0.01		<0.01	5	<1	<0.01	6	0.002	80	12	26		<0.01	<10	<10	2	<10	56
44.5-45.5	A94	44.50	45.50	1.0	4500	55.2	0.07	372	1	23	0.1	24	0.01	0.1	12	184	817	12.54	1	0.01		0.01	1	1	0.01	49	0.002	429	191	13	1	0.01			2	9	89
Thom 3-19	W86	44.87	45.38	0.51	2430	50.2											1640																				
Thom 3-19A	W86	45.38	45.74	0.36																																	
45.5-46.5	A94	45.50	46.50	1.0	2830	44.1	0.10	431	1	12	0.3	25	0.01	0.1	10	142	672	9.03	1	0.01		0.01	1	1	0.01	38	0.010	525	154	64	1	0.01			2	7	172
Thom 3-20	W86	45.74	46.85	1.11	8180	96.0											1390																				
46.5-47.5	A94	46.50	47.50	1.0	460	6.4	0.11	332	1	8	0.3	4	0.01	0.1	7	121	228	4.92	2	0.01		0.01	1	3	0.01	23	0.006	148	19	28	2	0.01			3	7	38
Thom 3-20A	W86	46.85	47.04	0.19																																	
Thom 3-21	W86	47.04	47.54	0.50	4260	68.0											730																				
47.5-48.5	A94	47.50	48.50	1.0	2925	48.9	0.07	372	1	8	0.2	21	0.01	9.1	9	199	640	9.28	1	0.01		0.01	1	1	0.01	39	0.002	747	171	14	1	0.01			2	10	3105
Thom 3-21A	W86	47.54	47.85	0.31																																	
Thom 3-22	W86	47.85	48.12	0.27	1230	28.3											820																				
48.5-49.5	A94	48.50	49.50	1.0	1315	16.1	0.07	393	1	28	0.3	15	0.03	0.1	8	150	529	7.59	1	0.01		0.01	1	2	0.01	34	0.006	521	111	22	1	0.01			2	7	869
Thom 3-23	W86	48.54	49.15	0.61	3200	54.2											780																				
Thom 3-24	W86	49.29	49.91	0.62	2160	34.0											950																				
49.5-50.5	A94	49.50	50.50	1.0	1470	23.5	0.09	448	1	40	0.4	15	0.02	0.1	7	168	711	5.86	1	0.01		0.01	7	1	0.01	30	0.002	722	252	20	2	0.01			2	9	500
Thom 3-25	W86	50.21	52.01	1.80	6640	60.5											970																				
50.5-51.5	A94	50.50	51.50	1.0	9060	71.6	0.04	440	1	28	0.3	28	0.04	0.1	10	193	948	11.70	1	0.01		0.01	1	1	0.01	45	0.001	1111	413	13	1	0.01			1	9	1341
51.5-52.5	A94	51.50	52.50	1.0	1500	13.7	0.08	378	1	37	0.1	15	0.03	8.0	6	186	511	5.55	1	0.01		0.01	13	1	0.01	25	0.005	467	135	31	1	0.01			2	10	1906
Thom 3-26	W86	52.14	53.11	0.97	1680	16.1											690																				
52.5-53.5	A94	52.50	53.50	1.0	1185	15.7	0.06	412	1	13	0.4	17	0.03	0.1	7	166	539	6.22	1	0.01		0.01	1	2	0.01	28	0.003	439	103	21	1	0.01			2	9	500
53.5-54.5	A94	53.50	54.50	1.0	604	8.4	0.07	293	1	46	0.2	9	0.03	0.1	6	178	343	4.87	1	0.01		0.01	7	2	0.01	25	0.002	235	50	32	1	0.01			2	9	212
Thom 3-27	W86	53.98	54.53	0.55	220	3.4											260																				
54.5-55.5	A94	54.50	55.50	1.0	215	2.8	0.05	267	1	63	0.3	5	0.06	0.1	6	195	132	4.10	2	0.01		0.01	10	6	0.01	20	0.006	120	6	42	3	0.01			2	10	49
Thom 3-28	W86	55.17	55.98	0.81	150	1.1											120																				
55.5-56.5	A94	55.50	56.50	1.0	349	7.2	0.06	269	1	53	0.1	6	0.01	0.1	6	189	321	6.12	1	0.01		0.01	2	1	0.01	27	0.014	215	38	67	1	0.01			1	9	212
Thom 3-29	W86	55.98	56.48	0.50	450	10.5											410																				
3309	2000	56.50	58.00	1.50	116	5.8	0.27	254	6	86		3	0.16	23.4	10	3	77	4.01		0.10	1	0.01	62	3	0.02	8	0.042	1917	20	414	< 2	< .01		< 8	3	< 2	2834
3310	2000	58.00	59.50	1.50	134	7.5	0.41	252	5	103		4	0.23	38.4	9	4	95	2.96		0.18	1	0.02	79	5	0.02	8	0.062	2122	21	474	2	< .01		< 8	5	< 2	4873
3311	2000	59.50	61.00	1.50	33	2.7	0.45	163	< 3	221		3	0.26	5.0	11	5	54	2.56		0.21	1	0.04	84	4	0.03	9	0.087	328	9	387	2	< .01		< 8	5	< 2	784
3312	2000	61.00	62.50	1.50	28	1.3	0.44	205	5	101		< 3	0.28	1.4	12	6	34	2.88		0.19	1	0.04	404	3	0.03	10	0.091	96	4	161	2	< .01		< 8	5	< 2	219
3313	2000	62.50	64.00	1.50	99	2.1	0.48	262	< 3	77		4	0.32	4.1	11	3	91	3.13		0.19	1	0.04	68	4	0.04	10	0.099	114	13	190	< 2	< .01		< 8	5	< 2	569
3314	2000	64.00	65.86	1.86	165	6.1	0.35	166	6	80		27	0.16	20.5	13	7	61	5.35		0.16	1	0.02	511	4	0.03	11	0.049	1142	11	106	< 2	< .01		< 8	5	< 2	2955
Thom 3-30	W86	65.86	66.36	0.50	270	1.9											300																				
3315	2000	66.36	68.00	1.64	50	6.6	0.33	124	5	87		21	0.23	12.5	12	5	48	3.95		0.14	1	0.01	42	3	0.04	10	0.079	729	9	397	2	< .01		< 8	4	< 2	1624
3316	2000	68.00	69.50	1.50	74	11.3	0.37	305	6	66		13	0.20	20.1	10	7	164	4.58		0.17	1	0.02	37	6	0.04	8	0.058	1536	33	122	2	< .01		< 8	5	< 2	2671
3317	2000	69.50	70.41	0.91	66	8.3	0.13	287	5	16		15	0.20	1.6	9	5	277	4.57		0.02	1	< .01	30	6	0.02	8	0.083	193	70	46	2	< .01		< 8	2	2	139
DDH 86-4																																					
OB		0.00	7.32	7.32																																	
3077	2000	7.32	7.87	0.55	132	3.4	0.17	243	< 3	20		5	0.01	2.0	8	7	117	3.60		0.01	< 1	< .01	20	1	0.01	8	0.006	443	19	14	< 2	< .01		< 8	3	4	169
Thom 4-1	W86	7.87	8.55	0.68	180	32.4											1000																				
3078	2000	8.55	10.05	1.50	139	4.6	0.13	245	< 3	7		9	0.01	3.6	9	10	153	3.91		0.01	1	< .01	19	3	0.01	11	0.005	306	26	14	< 2	< .01		< 2	2	< 2	382
3080	2000	8.55	10.05	1.50	138	4.7	0.13	242	< 3	6		7	0.01	4.3	10	10	154	4.07		0.01	1	< .01	19	4	0.01	11	0.005	308	24	15	< 2	< 2		< 8	2	< 2	386
3078/80	2000	8.55	10.05	1.50	139	4.7	0.13	244	< 3	7		8	0.01	4.0	10	10	154	3.99		0.01	1	< .01	19	4	0.01	11	0.005	307	25	15	< 2	< 2		< 2	2	< 2	384
3079	2000	10.05	11.42	1.37	377	5.7	0.15	271	< 3	21		16	< .01	2.0	7	7	95	3.64		0.01	< 1	< .01	18	1	0.01	7	0.007	206	16	18	< 2	< .01		< 8	2	3	191
Thom 4-2	W86	11.42	12.42	1.00	220	18.4											530																				
Thom 4-3	W86	12.42	13.44	1.02	240	10.0											60																				
3081	2000	13.44	15.07	1.63	116	7.2	0.46	313	< 3	64		< 3	0.18	55.1	9	4	54	2.90		0.15	3	0.03	127	< 1	0.01	6	0.051	3042	14	51	< 2	< .01		< 8	4	3	5709
Thom 4-4A	W86	15.07	15.44	0.37	30	10.2											50																				
3082	2000	15.44	17.02	1.58	225	13.9	0.50	459	< 3	39		9	0.12	73.7	8	8	57	3.81		0.16	1	0.04	93	2	0.01	8	0.037	4706	14	38	< 2	< .01		< 8	4	2	7595
3082	2000	15.44	17.02	1.58	241	14.1	0.52	468	< 3	39		9	0.13	75.5	8	7	59	3.85		0.16	1	0.04	96	3	0.01	8	0.037	4722	16	39	< 2	< .01		< 8	5	3	7753
3082	2000	15.44	17.02	1.58	233	13.4	0.48	464	3	41		7	0.12	73.0	8	6	54	3.78		0.15	2	0.04	90	< 1	0.01	7	0.036	4535	16	37	2	< .01		< 8	4	4	7497
3082C	2000	15.44	17.02	1.58	233	13.8	0.50	464	3	40		8	0.12	74.1	8	7	57	3.81		0.16	1	0.04	93	2	0.01	8	0.037	4654	15	38	2	< .01		< 8	4	3	7615
3083	2000	17.02	18.62	1.60	171	6.3	0.46	452	< 3	37		3	0.18	32.9	8	8	49	3.59		0.17	1	0.03	150	2	0.01	7	0.055	1969	13	61	< 2	< .01		< 8	4	< 2	4125
Thom 4-4B	W86	18.62	19.33	0.71	20	6.2											30																				
3084	2000	19.33	20.83	1.50	320	5.4	0.49	289	< 3	48		< 3	0.22	19.4	8	3	49	2.56		0.17	1	0.05	190	< 1	0.01	6	0.064	1586	14	61	< 2	< .01		< 8	5	< 2	2875
3085	2000	20.83	21.95	1.12	103	7.7	0.47	365	< 3	43		< 3	0.18	53.5	8	7	48	2.86		0.18	2	0.04	153	3	0.01	7	0.057	2944	19	56	< 2	< .01		< 8	5	2	5529
3086	2000	21.95	23.50	1.55	86	7.9	0.22	325	< 3	28		5	0.04	13.0	9	5	141	4.18		0.06	< 1	0.01	43	3	0.01	7	0.019	1112	48	33	< 2	< .01		< 8	3	< 2	1570
3087	2000	23.50	25.26	1.76	181	17.6	0.33	582	< 3	22		64	0.07	11.0	9	8	1131	4.87		0.12	< 1	0.01	59	3	0.01	11	0.043	921	240	27	< 2	< .01		< 8	4	< 2	1240

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Thom 4-5	W86	24.36	25.16	0.80	70	6.0											200																				
3088	2000	25.26	26.06	0.80	120	3.5	0.20	194	< 3	22		< 3	0.02	16.9	10	5	161	4.65		0.05	1	< .01	25	1	0.01	8	0.013	540	21	18	< 2	< .01		< 8	2	< 2	1526
3089	2000	26.06	26.52	0.46	122	2.7	0.14	220	3	22		14	0.01	< .2	9	9	118	5.47		0.01	< 1	< .01	16	2	0.01	10	0.004	98	19	19	< 2	< .01		< 8	2	< 2	16
Thom 4-6	W86	26.52	27.20	0.68	920	76.0											7800																				
3090	2000	26.52	28.47	1.95	188	10.7	0.12	386	< 3	18		77	0.01	2.2	8	6	764	6.11		0.01	< 1	< .01	23	2	0.01	7	0.005	174	154	21	< 2	< .01		< 8	2	4	154
Thom 4-7	W86	27.20	27.82	0.62	260	29.8											2540																				
3091	2000	28.77	30.74	1.97	402	32.6	0.13	641	< 3	22		21	0.01	6.5	9	7	1671	5.99		0.01	1	< .01	21	3	0.01	10	0.008	196	338	25	< 2	< .01		< 8	2	< 2	626
Thom 4-8	W86	28.69	29.23	0.54	730	106.0											6390																				
Thom 4-9	W86	29.53	30.20	0.67	200	25.7											680																				
Thom 4-10	W86	30.20	30.74	0.54	2180	68.0											3930																				
Thom 4-11	W86	30.74	31.64	0.90	120	6.3											140																				
3092	2000	31.64	32.61	0.97	120	9.1	0.46	412	7	30		6	0.18	36.6	10	5	96	4.03		0.18	1	0.02	80	2	0.01	10	0.050	2682	15	103	2	< .01		< 8	5	3	4762
3093	2000	32.61	32.97	0.36	109	5.4	0.22	287	< 3	32		6	0.09	5.7	8	9	69	4.52		0.04	< 1	0.01	45	5	0.01	11	0.038	359	11	41	< 2	< .01		< 8	4	< 2	545
3094	2000	32.97	34.08	1.11	81	9.2	0.48	383	< 3	31		< 3	0.21	23.2	9	1	152	4.14		0.19	1	0.02	95	2	0.02	9	0.062	2036	29	99	< 2	< .01		< 8	5	< 2	2914
3094	2000	32.97	34.08	1.11	73	9.2	0.46	378	4	30		3	0.21	22.9	9	4	146	4.10		0.18	1	0.02	92	3	0.02	9	0.061	2053	27	96	2	< .01		< 8	5	< 2	2858
3094	2000	32.97	34.08	1.11	77	9.2	0.47	381	4	31		3	0.21	23.1	9	3	149	4.12		0.19	1	0.02	94	3	0.02	9	0.062	2045	28	98	2	< .01		< 8	5	< 2	2886
3095	2000	34.08	34.76	0.68	155	3.4	0.19	243	< 3	12		6	0.04	1.1	9	5	75	4.17		0.02	1	< .01	24	2	0.01	8	0.015	111	28	33	< 2	< .01		< 8	3	< 2	108
Thom 4-12	W86	34.76	35.16	0.40	240	7.5											230																				
3096	2000	35.16	36.16	1.00	129	1.9	0.16	170	< 3	26		3	0.03	3.1	11	4	41	4.49		0.01	< 1	< .01	19	3	0.01	9	0.018	94	8	39	< 2	< .01		< 8	2	< 2	320
3097	2000	36.16	37.61	1.45	117	1.5	0.18	240	6	16		7	0.02	1.6	14	6	39	5.44		0.01	1	< .01	22	2	0.01	14	0.014	127	6	41	< 2	< .01		< 8	3	3	168
Thom 4-13	W86	37.61	37.98	0.37	330	6.7											210																				
3098	2000	37.98	39.48	1.50	93	5.1	0.22	267	3	35		13	0.04	1.0	14	7	206	5.37		0.01	1	< .01	28	4	0.01	15	0.023	204	45	60	2	< .01		< 8	4	2	102
3099	2000	39.48	41.15	1.67	88	3.5	0.18	258	< 3	30		8	0.04	0.9	13	4	95	5.32		0.02	1	< .01	27	2	0.01	14	0.024	226	23	56	< 2	< .01		< 8	3	2	122
3100	2000	39.48	41.15	1.67	88	4.1	0.19	288	< 3	24		9	0.03	0.6	13	7	116	5.92		0.01	1	< .01	23	4	0.01	14	0.026	234	28	52	< 2	< .01		< 8	2	2	77
3099/3100	2000	39.48	41.15	1.67	88	3.8	0.19	273	<3	27		9	0.04	0.8	13	6	106	5.62		0.02	1	< .01	25	3	0.01	14	0.025	230	26	54	< 2	< .01		< 8	3	2	100
Thom 4-14	W86	41.15	41.27	0.12	350	8.2											290																				
3101	2000	41.27	42.77	1.50	84	2.1	0.18	159	4	11		10	0.01	0.2	7	2	49	4.04		0.01	< 1	< .01	15	3	0.01	10	0.006	104	6	32	< 2	< .01		< 8	3	< 2	28
3102	2000	42.77	44.37	1.60	204	4.9	0.17	278	3	21		6	0.01	1.0	9	9	99	5.89		0.01	< 1	< .01	21	4	0.01	9	0.005	152	6	41	< 2	< .01		< 8	2	3	115
3103	2000	44.37	45.87	1.50	58	5.4	0.17	132	< 3	10		13	0.01	1.5	8	4	93	4.33		0.01	< 1	< .01	17	4	0.01	11	0.004	96	7	29	< 2	< .01		< 8	2	3	149
3104	2000	45.87	46.87	1.00	45	1.2	0.25	121	3	25		4	0.01	1.0	9	8	64	4.64		0.02	< 1	< .01	20	5	0.01	11	0.005	76	4	32	< 2	< .01		< 8	3	2	115
3104	2000	45.87	46.87	1.00	45	1.0	0.25	122	< 3	25		4	0.01	0.8	9	9	65	4.68		0.02	< 1	< .01	21	5	0.02	12	0.005	76	5	34	< 2	< .01		< 8	3	2	114
3104	2000	45.87	46.87	1.00	41	1.2	0.24	119	< 3	26		5	0.01	1.1	9	7	67	4.53		0.02	1	< .01	21	3	0.02	11	0.005	73	5	33	< 2	< .01		< 8	3	2	130
3104C	2000	45.87	46.87	1.00	44	1.1	0.25	121	3	25		4	0.01	1.0	9	8	65	4.62		0.02	1	< .01	21	4	0.02	11	0.005	75	5	33	< 2	< .01		< 8	3	2	120
3105	2000	46.87	48.38	1.51	86	6.4	0.16	162	< 3	37		6	0.01	1.2	4	11	277	3.01		0.01	< 1	< .01	17	5	0.01	4	0.006	93	56	52	< 2	< .01		< 8	1	2	64
3106	2000	48.38	49.38	1.00	64	2.5	0.15	63	< 3	14		6	0.01	8.8	4	6	65	2.87		0.01	< 1	< .01	20	4	0.01	6	0.007	133	6	64	< 2	< .01		< 8	2	< 2	832
3107	2000	49.38	51.03	1.65	74	1.0	0.24	173	3	23		4	0.02	1.9	17	9	55	5.29		0.01	1	< .01	23	4	0.01	21	0.013	133	< 3	99	< 2	< .01		< 8	4	4	179
3108	2000	51.03	52.53	1.50	286	12.6	0.19	621	< 3	7		12	0.06	7.6	22	6	1212	7.87		0.01	< 1	< .01	38	3	0.01	24	0.022	573	234	40	< 2	< .01		< 8	3	< 2	530
3109	2000	52.53	52.79	0.26	319	10.2	0.17	92	< 3	18		35	0.10	119.1	24	13	124	7.41		0.01	< 1	< .01	67	5	0.01	19	0.043	5132	20	45	< 2	< .01		< 8	2	3	10143
3110	2000	52.79	54.30	1.51	111	3.3	0.19	125	5	23		9	0.06	40.1	10	7	32	5.05		0.01	< 1	< .01	41	3	0.01	11	0.022	1644	4	42	< 2	< .01		< 8	3	2	3670
3111	2000	54.30	55.80	1.50	64	3.1	0.17	159	< 3	29		8	0.07	2.2	8	7	37	4.21		0.01	< 1	< .01	40	4	0.01	8	0.023	227	6	40	< 2	< .01		< 8	2	3	190
3112	2000	55.80	57.30	1.50	45	2.2	0.17	87	< 3	9		8	0.05	2.7	7	4	27	4.26		0.01	< 1	0.01	28	8	0.01	8	0.012	131	3	41	< 2	< .01		< 8	2	< 2	263
3113	2000	57.30	58.30	1.00	44	2.4	0.18	100	3	15		11	0.06	1.1	8	8	59	4.62		0.01	< 1	< .01	33	10	0.01	9	0.016	192	13	43	< 2	< .01		< 8	2	2	100
3114	2000	58.30	59.18	0.88	98	18.2	0.19	236	< 3	29		10	0.12	8.0	8	3	410	4.62		0.02	1	0.01	74	3	0.01	9	0.030	344	104	46	2	< .01		9	2	< 2	805
3115	2000	59.18	60.68	1.50	76	10.1	0.48	173	3	51		3	0.15	20.2	8	5	147	3.99		0.18	< 1	0.02	67	4	0.03	9	0.026	1561	32	172	< 2	< .01		< 8	3	< 2	2842
3116	2000	60.68	62.18	1.50	55	4.5	0.53	162	3	55		< 3	0.17	22.4	7	5	54	2.88		0.19	1	0.03	82	2	0.03	9	0.035	1415	12	132	< 2	< .01		< 8	4	< 2	3348
3116	2000	60.68	62.18	1.50	54	4.6	0.53	164	4	54		3	0.18	22.7	7	3	55	2.95		0.20	< 1	0.03	85	2	0.03	9	0.037	1457	13	134	< 2	< .01		< 8	4	< 2	3395
3116	2000	60.68	62.18	1.50	54	4.1	0.50	160	< 3	52		< 3	0.17	21.5	7	4	53	2.91		0.18	1	0.03	82	1	0.03	9	0.036	1379	11	130	< 2	< .01		< 8	3	2	3219
3116C	2000	60.68	62.18	1.50	54	4.4	0.52	162	3	54		< 3	0.17	22.2	7	4	54	2.91		0.19	1	0.03	83	2	0.03	9	0.036	1417	12	132	< 2	< .01		< 8	4	2	3321
3117	2000	62.18	63.68	1.50	52	5.5	0.43	157	3	46		6	0.15	22.0	8	2	57	3.30		0.15	< 1	0.02	65	2	0.03	9	0.029	1452	12	154	< 2	< .01		< 8	4	< 2	3253
3118	2000	63.68	65.18	1.50	90	2.0	0.45	230	5	47		3	0.14	10.2	8	6	23	2.84		0.17	1	0.02	54	2	0.03	10	0.018	332	3	124	2	< .01		< 8	4	< 2	1564
3119	2000	65.18	66.68	1.50	35	0.6	0.47	122	< 3	65		< 3	0.16	3.4	7	4	10	2.04		0.18	1	0.03	73	1	0.03	7	0.034	215	3	131	< 2	< .01		8	4	< 2	495
3120	2000	65.18	66.68	1.50	38	0.6	0.46	122	< 3	66		< 3	0.16	3.0	7	5	9	2.09		0.17	1	0.03	73	1	0.03	8	0.034	256	3	138	< 2	< .01		< 8	4	< 2	439
3119/20	2000	65.18	66.68	1.50	37	0.6	0.47	122	<3	66		<3	0.16	3.2	7	5	10	2.07		0.16	1	0.03	73	1	0.03	8	0.034	236	3	135	< 2	< .01		8	4	< 2	467
3121	2000	66.68	68.18	1.50	66	2.3	0.49	146	6	55		4	0.12	4.4	7	4	16	3.17		0.20	< 1	0.02	69	2	0.04	9	0.019	573	< 3	117	2	< .01		< 8	4	< 2	650
3122	2000	68.18	69.68	1.50	103	1.9	0.20	180	3	26		9	0.04	2.7	9	5	23	5.25		0.02	< 1	0.01	22	6	0.01	9	0.005	95	3	53	< 2	< .01		< 8	2	< 2	343
3123	2000	69.68	71.18	1.50	89	4.7	0.27	217	< 3	30		8	0.07	1.6	8	3	74	4.24		0.07	< 1	0.01	30	3	0.02	10	0.008	300	17	70	< 2	< .01		< 8	4	< 2	216
3124	2000	71.18	72.68	1.50	64	6.0	0.38	163	3	49		3	0.16	25.1	8	6	60	3.26		0.16	1	0.02	123	3	0.03	10	0.031	2791	14	119	2	< .01		< 8	3	2	3045
3125	2000	72.68	74.20	1.52	75	6.8	0.42	173	4	52		3	0.19	34.3	7	4	133	3.25		0.17	1	0.02	41	3	0.04	7	0.050	2091	33	84	2	< .01		< 8	4	3	3903
3126	2000	74.20	75.52	1.32	245	4.3	0.57	164	< 3	50		7	1.69	9.3	8	6	109	3.82		0.10	4	0.38	2549	3	0.04	6	0.074	442	21	88	2	< .01		< 8	9	< 2	1154
3127	2000	75.52	77.02	1.50	22	0.8	1.55	169	7	261		< 3	2.56	0.7	7	6	29	2.40		0.40	13	0.72	3848	4	0.08	3	0.086	100	7	128	3	0.01		13	14	4	124
3128	2000	77.02	78.62	1.60	13	0.6	1.50	177	3	243		3	2.79	0.8	7	4	35	2.63		0.36	14	0.53	3193	4	0.11	3	0.091	101	7	160	3	0.01		< 8	14	< 2	110
3129	2000	78.62	80.28	1.66	10	0.7	1.21	164	< 3	193		< 3	2.60	0.9	8	3	48	2.34		0.29	13	0.65	3040	3	0.11	3	0.087	84	11	137	3	< .01		9	12	3	114
Thom 4-15	W86	80.28	80.71	0.43	160	2.6											220																				

Sample #	Ref.	From	To	Width	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Th	Ti	Tl	U	V	W	Zn
Number		m	m	m	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
3130	2000	80.71	82.15	1.44	36	0.6	2.16	158	9	414		< 3	3.85	5.1	6	5	8	3.01		0.52	15	1.02	4800	3	0.09	3	0.081	208	< 3	169	5	0.01		12	18	< 2	591
3131	2000	82.15	83.65	1.50	37	0.3	2.23	185	7	418		< 3	3.48	0.4	7	8	7	2.97		0.49	13	0.92	4627	4	0.12	4	0.085	119	< 3	185	3	0.01		9	21	2	114
3132	2000	83.65	85.15	1.50	12	0.3	1.96	145	7	358		< 3	4.29	0.3	8	10	12	2.57		0.40	15	0.60	3809	4	0.15	5	0.083	58	< 3	222	4	0.01		8	20	2	68
3133	2000	85.15	86.45	1.30	13	< .3	1.73	202	5	282		< 3	4.66	0.2	10	8	8	3.09		0.36	17	0.48	3493	2	0.14	6	0.089	66	3	223	3	0.01		< 8	17	2	59
3134	2000	86.45	87.95	1.50	28	1.2	1.90	187	8	321		< 3	3.73	0.6	9	4	99	2.57		0.36	14	0.77	4059	2	0.14	5	0.092	46	22	214	4	0.01		11	20	2	84
3134	2000	86.45	87.95	1.50	22	1.3	1.80	180	7	293		< 3	3.62	0.5	9	8	92	2.46		0.34	14	0.74	3926	2	0.13	5	0.089	44	21	204	4	0.01		< 8	19	< 2	80
3134	2000	86.45	87.95	1.50	26	1.4	1.73	177	10	280		< 3	3.43	0.6	8	6	97	2.42		0.33	14	0.74	3955	3	0.12	5	0.089	50	21	203	4	0.01		< 8	18	4	82
3134C	2000	86.45	87.95	1.50	25	1.3	1.81	181	8	298		< 3	3.59	0.6	9	6	96	2.48		0.34	14	0.75	3980	2	0.13	5	0.090	47	21	207	4	0.01		9	19	3	82
3135	2000	87.95	89.45	1.50	39	0.5	1.47	213	14	259		< 3	3.02	0.2	7	8	5	2.57		0.35	12	0.80	4270	5	0.09	4	0.082	73	< 3	171	3	0.01		< 8	13	2	75
3136	2000	89.45	90.95	1.50	14	0.4	1.46	160	9	229		< 3	3.08	0.2	7	5	2	2.45		0.33	12	0.86	4085	3	0.11	3	0.083	50	< 3	174	4	0.01		< 8	12	2	55
3137	2000	90.95	92.45	1.50	12	< .3	1.41	184	4	228		< 3	4.17	0.3	8	2	8	2.44		0.28	16	0.44	2994	3	0.14	4	0.090	58	< 3	216	3	0.01		< 8	13	2	45
3138	2000	92.45	93.95	1.50	14	0.7	1.21	162	< 3	191		3	3.93	0.5	6	2	56	2.02		0.24	16	0.39	2784	2	0.13	4	0.084	61	11	218	3	< .01		< 8	10	< 2	62
3139	2000	93.95	95.45	1.50	17	0.3	2.15	184	8	382		< 3	3.54	1.3	7	7	5	2.61		0.48	13	0.86	3993	4	0.14	3	0.083	86	< 3	198	4	0.01		8	16	5	200
3140	2000	93.95	95.45	1.50	17	0.4	1.78	173	9	282		< 3	3.32	0.6	7	6	6	2.55		0.38	12	0.77	3528	2	0.13	4	0.084	86	< 3	182	4	0.01		15	13	3	122
3139/40	2000	93.95	95.45	1.50	17	0.4	1.97	169	9	332		<3	3.43	1.0	7	7	6	2.58		0.43	13	0.82	3761	3	0.14	4	0.084	86	< 3	190	4	0.01		12	15	4	161
3141	2000	95.45	96.95	1.50	75	0.3	1.80	191	3	363		< 3	3.68	0.6	8	5	6	2.65		0.41	14	0.55	3383	3	0.14	5	0.089	75	< 3	190	4	0.01		< 8	18	3	118
3142	2000	96.95	98.45	1.50	8	< .3	1.31	134	3	222		< 3	4.37	< .2	8	5	4	2.44		0.26	14	0.46	2907	3	0.13	4	0.086	38	< 3	213	4	< .01		< 8	14	< 2	62
3143	2000	98.45	99.95	1.50	5	< .3	1.11	92	3	169		< 3	4.62	0.2	7	3	21	2.15		0.18	13	0.51	2626	3	0.11	3	0.088	38	4	227	4	< .01		< 8	11	2	66
3144	2000	99.95	101.45	1.50	6	< .3	1.20	134	< 3	189		3	3.90	0.2	7	7	6	2.46		0.25	14	0.38	2179	16	0.13	4	0.087	36	< 3	193	3	< .01		< 8	12	< 2	51
3145	2000	101.45	102.95	1.50	6	< .3	1.22	131	5	192		3	4.01	< .2	7	8	8	2.51		0.25	12	0.38	2306	12	0.13	4	0.086	39	< 3	196	3	< .01		12	13	< 2	52
3146	2000	102.95	104.45	1.50	13	< .3	1.21	104	< 3	208		< 3	4.38	0.5	6	2	11	2.48		0.31	13	0.60	3848	48	0.10	3	0.082	50	< 3	202	3	0.01		< 8	11	2	96
3146	2000	102.95	104.45	1.50	12	< .3	1.25	100	3	213		< 3	4.32	0.5	6	4	12	2.44		0.31	13	0.59	3799	48	0.10	3	0.080	44	< 3	200	3	0.01		< 8	11	2	92
3146	2000	102.95	104.45	1.50	13	< .3	1.29	103	3	229		< 3	4.27	0.6	6	6	11	2.47		0.32	13	0.59	3748	47	0.10	3	0.080	41	< 3	206	4	0.01		< 8	12	3	91
3146C	2000	102.95	104.45	1.50	13	< .3	1.25	102	3	217		< 3	4.32	0.5	6	4	11	2.46		0.31	13	0.59	3798	48	0.10	3	0.081	45	< 3	203	3	0.01		< 8	11	2	93
3147	2000	104.45	105.95	1.50	7	0.3	1.49	98	4	249		3	3.26	0.4	7	4	16	2.53		0.33	11	0.63	3014	13	0.11	4	0.083	37	< 3	167	4	0.01		< 8	13	2	76
3148	2000	105.95	107.13	1.18	26	< .3	1.34	138	< 3	230		3	3.87	0.3	7	3	26	2.63		0.31	13	0.44	3004	10	0.10	4	0.083	41	3	178	3	0.01		< 8	13	2	83
Thom 4-16	W86	107.13	107.40	0.27	250	0.2											20																				
3149	2000	107.40	108.81	1.41	12	0.3	1.18	148	3	201		< 3	3.84	0.3	7	7	41	2.50		0.28	13	0.39	2591	10	0.10	4	0.082	36	8	161	5	< .01		8	11	2	74
DDH 86-5																																					
OB		0.00	7.50	7.50																																	
3034	2000	7.50	8.00	0.50	189	1.5	0.12	183	< 3	36		5	0.09	< .2	8	7	32	3.00		0.02	1	0.02	94	4	0.01	5	0.005	117	9	28	< 2	< .01		< 8	2	2	10
8-9	A94	8.00	9.00	1.0	807	23.8	0.09	203	1	25	0.2	22	0.01	16.2	5	150	486	6.86	1	0.01		0.01	1	1	0.01	30	0.003	963	84	40	1	0.01			1	7	1990
Thom 5-1	W86	8.22	8.50	0.28	2060	84.0											1790																				
3035	2000	9.00	10.50	1.50	253	4.3	0.15	241	< 3	18		13	0.01	0.8	9	8	70	5.93		0.02	< 1	< .01	24	2	0.01	9	0.005	168	24	32	< 2	< .01		< 8	2	3	78
3036	2000	10.50	12.00	1.50	88	1.1	0.11	263	5	7		7	0.01	< .2	12	10	26	5.42		0.01	< 1	< .01	21	3	0.01	8	0.003	60	5	22	< 2	< .01		< 8	2	3	4
3037	2000	12.00	13.50	1.50	129	2.7	0.11	211	< 3	9		8	0.01	< .2	10	7	43	4.92		0.01	< 1	< .01	18	2	0.01	8	0.002	77	17	22	< 2	< .01		< 8	1	2	5
3038	2000	13.50	15.00	1.50	74	1.6	0.10	91	< 3	7		15	< .01	0.3	4	8	34	3.16		0.01	< 1	< .01	14	5	0.01	7	0.003	51	7	24	< 2	< .01		< 8	2	2	4
3039	2000	15.00	16.50	1.50	82	1.7	0.12	253	3	10		17	0.01	< .2	12	7	31	4.00		0.01	< 1	< .01	21	3	0.01	9	0.003	72	8	26	< 2	< .01		< 8	1	2	6
3040	2000	15.00	16.50	1.50	138	2.0	0.12	259	< 3	10		19	0.01	< .2	12	10	29	3.87		0.01	< 1	< .01	16	3	0.01	9	0.003	80	10	26	< 2	< .01		< 8	2	2	6
3040	2000	15.00	16.50	1.50	145	2.0	0.12	261	< 3	10		19	0.01	< .2	13	7	29	3.90		0.01	< 1	< .01	17	3	0.01	8	0.003	80	9	27	< 2	< .01		< 8	2	2	6
3040	2000	15.00	16.50	1.50	145	1.9	0.11	251	4	10		20	0.01	< .2	12	6	28	3.82		0.01	< 1	< .01	17	2	0.01	8	0.003	76	8	27	< 2	< .01		< 8	2	2	7
3040C	2000	15.00	16.50	1.50	127	1.9	0.12	256	4	10		19	0.01	<.2	12	8	29	3.90		0.01	< 1	< .01	18	3	0.01	9	0.003	77	9	27	< 2	< .01		< 8	2	2	6
3041	2000	16.50	18.00	1.50	86	2.9	0.13	259	< 3	11		16	0.01	< .2	12	9	76	4.67		0.01	< 1	< .01	19	4	0.01	10	0.012	75	19	27	< 2	< .01		< 8	2	3	11
3042	2000	18.00	19.34	1.34	180	1.9	0.12	205	3	10		12	0.01	< .2	9	7	35	4.46		0.01	< 1	< .01	21	3	0.01	7	0.003	39	7	20	< 2	< .01		< 8	2	3	10
Thom 5-2	W86	19.34	19.65	0.31	450	31.9											1300																				
3043	2000	19.65	20.65	1.00	156	5.4	0.12	205	6	37		6	0.01	0.3	7	10	94	4.18		0.01	1	< .01	17	4	0.01	5	0.005	56	25	17	< 2	< .01		< 8	2	< 2	21
3044	2000	20.65	21.77	1.12	157	7.7	0.13	250	< 3	19		9	0.01	0.6	8	8	113	3.91		0.01	1	< .01	20	3	0.01	6	0.006	65	35	27	< 2	< .01		< 8	3	2	26
Thom 5-3	W86	21.77	22.00	0.23	680	142.0											6620																				
3045	2000	22.00	23.00	1.00	106	5.7	0.13	244	4	8		9	0.02	0.7	8	10	171	4.23		0.01	1	< .01	20	2	0.01	6	0.009	37	49	21	2	< .01		< 8	2	2	37
3046	2000	23.00	24.00	1.00	594	68.3	0.12	1540	< 3	23		382	0.02	1.2	7	5	4433	6.51		0.01	1	< .01	95	4	0.01	6	0.005	160	1018	25	< 2	< .01		< 8	2	2	81
24-25	A94	24.00	25.00	1.0	928	130.5	0.08	4016	1	60	0.2	823	0.03	27.9	7	100	7363	5.80	1	0.01		0.01	109	1	0.01	26	0.004	357	1397	16	1	0.01			2	5	212
Thom 5-4	W86	24.21	24.95	0.74	830	135.0											7400																				
3047	2000	25.00	26.00	1.00	258	30.0	0.14	677	< 3	8		132	0.02	0.5	8	9	1415	5.29		0.01	1	< .01	43	3	0.01	6	0.004	72	309	17	< 2	< .01		< 8	2	2	29
3048	2000	26.00	27.00	1.00	104	5.5	0.11	356	5	35		11	0.02	< .2	8	6	227	4.63		0.01	< 1	< .01	26	4	0.01	6	0.008	28	54	22	< 2	< .01		< 8	2	< 2	24
27-28	A94	27.00	28.00	1.0	440	44.3	0.13	1570	1	105	0.1	77	0.03	5.0	6	76	2078	4.87	1	0.01		0.01	67	1	0.01	23	0.005	82	237	22	1	0.01			3	3	47
Thom 5-5	W86	27.95	28.15	0.20	570	51.0											3860																				
3049	2000	28.00	29.00	1.00	356	14.8	0.14	612	< 3	24		41	0.01	0.3	9	10	1061	6.42		0.01	< 1	< .01	44	3	0.01	8	0.003	76	168	23	< 2	< .01		< 8	2	2	33
Thom 5-6	W86	28.50	29.13	0.63	3470	256.0											8830																				
29-30	A94	29.00	30.00	1.0	1760	120.6	0.07	2784	1	22	0.1	131	0.02	5.0	10	1463	5085	12.97	1	0.01		0.01	43	1	0.01	49	0.001	288	823	14	1	0.01			3	6	335
Thom 5-7	W86	29.13	29.57	0.44	2730	284.0											12200																				
Thom 5-8	W86	29.89	30.62	0.73	2790	80.5											3900																				
30-31	A94	30.00	31.00	1.0	1255	29.5	0.11	809	1	16	0.1	208	0.01	0.1	9	139	1328	11.17	1	0.01		0.01	1	1	0.01	45	0.002	244	200	21	1	0.01			2	6	916

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
31-32	A94	31.00	32.00	1.0	337	5.4	0.09	405	1	8	0.3	19	0.01	0.1	6	153	280	5.21	1	0.01		0.01	10	2	0.01	24	0.002	72	9	18	1	0.01			2	7	1783
Thom 5-9	W86	31.10	31.34	0.24	1190	18.3											2030																				
3050	2000	32.00	32.50	0.50	312	6.0	0.11	274	5	8		16	0.01	0.3	7	9	121	5.38		0.01	1	< .01	36	2	0.01	7	0.004	86	13	22	2	< .01		< 8	2	< 2	1927
Thom 5-10	W86	32.50	33.23	0.73	820	31.0											810																				
3051	2000	33.23	34.10	0.87	244	4.1	0.12	227	3	8		11	0.01	< .2	6	13	82	4.40		< .01	< 1	< .01	30	4	0.01	5	0.003	50	12	30	< 2	< .01		< 8	3	3	37
Thom 5-11	W86	34.10	34.72	0.62	1770	30.2											1280																				
3061	2000	34.10	34.94	0.84	1950	27.3	0.09	345	3	13		62	0.07	0.8	6	15	928	10.11		0.02	< 1	< .01	37	18	0.01	12	0.003	238	87	22	< 2	< .01		< 8	1	< 2	1619
3052	2000	34.94	36.35	1.41	339	4.6	0.12	278	< 3	7		14	0.02	< .2	7	7	105	6.01		0.01	1	< .01	27	2	0.01	7	0.003	87	11	25	< 2	< .01		< 8	2	2	45
3052	2000	34.94	36.35	1.41	348	4.9	0.12	291	< 3	7		14	0.02	< .2	8	8	112	6.28		< .01	1	< .01	28	2	0.01	7	0.003	91	12	25	< 2	< .01		< 8	2	2	47
3052	2000	34.94	36.35	1.41	360	4.9	0.12	289	4	6		16	0.02	< .2	8	9	111	6.30		0.01	1	< .01	26	2	0.01	7	0.003	93	13	24	< 2	< .01		< 8	2	3	50
3052C	2000	34.94	36.35	1.41	349	4.8	0.12	286	4	7		15	0.02	< .2	8	8	109	6.20		0.01	1	< .01	27	2	0.01	7	0.003	90	12	25	< 2	< .01		< 8	2	2	47
3053	2000	36.35	37.85	1.50	165	1.5	0.12	191	3	15		5	0.02	< .2	6	7	16	3.31		0.01	1	< .01	27	1	0.01	5	0.001	34	< 3	21	< 2	< .01		< 8	2	2	22
Thom 5-12	W86	37.85	37.94	0.09	630	26.7											1440																				
3054	2000	37.94	39.00	1.06	239	1.9	0.13	275	3	7		10	0.01	0.2	9	8	37	4.10		< .01	1	< .01	25	2	0.01	8	0.003	54	5	19	< 2	< .01		< 8	2	2	16
39-40	A94	39.00	40.00	1.0	804	22.7	0.10	829	1	37	0.1	22	0.02	0.1	8	97	1461	6.96	1	0.01		0.01	1	1	0.01	30	0.001	74	148	19	1	0.01			22	4	218
Thom 5-13	W86	39.24	39.87	0.63	780	22.0											1350																				
40-41	A94	40.00	41.00	1.0	2530	39.5	0.05	645	1	29	0.2	27	0.01	0.1	10	192	1403	11.14	1	0.01		0.01	1	1	0.01	45	0.001	310	221	10	1	0.01			1	8	198
Thom 5-14	W86	40.05	40.48	0.43	800	10.7											620																				
Thom 5-15	W86	40.48	41.51	1.03	2920	133.0											8240																				
41-42	A94	41.00	42.00	1.0	1455	105.3	0.11	4018	1	38	0.2	21	0.01	39.9	7	57	7419	5.59	1	0.01		0.01	2	1	0.01	27	0.001	111	1394	16	1	0.01			3	5	1492
3055	2000	42.00	42.49	0.49	116	1.9	0.15	311	4	4		4	0.01	< .2	8	8	98	5.00		0.01	1	< .01	23	1	0.01	8	0.004	105	9	20	< 2	< .01		< 8	2	3	62
Thom 5-16	W86	42.49	42.76	0.27	360	3.9											310																				
3056	2000	42.76	43.10	0.34	352	6.2	0.14	240	< 3	6		12	0.01	< .2	7	15	269	6.67		< .01	< 1	< .01	24	3	0.01	8	0.004	107	30	33	< 2	< .01		< 8	2	4	41
Thom 5-17	W86	43.10	43.24	0.14	870	47.5											3760																				
3057	2000	43.24	44.74	1.50	142	1.9	0.11	213	4	8		12	0.01	0.4	7	9	40	4.06		< .01	< 1	< .01	22	1	0.01	6	0.003	47	3	25	< 2	< .01		< 8	2	2	20
3058	2000	44.74	46.00	1.26	202	2.8	0.09	171	4	19		11	0.02	< .2	5	15	75	4.41		0.01	1	< .01	29	2	0.01	5	0.003	120	6	27	< 2	< .01		< 8	2	5	81
46-47	A94	46.00	47.00	1.0	530	12.5	0.06	780	1	7	0.2	14	0.03	15.9	7	207	460	5.64	1	0.01		0.01	11	3	0.01	28	0.006	1226	71	15	1	0.01			2	10	4221
Thom 5-18	W86	46.16	47.54	1.38	500	10.0											490																				
47-48	A94	47.00	48.00	1.0	870	18.4	0.04	312	1	5	0.2	12	0.02	0.1	8	165	632	9.99	1	0.01		0.01	1	1	0.01	40	0.001	725	91	8	1	0.01			1	7	438
Thom 5-19	W86	47.55	48.13	0.58	1400	36.4											1020																				
48-49	A94	48.00	49.00	1.0	688	9.6	0.06	307	1	6	0.2	8	0.04	0.1	9	173	487	9.08	1	0.01		0.01	1	1	0.01	39	0.010	369	59	14	1	0.01			1	8	477
Thom 5-20	W86	48.13	48.97	0.84	940	9.8											610																				
49-50	A94	49.00	50.00	1.0	487	11.7	0.07	314	1	5	0.1	19	0.02	0.1	11	126	577	12.32	1	0.01		0.01	1	1	0.01	49	0.001	578	63	9	1	0.01			2	5	384
Thom 5-21	W86	49.17	50.15	0.98	1480	21.3											900																				
50-51	A94	50.00	51.00	1.0	557	12.1	0.08	430	1	8	0.4	10	0.04	0.1	9	133	558	8.55	1	0.01		0.01	1	1	0.01	36	0.003	348	77	18	1	0.01			2	6	1471
Thom 5-22	W86	50.70	51.25	0.55	1800	32.0											1790																				
51-52	A94	51.00	52.00	1.0	1020	16.4	0.05	242	1	5	0.1	14	0.02	0.1	13	135	889	15.00	1	0.01		0.01	1	1	0.01	60	0.001	564	112	12	1	0.01			2	5	107
Thom 5-23A	W86	51.25	52.00	0.75	230	9.7											530																				
52-53	A94	52.00	53.00	1.0	410	6.7	0.08	274	1	8	0.3	6	0.03	7.1	5	165	431	5.75	1	0.01		0.01	2	2	0.01	26	0.007	433	70	24	1	0.01			1	9	2841
Thom 5-23B	W86	52.24	53.06	0.82	610	26.2											1390																				
3059	2000	53.06	53.98	0.92	253	3.2	0.10	194	4	8		9	0.02	< .2	7	12	130	4.13		< .01	1	< .01	25	2	0.01	7	0.002	336	12	37	< 2	< .01		< 8	2	3	24
3060	2000	53.06	53.98	0.92	288	4.5	0.10	230	< 3	8		9	0.06	1.8	8	8	142	4.55		< .01	< 1	< .01	31	1	0.01	8	0.002	637	18	33	< 2	< .01		< 8	1	2	349
3059/60	2000	53.06	53.98	0.92	270	3.9	0.10	212	4	8		9	0.04	1.8	8	10	136	4.34		< .01	< 1	< .01	28	2	0.01	8	0.002	487	15	35	< 2	< .01		< 8	2	3	187
Thom 5-24	W86	53.98	54.59	0.61	190	2.0											110																				
3062	2000	53.98	54.46	0.48	165	1.9	0.10	226	< 3	11		7	0.03	< .2	7	11	64	4.16		< .01	< 1	< .01	38	1	0.01	8	0.002	159	6	27	< 2	< .01		< 8	2	2	25
3063	2000	54.59	56.16	1.57	237	3.7	0.11	228	< 3	10		7	0.03	0.8	6	14	118	4.50		0.01	< 1	< .01	32	5	0.01	10	0.004	275	23	29	< 2	< .01		< 8	1	< 2	129
3064	2000	56.16	57.00	0.84	378	4.0	0.10	249	4	9		10	0.03	1.5	6	13	266	5.77		0.01	< 1	< .01	37	1	0.01	8	0.007	425	86	26	< 2	< .01		< 8	1	3	256
57-58	A94	57.00	58.00	1.0	838	14.0	0.07	394	1	12	0.4	17	0.03	19.2	5	162	590	5.65	1	0.01		0.01	11	1	0.01	25	0.003	729	86	20	1	0.01			2	8	3524
Thom 5-25	W86	57.30	58.22	0.92	2610	20.4											440																				
58-59	A94	58.00	59.00	1.0	4920	42.7	0.06	320	1	6	0.4	22	0.03	0.1	6	209	537	8.33	1	0.01		0.01	1	1	0.01	34	0.004	719	134	15	1	0.01			1	40	383
Thom 5-26	W86	58.22	59.18	0.96	3500	46.0											670																				
59-60	A94	59.00	60.00	1.0	1608	20.5	0.06	260	1	12	0.3	16	0.02	5.6	5	136	366	5.16	1	0.01		0.01	8	1	0.01	23	0.004	451	64	18	1	0.01			2	7	2058
Thom 5-27	W86	59.64	60.54	0.90	1060	11.9											300																				
60-61	A94	60.00	61.00	1.0	905	9.7	0.07	202	1	15	0.1	13	0.02	0.1	6	210	374	6.53	1	0.01		0.01	1	1	0.01	30	0.001	268	24	19	1	0.01			2	10	185
Thom 5-28	W86	60.54	61.46	0.92	900	10.3											420																				
61-62	A94	61.00	62.00	1.0	835	9.5	0.08	140	1	11	0.2	11	0.02	0.1	7	153	379	7.94	1	0.01		0.01	1	1	0.01	36	0.001	488	13	19	1	0.01			2	7	221
Thom 5-29	W86	61.46	62.18	0.72	730	10.8											410																				
62-63	A94	62.00	63.00	1.0	509	5.0	0.14	323	1	65	0.1	8	0.04	0.1	7	209	220	4.91	1	0.01		0.01	10	4	0.01	23	0.002	460	8	33	1	0.01			2	10	369
Thom 5-30	W86	62.18	62.74	0.56	800	8.0											340																				
3065	2000	63.00	63.40	0.40	168	1.4	0.21	198	3	13		4	0.03	< .2	9	19	63	5.58		< .01	< 1	< .01	34	7	< .01	14	0.002	128	4	42	< 2	< .01		< 8	2	< 2	90

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Thorn 5-31	W86	63.40	64.45	1.05	1040	13.2											630																				
63.5-64.5	A94	63.50	64.50	1.0	826	17.5	0.23	505	1	30	0.4	11	0.04	0.1	6	168	981	5.00	1	0.01		0.01	13	1	0.01	27	0.005	143	166	35	1	0.01			3	8	1225
3066	2000	64.50	65.30	0.80	89	1.0	0.14	253	3	12		3	0.04	< .2	9	10	22	4.17		< .01	< 1	< .01	32	1	0.01	9	0.006	57	< 3	39	< 2	< .01		< 8	2	2	14
3067	2000	65.30	66.80	1.50	88	1.8	0.14	261	< 3	14		5	0.05	< .2	8	10	33	4.46		< .01	< 1	< .01	28	5	0.01	10	0.011	122	5	39	< 2	< .01		< 8	2	< 2	88
3068	2000	66.80	68.30	1.50	96	4.3	0.13	255	3	5		9	0.08	0.2	9	8	158	4.22		0.01	< 1	< .01	32	2	0.01	8	0.027	104	40	35	2	< .01		< 8	2	< 2	43
3069	2000	68.30	69.29	0.99	77	2.5	0.14	236	< 3	12		9	0.06	< .2	9	10	88	4.32		0.01	1	< .01	30	4	0.01	10	0.018	61	23	38	2	< .01		< 8	2	< 2	19
3070	2000	69.29	69.98	0.69	89	1.1	0.17	246	< 3	34		5	0.07	< .2	9	9	34	4.20		0.01	< 1	< .01	38	3	0.01	8	0.021	44	< 3	49	< 2	< .01		< 8	2	< 2	6
3070	2000	69.29	69.98	0.69	87	1.1	0.17	244	< 3	35		5	0.07	< .2	9	8	34	4.20		0.01	< 1	< .01	38	2	0.01	8	0.021	41	< 3	48	< 2	< .01		< 8	2	2	6
3070	2000	69.29	69.98	0.69	94	1.0	0.18	251	< 3	36		5	0.07	< .2	9	11	36	4.29		0.01	< 1	< .01	36	5	0.01	10	0.021	47	< 3	50	< 2	< .01		< 8	2	< 2	7
3070C	2000	69.29	69.98	0.69	90	1.1	0.17	247	< 3	35		5	0.07	< .2	9	9	35	4.23		0.01	< 1	< .01	37	3	0.01	9	0.021	44	< 3	49	< 2	< .01		< 8	2	2	6
3071	2000	69.98	71.50	1.52	90	2.5	0.13	308	3	29		8	0.07	< .2	9	7	111	4.36		0.01	1	< .01	36	3	0.01	7	0.023	62	24	45	2	< .01		< 8	2	< 2	23
3072	2000	71.50	73.00	1.50	74	2.4	0.15	197	< 3	12		6	0.12	0.3	9	11	68	5.05		0.01	< 1	< .01	43	6	0.01	10	0.046	143	13	50	< 2	< .01		< 8	2	< 2	93
3073	2000	73.00	74.30	1.30	39	0.6	0.15	97	< 3	15		3	0.09	< .2	8	9	18	3.47		< .01	< 1	< .01	31	2	0.01	8	0.026	55	< 3	61	< 2	< .01		< 8	2	< 2	33
Thorn 5-32	W86	74.30	74.59	0.29	180	4.4											30																				
3074	2000	74.30	74.83	0.53	128	2.6	0.18	217	< 3	18		12	0.13	2.5	14	14	40	7.48		0.02	< 1	< .01	41	7	0.01	15	0.049	425	6	52	< 2	< .01		< 8	2	< 2	1187
3075	2000	74.83	75.85	1.02	69	1.3	0.15	148	6	31		5	0.19	< .2	8	6	30	5.01		0.02	1	0.01	47	3	0.01	7	0.078	157	5	52	2	< .01		< 8	2	2	64
3076	2000	75.85	77.57	1.72	104	3.6	0.16	169	< 3	26		13	0.21	0.3	9	10	68	4.90		0.02	< 1	< .01	43	4	0.01	10	0.089	136	9	52	< 2	< .01		< 8	2	2	153
Thorn 5-33	W86	77.57	78.03	0.46	170	12.0											100																				
DDH 86-6																																					
OB		0.00	13.00	13.00																																	
3257	2000	13.00	14.50	1.50	25	1.5	0.57	104	< 3	32		< 3	0.31	19.4	8	9	117	3.26		0.24	2	0.11	10435	3	0.02	3	0.085	1132	4	29	< 2	< .01		< 8	7	2	2250
3258	2000	14.50	16.00	1.50	20	0.5	0.66	86	< 3	78		< 3	0.62	6.8	6	5	137	2.68		0.32	2	0.25	8462	1	0.02	3	0.075	267	< 3	34	< 2	< .01		< 8	6	2	774
3259	2000	16.00	17.50	1.50	14	0.6	0.62	76	3	76		4	0.49	2.0	7	7	19	2.82		0.31	2	0.18	6345	2	0.02	3	0.079	198	< 3	32	< 2	< .01		< 8	6	2	420
3260	2000	16.00	17.50	1.50	15	0.5	0.62	81	< 3	76		4	0.45	4.1	7	5	21	2.95		0.32	2	0.16	6568	1	0.02	4	0.081	249	< 3	33	< 2	< .01		< 8	6	2	803
3259/60	2000	16.00	17.50	1.50	15	0.6	0.62	79	3	76		4	0.47	3.1	7	6	20	2.89		0.32	2	0.17	6457	2	0.02	4	0.080	224	< 3	33	< 2	< .01		< 8	6	2	612
3261	2000	17.50	19.00	1.50	19	1.0	0.54	77	3	64		4	0.59	13.9	6	6	33	2.86		0.26	2	0.21	7207	1	0.02	3	0.074	763	< 3	42	< 2	< .01		< 8	5	< 2	2078
3262	2000	19.00	20.50	1.50	6	0.9	0.51	67	< 3	70		4	0.67	0.8	6	4	18	2.75		0.25	2	0.25	10889	1	0.02	3	0.073	143	< 3	38	< 2	< .01		< 8	5	2	326
3263	2000	20.50	22.00	1.50	15	1.2	0.49	85	4	69		5	0.27	12.6	6	5	37	3.04		0.26	3	0.09	9261	1	0.02	3	0.081	713	< 3	40	2	< .01		< 8	6	< 2	1642
3264	2000	22.00	23.90	1.90	5	1.0	0.65	68	< 3	79		3	0.76	1.0	6	6	22	2.66		0.27	3	0.40	11937	1	0.02	3	0.075	189	< 3	45	< 2	< .01		< 8	6	< 2	304
3265	2000	23.90	25.88	1.98	5	0.8	0.46	104	< 3	67		3	0.23	0.8	6	5	11	2.98		0.24	3	0.09	5957	1	0.02	3	0.077	148	< 3	48	< 2	< .01		< 8	6	5	211
Thorn 6-1A	W86	25.88	26.34	0.46	20	14.3											1300																				
3266	2000	26.34	27.62	1.28	21	1.7	0.33	129	< 3	43		7	0.16	15.5	7	6	105	3.51		0.17	1	0.02	109	< 1	0.02	4	0.048	885	22	58	< 2	< .01		< 8	3	2	1819
Thorn 6-1B	W86	27.62	27.86	0.24	70	3.9											80																				
3267	2000	27.86	29.50	1.64	23	2.9	0.41	171	< 3	56		7	0.21	15.9	6	7	223	3.15		0.24	2	0.03	305	1	0.02	3	0.079	1270	38	54	2	< .01		< 8	4	< 2	2140
3268	2000	29.50	30.60	1.10	9	1.0	0.40	117	< 3	67		< 3	0.24	3.9	7	4	18	3.06		0.23	2	0.07	6690	1	0.02	3	0.078	354	< 3	59	< 2	< .01		< 8	5	< 2	680
3269	2000	30.60	31.60	1.00	12	1.5	0.43	126	< 3	78		3	0.26	1.1	7	6	47	3.03		0.25	3	0.10	13789	1	0.02	3	0.078	214	5	56	< 2	< .01		< 8	5	2	247
Thorn 6-2	W86	31.60	32.31	0.71	200	18.1											660																				
3270	2000	32.31	33.94	1.63	59	5.8	0.34	180	5	32		12	0.15	13.6	7	9	228	4.66		0.18	1	0.02	88	2	0.01	4	0.045	135	46	58	2	< .01		< 8	4	2	1499
3270	2000	32.31	33.94	1.63	59	5.9	0.33	180	< 3	32		13	0.15	13.5	7	11	229	4.66		0.18	1	0.02	80	1	0.01	4	0.044	136	47	58	< 2	< .01		< 8	4	2	1513
3270	2000	32.31	33.94	1.63	61	5.7	0.34	184	< 3	32		13	0.15	12.6	7	5	240	4.73		0.18	1	0.02	75	1	0.02	4	0.044	127	47	57	< 2	< .01		< 8	4	2	1410
3270C	2000	32.31	33.94	1.63	60	5.8	0.34	181	4	32		13	0.15	13.2	7	8	232	4.68		0.18	1	0.02	81	1	0.01	4	0.044	133	47	58	2	< .01		< 8	4	2	1474
Thorn 6-3	W86	33.94	34.73	0.79	20	3.7											140																				
Thorn 6-4	W86	34.73	34.97	0.24	650	66.5											12900																				
3271	2000	34.97	35.30	0.33	78	6.8	0.21	336	3	16		42	0.10	5.4	12	6	1139	5.55		0.09	1	0.01	49	< 1	0.01	4	0.027	82	247	52	< 2	< .01		< 8	3	2	417
Thorn 6-5	W86	35.30	35.79	0.49																																	
Thorn 6-6	W86	35.79	36.35	0.56	120	46.0											3640																				
3272	2000	36.35	38.05	1.70	107	2.1	0.39	176	< 3	69		4	0.24	7.1	6	10	33	2.98		0.20	9	0.03	463	2	0.02	3	0.088	483	4	74	3	< .01		< 8	5	3	968
3273	2000	38.05	39.75	1.70	29	1.4	0.42	143	< 3	80		6	0.30	3.2	5	7	12	3.12		0.22	15	0.07	6197	1	0.02	4	0.088	317	< 3	71	3	< .01		< 8	8	2	494
3274	2000	39.75	41.45	1.70	32	0.8	0.48	117	< 3	75		8	1.11	1.5	7	8	10	2.98		0.25	14	0.33	10197	2	0.02	3	0.084	151	< 3	69	3	< .01		< 8	10	2	236
Thorn 6-7A	W86	41.45	42.00	0.55	20	4.1											80																				
3275	2000	42.00	43.60	1.60	10	0.7	0.42	82	3	65		7	1.67	0.7	5	5	9	2.78		0.23	11	0.62	5806	1	0.02	3	0.080	84	< 3	73	3	< .01		< 8	10	4	132
3276	2000	43.60	45.20	1.60	16	1.1	0.42	73	< 3	75		5	0.63	1.0	5	11	11	2.86		0.22	14	0.16	4857	2	0.02	3	0.087	130	< 3	81	3	< .01		< 8	11	5	190
3277	2000	45.20	46.80	1.60	22	1.3	0.45	83	< 3	78		3	0.29	2.6	8	6	18	3.12		0.23	14	0.07	4847	1	0.02	4	0.086	249	< 3	82	3	< .01		< 8	9	< 2	490
3278	2000	46.80	48.82	2.02	35	4.0	0.32	102	< 3	43		10	0.20	10.7	8	6	89	3.80		0.15	4	0.02	77	2	0.02	4	0.072	501	24	70	2	< .01		< 8	4	< 2	1352
Thorn 6-7B	W86	48.82	49.61	0.79	20	1.7											60																				
Thorn 6-8	W86	49.61	49.78	0.17	10	1.6											40																				
3279	2000	49.78	51.30	1.52	41	0.4	0.16	70	< 3	40		< 3	0.05	0.2	7	8	32	4.00		0.03	< 1	0.01	39	1	0.01	4	0.012	91	< 3	38	2	< .01		< 8	2	3	47
3280	2000	49.78	51.30	1.52	27	0.4	0.18	62	< 3	52		< 3	0.05	0.2	6	10	17	3.34		0.03	1	0.01	34	2	0.01	3	0.012	90	< 3	42	< 2	< .01		< 8	3	3	40
3279/80	2000	49.78	51.30	1.52	34	0.4	0.17	66	<3	46		<3	0.05	0.2	7	9	25	3.67		0.03	1	0.01	37	2	0.01	4	0.012	91	< 3	40	1	< .01		< 8	3	3	44
3281	2000	51.30	52.90	1.60	53	0.3	0.17	63	< 3	26		4	0.03	< .2	7	6	26	5.21		0.03	< 1	0.01	28	1	0.01	4	0.006	93	< 3	30	< 2	< .01		< 8	2	3	35
3282	2000	52.90	54.50	1.60	28	1.0	0.16	133	3	31		7	0.03	< .2	6	9	266	4.82		0.03	1	< .01	33	1	0.01	4	0.005	70	32	32	< 2	< .01		< 8	3	3	46
3282	2000	52.90	54.50	1.60	26	1.0	0.17	137	< 3	32		7	0.03	< .2	6	10	278	4.86		0.03	1	< .01	33	2	0.01	3	0.006	68	33	32	< 2	< .01		< 8	3	3	47
3282	2000	52.90	54.50	1.60	23	1.0	0.16	145	< 3	30		7	0.03	< .2	6	7	298	4.82		0.03	< 1	< .01	30	1	0.01	4	0.005	63	37	32	< 2	< .01		< 8	3	2	48

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3282C	2000	52.90	54.50	1.60	26	1.0	0.16	138	3	31		7	0.03	< .2	6	9	281	4.83		0.03	1	< .01	32	1	0.01	4	0.005	67	34	32	< 2	< .01		< 8	3	3	47
3283	2000	54.50	56.10	1.60	28	0.9	0.14	100	5	15		14	0.03	< .2	5	8	32	7.95		0.03	1	< .01	23	3	0.01	3	0.003	45	6	27	< 2	< .01		< 8	3	2	22
3284	2000	56.10	57.55	1.45	62	1.0	0.14	122	6	8		8	0.03	< .2	7	8	36	8.08		0.03	1	< .01	21	1	0.01	4	0.005	79	7	23	< 2	< .01		< 8	4	2	19
Thom 6-9	W86	57.55	58.09	0.54	30	2.3											180																				
58-59	A94	58.00	59.00	1.0	240	6.3	0.23	687	1	16	0.3	8	0.07	0.1	6	142	887	7.50	1	0.04		0.01	1	1	0.01	28	0.011	155	98	30	1	0.01			6	7	222
Thom 6-10	W86	58.09	58.87	0.78	60	16.0											2320																				
3285	2000	58.87	60.52	1.65	64	0.6	0.20	230	< 3	26		6	0.02	< .2	9	8	33	5.71		0.03	< 1	< .01	25	2	0.01	5	0.003	65	< 3	33	< 2	< .01		< 8	4	3	24
Thom 6-11	W86	60.52	61.18	0.66	110	3.9											260																				
3286	2000	61.18	62.90	1.72	82	0.7	0.17	313	4	8		5	0.03	< .2	9	12	27	6.04		0.05	< 1	< .01	32	2	0.01	7	0.003	65	< 3	36	< 2	< .01		< 8	3	3	29
3287	2000	62.90	64.67	1.77	59	0.6	0.15	299	5	7		9	0.03	< .2	11	9	29	6.34		0.04	< 1	< .01	27	3	0.01	7	0.001	54	5	45	< 2	< .01		< 8	2	2	28
Thom 6-12A	W86	64.67	65.08	0.41	400	25.8											9100																				
Thom 6-12B	W86	65.07	66.64	1.57	20	4.0											140																				
66-67	A94	66.00	67.00	1.0	380	1.3	0.19	512	1	20	0.2	1	0.09	0.1	13	111	329	13.44	1	0.08		0.01	14	1	0.01	51	0.003	60	1	32	1	0.01			3	4	40
Thom 6-13A	W86	66.64	67.58	0.94	1950	36.4											4830																				
67-68	A94	67.00	68.00	1.0	1960	44.7	0.18	3130	1	4	0.1	1	0.04	0.1	15	152	6862	15.00	1	0.08		0.01	1	1	0.01	81	0.001	235	261	18	1	0.01			3	4	524
Thom 6-13B	W86	67.58	67.88	0.30	790	28.8											29600																				
Thom 6-14A	W86	67.88	68.04	0.16	60	5.4											2500																				
3288	2000	68.04	69.01	0.97	95	4.5	0.23	484	3	29		12	0.06	2.8	6	11	939	7.41		0.09	< 1	0.01	36	2	0.02	9	0.005	188	49	71	< 2	< .01		< 8	2	5	134
Thom 6-14B	W86	69.01	69.35	0.34	4475	561.5											117100																				
3289	2000	69.35	70.29	0.94	36	1.0	0.23	163	3	20		4	0.07	< .2	5	19	141	4.13		0.10	< 1	0.01	44	3	0.02	6	0.012	94	5	71	< 2	< .01		< 8	2	4	21
Thom 6-15	W86	70.29	70.71	0.42	500	40.0											14300																				
70.5-71.5	A94	70.50	71.50	1.0	4180	156.6	0.17	10000	1	1	0.1	210	0.04	100.0	14	100	10000	15.00	1	0.09		0.01	780	1	0.01	82	0.064	482	3199	45	1	0.01			4	6	1063
Thom 6-16	W86	70.71	71.35	0.64	4650	215.5											61500																				
Thom 6-17	W86	71.35	71.78	0.43	1175	200.5											56950																				
3290	2000	71.78	73.30	1.52	35	1.1	0.23	186	4	49		< 3	0.05	< .2	6	10	40	3.80		0.10	< 1	0.01	29	1	0.02	4	0.005	64	6	69	< 2	< .01		< 8	1	2	15
3291	2000	73.30	74.80	1.50	21	3.3	0.34	199	3	100		< 3	0.20	2.1	6	11	209	3.60		0.17	3	0.02	61	2	0.02	3	0.063	282	26	96	< 2	< .01		< 8	2	2	238
3292	2000	74.80	76.40	1.60	17	3.0	0.32	197	4	80		3	0.17	16.8	8	5	47	4.07		0.16	< 1	0.02	33	5	0.02	4	0.048	1388	9	90	< 2	< .01		< 8	2	< 2	2746
3293	2000	76.40	77.80	1.40	34	2.1	0.33	282	3	82		3	0.11	2.3	5	12	540	3.80		0.16	< 1	0.02	25	3	0.02	4	0.019	133	79	105	< 2	< .01		< 8	2	2	229
3294	2000	77.80	79.20	1.40	34	2.8	0.36	273	4	80		< 3	0.21	7.0	7	7	65	3.61		0.19	5	0.03	44	2	0.02	4	0.062	800	14	104	< 2	< .01		< 8	2	< 2	1119
3295	2000	79.20	80.60	1.40	41	4.0	0.37	249	< 3	73		5	0.23	13.3	7	7	152	3.73		0.19	4	0.03	30	3	0.02	4	0.071	854	26	114	< 2	< .01		< 8	3	< 2	1681
3296	2000	80.60	82.10	1.50	48	2.5	0.39	241	4	65		4	0.34	1.0	7	8	299	4.15		0.22	1	0.03	123	1	0.03	5	0.066	194	25	115	< 2	< .01		< 8	3	2	71
3297	2000	82.10	83.80	1.70	93	1.2	3.19	178	< 3	116		< 3	5.91	1.3	24	55	628	7.76		0.12	28	2.61	2830	2	0.04	49	0.274	28	8	360	< 2	0.02		9	132	3	191
3298	2000	83.80	85.50	1.70	125	21.8	1.80	321	4	104		32	2.84	8.9	15	50	3152	5.63		0.17	13	1.48	1514	2	0.04	38	0.161	282	312	207	< 2	0.01		< 8	69	< 2	853
3299	2000	85.50	87.30	1.80	3	< .3	3.30	17	< 3	528		< 3	4.62	0.5	24	115	47	5.57		0.13	28	3.10	2396	1	0.05	86	0.206	8	4	312	< 2	0.02		< 8	126	< 2	112
3300	2000	85.50	87.30	1.80	29	1.1	2.52	57	3	197		< 3	4.47	1.1	19	93	649	5.77		0.12	18	2.33	1994	1	0.04	68	0.173	12	6	284	< 2	0.02		< 8	105	< 2	117
3299/3300	2000	85.50	87.30	1.80	16	1.1	2.91	37	3	363		<3	4.55	0.8	22	104	348	5.67		0.13	23	2.72	2195	1	0.05	77	0.190	10	5	298	< 2	0.02		< 8	116	< 2	115
3301	2000	87.30	89.00	1.70	30	0.6	1.20	53	6	277		4	2.44	0.2	15	7	248	4.09		0.27	9	0.90	1444	2	0.02	7	0.114	37	< 3	168	3	< .01		< 8	23	< 2	72
DDH 86-7																																					
OB		0.00	11.00	11.00																																	
11-12	A94	11.00	12.00	1.0	2862	86.9	0.12	10000	1	2	0.1	32	0.17	100.0	13	150	10000	15.00	1	0.04		0.01	129	1	0.01	74	0.001	70	1742	18	1	0.01			9	8	344
Thom 7-1	W86	11.16	11.65	0.49	3150	109.0											63400																				
Thom 7-2	W86	11.65	12.37	0.72	280	15.7											4300																				
12-13	A94	12.00	13.00	1.0	207	11.3	0.12	2041	1	17	0.3	14	0.06	0.1	7	142	3744	9.31	1	0.03		0.01	24	1	0.01	36	0.007	65	141	28	1	0.01			3	7	42
3150	2000	13.00	14.00	1.00	85	5.0	0.19	256	< 3	33		7	0.06	23.7	6	9	670	4.18		0.05	< 1	0.01	47	3	0.01	3	0.011	395	42	27	< 2	< .01		< 8	3	2	2484
3151	2000	14.00	15.00	1.00	76	10.3	0.16	128	< 3	31		28	0.05	2.0	7	8	243	4.25		0.02	< 1	0.01	37	1	0.01	4	0.008	89	67	29	< 2	< .01		< 8	2	4	149
15-16	A94	15.00	16.00	1.0	214	35.9	0.14	4059	1	33	0.2	11	0.11	20.9	7	204	6983	6.33	1	0.02		0.01	26	1	0.01	28	0.025	105	1030	35	1	0.01			5	11	551
3152	2000	16.00	17.00	1.00	38	1.4	0.19	86	< 3	52		8	0.08	0.3	6	12	133	3.17		0.02	< 1	0.01	38	4	0.01	4	0.029	65	26	45	< 2	< .01		< 8	1	4	28
3153	2000	17.00	18.00	1.00	82	4.6	0.18	344	< 3	39		5	0.15	0.6	9	9	905	4.22		0.02	< 1	0.01	48	3	0.01	5	0.055	62	192	41	< 2	< .01		< 8	2	4	61
18-19	A94	18.00	19.00	1.0	434	47.3	0.24	7452	1	20	0.2	20	0.12	50.1	7	118	10000	6.85	1	0.04		0.01	14	1	0.01	28	0.025	138	1711	36	1	0.01			5	6	1248
3154	2000	19.00	20.00	1.00	153	4.7	0.28	295	3	25		11	0.14	0.6	8	13	646	5.27		0.03	< 1	0.01	46	5	0.01	6	0.046	83	111	32	< 2	< .01		< 8	3	4	84
3155	2000	20.00	21.64	1.64	42	2.0	0.22	161	8	19		8	0.14	0.3	9	10	154	4.00		0.04	< 1	0.01	52	1	0.01	5	0.048	93	31	36	< 2	< .01		< 8	3	3	32
3156	2000	21.64	23.22	1.58	41	4.9	0.20	158	6	18		3	0.14	1.0	8	10	112	3.98		0.04	< 1	0.01	43	1	0.01	4	0.046	127	25	37	< 2	< .01		< 8	2	3	54
3157	2000	23.22	24.80	1.58	23	6.2	0.53	76	4	23		< 3	0.27	23.5	8	7	88	3.63		0.25	1	0.04	78	1	0.02	4	0.080	1649	18	47	2	< .01		< 8	5	< 2	2914
3158	2000	24.80	26.30	1.50	6	0.3	2.90	41	< 3	565		< 3	4.08	2.7	27	69	42	6.76		0.08	33	2.94	5036	1	0.09	54	0.300	131	6	151	< 2	0.23		< 8	162	< 2	437
3159	2000	26.30	27.50	1.20	4	< .3	2.84	35	< 3	551		< 3	3.09	0.8	25	108	42	5.82		0.05	29	3.07	4555	2	0.08	74	0.243	18	5	113	< 2	0.15		< 8	140	3	169
3160	2000	26.30	27.50	1.20	5	0.5	2.85	32	< 3	391		< 3	3.21	1.1	24	104	59	5.65		0.07	29	3.05	4666	1	0.07	69	0.231	38	3	127	2	0.14		< 8	134	< 2	210
3159/60	2000	26.30	27.50	1.20	5	0.5	2.85	34	<3	471		<3	3.15	1.0	25	106	51	5.74		0.06	29	3.06	4611	2	0.08	72	0.237	28	4	120	2	0.15		< 8	137	3	190
3161	2000	27.50	28.67	1.17	3	< .3	2.60	34	< 3	558		< 3	2.65	1.1	25	97	51	5.94		0.04	32	3.37	5088	1	0.08	70	0.246	36	8	105	< 2	0.33		< 8	137	< 2	259
3162	2000	28.67	30.17	1.50	1	< .3	2.60	18	< 3	191		< 3	2.25	0.8	33	86	41	7.29		0.07	39	3.74	3605	2	0.06	77	0.202	12	6	104	< 2	0.27		< 8	155	2	153
3163	2000	30.17	31.67	1.50	1	< .3	2.13	14	< 3	82		< 3	2.06	0.9	28	70	37	6.55		0.07	39	3.07	2428	2	0.07	63	0.184	16	8	89	< 2	0.37		< 8	146	3	140
3164	2000	31.67	33.17	1.50	1	< .3	2.28	20	< 3	159		< 3	2.02	1.2	29	69	40	6.79		0.10	40	2.94	2550	2	0.07	63	0.179	32	7	93	< 2	0.42		< 8	157	4	183
3165	2000	33.17	34.76	1.59	3	0.3	2.41	20	< 3	151		< 3	2.07	1.3	29	83	43	6.89		0.08	38	3.07	3485	1	0.08	69	0.171	55	5	94	< 2	0.41		< 8	157	< 2	208

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3166	2000	34.76	35.44	0.68	11	1.2	1.52	55	3	83		< 3	0.62	6.4	14	13	27	3.62		0.30	21	0.84	2448	4	0.09	13	0.091	560	< 3	83	6	0.07		< 8	31	< 2	577
3166	2000	34.76	35.44	0.68	10	1.1	1.44	54	6	90		< 3	0.60	6.1	13	10	26	3.48		0.29	20	0.81	2334	4	0.08	12	0.089	533	< 3	79	6	0.07		< 8	29	< 2	536
3166	2000	34.76	35.44	0.68	12	1.3	1.49	53	4	82		< 3	0.61	7.1	13	13	28	3.52		0.30	19	0.83	2421	3	0.09	13	0.089	577	< 3	80	5	0.07		< 8	30	< 2	620
3166C	2000	34.76	35.44	0.68	11	1.2	1.48	54	4	85		< 3	0.61	6.5	13	12	27	3.54		0.30	20	0.83	2401	4	0.09	13	0.090	557	< 3	81	6	0.07		< 8	30	< 2	578
3167	2000	35.44	36.32	0.88	10	0.5	2.96	44	< 3	42		< 3	2.54	1.9	25	114	50	5.84		0.03	35	3.34	6492	1	0.09	74	0.217	135	5	91	< 2	0.38		< 8	143	< 2	454
3168	2000	36.32	38.07	1.75	4	0.5	0.75	42	< 3	41		< 3	0.72	0.9	6	4	11	2.82		0.29	12	0.17	1713	1	0.04	6	0.083	120	3	54	5	< .01		< 8	7	4	162
3169	2000	38.07	39.82	1.75	3	0.4	0.92	26	4	37		< 3	1.17	0.5	6	11	10	2.66		0.35	13	0.32	4326	1	0.04	7	0.085	90	< 3	64	5	< .01		< 8	9	3	101
3170	2000	39.82	41.00	1.18	3	0.4	0.83	28	4	73		< 3	0.84	0.6	6	6	11	2.50		0.32	13	0.25	3092	1	0.04	8	0.088	71	< 3	64	6	< .01		< 8	8	3	109
3171	2000	41.00	41.58	0.58	6	0.9	0.77	37	3	35		< 3	0.43	1.6	8	7	10	3.12		0.33	15	0.17	2584	2	0.03	8	0.090	195	< 3	57	6	< .01		< 8	7	2	293
3172	2000	41.58	43.08	1.50	4	0.7	1.06	34	< 3	72		< 3	1.64	2.0	7	8	25	2.51		0.34	14	0.56	5056	1	0.05	7	0.078	187	6	72	6	< .01		< 8	12	< 2	251
3173	2000	43.08	44.10	1.02	2	0.5	1.04	37	5	61		< 3	1.52	0.8	7	9	10	2.67		0.32	15	0.56	4596	2	0.05	7	0.083	76	< 3	75	6	< .01		< 8	11	< 2	164
3174	2000	44.10	45.71	1.61	5	0.5	1.52	38	3	91		< 3	1.44	2.6	9	12	15	3.42		0.29	20	1.05	4322	2	0.08	12	0.107	186	< 3	80	6	0.12		< 8	36	< 2	321
3175	2000	45.71	47.19	1.48	1	< .3	2.10	16	< 3	108		< 3	3.22	1.0	25	40	35	6.72		0.07	40	2.64	5126	2	0.06	32	0.210	15	7	90	< 2	0.31		< 8	154	< 2	187
3176	2000	47.19	48.69	1.50	1	< .3	2.28	12	< 3	146		< 3	3.12	0.8	27	42	35	6.90		0.07	41	3.03	3610	2	0.06	43	0.225	17	5	111	< 2	0.27		< 8	144	2	134
3177	2000	48.69	50.19	1.50	1	< .3	2.58	12	< 3	81		< 3	4.04	1.0	33	70	37	7.55		0.05	39	3.71	3210	2	0.07	64	0.179	26	4	135	< 2	0.30		< 8	177	3	158
3178	2000	50.19	51.69	1.50	1	< .3	2.37	14	< 3	481		< 3	4.61	1.1	29	58	35	7.22		0.04	41	3.29	3253	1	0.07	52	0.181	32	5	142	< 2	0.30		< 8	169	3	161
3178	2000	50.19	51.69	1.50	2	< .3	2.37	11	< 3	492		< 3	4.61	1.1	30	59	33	7.22		0.04	41	3.29	3262	1	0.07	53	0.180	36	3	143	< 2	0.30		< 8	170	2	161
3178	2000	50.19	51.69	1.50	2	< .3	2.34	13	< 3	514		< 3	4.52	1.1	29	56	33	7.09		0.04	41	3.25	3175	1	0.06	51	0.179	34	3	141	< 2	0.29		< 8	166	2	156
3178C	2000	50.19	51.69	1.50	2	< .3	2.36	13	< 3	496		< 3	4.58	1.1	29	58	34	7.18		0.04	41	3.28	3230	1	0.07	52	0.180	34	4	142	< 2	0.30		< 8	168	2	159
3179	2000	51.69	53.19	1.50	1	< .3	2.14	8	< 3	312		< 3	4.25	0.9	25	44	34	6.69		0.09	42	2.81	2485	1	0.06	34	0.180	27	5	129	< 2	0.31		< 8	154	2	131
3180	2000	51.69	53.19	1.50	0	< .3	2.17	10	< 3	394		< 3	4.16	0.7	25	43	34	6.78		0.09	42	2.86	2571	1	0.06	34	0.184	27	5	129	< 2	0.29		< 8	155	3	134
3179/80	2000	51.69	53.19	1.50	1	<.3	2.16	9	<3	353		<3	4.21	0.8	25	44	34	6.74		0.09	42	2.84	2528	1	0.06	34	0.182	27	5	129	< 2	0.30		< 8	155	3	133
3181	2000	53.19	54.69	1.50	1	< .3	2.15	8	< 3	641		< 3	5.17	0.9	25	49	32	6.55		0.10	39	2.67	2326	2	0.06	41	0.169	26	3	158	< 2	0.31		< 8	148	2	123
3182	2000	54.69	56.19	1.50	1	< .3	2.19	7	< 3	531		< 3	4.92	0.7	26	55	34	6.74		0.09	40	2.92	2272	2	0.05	44	0.175	16	3	150	< 2	0.28		< 8	151	3	116
3183	2000	56.19	57.91	1.72	1	< .3	2.44	12	< 3	662		< 3	3.65	0.9	29	73	34	7.04		0.07	39	3.65	2826	1	0.06	56	0.191	30	4	144	< 2	0.27		< 8	150	2	141
3184	2000	57.91	59.20	1.29	2	< .3	2.16	17	< 3	206		< 3	3.21	0.5	23	52	29	5.89		0.09	34	2.75	3053	1	0.07	42	0.154	23	5	119	< 2	0.25		< 8	133	< 2	130
3185	2000	59.20	60.20	1.00	2	< .3	2.46	14	< 3	96		< 3	3.85	0.6	28	52	32	6.61		0.07	29	3.12	4169	1	0.06	47	0.170	11	4	122	< 2	0.21		< 8	154	< 2	117
3186	2000	60.20	61.89	1.69	7	0.4	0.72	41	< 3	45		< 3	1.73	0.5	6	5	9	2.92		0.25	14	0.22	2824	1	0.03	5	0.081	133	< 3	80	4	< .01		< 8	9	2	133
3187	2000	61.89	63.50	1.61	7	1.2	0.57	45	< 3	28		< 3	0.47	4.3	6	4	30	3.03		0.22	6	0.07	385	1	0.03	7	0.084	346	7	79	4	< .01		< 8	4	< 2	633
3188	2000	63.50	65.00	1.50	27	2.1	0.58	97	< 3	22		8	0.39	4.5	6	4	42	3.50		0.22	10	0.05	270	2	0.03	6	0.086	515	7	85	4	< .01		< 8	4	< 2	815
3189	2000	65.00	66.50	1.50	13	2.0	0.53	48	< 3	27		3	1.16	5.2	6	4	37	2.88		0.20	5	0.06	1536	1	0.03	6	0.078	484	8	107	3	< .01		< 8	4	< 2	812
3190	2000	66.50	68.00	1.50	10	1.0	0.57	43	5	24		< 3	0.32	2.7	5	4	22	2.99		0.20	3	0.04	74	1	0.03	7	0.078	292	4	93	3	< .01		< 8	3	< 2	476
3191	2000	68.00	69.50	1.50	8	0.4	0.65	32	< 3	33		< 3	2.16	1.8	6	2	16	2.74		0.21	11	0.08	2082	< 1	0.04	6	0.075	131	< 3	143	4	< .01		< 8	4	< 2	262
3192	2000	69.50	71.00	1.50	2	< .3	0.65	12	< 3	50		< 3	3.50	< .2	5	5	7	2.30		0.17	14	0.11	2889	1	0.05	4	0.074	65	< 3	850	3	< .01		< 8	4	2	71
3193	2000	71.00	72.50	1.50	4	< .3	0.72	23	< 3	59		< 3	4.07	0.2	5	2	8	2.30		0.17	15	0.16	2863	< 1	0.06	4	0.074	50	< 3	1920	3	< .01		12	6	< 2	80
3194	2000	72.50	74.00	1.50	4	0.3	0.63	24	< 3	59		< 3	2.97	0.3	6	7	12	2.46		0.17	14	0.15	2424	1	0.06	6	0.074	66	< 3	1806	4	< .01		14	5	2	98
3194	2000	72.50	74.00	1.50	3	< .3	0.63	23	< 3	54		< 3	2.99	0.3	6	6	13	2.45		0.17	14	0.15	2433	1	0.05	6	0.075	68	< 3	1808	3	< .01		13	4	2	100
3194	2000	72.50	74.00	1.50	4	< .3	0.67	25	< 3	59		< 3	3.07	0.3	6	3	13	2.51		0.19	14	0.15	2505	< 1	0.06	6	0.077	71	< 3	1869	3	< .01		11	4	2	111
3194C	2000	72.50	74.00	1.50	4	0.3	0.64	24	< 3	57		< 3	3.01	0.3	6	5	13	2.47		0.18	14	0.15	2454	1	0.06	6	0.075	68	< 3	1828	3	< .01		12.7	4	2	103
3195	2000	74.00	75.50	1.50	4	< .3	0.63	11	< 3	64		< 3	2.34	0.3	6	4	9	2.56		0.18	12	0.24	2087	1	0.05	6	0.078	81	< 3	1246	3	< .01		< 8	4	2	92
3196	2000	75.50	77.00	1.50	5	0.3	0.60	19	< 3	50		< 3	1.96	0.6	6	3	16	2.64		0.21	12	0.28	2204	< 1	0.05	5	0.080	100	3	1067	4	< .01		9	3	< 2	179
3197	2000	77.00	78.50	1.50	3	< .3	0.57	37	< 3	45		< 3	3.66	< .2	5	5	8	2.35		0.17	13	0.20	2486	1	0.05	6	0.075	64	< 3	478	3	< .01		8	5	2	92
3198	2000	78.50	79.96	1.46	5	< .3	0.57	21	< 3	32		< 3	3.62	0.4	5	4	6	2.44		0.18	12	0.33	2466	< 1	0.05	6	0.076	88	< 3	360	3	< .01		< 8	5	2	135
3199	2000	79.96	81.50	1.54	1	< .3	0.68	9	< 3	61		< 3	3.54	< .2	5	5	7	2.33		0.17	15	0.20	2014	1	0.06	6	0.074	40	< 3	314	3	< .01		< 8	6	2	56
3200	2000	79.96	81.50	1.54	1	< .3	0.59	8	< 3	62		< 3	3.56	< .2	6	4	7	2.43		0.15	15	0.21	2153	< 1	0.05	7	0.077	41	< 3	350	4	< .01		< 8	6	< 2	51
3199/3200	2000	79.96	81.50	1.54	1	<. 3	0.64	9	<3	62		<3	3.55	< .2	6	5	7	2.38		0.16	15	0.21	2084	1	0.06	7	0.076	41	< 3	332	4	< .01		< 8	6	2	54
3201	2000	81.50	83.25	1.75	4	< .3	0.54	26	< 3	43		< 3	2.05	1.0	5	7	10	2.66		0.19	9	0.46	2054	2	0.07	6	0.077	117	< 3	1029	3	< .01		< 8	4	< 2	237
3202	2000	83.25	84.25	1.00	4	0.4	0.57	22	< 3	45		< 3	2.99	0.6	5	5	16	2.37		0.22	8	0.23	3946	1	0.06	6	0.071	92	< 3	940	3	< .01		12	6	3	146
3203	2000	84.25	85.27	1.02	8	1.7	0.53	31	< 3	32		4	0.95	5.8	6	8	26	2.84		0.20	5	0.03	280	2	0.05	6	0.072	536	5	1166	3	< .01		8	4	< 2	960
3204	2000	85.27	86.80	1.53	6	< .3	0.58	19	< 3	54		< 3	2.52	< .2	6	6	14	2.66		0.20	11	0.37	2641	< 1	0.05	7	0.078	56	3	879	4	< .01		< 8	5	< 2	73
3205	2000	86.80	88.30	1.50	1	< .3	0.60	18	< 3	59		< 3	3.69	< .2	6	7	13	2.43		0.18	14	0.19	2714	2	0.06	5	0.075	49	< 3	695	3	< .01		< 8	6	< 2	59
3206	2000	88.30	89.80	1.50	4	< .3	0.70	16	< 3	55		< 3	3.29	0.7	5	5	9	2.50		0.18	13	0.22	2911	1	0.08	6	0.076	74	< 3	1475	3	< .01		14	6	3	164
3206	2000	88.30	89.80	1.50	4	< .3	0.70	16	< 3	57		< 3	3.24	0.7	5	4	9	2.42		0.17	13	0.22	2844	1	0.08	6	0.076	73	< 3	1481	3	< .01		13	6	3	162
3206	2000	88.30	89.80	1.50	4	< .3	0.65	18	< 3	61		< 3	3.19	0.7	5	5	9	2.39		0.16	13	0.21	2764	1	0.08	6	0.074	71	< 3	1528	3	< .01		10	5	3	164
3206C	2000	88.30	89.80	1.50	4	< .3	0.68	17	< 3	58		< 3	3.24	0.7	5	5	9	2.44		0.17	13	0.22	2840	1	0.08	6	0.075	73	< 3	1495	3	< .01		12.3	6	3	163
3207	2000	89.80	91.32	1.52	1	< .3	0.68	10	< 3	63		< 3	3.62	0.2	5	4	5	2.34		0.15	13	0.18	2666	< 1	0.08	5	0.073	46	< 3	1799	3	< .01		15	6	< 2	50
3208	2000	91.32	92.82	1.50	< .2	< .3	0.68	10	< 3	47		< 3	3.61	< .2	5	5	10	2.43		0.17	13	0.24	2831	1	0.07	6	0.075	48	< 3	1315	3	< .01		12	5	< 2	57
3209	2000	92.82	94.32	1.50	5	< .3	0.64	21	< 3	61		< 3	3.56	< .2	6	5	11	2.50		0.19	13	0.25	3026	1	0.09	5	0.078	46	3	602	4	< .01		< 8	6	< 2	49
3210	2000	94.32	95.62	1.30	8	0.3	0.62	17	< 3	37		< 3	2.47	0.3	6	6	10	2.69		0.19	11	0.16	2387	1	0.08	6	0.077	130	< 3	123	3	< .01		< 8	6	2	94
3211	2000	95.62	96.62	1.00	9	0.6	0.55	17	< 3	35		< 3	1.52	1.5	6	5	8	2.79		0.23	7	0.32	4678	1	0.07	7	0.080	292	< 3	71	3	< .01		< 8	5	< 2	306
3212	2000	96.62	97.89	1.27	25	2.8	0.59	34	< 3	29		5	0.74	10.4	6	6	47	3.11		0.20	4	0.06	1464	2	0.05	7	0.079	795	7	59	3	< .01		< 8	6	< 2	1478
3213	2000	97.89	99.50	1.61	3	< .3	0.54	9	< 3	58		< 3	4.21	< .2	6	7	8	2.41		0.19	10	0.17	6048	1	0.07	6	0.074	69	3	148	4	< .01		< 8	7	2	94
3214	2000	99.50	101.00	1.50	7	0.9	0.49	16	5	70		< 3	2.06	3.3	5	6	14	2.44		0.19	5	0.15	3971	1	0.07	5	0.072	264	3	150	4	< .01		< 8	5	< 2	439

Sample #	Ref.	From	To	Width	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Th	Ti	Tl	U	V	W	Zn
Number		m	m	m	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
3215	2000	101.00	102.50	1.50	8	0.6	0.44	24	5	54		< 3	0.51	2.1	6	5	8	2.63		0.19	3	0.06	1056	< 1	0.07	6	0.077	189	< 3	125	3	< .01		< 8	4	< 2	332
3216	2000	102.50	103.41	0.91	11	1.5	0.44	22	6	50		3	0.26	5.7	6	6	22	2.87		0.19	6	0.02	103	1	0.07	5	0.077	463	5	195	4	< .01		< 8	4	< 2	932
3217	2000	103.41	104.33	0.92	32	5.7	0.36	42	7	42		10	0.24	9.5	6	6	52	3.14		0.11	1	0.01	43	1	0.06	4	0.080	926	11	95	2	< .01		< 8	4	< 2	1487
Thom 7-3	W86	104.33	104.93	0.60	1350	50.4											2600																				
104.5-105.5	A94	104.50	105.50	1.0	3380	50.7	0.13	2459	1	1	0.1	49	0.12	100.0	15	162	5356	15.00	1	0.03		0.01	1	1	0.01	77	0.033	4733	316	94	1	0.01			4	8	10000
Thom 7-4	W86	104.93	105.23	0.30	3950	46.7											6500																				
Thom 7-5	W86	105.23	106.09	0.86	650	9.3											1240																				
Thom 7-6	W86	106.09	106.88	0.79	2000	217.0											44200																				
106.5-107.5	A94	106.50	107.50	1.0	1410	131.7	0.25	10000	1	6	0.1	102	0.16	94.5	10	126	10000	14.55	1	0.06		0.01	1	1	0.03	55	0.035	300	1192	103	1	0.01			6	7	292
Thom 7-7	W86	106.88	107.92	1.04	420	44.6											5020																				
107.5-108.5	A94	107.50	108.50	1.0	58	6.4	0.19	1013	1	138	0.3	13	0.20	5.4	4	124	1626	3.05	1	0.04		0.01	9	1	0.04	14	0.061	84	86	52	1	0.01			2	6	222
Thom 7-7B	W86	107.92	108.53	0.61	20	3.9											240																				
108.5-109.5	A94	108.50	109.50	1.0	494	17.2	0.21	2797	1	64	0.4	33	0.18	9.8	5	129	4526	5.61	1	0.04		0.01	6	1	0.02	25	0.051	62	230	36	1	0.01			3	6	129
Thom 7-8	W86	108.53	109.15	0.62	810	33.8											5700																				
Thom 7-9	W86	109.15	109.69	0.54	800	33.7											5040																				
109.5-110.5	A94	109.50	110.50	1.0	2970	172.9	0.25	10000	1	6	0.1	176	0.15	100.0	15	194	10000	15.00	1	0.08		0.01	84	1	0.02	74	0.015	2162	3649	130	1	0.01			6	12	5000
Thom 7-10	W86	109.69	110.29	0.60	4100	246.0											57400																				
3218	2000	110.50	112.19	1.69	109	2.4	0.47	182	4	63		3	0.66	20.1	5	6	20	2.85		0.22	10	0.13	1579	1	0.07	4	0.081	1209	< 3	68	4	< .01		< 8	4	2	2906
3219	2000	112.19	113.70	1.51	34	1.0	0.47	183	< 3	78		< 3	1.98	8.3	6	6	8	2.55		0.20	11	0.59	6383	1	0.08	6	0.076	349	3	77	4	< .01		< 8	9	< 2	1491
3220	2000	112.19	113.70	1.51	51	2.1	0.51	199	3	81		< 3	1.96	23.2	5	8	15	2.61		0.21	13	0.57	6676	1	0.07	6	0.077	885	3	75	6	< .01		< 8	8	< 2	3719
3219/20	2000	112.19	113.70	1.51	43	1.6	0.49	191	3	80		<3	1.97	15.8	6	7	12	2.58		0.21	12	0.58	6530	1	0.08	6	0.077	617	3	76	5	< .01		< 8	9	<2	2605
3221	2000	113.70	115.20	1.50	51	0.8	0.45	206	< 3	75		< 3	1.53	8.8	6	6	8	2.70		0.21	11	0.38	6479	1	0.07	7	0.079	389	< 3	72	4	< .01		< 8	9	< 2	1195
3222	2000	115.20	116.70	1.50	23	0.6	0.48	246	< 3	77		< 3	2.14	3.6	6	7	11	2.48		0.21	13	0.62	7531	1	0.08	6	0.077	387	< 3	92	4	< .01		< 8	10	< 2	727
Thom 7-11	W86	116.10	116.20	0.10	120	8.7											340																				
3223	2000	116.70	118.20	1.50	40	1.5	0.46	194	3	74		3	0.72	6.6	6	5	12	2.67		0.22	10	0.14	2847	1	0.07	7	0.086	684	< 3	59	4	< .01		< 8	6	< 2	975
3224	2000	118.20	119.70	1.50	8	0.8	0.48	136	< 3	84		< 3	2.21	0.4	6	9	21	2.25		0.21	15	0.71	5216	1	0.07	7	0.080	56	4	66	4	< .01		< 8	10	< 2	63
3225	2000	119.70	121.20	1.50	3	0.7	0.42	75	4	81		< 3	2.52	1.3	5	9	18	2.69		0.20	17	0.81	4376	1	0.08	5	0.077	134	3	77	5	< .01		< 8	7	3	172
3226	2000	121.20	122.70	1.50	6	0.7	0.47	72	4	80		< 3	2.17	6.0	5	7	10	3.05		0.21	13	0.62	3131	1	0.08	5	0.079	491	< 3	81	5	< .01		< 8	6	< 2	814
3226	2000	121.20	122.70	1.50	5	0.6	0.46	73	5	79		3	2.16	6.2	5	8	11	3.03		0.20	13	0.62	3130	1	0.08	5	0.079	477	< 3	81	5	< .01		< 8	6	< 2	842
3226	2000	121.20	122.70	1.50	4	0.6	0.48	72	3	83		< 3	2.19	6.3	5	5	11	3.05		0.21	13	0.62	3174	1	0.08	5	0.080	477	< 3	83	5	< .01		< 8	6	< 2	848
3226C	2000	121.20	122.70	1.50	5	0.6	0.47	72	4	81		3	2.17	6.2	5	7	11	3.04		0.21	13	0.62	3145	1	0.08	5	0.079	482	< 3	82	5	< .01		< 8	6	< 2	835
3227	2000	122.70	124.20	1.50	9	< .3	0.78	115	3	92		< 3	4.06	< .2	6	5	6	2.47		0.19	14	0.37	4238	< 1	0.11	5	0.081	26	< 3	180	4	< .01		< 8	9	< 2	40
3228	2000	124.20	125.70	1.50	11	< .3	0.82	231	6	102		< 3	4.03	0.2	6	5	8	2.20		0.20	13	0.34	3400	< 1	0.10	6	0.078	24	< 3	171	4	< .01		< 8	8	< 2	50
3229	2000	125.70	127.20	1.50	10	< .3	0.77	248	4	95		< 3	3.82	0.5	6	6	18	2.30		0.21	14	0.29	3698	1	0.10	6	0.078	38	< 3	180	4	< .01		< 8	8	2	112
3230	2000	127.20	128.70	1.50	14	0.8	0.46	153	6	77		< 3	2.24	6.9	6	9	15	2.62		0.21	12	0.57	4455	< 1	0.08	5	0.082	605	3	86	4	< .01		< 8	8	< 2	1144
3231	2000	128.70	130.41	1.71	90	1.3	0.45	157	< 3	68		< 3	1.53	11.3	6	6	14	2.61		0.21	9	0.40	3264	< 1	0.07	7	0.083	895	< 3	77	4	< .01		9	7	< 2	1601
Thom 7-12	W86	130.41	130.92	0.51	10	0.3											80																				
Thom 7-13	W86	130.92	132.55	1.63	30	2.3											100																				
Thom 7-14	W86	132.55	132.99	0.44	230	0.2											60																				
3232	2000	132.99	134.50	1.51	8	< .3	0.43	150	3	80		< 3	2.61	0.7	5	9	7	2.18		0.20	14	0.81	5230	1	0.07	5	0.075	72	3	96	4	< .01		< 8	11	2	149
3233	2000	134.50	136.00	1.50	9	< .3	0.46	156	< 3	82		< 3	2.91	0.2	6	6	7	2.30		0.19	15	0.56	4573	< 1	0.08	5	0.079	44	< 3	102	4	< .01		< 8	11	< 2	35
3234	2000	136.00	137.50	1.50	9	0.4	0.53	183	< 3	84		< 3	2.60	0.6	5	6	20	2.34		0.20	14	0.59	5242	1	0.08	4	0.077	110	3	92	4	< .01		< 8	11	2	105
3235	2000	137.50	139.00	1.50	12	< .3	0.54	167	3	83		< 3	2.86	0.3	5	6	5	2.39		0.17	14	0.73	3865	< 1	0.09	5	0.077	31	< 3	117	4	< .01		< 8	9	< 2	63
3236	2000	139.00	140.50	1.50	10	< .3	0.98	176	< 3	117		< 3	3.38	0.5	5	6	6	2.38		0.24	13	0.45	3489	1	0.10	4	0.076	78	< 3	155	3	< .01		< 8	9	2	115
Thom 7-15	W86	139.23	139.56	0.33																																	
3237	2000	140.50	141.93	1.43	11	0.9	0.57	174	3	82		< 3	2.33	5.5	6	6	22	2.39		0.20	12	0.24	4159	1	0.08	5	0.076	489	< 3	106	4	< .01		< 8	8	< 2	866
3238	2000	141.93	143.50	1.57	20	7.0	0.38	119	< 3	48		< 3	0.88	81.5	6	3	40	2.28		0.12	6	0.18	2282	1	0.07	5	0.082	6828	8	61	3	< .01		< 8	6	2	7926
3238	2000	141.93	143.50	1.57	24	8.0	0.37	135	< 3	47		< 3	0.90	86.6	6	4	47	2.49		0.12	6	0.19	2382	1	0.08	5	0.080	7169	9	62	3	< .01		< 8	6	< 2	8450
3238	2000	141.93	143.50	1.57	21	7.6	0.37	135	< 3	46		< 3	0.87	85.7	6	3	45	2.46		0.12	5	0.18	2294	1	0.07	5	0.077	6982	9	61	3	< .01		< 8	5	< 2	8392
3238C	2000	141.93	143.50	1.57	22	7.5	0.37	130	< 3	47		< 3	0.88	84.6	6	3	44	2.41		0.12	6	0.18	2319	1	0.07	5	0.080	6993	9	61	3	< .01		< 8	6	2	8256
3239	2000	143.50	145.00	1.50	40	5.3	0.54	153	< 3	78		< 3	1.24	47.2	6	4	97	2.45		0.21	11	0.29	4806	1	0.06	5	0.079	2476	6	59	4	< .01		< 8	6	< 2	5333
3240	2000	143.50	145.00	1.50	29	3.6	0.58	149	< 3	83		< 3	1.16	21.0	6	5	46	2.39		0.21	13	0.29	5015	1	0.07	6	0.082	1725	4	56	5	< .01		< 8	5	< 2	2821
3239/40	2000	143.50	145.00	1.50	35	4.5	0.56	151	<3	81		<3	1.20	34.1	6	5	72	2.42		0.21	12	0.29	4911	1	0.07	6	0.081	2101	5	58	5	< .01		< 8	6	< 2	4077
3241	2000	145.00	146.50	1.50	16	0.3	0.50	139	< 3	78		< 3	2.61	1.3	5	2	6	2.30		0.19	13	0.71	7309	< 1	0.07	5	0.078	85	< 3	92	4	< .01		< 8	11	< 2	236
3242	2000	146.50	148.00	1.50	13	0.4	0.49	208	< 3	83		< 3	2.26	1.0	5	7	8	2.46		0.19	14	0.65	5038	1	0.09	4	0.079	175	< 3	80	4	< .01		< 8	10	< 2	190
3243	2000	148.00	149.50	1.50	8	< .3	0.53	179	< 3	88		< 3	2.98	0.7	6	5	6	2.44		0.19	15	0.46	3994	< 1	0.09	5	0.080	84	< 3	106	4	< .01		< 8	8	3	146
3244	2000	149.50	151.00	1.50	14	0.6	0.63	182	< 3	76		< 3	3.64	8.1	5	8	15	2.40		0.15	13	0.38	3869	2	0.09	5	0.076	528	< 3	169	4	< .01		< 8	8	< 2	1674
3245	2000	151.00	152.50	1.50	12	< .3	0.54	225	< 3	50		< 3	2.92	1.1	6	7	7	2.50		0.17	12	0.55	7267	2	0.07	5	0.079	123	< 3	118	3	< .01		< 8	8	4	188
3246	2000	152.50	154.00	1.50	5	< .3	0.43	163	< 3	66		< 3	2.63	0.2	5	6	8	2.34		0.16	14	0.81	5010	2	0.08	5	0.078	18	< 3	85	4	< .01		< 8	11	2	39
3247	2000	154.00	155.50	1.50	28	0.8	0.40	170	3	65		< 3	1.97	4.6	6	6	31	2.74		0.18	10	0.63	3776	1	0.07	4	0.077	655	4	76	4	< .01		< 8	7	< 2	615
3248	2000	155.50	157.00	1.50	14	< .3	0.42	151	< 3	72		< 3	2.68	3.2	6	7	5	2.43		0.18	14	0.85	5847	2	0.07	4	0.079	231	< 3	100	4	< .01		< 8	11	< 2	448
3249	2000	157.00	158.50	1.50	10	< .3	0.44	160	< 3	77		< 3	2.63	0.6	5	7	4	2.41		0.19	15	0.83	4911	2	0.07	5	0.079	20	< 3	101	4	< .01		< 8	11	3	103

Sample # Number	Ref.	From m	To m	Width m	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3250	2000	158.50	160.00	1.50	7	< .3	0.49	200	< 3	74		< 3	3.10	0.3	5	8	3	2.27		0.16	13	0.23	3111	2	0.09	4	0.080	28	< 3	156	3	< .01		< 8	9	2	54
3251	2000	160.00	161.50	1.50	10	< .3	0.55	205	< 3	76		< 3	3.45	0.8	6	3	5	2.37		0.16	14	0.21	2826	1	0.09	5	0.079	52	< 3	183	3	< .01		< 8	7	3	175
3252	2000	161.50	163.00	1.50	9	< .3	0.53	190	< 3	65		< 3	3.43	< .2	6	5	4	2.36		0.14	14	0.39	3817	2	0.08	5	0.078	18	< 3	157	4	< .01		< 8	8	2	26
3253	2000	163.00	164.50	1.50	12	0.3	0.41	178	< 3	71		< 3	2.96	0.8	6	4	17	2.35		0.18	15	0.81	5771	1	0.07	4	0.077	78	< 3	104	4	< .01		< 8	11	2	119
3254	2000	164.50	166.00	1.50	19	0.5	0.49	204	< 3	74		< 3	3.04	3.1	6	6	26	2.48		0.17	15	0.43	3740	1	0.09	4	0.080	109	< 3	146	4	< .01		< 8	9	< 2	402
3254	2000	164.50	166.00	1.50	20	0.6	0.48	203	< 3	73		< 3	3.01	3.2	6	7	28	2.48		0.17	15	0.42	3701	2	0.09	4	0.079	112	< 3	144	4	< .01		< 8	9	< 2	407
3254	2000	164.50	166.00	1.50	20	0.6	0.47	202	< 3	73		< 3	3.00	3.3	6	5	30	2.44		0.17	15	0.42	3694	1	0.09	5	0.079	127	< 3	145	4	< .01		< 8	9	< 2	412
3254C	2000	164.50	166.00	1.50	20	0.6	0.48	203	< 3	73		< 3	3.02	3.2	6	6	28	2.47		0.17	15	0.42	3712	1	0.09	4	0.079	116	< 3	145	4	< .01		< 8	9	< 2	407
3255	2000	166.00	167.75	1.75	11	< .3	0.51	149	< 3	77		< 3	3.81	0.2	5	6	2	2.26		0.15	13	0.31	3558	1	0.08	3	0.075	20	< 3	179	3	< .01		< 8	8	< 2	25
3256	2000	167.75	169.49	1.74	57	< .3	0.55	190	< 3	76		< 3	3.58	0.3	6	5	8	2.50		0.15	14	0.40	3966	1	0.09	4	0.078	23	< 3	169	3	< .01		< 8	9	2	68
DDH 86-8																																					
OB		0.00	3.66	3.66																																	
3001	2000	3.66	5.60	1.94	20	1.2	2.87	87	3	114		< 3	3.45	6.6	27	11	164	6.97		0.20	6	1.64	2557	< 1	0.09	13	0.126	145	5	68	2	0.11		< 8	154	< 2	780
3002	2000	5.60	7.50	1.90	113	2.2	2.23	205	< 3	154		< 3	2.74	3.6	19	10	309	6.01		0.15	4	1.14	2344	2	0.22	9	0.092	227	41	116	< 2	0.10		< 8	92	< 2	448
3003	2000	7.50	9.75	2.25	19	0.6	1.62	66	3	273		< 3	1.34	1.1	14	3	118	4.71		0.21	8	0.89	1280	6	0.06	4	0.099	93	5	54	14	0.04		< 8	67	< 2	229
3004	2000	9.75	11.30	1.55	44	6.5	0.21	99	10	56		15	0.13	1.3	7	11	297	3.98		0.05	1	0.01	41	3	0.01	5	0.045	190	72	31	2	< .01		< 8	8	4	143
3005	2000	11.30	12.80	1.50	26	3.6	0.23	72	5	62		7	0.12	4.7	8	6	133	4.07		0.08	< 1	0.02	54	2	0.01	4	0.036	568	31	38	< 2	< .01		< 8	[illegible]	< 2	629
Thorn 8-1	W86	12.80	13.30	0.50	30	0.2											100																				
Thorn 8-2	W86	13.30	14.33	1.03	1360	182.0											19500																				
Thorn 8-3	W86	14.33	15.02	0.69	1050	76.0											6570																				
Thorn 8-4	W86	15.02	15.50	0.48	2050	50.5											17400																				
Thorn 8-5	W86	15.50	15.85	0.35	10	0.2											320																				
3006	2000	15.85	17.40	1.55	61	2.8	0.47	155	7	58		3	0.13	9.5	10	7	86	4.46		0.24	1	0.04	64	2	0.02	4	0.034	822	8	39	< 2	< .01		< 8	5	< 2	1387
3007	2000	17.40	18.90	1.50	31	1.8	0.51	75	5	60		< 3	0.14	11.9	7	4	159	3.32		0.29	1	0.04	63	1	0.02	4	0.037	820	< 3	37	< 2	< .01		< 8	5	< 2	1865
3008	2000	18.90	20.40	1.50	86	2.9	0.53	83	6	66		3	0.18	21.2	7	6	424	3.38		0.28	1	0.04	66	1	0.02	3	0.056	1359	11	43	< 2	< .01		< 8	5	< 2	3076
3009	2000	20.40	21.90	1.50	40	3.8	0.45	151	8	51		4	0.21	22.8	7	8	71	3.89		0.21	1	0.03	76	1	0.01	4	0.068	1443	15	56	2	< .01		< 8	4	< 2	3136
3010	2000	21.90	23.40	1.50	23	3.6	0.55	146	7	57		< 3	0.25	12.2	9	7	49	3.74		0.29	1	0.04	96	2	0.01	4	0.086	979	10	60	2	< .01		< 8	4	< 2	1923
3010	2000	21.90	23.40	1.50	19	3.7	0.57	154	4	57		< 3	0.27	13.1	9	8	51	3.95		0.30	1	0.04	103	3	0.02	4	0.091	1028	10	64	2	< .01		< 8	4	< 2	2063
3010	2000	21.90	23.40	1.50	22	3.5	0.53	153	5	61		< 3	0.27	13.3	9	5	49	3.87		0.28	1	0.04	99	1	0.02	4	0.092	1011	10	63	< 2	< .01		< 8	4	< 2	2101
3010C	2000	21.90	23.40	1.50	22	3.6	0.55	151	5	58		< 3	0.26	12.9	9	7	50	3.85		0.29	1	0.04	99	2	0.02	4	0.090	1006	10	62	2	< .01		< 8	4	< 2	2029
3011	2000	23.40	24.60	1.20	43	2.7	0.35	147	3	47		4	0.20	5.9	6	7	52	4.58		0.15	1	0.02	67	2	0.01	4	0.062	553	14	58	< 2	< .01		< 8	3	< 2	808
3012	2000	24.60	25.70	1.10	44	4.0	0.46	101	5	43		5	0.26	19.4	6	6	87	4.24		0.21	1	0.04	143	1	0.02	4	0.077	1128	11	59	2	< .01		< 8	3	< 2	2602
3013	2000	25.70	27.50	1.80	22	2.3	0.61	36	3	62		< 3	0.88	11.0	7	6	26	3.01		0.24	5	0.22	5058	2	0.02	7	0.081	917	< 3	63	4	< .01		< 8	4	< 2	1521
3014	2000	27.50	28.70	1.20	3	< .3	3.58	27	< 3	516		< 3	3.89	1.2	25	113	69	5.82		0.06	39	3.27	6823	1	0.10	85	0.223	24	< 3	115	2	0.04		< 8	135	< 2	366
3015	2000	28.70	29.80	1.10	2	< .3	3.15	26	< 3	727		< 3	3.86	1.7	24	110	110	5.63		0.04	42	2.87	5527	2	0.12	73	0.244	19	< 3	118	< 2	0.04		< 8	138	< 2	392
3016	2000	29.80	31.09	1.29	178	2.8	0.59	100	6	57		< 3	0.31	14.5	7	6	49	3.39		0.25	2	0.07	148	1	0.02	9	0.080	1088	6	56	4	< .01		< 8	4	< 2	1641

APPENDIX F.1

CERTIFICATES OF ANALYSIS

SILT SAMPLES

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I. 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003524
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
206851	3	99	41	145	.8	25	12	878	3.19	97	<8	<2	<2	81	1.3	5	<3	60	.87	.108	18	23	.47	334	.01	3	1.20	.02	.09	<2	13.4
206852	4	47	56	247	.4	13	7	1362	2.15	95	9	<2	<2	313	1.9	5	<3	39	1.17	.099	13	15	.29	303	.01	4	.78	.01	.06	<2	27.9
206853	3	35	82	183	<.3	12	10	1343	2.65	202	<8	<2	<2	168	1.4	4	<3	27	.54	.072	9	11	.26	265	<.01	<3	.58	.01	.09	2	8.7
206854	3	214	293	584	4.0	18	34	2772	6.51	975	<8	<2	<2	58	5.1	39	8	107	.71	.131	10	22	.97	198	.02	4	2.06	.01	.09	<2	663.9
206855	4	64	146	510	.6	24	13	1773	3.59	189	<8	<2	<2	95	3.0	6	<3	64	.67	.101	11	20	.47	271	.01	<3	1.06	.01	.07	<2	10.3
206856	4	25	75	201	1.6	16	11	1311	2.59	223	<8	<2	5	35	1.6	11	<3	30	.33	.084	16	8	.22	272	<.01	<3	.54	.01	.10	3	76.4
206857	4	57	43	147	.4	16	12	749	3.22	236	<8	<2	6	47	1.2	7	9	56	.69	.125	15	19	.50	144	.02	<3	.77	.03	.08	2	10.3
206858	2	136	88	188	.4	22	26	2974	5.77	75	<8	<2	<2	61	1.5	13	<3	118	.67	.109	10	28	.99	323	.02	4	1.90	.01	.07	2	19.2
206951	4	548	242	1607	3.9	21	16	4854	3.38	217	<8	<2	<2	145	16.2	42	3	39	.93	.135	17	15	.30	435	<.01	<3	1.04	.01	.07	<2	149.3
206952	3	31	24	276	<.3	17	10	720	3.23	117	<8	<2	8	66	2.5	3	<3	55	1.62	.143	19	19	.46	201	.03	<3	.63	.02	.08	<2	11.6
206953	11	86	75	198	.8	20	11	766	3.34	166	10	<2	2	90	1.9	<3	<3	44	1.00	.140	20	17	.41	574	<.01	<3	1.36	.01	.09	<2	19.6
206954	3	897	646	659	19.2	3	2	430	8.86	1332	<8	<2	<2	31	5.2	355	25	30	.06	.076	3	4	.13	82	<.01	<3	.42	.01	.07	<2	347.8
206955	2	145	46	274	.3	19	23	1743	5.09	81	<8	<2	<2	49	1.7	10	<3	114	.98	.113	9	21	1.01	165	.04	3	1.90	.01	.08	<2	14.2
RE 206955	2	142	46	275	<.3	20	23	1731	5.04	80	<8	<2	<2	49	2.0	9	<3	115	.98	.111	9	22	1.02	162	.04	<3	1.94	.01	.09	<2	12.8
206956	5	18	94	123	.3	6	9	1397	1.75	217	<8	<2	4	70	.7	6	<3	12	.31	.071	19	4	.17	496	<.01	<3	.60	.01	.11	2	27.0
206957	5	91	599	1154	1.2	10	11	2576	3.95	491	<8	<2	3	142	7.2	11	3	25	.55	.120	13	7	.25	217	<.01	<3	.57	.01	.09	<2	48.3
206958	5	194	168	447	2.1	105	24	2046	4.06	276	<8	<2	<2	111	3.3	11	<3	31	1.40	.091	10	32	.76	155	<.01	<3	.83	.01	.08	<2	187.7
206959	5	65	170	459	1.2	104	22	1995	3.94	291	<8	<2	<2	115	3.5	12	<3	33	1.55	.091	12	31	.82	162	<.01	<3	.92	.01	.10	<2	14.8
206960	12	492	164	317	2.4	26	55	3707	8.94	140	<8	<2	<2	38	2.8	26	5	114	.53	.098	7	17	.78	169	.02	<3	1.55	.01	.08	9	159.4
206961	1	229	27	138	.6	18	32	1577	6.57	51	<8	<2	<2	35	.8	11	5	193	.73	.106	7	27	1.32	108	.09	<3	1.99	.02	.08	3	53.3
206962	4	81	156	345	1.1	14	11	1170	3.22	266	<8	<2	5	52	2.8	15	5	44	.71	.125	16	13	.44	159	.02	<3	.72	.03	.09	<2	30.6
STANDARD DS2	15	128	32	156	<.3	35	11	826	3.05	60	20	<2	3	26	10.4	9	12	76	.51	.092	15	152	.59	152	.09	<3	1.65	.04	.15	9	219.0

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 26/00 **SIGNED BY**..C. L........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data FA

APPENDIX F.2

CERTIFICATES OF ANALYSIS

SOIL SAMPLES

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003521 Page 1
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
00HMSL41	3	25	26	124	<.3	12	7	967	2.63	74	<8	<2	2	11	.6	3	<3	63	.09	.059	11	17	.21	113	.01	<3	1.33	.01	.09	<2	9.1
00HMSL42	2	73	38	141	.4	32	16	1253	3.71	86	<8	<2	3	33	1.1	7	<3	80	.70	.110	11	29	.60	243	.03	4	1.03	.02	.11	<2	11.3
00HMSL43	2	59	40	119	.4	25	14	1345	3.71	89	<8	<2	3	24	.5	6	<3	74	.41	.071	11	26	.52	249	.02	<3	1.12	.01	.08	<2	12.2
00HMSL44	2	74	42	111	.3	27	14	1013	3.42	99	<8	<2	3	21	.2	5	<3	71	.36	.065	14	26	.50	255	.02	<3	1.12	.02	.09	<2	14.0
00HMSL45	2	81	51	159	.6	31	15	1380	3.65	115	<8	<2	3	37	1.1	6	<3	68	.85	.098	13	26	.55	251	.01	3	1.10	.02	.14	<2	16.1
00HMSL46	3	65	45	98	.9	25	12	930	3.57	109	<8	<2	2	19	.4	3	<3	74	.22	.079	9	25	.38	168	.01	<3	1.23	.01	.07	<2	5.9
00HMSL47	2	55	42	243	.6	19	9	892	2.99	93	<8	<2	<2	80	3.1	5	<3	63	.84	.161	8	20	.30	362	.01	3	.85	.01	.14	<2	11.8
00HMSL48	3	49	64	336	.3	14	10	3289	2.20	84	<8	<2	<2	47	4.7	4	<3	36	.36	.192	12	12	.15	732	.01	<3	.73	.01	.12	<2	4.9
00HMSL60	5	44	41	64	.6	7	2	152	1.26	47	<8	<2	<2	23	.4	4	<3	22	.12	.098	14	5	.02	229	<.01	3	.43	.01	.10	<2	7.4
00HMSL61	3	42	36	53	.7	10	2	137	1.87	50	<8	<2	<2	13	.3	<3	<3	34	.08	.188	9	11	.03	109	.01	4	.52	.01	.09	<2	2.7
00HMSL62	4	48	40	78	.9	14	5	346	2.46	85	<8	<2	<2	23	.5	5	<3	57	.22	.132	6	14	.10	302	.01	3	.56	.01	.11	<2	5.4
00HMSL63	5	29	73	76	.7	10	5	699	2.16	104	<8	<2	2	22	.4	5	<3	36	.25	.089	12	13	.13	212	.01	<3	.89	.01	.09	<2	4.4
00HMSL63D	5	28	78	79	.5	11	5	680	2.24	112	<8	<2	2	19	.3	3	<3	35	.21	.089	12	14	.14	182	.01	<3	.98	.01	.10	<2	2.4
00HMSL64	4	20	75	90	.4	9	4	502	2.71	129	<8	<2	3	22	.6	3	<3	45	.24	.113	12	13	.20	223	<.01	3	1.26	.01	.09	<2	3.0
00HMSL65	2	62	34	143	<.3	25	15	998	3.61	110	<8	<2	2	23	.3	6	<3	76	.36	.086	9	24	.52	160	.02	3	1.16	.02	.12	<2	9.9
00HMSL66	2	32	37	124	<.3	13	10	1008	2.53	78	<8	<2	3	29	.6	4	<3	41	.44	.101	14	13	.35	237	.01	<3	.83	.01	.15	<2	8.2
00HMSL67	2	47	49	125	<.3	25	11	896	2.68	77	<8	<2	4	31	.6	4	4	53	.53	.089	14	25	.56	219	.02	<3	.97	.02	.15	<2	9.5
00HMSL68	2	44	57	158	.5	19	12	1142	2.80	96	<8	<2	3	34	1.0	4	<3	54	.62	.140	13	19	.41	262	.02	3	.79	.02	.11	<2	38.1
00HMSL69	2	32	57	145	.3	20	10	1167	2.32	81	<8	<2	3	29	.7	5	<3	40	.44	.065	13	21	.44	328	.01	<3	.97	.01	.15	<2	5.6
00HMSL69D	2	42	57	153	<.3	24	11	1175	2.57	92	<8	<2	4	27	.7	6	<3	46	.36	.065	15	24	.54	362	.01	<3	1.05	.01	.13	<2	6.6
5500N 2025E	2	118	23	101	.7	30	16	1304	6.99	68	<8	<2	<2	12	.9	10	<3	167	.18	.275	5	48	.64	141	.03	<3	2.64	.01	.05	<2	8.8
5500N 2050E	2	92	30	71	.6	19	11	908	6.76	69	<8	<2	2	10	.5	8	3	180	.16	.172	5	33	.36	126	.02	<3	1.73	.01	.04	<2	8.4
RE 5500N 2050E	2	91	30	71	.5	18	10	921	6.80	66	<8	<2	<2	10	.5	6	4	181	.16	.172	5	33	.37	125	.03	<3	1.77	.01	.05	<2	10.1
5500N 2075E	2	135	50	139	<.3	15	20	2353	5.36	56	<8	<2	2	10	.3	11	<3	110	.18	.080	7	20	.63	202	.01	<3	2.29	.01	.07	<2	9.8
5500N 2100E	2	183	43	120	<.3	18	25	1625	6.20	52	<8	<2	2	12	.5	11	<3	119	.27	.088	9	22	.98	131	.01	<3	2.74	.01	.06	<2	10.9
5500N 2100E-D	1	163	45	117	<.3	15	23	1478	5.91	48	<8	<2	3	14	.6	12	<3	113	.30	.090	7	21	.91	131	.01	<3	2.48	.01	.05	<2	7.7
5500N 2125E	1	185	173	546	1.6	27	27	2359	5.43	228	<8	<2	4	33	4.5	11	<3	115	.77	.084	13	36	.82	289	.03	<3	2.03	.02	.09	<2	44.4
5500N 2150E	1	159	86	238	.5	31	26	1279	5.01	148	<8	<2	4	23	1.1	10	<3	123	.41	.091	7	41	.98	122	.02	<3	2.17	.02	.08	<2	27.1
5500N 2175E	1	157	42	140	.3	20	23	1870	5.03	94	<8	<2	2	22	.6	12	<3	126	.47	.093	7	26	.79	159	.05	<3	1.75	.01	.09	<2	16.1
5500N 2200E	1	135	41	150	.6	22	20	829	4.50	96	<8	<2	4	19	1.3	8	3	113	.41	.074	6	30	.82	87	.02	<3	1.80	.02	.07	<2	14.8
5500N 2225E	1	223	125	373	1.0	29	26	2693	5.21	267	<8	<2	5	34	3.3	12	3	98	1.14	.091	16	28	.92	375	.02	4	1.93	.02	.18	<2	37.3
5500N 2250E	1	109	60	164	.7	21	20	1432	3.87	105	<8	<2	4	26	1.1	7	<3	93	.60	.088	8	28	.69	173	.02	<3	1.39	.02	.08	<2	27.3
5500N 2275E	1	161	57	147	.6	24	19	862	5.21	149	<8	<2	2	18	.7	9	3	132	.34	.100	6	31	.77	101	.03	<3	1.89	.02	.08	<2	58.4
STANDARD DS2	14	122	31	151	.3	33	11	790	2.93	54	18	<2	4	27	10.1	9	11	74	.50	.085	15	154	.57	149	.09	3	1.64	.04	.15	7	212.7

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 19/00 **SIGNED BY** ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL

Equity Engineering Ltd. PROJECT Thorn FILE # A003521

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
5500N 2300E	3	133	81	200	1.0	46	23	1741	4.68	182	<8	<2	6	46	2.0	11	<3	84	.97	.107	15	43	1.10	303	.03	<3	1.80	.03	.16	<2	944.5
5500N 2325E	3	121	74	161	2.4	18	9	700	4.27	163	<8	<2	2	22	1.4	8	<3	89	.30	.091	7	24	.41	149	.01	<3	1.32	.01	.07	<2	10.0
5500N 2350E	1	1117	1864	453	7.8	19	19	2520	6.77	938	<8	<2	4	19	3.8	143	10	58	.22	.099	15	22	.57	179	.01	<3	1.63	.01	.10	<2	445.4
5500N 2375E	2	141	145	281	.9	29	14	1181	4.45	183	<8	<2	3	18	2.3	18	3	85	.24	.095	11	36	.77	250	.01	<3	1.80	.01	.09	<2	32.9
5500N 2400E	2	253	428	272	4.6	15	12	1156	4.90	351	<8	<2	3	10	1.0	74	8	57	.08	.089	6	22	.41	109	<.01	<3	1.24	.01	.09	<2	861.4
2000E 5625N	2	97	40	83	.6	19	14	808	5.17	56	<8	<2	2	10	.5	8	<3	134	.14	.078	5	30	.43	74	.03	<3	1.90	.01	.04	<2	23.9
2000E 5600N	2	160	32	121	.4	25	24	1360	5.17	60	<8	<2	2	24	.8	12	<3	121	.45	.097	9	28	.62	168	.05	<3	1.23	.02	.06	<2	22.0
2000E 5575N	2	164	43	152	.6	32	27	1828	5.66	64	<8	<2	3	29	1.3	14	<3	135	.67	.099	10	30	.81	270	.02	<3	1.76	.02	.11	<2	29.8
2000E 5550N	2	107	25	99	.5	13	14	2211	5.85	55	<8	<2	<2	14	.8	5	<3	160	.20	.212	5	28	.43	122	.01	<3	1.94	.01	.06	<2	15.0
2000E 5525N	2	143	51	151	.6	31	19	2269	4.85	63	<8	<2	<2	35	1.9	4	<3	127	.56	.226	8	41	.57	263	.01	<3	2.08	.01	.07	<2	13.2
2000E 5500N	2	136	23	98	.6	22	11	676	5.34	58	<8	<2	<2	24	1.0	<3	<3	145	.39	.153	7	31	.38	93	.02	<3	2.00	.01	.05	<2	12.6
2100E 5475N	1	175	94	250	.4	24	31	2510	5.73	106	<8	<2	3	12	1.3	9	<3	113	.20	.113	9	28	.88	148	.02	<3	2.69	.01	.07	<2	20.7
2100E 5450N	1	113	74	262	.5	17	11	737	4.49	143	<8	<2	3	10	1.1	<3	<3	84	.15	.094	8	25	.65	107	.01	<3	2.97	.01	.06	<2	28.6
2100E 5425N	1	180	40	88	.6	9	22	2378	6.09	85	<8	<2	<2	11	1.0	<3	<3	104	.18	.212	7	11	.32	112	.01	<3	1.95	.01	.06	<2	8.6
2100E 5400N	2	194	205	705	1.9	7	53	7681	6.30	393	<8	<2	2	27	9.9	5	<3	75	.60	.248	16	9	.48	329	<.01	<3	2.07	.01	.15	<2	42.3
2100E 5375N	1	128	61	209	1.0	17	19	1290	4.64	101	<8	<2	3	16	.9	8	<3	95	.31	.077	10	22	.68	215	.02	<3	1.89	.01	.06	<2	23.2
2100E 5350N	1	106	127	147	2.1	17	7	623	3.89	166	<8	<2	<2	12	1.3	<3	3	61	.22	.121	6	16	.18	101	.02	<3	.92	.01	.05	<2	19.9
2100E 5325N	1	178	42	151	.4	23	27	1875	6.49	66	<8	<2	3	26	.8	15	<3	136	.70	.116	12	26	1.30	195	.06	<3	2.39	.01	.12	<2	10.4
RE 2100E 5325N	1	170	37	145	.3	22	26	1786	6.20	63	<8	<2	3	24	.9	10	<3	130	.67	.112	12	25	1.25	185	.05	<3	2.28	.01	.11	<2	16.8
2100E 5300N	1	160	23	122	<.3	18	22	1374	5.76	55	<8	<2	<2	18	.7	6	<3	120	.45	.134	8	21	.99	110	.03	<3	2.27	.01	.07	<2	8.2
2100E 5300N-D	1	163	22	126	.3	17	22	1426	5.97	53	<8	<2	2	17	.4	12	<3	125	.42	.131	8	20	1.03	110	.04	<3	2.31	.01	.07	<2	9.0
2100E 5275N	1	155	27	124	.3	25	22	1829	6.04	76	<8	<2	<2	18	.4	11	<3	139	.44	.147	7	30	.87	141	.02	<3	2.22	.01	.06	<2	8.2
2100E 5250N	1	146	26	112	<.3	33	20	886	5.89	63	<8	<2	2	19	.6	8	3	155	.34	.066	5	40	.86	143	.03	<3	2.24	.01	.06	<2	13.9
2100E 5225N	2	105	17	54	.3	12	10	537	4.03	37	<8	<2	<2	13	.3	4	<3	79	.26	.116	4	15	.33	54	.02	<3	1.14	.01	.05	<2	5.1
2100E 5200N	2	110	89	153	1.0	12	14	793	4.08	104	<8	<2	2	13	.5	9	3	68	.25	.174	10	16	.42	75	.01	<3	1.26	.01	.10	<2	23.5
2100E 5175N	1	191	103	153	2.1	20	22	1381	5.40	100	<8	<2	2	16	.6	9	5	102	.23	.116	7	24	.68	103	.03	<3	2.12	.01	.07	<2	31.9
2100E 5150N	2	133	154	287	1.1	23	21	1801	5.23	120	<8	<2	<2	13	1.1	9	<3	104	.24	.180	7	29	.66	73	.01	<3	1.58	.01	.11	<2	29.1
2100E 5125N	2	133	189	299	1.5	24	19	1333	5.93	130	<8	<2	2	12	1.4	11	3	128	.15	.094	7	32	.67	121	.01	<3	2.26	.01	.06	<2	73.9
2100E 5100N	2	123	87	210	.4	29	24	1609	5.00	124	<8	<2	2	15	.7	10	<3	109	.29	.109	7	37	.84	75	.02	<3	1.67	.01	.08	<2	23.9
2100E 5075N	3	194	82	162	1.3	23	16	1042	6.14	106	<8	<2	2	11	1.2	10	<3	132	.16	.141	6	32	.60	95	.01	<3	2.23	.01	.07	<2	35.1
2100E 5050N	3	232	219	421	1.4	17	29	3326	7.43	203	<8	<2	2	12	1.7	20	4	122	.22	.157	9	20	.74	99	.02	<3	2.14	.01	.10	<2	44.1
2100E 5025N	3	188	146	294	1.7	15	26	2216	6.69	194	<8	<2	2	20	1.3	17	7	106	.58	.133	6	18	.66	103	.02	<3	1.86	.01	.11	<2	44.6
2100E 5000N	4	200	185	375	1.7	16	26	3282	6.49	173	<8	<2	2	25	2.9	12	3	102	.63	.157	8	17	.63	186	.02	<3	1.64	.01	.11	<2	38.1
STANDARD DS2	14	125	30	157	<.3	35	11	807	3.02	59	18	<2	4	28	10.1	9	10	73	.51	.087	16	158	.59	155	.09	<3	1.69	.04	.16	8	195.6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2200E 5875N	2	141	21	106	<.3	26	21	1095	5.22	48	<8	<2	2	18	.3	9	<3	129	.23	.061	9	30	.80	181	.02	<3	2.10	.02	.07	<2	12.2
2200E 5850N	2	138	28	131	<.3	35	20	901	5.20	77	<8	<2	3	11	.5	6	<3	125	.14	.067	8	41	.96	135	.02	<3	3.43	.01	.08	<2	19.0
2200E 5825N	2	105	27	106	<.3	25	17	929	5.09	48	<8	<2	3	18	.4	5	<3	140	.20	.046	7	32	.89	147	.03	<3	2.58	.02	.07	<2	10.5
2200E 5800N	1	113	24	100	1.1	23	17	1032	6.00	57	<8	<2	3	15	.7	4	<3	116	.25	.121	6	35	.80	93	.04	<3	3.86	.01	.05	<2	17.2
2200E 5775N	2	128	48	89	<.3	19	9	427	7.45	110	<8	<2	3	11	.8	9	3	161	.20	.134	8	49	.60	44	.05	<3	3.39	.01	.06	<2	12.3
2200E 5750N	2	131	32	105	<.3	20	22	1297	4.94	56	<8	<2	2	11	.2	8	<3	124	.19	.080	9	28	.72	119	.03	<3	2.01	.01	.05	<2	16.8
2200E 5725N	2	152	35	121	<.3	24	26	1361	5.54	66	<8	<2	2	12	.8	8	<3	127	.21	.097	5	30	.75	121	.03	<3	2.88	.01	.06	<2	29.5
2200E 5700N	1	182	46	161	.5	25	20	1279	4.63	203	<8	<2	3	39	.7	6	<3	117	.65	.081	11	33	.88	200	.05	<3	1.97	.03	.10	<2	25.5
2200E 5675N	2	105	115	122	1.0	13	8	591	6.17	113	<8	<2	2	7	.3	3	<3	114	.07	.105	10	26	.41	87	.02	<3	2.32	.01	.04	<2	15.7
2200E 5650N	3	86	72	83	.9	10	7	706	5.14	113	<8	<2	<2	9	.3	4	<3	118	.12	.196	7	27	.26	67	.02	<3	1.74	.01	.05	<2	31.7
2200E 5625N	2	125	86	125	.7	19	17	1113	6.69	83	<8	<2	<2	16	.9	4	<3	162	.25	.121	4	31	.55	149	.02	<3	2.34	.01	.05	<2	18.2
2200E 5600N	2	135	47	98	.9	18	11	734	5.28	111	<8	<2	<2	9	.5	5	<3	132	.16	.122	7	31	.45	75	.02	<3	2.11	.01	.05	<2	15.7
2200E 5575N	2	224	43	140	.4	32	24	910	5.80	179	<8	<2	3	13	.8	8	<3	128	.19	.084	7	38	.91	132	.02	<3	2.72	.02	.07	<2	50.8
2200E 5550N	1	172	67	211	1.0	25	22	1690	4.87	153	<8	<2	4	22	.7	6	<3	108	.35	.092	12	31	.84	215	.02	<3	2.01	.02	.09	<2	27.1
2200E 5525N	2	196	65	201	.9	25	25	1700	5.07	157	<8	<2	<2	29	1.1	9	<3	110	.66	.141	8	31	.76	145	.03	<3	2.68	.01	.07	<2	32.4
2300E 5650N	2	115	103	100	.9	10	7	376	5.87	183	<8	<2	<2	8	.4	10	4	142	.09	.097	6	23	.30	83	.03	<3	1.55	.01	.04	<2	52.8
2300E 5625N	2	120	30	94	.3	18	10	435	4.49	103	<8	<2	2	16	.2	7	<3	109	.21	.086	6	31	.53	129	.02	<3	2.25	.01	.05	<2	27.7
2300E 5575N	7	248	40	665	2.4	4	32	3282	5.19	108	<8	<2	2	31	9.5	8	3	37	.78	.111	10	4	.20	262	<.01	3	.88	.01	.12	<2	648.3
2300E 5550N	2	1077	203	169	4.6	5	29	1224	13.07	972	<8	<2	2	14	1.1	80	47	37	.11	.169	2	6	.20	43	<.01	<3	1.21	.01	.15	<2	316.3
2300E 5525N	3	193	175	321	9.6	23	25	1925	5.54	502	<8	<2	4	24	2.0	28	7	89	.38	.112	11	28	.75	174	.01	<3	1.88	.01	.10	<2	65.8
RE 2500E 5000N	3	96	23	88	<.3	43	18	839	3.77	49	<8	<2	4	49	.3	8	<3	92	.70	.097	9	47	1.20	156	.03	3	1.28	.02	.08	<2	13.3
2500E 5000N	3	94	24	86	.3	43	18	830	3.70	46	<8	<2	4	49	.3	<3	<3	91	.70	.095	9	46	1.19	153	.03	<3	1.27	.02	.08	<2	17.5
2500E 5000N-D	3	95	25	85	.4	42	18	826	3.83	49	<8	<2	4	50	<.2	6	<3	97	.71	.100	10	48	1.17	163	.03	<3	1.27	.02	.08	<2	12.3
2525E 5000N	2	88	22	83	<.3	42	18	794	3.88	51	<8	<2	4	46	.3	6	<3	101	.62	.100	9	49	1.19	150	.04	<3	1.30	.02	.08	<2	33.6
2550E 5000N	6	70	498	338	2.3	11	8	2170	4.78	345	<8	<2	3	22	.7	15	4	43	.13	.135	12	17	.30	130	<.01	<3	1.05	.01	.07	<2	67.2
2575E 5000N	3	121	285	227	1.5	24	8	666	4.09	152	<8	<2	3	9	<.2	28	<3	50	.08	.075	8	34	.46	71	.01	<3	.87	.01	.07	<2	59.7
2700E 6300N	3	49	38	95	.9	23	9	555	3.46	107	<8	<2	2	25	.3	5	<3	100	.19	.069	9	30	.44	163	.01	3	1.40	.01	.08	<2	11.8
2700E 6275N	2	32	29	65	1.5	14	4	265	2.29	88	<8	<2	2	21	.4	<3	<3	76	.18	.046	8	21	.25	130	.01	<3	1.22	.01	.07	<2	8.7
2800E 5400N	7	226	162	427	2.8	13	10	1667	4.37	365	<8	<2	4	22	3.6	23	<3	45	.21	.128	19	15	.24	283	.01	<3	1.21	.01	.08	<2	65.3
2800E 5400N-B	1	15	3	29	<.3	9	6	252	1.61	<2	<8	<2	2	34	<.2	<3	<3	55	.34	.053	5	14	.36	67	.07	<3	.94	.04	.09	<2	1.7
2800E 5375N	3	40	78	98	1.1	12	6	634	2.80	118	<8	<2	<2	24	.5	3	3	60	.16	.116	10	18	.27	195	.01	<3	1.20	.01	.06	<2	9.7
2800E 5350N	4	36	89	92	1.0	14	6	559	5.04	171	<8	<2	4	11	.3	5	3	90	.10	.148	10	31	.34	96	.01	<3	2.32	.01	.05	<2	12.7
2800E 5325N	4	39	68	77	1.3	14	5	732	3.88	127	<8	<2	3	43	.4	<3	<3	68	.33	.265	8	28	.24	182	.01	<3	2.42	.01	.07	<2	11.5
STANDARD DS2	14	123	29	155	.3	34	10	802	3.00	58	21	<2	4	27	10.2	8	9	75	.51	.088	15	157	.59	148	.09	3	1.65	.04	.16	7	197.7

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

Equity Engineering Ltd. PROJECT Thorn FILE # A003521

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2800E 5300N	3	28	65	65	.6	9	3	337	3.31	112	<8	<2	<2	30	.6	3	<3	78	.25	.108	10	19	.18	184	.01	<3	1.53	.01	.09	<2	5.9
2800E 5275N	3	22	38	67	<.3	11	4	205	3.35	138	<8	<2	3	16	.2	3	<3	123	.08	.175	10	19	.19	110	.02	<3	1.14	.01	.06	<2	4.9
2800E 5250N	3	22	26	76	.3	13	5	288	2.56	83	<8	<2	3	21	.5	<3	<3	68	.17	.070	10	18	.33	171	.01	<3	1.15	.02	.07	<2	1.0
2800E 5225N	4	68	197	159	2.6	13	8	1046	4.14	227	<8	<2	2	54	1.1	23	5	70	.19	.091	9	19	.25	388	.01	<3	1.07	.01	.10	<2	1177.4
2800E 4975N	2	38	31	48	.6	18	5	256	4.30	63	<8	<2	<2	21	.3	3	<3	139	.16	.061	6	32	.31	137	.03	<3	1.32	.01	.05	<2	7.5
2800E 4950N	2	60	26	78	1.1	24	9	339	4.24	63	<8	<2	3	17	.7	4	<3	128	.15	.067	6	35	.42	142	.01	<3	1.63	.01	.06	<2	8.9
2800E 4900N	3	67	37	80	.5	26	9	500	6.11	82	<8	<2	4	41	.7	4	<3	124	.27	.093	8	55	.43	151	.03	<3	3.45	.01	.04	<2	12.8
2800E 4850N	3	67	43	113	1.1	35	14	736	5.45	73	<8	<2	3	20	.9	3	<3	142	.22	.102	7	57	.54	136	.02	<3	2.38	.01	.07	<2	12.1
2800E 4825N	2	69	35	115	1.8	30	12	697	4.58	69	<8	<2	2	34	1.7	5	<3	121	.36	.109	6	42	.58	166	.02	<3	1.93	.01	.06	<2	14.2
2800E 4800N	3	73	60	104	1.3	21	10	519	3.65	65	<8	<2	2	24	.5	4	<3	91	.30	.108	7	32	.49	75	.02	<3	1.52	.01	.07	<2	18.1
2800E 4775N	9	74	49	88	.5	20	10	995	3.03	82	<8	<2	<2	192	1.0	4	<3	82	.87	.073	9	25	.29	250	.02	<3	1.11	.01	.07	<2	16.7
2800E 4750N	4	68	50	172	.3	35	28	1167	4.85	82	<8	<2	4	100	.6	6	<3	124	.54	.066	8	45	.84	212	.08	<3	2.21	.01	.08	<2	12.1
2800E 4725N	9	81	52	181	.6	31	17	1995	4.16	145	8	<2	2	110	1.7	7	<3	84	.67	.132	13	34	.41	280	.01	<3	1.98	.02	.09	<2	11.0
2800E 4700N	4	55	40	101	.7	27	10	918	4.13	108	<8	<2	<2	28	1.0	<3	<3	107	.22	.071	9	42	.33	98	.02	<3	1.43	.01	.06	<2	4.7
2800E 4675N	5	72	55	135	1.4	30	13	1073	5.54	145	<8	<2	3	149	.7	5	<3	93	1.00	.095	8	40	.45	177	.01	<3	2.38	.01	.08	<2	17.7
2800E 4650N	10	60	36	109	1.2	17	10	548	4.08	111	<8	<2	<2	84	.8	4	<3	108	.59	.078	10	27	.35	166	.01	<3	1.76	.01	.08	<2	14.7
RE 2800E 4650N	10	60	34	107	1.3	17	10	544	4.03	111	<8	<2	2	82	.8	5	<3	106	.58	.078	10	26	.34	164	.01	<3	1.73	.01	.08	<2	20.6
2875E 5000N	1	41	21	77	.3	29	15	765	3.27	31	<8	<2	5	18	.2	<3	<3	83	.25	.115	8	35	.68	65	.03	<3	1.73	.01	.06	<2	4.4
2900E 5450N	4	57	99	257	.9	13	9	905	3.31	178	<8	<2	5	17	1.1	6	4	55	.14	.084	16	18	.34	184	.01	<3	1.76	.01	.09	<2	19.3
2900E 5425N	5	33	99	73	.4	15	5	383	4.45	214	<8	<2	4	13	.6	7	<3	125	.13	.176	11	27	.34	98	.01	<3	1.58	.01	.08	<2	8.9
2900E 5400N	1	15	38	11	.6	1	1	33	.32	5	<8	<2	<2	9	<.2	<3	<3	14	.03	.033	12	4	.03	95	<.01	<3	.63	.01	.05	<2	17.8
2900E 5375N	4	31	137	67	1.1	8	3	319	4.70	158	<8	<2	3	32	1.7	4	<3	77	.07	.743	11	27	.12	369	.02	<3	1.87	.01	.08	<2	9.2
2900E 5350N	3	23	52	52	.6	7	3	160	2.30	82	<8	<2	<2	21	.5	3	3	72	.09	.119	12	14	.07	112	.02	<3	1.02	.01	.09	<2	4.8
2900E 5325N	4	31	62	87	.8	14	6	369	3.65	137	<8	<2	5	16	.4	4	<3	79	.15	.112	12	25	.39	137	.01	<3	2.04	.01	.08	<2	5.2
2900E 5000N	2	40	38	73	<.3	28	8	416	4.90	64	<8	<2	4	11	.4	4	<3	107	.14	.105	7	46	.65	68	.02	<3	1.84	.01	.05	<2	6.8
2925E 5000N	2	60	58	114	1.0	26	11	692	6.22	157	<8	<2	4	12	.6	3	<3	126	.12	.181	7	54	.53	90	.01	<3	2.67	.01	.05	<2	5.5
2950E 5000N	2	62	50	86	.9	25	8	354	4.78	82	<8	<2	4	12	.6	5	<3	125	.11	.119	8	48	.39	93	.01	<3	2.47	.01	.06	<2	47.2
2975E 5000N	2	43	33	75	<.3	23	8	541	4.05	66	<8	<2	2	12	.7	4	<3	110	.14	.161	7	39	.44	76	.02	<3	1.68	.01	.06	<2	7.5
3000E 5400N	3	65	75	75	.9	16	4	236	5.17	136	<8	<2	<2	39	.9	4	<3	101	.21	.097	8	30	.10	106	.02	<3	1.14	.01	.05	<2	20.4
3000E 5375N	3	50	90	111	.4	18	10	921	3.21	129	<8	<2	3	27	.8	6	<3	64	.34	.090	14	22	.48	192	.02	<3	1.22	.02	.09	<2	8.4
3000E 5350N	3	47	81	107	.4	19	9	624	3.23	132	<8	<2	3	22	.5	5	<3	68	.23	.089	13	24	.51	205	.01	<3	1.47	.02	.07	<2	9.7
3000E 5325N	4	43	91	92	1.0	13	4	380	5.83	227	<8	<2	7	9	.6	6	<3	109	.07	.209	10	32	.33	91	.01	<3	3.44	.01	.08	<2	22.4
3000E 5300N	4	26	45	87	.9	13	5	354	4.38	158	<8	<2	4	9	.6	4	<3	100	.08	.236	11	25	.36	107	.01	<3	1.80	.01	.07	<2	2.9
STANDARD DS2	14	123	32	153	.4	34	11	803	3.00	58	15	<2	4	27	10.1	9	10	76	.51	.088	16	156	.58	150	.09	<3	1.65	.04	.15	7	199.2

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3000E 5275N	5	20	40	86	.5	12	4	336	4.01	146	<8	<2	3	10	<.2	<3	<3	100	.08	.219	11	22	.33	100	.02	<3	1.61	.01	.09	<2	2.3
3000E 5250N	4	33	134	112	.8	15	5	302	3.16	140	<8	<2	3	17	.4	9	3	69	.11	.087	10	22	.37	123	.01	<3	1.53	.02	.09	<2	7.6
3000E 5250N-D	3	32	143	143	.7	20	6	358	3.77	171	<8	<2	3	22	.3	11	4	95	.17	.110	11	33	.70	140	.05	<3	1.59	.02	.08	<2	7.0
3000E 5225N	4	60	61	146	1.5	26	9	363	3.59	107	<8	<2	3	21	.9	4	<3	79	.12	.053	9	34	.55	156	.01	<3	1.74	.01	.06	<2	16.0
3000E 5175N	5	28	51	80	1.0	8	4	460	3.49	155	<8	<2	<2	17	.7	<3	<3	101	.09	.212	10	19	.11	103	.02	<3	1.07	.01	.07	<2	6.0
3000E 5150N	3	44	182	134	1.2	17	6	570	5.91	184	<8	<2	2	18	1.1	9	3	116	.17	.203	8	37	.28	81	.02	<3	1.52	.01	.06	<2	22.6
3000E 5125N	4	83	305	291	1.3	29	13	944	5.68	148	<8	<2	5	16	1.7	13	4	94	.22	.144	12	50	.57	70	.01	<3	2.97	.01	.05	<2	62.1
3000E 5100N	5	123	66	224	2.1	25	13	1989	3.57	86	<8	<2	<2	177	3.8	<3	<3	74	1.09	.249	25	39	.43	293	.01	3	1.90	.02	.05	<2	25.8
3000E 5075N	3	137	54	328	1.9	36	14	739	4.24	110	<8	<2	2	52	1.4	4	<3	89	.46	.077	24	46	.61	207	.01	<3	1.97	.02	.06	<2	42.2
3000E 5050N	3	96	104	120	1.7	26	7	364	4.99	97	<8	<2	3	14	1.0	4	<3	110	.14	.105	9	52	.36	88	.02	<3	2.64	.01	.05	<2	15.5
3000E 5025N	4	84	86	145	1.6	32	18	1330	5.66	230	<8	<2	3	18	1.0	41	3	115	.17	.083	8	48	.66	107	.02	<3	2.05	.01	.06	<2	15.2
3000E 5000N	3	69	75	104	.6	31	11	812	5.06	140	<8	<2	4	18	.6	7	<3	81	.22	.131	10	47	.65	74	.01	<3	2.95	.01	.04	<2	11.9
3500E 5200N	5	82	3015	181	62.6	9	5	232	4.50	1387	<8	<2	5	63	2.4	815	5	48	.07	.111	13	15	.17	221	.01	<3	1.55	.02	.15	<2	630.9
3500E 5175N	5	54	3673	125	67.2	6	2	335	4.40	7219	<8	<2	4	74	1.3	434	4	15	.04	.169	15	8	.06	313	<.01	<3	.66	.03	.21	<2	378.5
3500E 5150N	5	59	3454	108	57.6	2	1	180	4.66	7261	<8	<2	6	90	.9	329	4	14	.02	.132	16	4	.04	344	<.01	<3	.75	.04	.24	<2	539.2
3500E 5150N-D	5	31	1509	223	29.9	2	<1	295	3.98	5861	<8	<2	6	64	.9	179	<3	11	.02	.123	16	2	.03	267	<.01	<3	.50	.03	.21	<2	265.8
3500E 5125N	4	61	4135	147	76.3	6	5	288	2.89	1131	<8	<2	5	22	.7	1072	4	27	.07	.121	14	8	.11	118	<.01	<3	1.14	.01	.12	<2	733.2
3500E 5100N	4	143	7643	211	115.9	2	<1	15	2.84	1416	<8	<2	3	134	.7	1130	9	10	.03	.086	16	2	.01	135	<.01	<3	.38	.03	.31	<2	463.9
3500E 5075N	4	75	1946	279	22.4	8	3	230	4.31	654	<8	<2	5	27	1.0	332	<3	48	.18	.089	15	15	.19	132	.01	<3	1.54	.01	.09	<2	247.3
3500E 5050N	7	44	507	321	6.9	12	11	2759	3.74	803	13	<2	2	141	1.9	100	<3	38	.73	.172	15	16	.21	705	<.01	3	1.26	.01	.12	<2	77.1
3500E 5025N	7	35	429	317	4.7	9	10	2298	4.55	1177	14	<2	3	200	2.3	44	<3	30	1.24	.129	19	12	.19	706	<.01	3	.95	.01	.11	<2	108.4
RE 3600E 5250N	4	52	271	245	1.3	6	9	2860	4.07	856	<8	<2	6	63	1.3	26	<3	18	.33	.126	18	6	.11	261	<.01	3	.81	.02	.14	<2	99.8
3600E 5250N	4	54	279	251	1.5	6	9	2969	4.15	874	<8	<2	7	64	1.5	25	<3	18	.35	.129	19	6	.11	268	<.01	<3	.83	.02	.14	<2	104.2
3600E 5225N	6	35	203	262	.6	7	9	1689	4.68	432	8	<2	7	77	1.3	15	<3	13	.19	.113	20	6	.09	255	<.01	3	.72	.02	.14	<2	100.7
3600E 5200N	5	34	144	166	.7	8	5	743	3.02	334	<8	<2	4	44	.3	12	<3	38	.19	.072	14	11	.17	284	<.01	<3	1.15	.01	.10	<2	12.0
3600E 5175N	5	24	206	141	.7	5	7	890	2.91	310	<8	<2	5	28	.5	10	5	25	.12	.074	12	5	.06	188	<.01	<3	.87	.01	.13	<2	10.4
3600E 5150N	6	17	159	177	.4	4	8	1360	2.68	293	14	<2	12	32	.2	12	<3	7	.16	.044	12	2	.03	124	<.01	3	.76	<.01	.10	<2	52.9
3600E 5125N	4	27	100	158	2.0	7	6	413	4.07	397	<8	<2	3	49	.5	9	<3	50	.13	.212	19	9	.10	209	<.01	<3	1.42	.01	.09	<2	11.9
3600E 5100N	2	18	69	157	.6	3	11	1975	4.67	2241	<8	<2	5	49	.6	20	<3	8	.07	.124	15	3	.02	149	<.01	<3	.91	.01	.10	<2	93.7
3600E 5100N-D	2	22	81	164	.5	4	11	2454	4.99	1692	<8	<2	5	30	.6	21	<3	9	.08	.132	18	3	.03	134	<.01	<3	.93	.01	.09	<2	83.8
3600E 5075N	3	19	97	120	.7	4	3	210	3.15	982	<8	<2	3	124	.3	19	<3	29	.07	.102	14	4	.02	130	<.01	<3	.73	.04	.09	<2	36.7
3600E 5050N	4	28	99	135	.6	10	7	432	4.27	688	<8	<2	4	73	.7	15	<3	47	.15	.091	14	14	.28	249	<.01	<3	1.51	.02	.10	<2	33.3
3600E 5025N	4	39	58	80	.8	18	6	456	2.72	119	<8	<2	2	165	.4	3	<3	67	.59	.056	14	21	.29	235	.02	<3	.98	.01	.09	<2	6.4
STANDARD DS2	14	122	30	152	<.3	34	11	790	2.95	55	21	<2	4	27	10.2	9	9	74	.50	.087	15	153	.57	148	.09	<3	1.65	.03	.15	7	196.6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I. 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003522 Page 1
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3258	1	137	267	774	.5	3	6	8462	2.68	86	<8	<2	<2	34	6.8	<3	<3	6	.62	.075	2	5	.25	78	<.01	<3	.66	.02	.32	2	19.7
3259	2	19	198	420	.6	3	7	6345	2.82	76	<8	<2	<2	32	2.0	<3	4	6	.49	.079	2	7	.18	76	<.01	3	.62	.02	.31	2	13.9
3260	1	21	249	803	.5	4	7	6568	2.95	81	<8	<2	<2	33	4.1	<3	4	6	.45	.081	2	5	.16	76	<.01	<3	.62	.02	.32	2	15.1
3261	1	33	763	2078	1.0	3	6	7207	2.86	77	<8	<2	<2	42	13.9	<3	4	5	.59	.074	2	6	.21	64	<.01	3	.54	.02	.26	<2	19.0
3262	1	18	143	326	.9	3	6	10889	2.75	67	<8	<2	<2	38	.8	<3	4	5	.67	.073	2	4	.25	70	<.01	<3	.51	.02	.25	2	6.2
3263	1	37	713	1642	1.2	3	6	9261	3.04	85	<8	<2	2	40	12.6	<3	5	6	.27	.081	3	5	.09	69	<.01	4	.49	.02	.26	<2	15.3
3264	1	22	189	304	1.0	3	6	11937	2.66	68	<8	<2	<2	45	1.0	<3	3	6	.76	.075	3	6	.40	79	<.01	<3	.65	.02	.27	<2	5.3
3265	1	11	148	211	.8	3	6	5957	2.98	104	<8	<2	<2	48	.8	<3	3	6	.23	.077	3	5	.09	67	<.01	<3	.46	.02	.24	5	4.8
3266	<1	105	885	1819	1.7	4	7	109	3.51	129	<8	<2	<2	58	15.5	22	7	3	.16	.048	1	6	.02	43	<.01	<3	.33	.02	.17	2	20.7
3267	1	223	1270	2140	2.9	3	6	305	3.15	171	<8	<2	2	54	15.9	38	7	4	.21	.079	2	7	.03	56	<.01	<3	.41	.02	.24	<2	23.1
3268	1	18	354	680	1.0	3	7	6690	3.06	117	<8	<2	<2	59	3.9	<3	<3	5	.24	.078	2	4	.07	67	<.01	<3	.40	.02	.23	<2	9.2
3269	1	47	214	247	1.5	3	7	13789	3.03	126	<8	<2	<2	56	1.1	5	3	5	.26	.078	3	6	.10	78	<.01	<3	.43	.02	.25	2	12.3
3270	2	228	135	1499	5.8	4	7	88	4.66	180	<8	<2	2	58	13.6	46	12	4	.15	.045	1	9	.02	32	<.01	5	.34	.01	.18	2	59.0
RE 3270	1	229	136	1513	5.9	4	7	80	4.66	180	<8	<2	<2	58	13.5	47	13	4	.15	.044	1	11	.02	32	<.01	<3	.33	.01	.18	2	59.4
RRE 3270	1	240	127	1410	5.7	4	7	75	4.73	184	<8	<2	<2	57	12.6	47	13	4	.15	.044	1	5	.02	32	<.01	<3	.34	.02	.18	2	60.5
3271	<1	1139	82	417	6.8	4	12	49	5.55	336	<8	<2	<2	52	5.4	247	42	3	.10	.027	1	6	.01	16	<.01	3	.21	.01	.09	2	78.1
3272	2	33	483	968	2.1	3	6	463	2.98	176	<8	<2	3	74	7.1	4	4	5	.24	.088	9	10	.03	69	<.01	<3	.39	.02	.20	3	107.1
3273	1	12	317	494	1.4	4	5	6197	3.12	143	<8	<2	3	71	3.2	<3	6	8	.30	.088	15	7	.07	80	<.01	<3	.42	.02	.22	2	28.7
3274	2	10	151	236	.8	3	7	10197	2.98	117	<8	<2	3	69	1.5	<3	8	10	1.11	.084	14	8	.33	75	<.01	<3	.48	.02	.25	2	32.4
3275	1	9	84	132	.7	3	5	5806	2.78	82	<8	<2	3	73	.7	<3	7	10	1.67	.080	11	5	.62	65	<.01	3	.42	.02	.23	4	10.3
3276	2	11	130	190	1.1	3	5	4857	2.86	73	<8	<2	3	81	1.0	<3	5	11	.63	.087	14	11	.16	75	<.01	<3	.42	.02	.22	5	16.4
3277	1	18	249	490	1.3	4	8	4847	3.12	83	<8	<2	3	82	2.6	<3	3	9	.29	.086	14	6	.07	78	<.01	<3	.45	.02	.23	<2	21.8
3278	2	89	501	1352	4.0	4	8	77	3.80	102	<8	<2	2	70	10.7	24	10	4	.20	.072	4	6	.02	43	<.01	<3	.32	.02	.15	<2	34.5
3279	1	32	91	47	.4	4	7	39	4.00	70	<8	<2	2	38	.2	<3	<3	2	.05	.012	<1	8	.01	40	<.01	<3	.16	.01	.03	3	40.5
3280	2	17	90	40	.4	3	6	34	3.34	62	<8	<2	<2	42	.2	<3	<3	3	.05	.012	1	10	.01	52	<.01	<3	.18	.01	.03	3	26.7
3281	1	26	93	35	.3	4	7	28	5.21	63	<8	<2	<2	30	<.2	<3	4	2	.03	.006	<1	6	.01	26	<.01	<3	.17	.01	.03	3	53.0
3282	1	266	70	46	1.0	4	6	33	4.82	133	<8	<2	<2	32	<.2	32	7	3	.03	.005	1	9	<.01	31	<.01	3	.16	.01	.03	3	27.9
RE 3282	2	278	68	47	1.0	3	6	33	4.86	137	<8	<2	<2	32	<.2	33	7	3	.03	.006	1	10	<.01	32	<.01	<3	.17	.01	.03	3	25.8
RRE 3282	1	298	63	48	1.0	4	6	30	4.82	145	<8	<2	<2	32	<.2	37	7	3	.03	.005	<1	7	<.01	30	<.01	<3	.16	.01	.03	2	23.2
3283	3	32	45	22	.9	3	5	23	7.95	100	<8	<2	<2	27	<.2	6	14	3	.03	.003	1	8	<.01	15	<.01	5	.14	.01	.03	2	27.5
3284	1	36	79	19	1.0	4	7	21	8.08	122	<8	<2	<2	23	<.2	7	8	4	.03	.005	1	8	<.01	8	<.01	6	.14	.01	.03	2	61.8
3285	2	33	65	24	.6	5	9	25	5.71	230	<8	<2	<2	33	<.2	<3	6	4	.02	.003	<1	8	<.01	26	<.01	<3	.20	.01	.03	3	63.5
3286	2	27	65	29	.7	7	9	32	6.04	313	<8	<2	<2	36	<.2	<3	5	3	.03	.003	<1	12	<.01	8	<.01	4	.17	.01	.05	3	81.9
STANDARD C3/DS2	26	64	30	173	5.4	36	11	817	3.35	59	21	2	20	28	23.2	16	22	74	.55	.093	17	156	.59	152	.09	20	1.72	.04	.16	19	201.0
STANDARD G-2	1	3	<3	44	<.3	7	4	502	1.91	<2	<8	<2	3	76	<.2	<3	<3	35	.60	.098	6	68	.56	243	.12	<3	.97	.11	.50	2	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 20/00 **SIGNED BY**.........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

Equity Engineering Ltd. PROJECT Thorn FILE # A003522

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3287	3	29	54	28	.6	7	11	27	6.34	299	<8	<2	<2	45	<.2	5	9	2	.03	.001	<1	9	<.01	7	<.01	5	.15	.01	.04	2	59.1
3288	2	939	188	134	4.5	9	6	36	7.41	484	<8	<2	<2	71	2.8	49	12	2	.06	.005	<1	11	.01	29	<.01	3	.23	.02	.09	5	95.4
3289	3	141	94	21	1.0	6	5	44	4.13	163	<8	<2	<2	71	<.2	5	4	2	.07	.012	<1	19	.01	20	<.01	3	.23	.02	.10	4	36.0
3290	1	40	64	15	1.1	4	6	29	3.80	186	<8	<2	<2	69	<.2	6	<3	1	.05	.005	<1	10	.01	49	<.01	4	.23	.02	.10	2	35.1
3291	2	209	282	238	3.3	3	6	61	3.60	199	<8	<2	<2	96	2.1	26	<3	2	.20	.063	3	11	.02	100	<.01	3	.34	.02	.17	2	20.5
3292	5	47	1388	2746	3.0	4	8	33	4.07	197	<8	<2	<2	90	16.8	9	3	2	.17	.048	<1	5	.02	80	<.01	4	.32	.02	.16	<2	17.4
3293	3	540	133	229	2.1	4	5	25	3.80	282	<8	<2	<2	105	2.3	79	3	2	.11	.019	<1	12	.02	82	<.01	3	.33	.02	.16	2	34.2
3294	2	65	800	1119	2.8	4	7	44	3.61	273	<8	<2	<2	104	7.0	14	<3	2	.21	.062	5	7	.03	80	<.01	4	.36	.02	.19	<2	33.5
3295	3	152	854	1681	4.0	4	7	30	3.73	249	<8	<2	<2	114	13.3	26	5	3	.23	.071	4	7	.03	73	<.01	<3	.37	.02	.19	<2	41.3
3296	1	299	194	71	2.5	5	7	123	4.15	241	<8	<2	<2	115	1.0	25	4	3	.34	.066	1	8	.03	65	<.01	4	.39	.03	.22	2	48.0
3297	2	628	28	191	1.2	49	24	2830	7.76	178	9	<2	<2	360	1.3	8	<3	132	5.91	.274	28	55	2.61	116	.02	<3	3.19	.04	.12	3	92.8
3298	2	3152	282	853	21.8	38	15	1514	5.63	321	<8	<2	<2	207	8.9	312	32	69	2.84	.161	13	50	1.48	104	.01	4	1.80	.04	.17	<2	125.0
3299	1	47	8	112	<.3	86	24	2396	5.57	17	<8	<2	<2	312	.5	4	<3	126	4.62	.206	28	115	3.10	528	.02	<3	3.30	.05	.13	<2	3.0
3300	1	649	12	117	1.1	68	19	1994	5.77	57	<8	<2	<2	284	1.1	6	<3	105	4.47	.173	18	93	2.33	197	.02	3	2.52	.04	.12	<2	28.5
3301	2	248	37	72	.6	7	15	1444	4.09	53	<8	<2	3	168	.2	<3	4	23	2.44	.114	9	7	.90	277	<.01	6	1.20	.02	.27	<2	30.3
3302	2	44	286	77	4.7	6	5	27	3.39	246	<8	<2	<2	45	.6	45	17	4	.03	.012	<1	7	.01	41	<.01	3	.12	.01	.01	2	132.8
3303	4	441	348	95	16.0	6	5	16	5.12	396	<8	<2	<2	50	.4	179	37	1	.01	.015	<1	6	<.01	22	<.01	<3	.09	.01	.01	2	279.8
3304	2	189	90	31	5.9	7	9	14	5.21	336	<8	<2	<2	17	.3	42	12	1	.01	.003	1	4	<.01	6	<.01	8	.08	.01	.01	<2	134.0
3305	2	107	106	24	5.0	6	8	16	4.26	301	<8	<2	<2	20	.2	32	7	2	.01	.007	1	9	<.01	10	<.01	6	.10	.01	.01	<2	77.8
3306	2	117	1674	6470	17.2	6	7	44	3.97	357	<8	<2	<2	22	72.7	30	13	2	.04	.024	1	6	<.01	10	<.01	4	.12	.01	.01	<2	135.4
RE 3306	2	117	1739	6830	17.7	5	7	46	4.03	366	<8	<2	2	22	76.7	30	13	2	.04	.026	1	6	<.01	10	<.01	5	.13	.01	.01	<2	125.9
RRE 3306	3	118	1669	6839	17.0	5	8	46	4.15	389	<8	<2	<2	23	76.1	31	13	2	.04	.025	1	7	<.01	10	<.01	6	.14	.01	.01	<2	134.7
3307	2	29	1214	3168	5.1	6	9	64	2.37	272	<8	<2	<2	37	23.8	10	<3	3	.09	.026	2	4	.02	160	<.01	3	.30	.01	.13	<2	82.5
3308	3	29	2487	3935	6.4	6	9	60	2.70	322	<8	<2	<2	32	27.9	11	<3	3	.09	.024	2	6	.02	125	<.01	3	.33	.01	.14	<2	110.8
3309	3	77	1917	2834	5.8	8	10	62	4.01	254	<8	<2	<2	414	23.4	20	3	3	.16	.042	1	3	.01	86	<.01	6	.27	.02	.10	<2	116.1
3310	5	95	2122	4873	7.5	8	9	79	2.96	252	<8	<2	2	474	38.4	21	4	5	.23	.062	1	4	.02	103	<.01	5	.41	.02	.18	<2	133.8
3311	4	54	328	784	2.7	9	11	84	2.56	163	<8	<2	2	387	5.0	9	3	5	.26	.087	1	5	.04	221	<.01	<3	.45	.03	.21	<2	33.0
3312	3	34	96	219	1.3	10	12	404	2.88	205	<8	<2	2	161	1.4	4	<3	5	.28	.091	1	6	.04	101	<.01	5	.44	.03	.19	<2	28.0
3313	4	91	114	569	2.1	10	11	68	3.13	262	<8	<2	<2	190	4.1	13	4	5	.32	.099	1	3	.04	77	<.01	<3	.48	.04	.19	<2	99.4
3314	4	61	1142	2955	6.1	11	13	511	5.35	166	<8	<2	<2	106	20.5	11	27	5	.16	.049	1	7	.02	80	<.01	6	.35	.03	.16	<2	184.8
3315	3	48	729	1624	6.6	10	12	42	3.95	124	<8	<2	2	397	12.5	9	21	4	.23	.079	1	5	.01	87	<.01	5	.33	.04	.14	<2	50.2
3316	6	164	1536	2671	11.3	8	10	37	4.58	305	<8	<2	2	122	20.1	33	13	5	.20	.058	1	7	.02	66	<.01	6	.37	.04	.17	<2	74.1
3317	6	277	193	139	8.3	8	9	30	4.57	287	<8	<2	2	46	1.6	70	15	2	.20	.083	1	5	<.01	16	<.01	5	.13	.02	.02	2	66.4
STANDARD C3/DS2	28	63	35	173	5.3	36	11	756	3.32	59	21	3	19	28	22.9	16	22	76	.54	.093	16	157	.59	147	.09	22	1.68	.04	.16	18	198.6
STANDARD G-2	2	3	<3	45	<.3	8	4	513	1.97	<2	<8	<2	3	72	<.2	<3	<3	38	.60	.102	6	68	.58	240	.12	4	.93	.09	.48	2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME A[illegible]YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604[illegible]3-1716
(I[illegible]9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003523 Page 1

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2000E 5475N	2	113	31	92	.7	35	16	797	6.41	60	<8	<2	2	11	.9	6	<3	177	.16	.118	5	50	.68	91	.03	<3	2.35	.01	.05	<2	12.7
2000E 5450N	3	113	38	78	.6	14	9	416	7.17	54	<8	<2	2	13	.8	10	<3	194	.14	.075	5	30	.33	85	.02	<3	2.36	.01	.05	<2	12.5
2000E 5450N-D	3	112	38	83	.6	15	10	452	7.02	53	<8	<2	2	13	.7	11	<3	190	.14	.081	6	28	.36	98	.02	<3	2.35	.01	.05	<2	10.6
2000E 5425N	3	142	83	140	.9	19	14	1074	6.40	71	<8	<2	2	9	.5	7	<3	143	.08	.115	5	29	.50	88	.01	<3	2.07	.01	.05	<2	30.1
2000E 5400N	3	94	114	217	.8	17	14	1947	4.08	67	<8	<2	<2	73	1.2	6	<3	79	1.01	.163	11	21	.54	197	.01	<3	1.19	.01	.07	<2	41.1
2000E 5375N	2	82	24	42	.7	7	6	249	4.52	57	<8	<2	<2	7	.3	6	<3	125	.08	.151	4	22	.12	48	.01	<3	1.03	.01	.04	<2	15.3
2000E 5350N	2	187	19	112	<.3	19	24	1313	6.60	44	<8	<2	<2	11	.4	13	<3	144	.20	.072	7	24	.94	116	.02	<3	2.54	.01	.04	<2	11.3
2000E 5325N	3	122	25	89	.5	27	25	2619	7.91	83	<8	<2	<2	40	.8	7	<3	222	.95	.110	8	44	.86	187	.06	<3	2.75	.01	.06	<2	45.6
2000E 5300N	2	103	19	40	.6	14	7	256	4.79	44	<8	<2	<2	16	.4	8	<3	146	.19	.113	5	28	.16	81	.03	<3	1.24	.01	.03	<2	5.9
2000E 5275N	1	200	19	127	.5	22	28	2080	6.65	61	<8	<2	3	17	.6	9	<3	142	.46	.127	9	23	1.01	89	.02	<3	2.31	.01	.10	<2	11.1
2000E 5250N	2	181	59	158	.9	34	27	2329	6.85	65	<8	<2	2	13	1.3	13	<3	150	.23	.193	12	40	.90	121	.02	<3	2.63	.01	.08	<2	28.3
2000E 5225N	2	91	123	221	.5	8	15	1823	5.06	75	<8	<2	4	8	.7	4	<3	69	.14	.125	11	12	.47	100	<.01	<3	2.44	.01	.05	<2	20.4
2000E 5200N	2	172	27	99	.7	19	22	1465	8.06	53	<8	<2	3	10	.5	7	<3	150	.09	.117	6	25	.72	105	<.01	<3	3.16	.01	.06	<2	9.1
2000E 5175N	2	194	360	852	1.9	24	30	4143	7.45	204	<8	<2	3	17	5.6	16	<3	119	.28	.115	12	26	.83	169	.01	<3	2.28	.01	.08	<2	107.6
2000E 5150N	2	151	38	129	1.2	15	20	1466	7.38	78	<8	<2	3	9	1.1	15	<3	154	.12	.096	4	20	.74	99	<.01	<3	2.83	.01	.06	<2	8.9
2000E 5125N	2	237	63	206	.8	31	26	1374	6.08	173	<8	<2	2	15	1.4	10	<3	155	.22	.055	6	41	.84	162	.02	<3	2.27	.01	.06	<2	160.5
2000E 5100N	2	102	30	74	.3	30	15	929	7.19	60	<8	<2	2	13	.6	8	<3	168	.14	.116	8	60	.59	67	.06	<3	4.12	.01	.04	<2	13.2
2000E 5075N	2	71	30	59	.5	23	9	482	6.84	56	<8	<2	2	10	.3	7	<3	201	.09	.102	5	48	.42	59	.03	<3	1.91	.01	.04	<2	12.0
2000E 5050N	3	94	22	85	.4	30	15	565	4.86	46	<8	<2	2	26	.6	4	<3	163	.40	.057	5	42	.63	177	.01	<3	1.87	.01	.05	<2	7.8
2000E 5025N	2	200	26	74	.7	18	23	1048	6.12	95	<8	<2	<2	11	.4	10	<3	217	.16	.110	4	27	.68	52	.05	<3	1.78	.01	.06	<2	33.4
RE 2100E 5925N	2	109	39	59	.5	8	6	344	5.04	100	<8	<2	<2	8	.8	6	<3	113	.10	.114	5	16	.21	63	.02	<3	1.65	.01	.03	<2	14.1
2100E 5925N	2	110	36	59	.4	8	6	343	5.05	97	<8	<2	<2	8	.8	6	<3	112	.10	.114	5	17	.21	62	.02	<3	1.66	.01	.04	<2	30.2
2100E 5925N-D	2	148	47	106	.4	13	12	849	6.56	136	<8	<2	2	9	.7	4	<3	113	.12	.132	7	22	.52	72	.02	<3	3.22	.01	.04	<2	15.8
2100E 5900N	2	189	38	166	.5	27	24	1101	5.16	116	<8	<2	4	17	.9	9	<3	115	.27	.077	12	32	.90	196	.02	<3	2.56	.01	.08	<2	16.7
2100E 5875N	1	161	31	123	.3	28	25	1522	5.58	43	<8	<2	2	29	1.0	7	<3	157	.69	.081	7	29	1.10	192	.06	<3	2.22	.02	.09	<2	71.7
2100E 5850N	1	150	31	138	.6	16	19	1066	5.95	100	<8	<2	3	11	.9	7	<3	145	.16	.055	5	21	.99	104	.03	<3	3.19	.01	.05	<2	18.0
2100E 5825N	3	176	59	111	1.1	15	10	594	5.67	192	<8	<2	<2	16	1.3	4	<3	194	.33	.115	6	26	.39	96	.03	<3	2.28	.01	.04	<2	15.5
2100E 5800N	2	112	47	83	.4	10	10	585	6.65	183	<8	<2	<2	12	.8	<3	<3	198	.21	.074	5	18	.53	96	.06	<3	2.11	.01	.05	<2	45.7
2100E 5775N	2	214	34	144	.7	12	22	1638	6.08	847	<8	<2	<2	11	1.0	6	<3	130	.19	.155	8	21	.34	76	.02	<3	2.42	<.01	.03	<2	38.7
2100E 5750N	2	125	28	46	.5	9	6	275	3.34	53	<8	<2	<2	8	.4	3	<3	117	.17	.110	4	14	.14	56	.01	<3	1.07	.01	.04	<2	23.7
2100E 5725N	2	132	27	87	.4	17	14	626	4.67	66	<8	<2	<2	15	.8	8	<3	129	.22	.113	5	23	.57	72	.02	<3	2.02	.01	.03	<2	26.9
2100E 5700N	3	211	31	48	.6	8	8	312	4.36	94	<8	<2	<2	10	1.4	3	<3	157	.23	.123	4	13	.10	80	.04	<3	1.05	.01	.04	<2	8.8
2100E 5675N	2	305	35	368	1.0	24	19	1256	5.34	1018	<8	<2	<2	53	3.5	7	<3	129	1.52	.147	9	27	.67	208	.02	<3	2.65	.01	.07	<2	26.6
STANDARD DS2	14	126	31	155	<.3	34	11	811	3.03	55	27	<2	4	27	10.3	8	7	77	.52	.090	15	158	.59	151	.09	<3	1.68	.04	.15	7	200.5

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 20/00 **SIGNED BY** C. L[illegible] D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data [illegible] FA ____

Equity Engineering Ltd. PROJECT Thorn FILE # A003523

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2100E 5650N	2	116	114	176	.3	15	12	967	6.74	155	<8	<2	3	10	1.7	6	<3	137	.13	.097	8	25	.52	155	.01	<3	2.64	.01	.07	<2	14.1
2100E 5650N-D	2	133	115	185	.3	17	15	1221	6.37	158	<8	<2	3	10	1.6	9	<3	128	.13	.090	9	26	.59	165	.01	<3	2.68	.01	.07	<2	15.9
2100E 5625N	2	108	42	95	<.3	20	15	765	5.53	71	<8	<2	2	10	.5	8	<3	115	.18	.139	5	31	.66	67	.03	<3	2.69	.01	.05	<2	17.1
2100E 5600N	2	187	69	149	.5	29	27	1535	5.88	79	<8	<2	<2	16	1.2	11	<3	142	.20	.099	6	39	.75	138	.02	<3	2.54	.01	.04	<2	89.1
2100E 5575N	2	129	36	92	.3	29	17	968	7.53	67	<8	<2	3	9	.7	10	<3	155	.13	.115	6	49	.69	77	.02	<3	4.00	.01	.04	<2	17.1
2100E 5550N	2	112	27	61	<.3	17	10	690	7.26	54	<8	<2	<2	11	.8	5	<3	184	.22	.219	6	43	.38	67	.05	<3	2.50	.01	.04	<2	12.5
2100E 5525N	2	135	64	88	<.3	12	9	404	4.77	82	<8	<2	<2	13	.5	<3	<3	130	.13	.121	7	19	.24	62	.01	<3	1.82	.01	.03	<2	10.8
2100E 5050N-B	<1	18	4	33	<.3	9	6	280	1.84	<2	<8	<2	<2	39	<.2	<3	<3	62	.39	.060	6	16	.40	75	.08	<3	1.13	.04	.09	<2	1.3
2200E 5475N	2	315	982	1944	4.1	25	38	4061	6.97	1352	<8	<2	4	46	26.8	15	<3	118	1.03	.123	14	26	.88	287	.01	<3	2.14	.02	.15	<2	263.0
2200E 5450N	2	157	81	179	.8	21	22	1815	6.01	154	<8	<2	<2	14	1.4	8	<3	136	.33	.131	8	30	.70	128	.02	<3	2.45	.01	.07	<2	27.8
2200E 5425N	2	166	186	263	1.2	21	27	2509	5.92	298	<8	<2	<2	13	2.1	8	<3	118	.26	.146	9	28	.69	106	.02	<3	2.27	.01	.07	<2	54.7
2200E 5400N	1	202	106	240	1.2	5	47	4504	5.44	84	<8	<2	<2	46	2.9	<3	<3	66	1.85	.117	13	4	.58	334	<.01	<3	1.83	.01	.16	<2	33.7
2200E 5375N	2	171	138	486	.9	16	25	2813	5.32	183	<8	<2	3	21	4.3	15	<3	90	.53	.112	15	16	.77	347	.01	<3	2.02	.01	.13	<2	34.6
2200E 5350N	2	123	110	292	.9	32	18	1630	4.32	143	<8	<2	7	33	1.8	6	<3	89	.53	.090	18	37	1.03	283	.03	<3	2.12	.02	.11	<2	28.0
2200E 5350N-D	1	115	83	244	.7	32	16	1800	4.07	91	<8	<2	6	36	1.8	5	<3	84	.48	.081	19	39	1.00	523	.03	<3	2.05	.02	.10	<2	18.4
2200E 5325N	2	162	23	113	.3	18	21	1251	6.92	60	<8	<2	2	16	.9	9	<3	177	.27	.095	6	23	1.03	130	.03	<3	2.53	.01	.04	<2	6.6
2200E 5300N	2	109	27	65	<.3	14	10	872	5.85	53	<8	<2	<2	10	.2	5	<3	122	.15	.603	5	26	.36	68	.02	<3	1.55	.01	.07	<2	6.5
2200E 5275N	2	169	34	102	.5	32	20	1171	5.24	81	<8	<2	<2	14	.6	4	<3	129	.27	.131	7	40	.78	86	.02	<3	2.07	.01	.07	<2	51.8
2200E 5250N	2	153	42	145	.5	37	26	2192	5.46	90	<8	<2	2	23	1.4	9	<3	145	.42	.099	7	44	.91	200	.02	<3	2.11	.01	.07	<2	10.7
2200E 5225N	1	262	63	148	2.2	28	27	1030	5.28	152	<8	<2	3	14	1.0	14	<3	124	.23	.086	9	33	.89	107	.05	<3	1.84	.01	.10	<2	84.4
2200E 5200N	1	190	54	103	1.0	19	22	1126	4.91	154	<8	<2	2	22	.6	10	<3	112	.32	.102	9	25	.66	130	.02	<3	1.81	.01	.07	<2	53.8
RE 2200E 5200N	1	195	54	105	.9	20	22	1130	5.02	153	<8	<2	2	23	.6	9	<3	116	.34	.106	9	26	.67	133	.03	<3	1.87	.01	.07	<2	49.0
2200E 5175N	1	120	137	265	.9	24	22	2380	4.37	109	<8	<2	3	76	2.2	8	<3	83	1.18	.145	18	24	.74	473	.01	<3	1.53	.02	.13	<2	27.7
2200E 5150N	2	106	78	116	.8	17	10	647	5.51	107	<8	<2	<2	13	.6	9	<3	170	.11	.086	6	32	.38	83	.02	<3	1.76	.01	.04	<2	11.9
2200E 5150N-D	2	110	76	115	2.0	19	11	642	5.80	103	<8	<2	<2	15	1.3	8	<3	162	.12	.091	6	34	.44	93	.03	<3	1.97	.01	.05	<2	14.5
2200E 5125N	1	155	50	142	.3	33	30	2482	5.06	103	<8	<2	3	26	1.4	8	<3	120	.59	.113	8	41	.92	154	.03	<3	1.77	.02	.11	<2	22.0
2200E 5100N	2	169	53	121	.5	23	16	820	5.19	106	<8	<2	2	15	.7	8	<3	110	.25	.139	6	33	.56	83	.02	<3	2.11	.01	.07	<2	35.8
2200E 5075N	2	201	111	236	.7	23	25	1548	6.02	163	<8	<2	4	15	1.5	11	<3	125	.25	.090	7	29	.90	97	.02	<3	2.58	.02	.06	<2	54.3
2200E 5050N	3	220	417	635	2.4	20	27	2756	7.84	295	<8	<2	3	14	2.4	24	<3	117	.20	.117	8	26	.70	109	.01	<3	2.08	.01	.09	<2	101.1
2200E 5025N	2	254	266	601	2.0	32	31	2718	6.72	272	<8	<2	4	28	4.6	18	<3	110	.67	.116	12	32	.93	245	.03	<3	1.83	.02	.12	<2	100.8
2300E 5475N	2	153	338	230	4.8	19	19	1970	4.42	234	<8	<2	3	22	1.3	24	<3	75	.26	.121	11	23	.60	123	.01	<3	1.38	.01	.08	<2	36.3
2300E 5450N	2	148	85	120	1.8	17	9	588	4.94	131	<8	<2	<2	12	.8	7	<3	113	.16	.112	7	26	.39	81	.03	<3	1.78	.01	.05	<2	15.5
2300E 5425N	2	142	99	210	1.1	20	24	2404	5.54	182	<8	<2	<2	15	1.4	6	<3	118	.37	.159	7	28	.60	108	.02	<3	2.14	.01	.08	<2	26.8
STANDARD DS2	14	126	30	156	<.3	34	11	812	3.04	58	21	<2	4	28	10.4	11	9	77	.51	.089	15	159	.59	152	.09	<3	1.70	.04	.16	7	199.4

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ____ FA ____

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2300E 5400N	1	93	61	117	.4	11	14	1586	2.91	88	<8	<2	2	57	.8	6	3	50	.91	.147	22	12	.37	751	<.01	<3	1.18	.01	.12	<2	17.3
2300E 5375N	1	151	111	322	.3	32	24	2296	4.79	166	<8	<2	5	41	2.2	8	<3	96	.74	.107	13	31	1.09	252	.04	<3	1.97	.02	.13	<2	29.9
2300E 5350N	1	143	43	143	<.3	20	22	1921	5.57	67	<8	<2	3	13	.8	8	<3	113	.30	.108	8	24	.94	89	.02	<3	2.15	.01	.07	<2	9.9
2300E 5325N	1	132	58	167	<.3	17	17	1418	4.57	76	<8	<2	<2	15	.8	7	<3	102	.36	.125	8	22	.71	108	.03	<3	1.56	.01	.08	<2	11.5
2300E 5300N	1	180	35	131	<.3	26	27	1896	5.83	75	<8	<2	2	22	1.1	9	<3	133	.52	.107	10	30	1.11	133	.05	<3	2.02	.01	.08	<2	21.5
2300E 5275N	2	99	59	144	.7	35	19	911	4.10	101	<8	<2	5	24	1.0	6	3	83	.36	.096	13	39	.93	189	.02	<3	1.86	.01	.09	<2	21.6
2300E 5275N-D	2	113	61	152	1.2	38	20	1158	4.18	106	<8	<2	6	31	1.2	7	<3	86	.45	.099	17	40	1.00	248	.02	<3	1.93	.01	.10	<2	26.2
2300E 5250N	2	79	45	123	.4	23	14	913	3.72	81	<8	<2	4	22	.7	6	<3	77	.49	.105	10	29	.74	122	.02	<3	1.55	.01	.10	<2	13.3
2300E 5225N	1	97	61	158	<.3	28	18	1101	4.00	92	<8	<2	4	30	1.2	6	<3	84	.67	.103	13	32	.91	147	.04	<3	1.65	.02	.09	<2	17.2
2300E 5200N	2	109	72	157	.3	32	19	1162	4.17	210	<8	<2	6	29	1.1	7	<3	86	.44	.079	17	36	.95	223	.03	<3	1.85	.02	.09	<2	19.8
2300E 5175N	2	102	141	256	.7	30	20	1988	4.11	131	<8	<2	4	24	2.0	10	<3	76	.42	.102	15	31	.82	195	.02	<3	1.52	.01	.15	<2	34.2
2300E 5150N	1	129	370	390	3.2	21	14	3482	4.07	254	<8	<2	3	54	2.8	26	5	47	.71	.101	17	18	.48	264	<.01	<3	.99	.01	.11	<2	70.7
2300E 5125N	2	258	73	197	1.1	18	20	1121	5.09	173	<8	<2	2	20	1.2	20	5	105	.30	.103	9	22	.60	126	.03	<3	1.39	.01	.09	<2	81.3
2300E 5100N	2	630	379	317	6.3	16	19	1613	6.05	510	<8	<2	3	30	1.6	76	9	87	.18	.094	11	19	.46	313	.02	<3	1.24	.01	.10	<2	140.5
2300E 5075N	3	116	82	120	1.5	22	10	496	5.23	95	<8	<2	4	16	1.1	8	<3	91	.16	.108	8	35	.52	102	.01	<3	2.32	.01	.05	<2	24.6
2300E 5050N	2	103	65	167	.9	32	15	697	4.32	96	<8	<2	4	20	1.1	7	3	89	.21	.069	10	38	.85	134	.01	<3	2.19	.01	.08	<2	15.9
2300E 5050N-D	2	108	70	176	1.6	33	16	753	4.38	98	<8	<2	4	23	1.2	8	<3	94	.26	.078	11	39	.88	152	.01	<3	2.35	.01	.09	<2	22.9
2300E 5025N	2	326	150	320	2.9	27	22	2351	5.08	258	<8	<2	4	32	2.5	29	14	83	.45	.094	18	24	.65	368	.01	<3	1.49	.01	.10	<2	48.8
2400E 5475N	2	154	473	211	5.4	12	5	556	4.75	254	<8	<2	3	18	1.5	56	7	72	.09	.102	8	21	.30	167	<.01	<3	1.43	.01	.07	<2	118.7
2400E 5450N	3	113	4046	97	52.1	3	2	217	3.39	1867	<8	<2	2	62	.9	1986	72	34	.05	.148	3	9	.09	296	<.01	<3	.58	.02	.14	<2	444.4
2400E 5425N	1	59	426	151	1.5	2	1	225	4.70	130	<8	<2	2	24	.3	17	3	17	.06	.176	8	3	.05	109	<.01	<3	.52	.01	.07	<2	17.4
2400E 5400N	1	501	1232	257	10.2	2	4	1569	3.78	775	<8	<2	2	55	1.8	324	16	11	.42	.058	9	3	.08	263	<.01	<3	.33	.01	.06	<2	503.9
2400E 5375N	2	346	1622	283	5.8	1	6	2576	4.52	718	<8	<2	3	63	1.7	65	16	14	.12	.140	13	2	.04	250	<.01	<3	.33	.01	.12	<2	200.9
RE 2400E 5350N	2	125	69	170	.7	44	21	1201	4.33	138	<8	<2	7	48	1.6	11	<3	91	.99	.105	17	42	1.26	282	.04	<3	2.04	.03	.18	<2	18.4
2400E 5350N	2	126	65	170	.7	44	21	1201	4.33	139	<8	<2	6	47	1.5	10	<3	90	.98	.104	17	42	1.25	281	.04	<3	2.00	.03	.17	<2	17.6
2400E 5325N	1	172	98	187	.6	25	26	2095	4.65	86	<8	<2	3	37	1.5	10	<3	101	.95	.097	15	27	1.02	147	.05	<3	2.02	.02	.11	<2	13.3
2400E 5300N	2	136	146	329	.8	27	22	2075	4.57	129	<8	<2	4	29	2.9	11	<3	97	.65	.100	16	30	.94	173	.04	<3	1.81	.02	.11	<2	30.1
2400E 5275N	2	117	223	328	.3	12	24	4142	5.96	115	<8	<2	<2	13	1.5	10	<3	110	.32	.218	8	16	.71	104	.03	<3	1.86	.01	.07	<2	14.4
2400E 5250N	1	40	199	513	.7	8	14	3683	6.85	595	<8	<2	7	27	2.8	7	<3	20	.59	.105	45	4	.15	172	<.01	<3	.51	.01	.08	<2	27.0
2400E 5250N-D	<1	42	192	399	.5	9	13	3570	6.75	573	<8	<2	7	34	2.5	3	<3	19	.81	.126	46	4	.15	228	<.01	<3	.47	.01	.08	<2	20.3
2400E 5225N	2	89	218	109	1.5	8	6	1292	4.81	247	<8	<2	<2	13	.5	<3	<3	67	.12	.119	11	17	.20	80	.01	<3	1.38	.01	.04	<2	23.7
2400E 5200N	2	164	129	267	.9	27	23	2081	4.90	121	<8	<2	4	29	1.9	9	<3	95	.65	.097	16	28	.87	219	.03	<3	1.78	.01	.10	<2	27.8
2400E 5175N	2	73	75	154	.6	32	16	1282	4.12	101	<8	<2	3	21	.5	10	<3	86	.35	.160	11	41	.84	98	.02	<3	1.62	.01	.13	<2	16.1
STANDARD DS2	14	123	31	154	<.3	34	11	802	2.98	53	21	<2	4	27	10.2	11	9	75	.51	.088	15	154	.58	150	.09	<3	1.66	.04	.15	7	194.5

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003523 Page 4

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Au2 ppb
2400E 5150N	1	94	19	73	<.3	50	15	580	3.65	45	<8	<2	5	15	.3	<3	<3	96	.25	.083	8	53	.95	95	.03	<3	1.27	.01	.05	<2	9.3	-
2400E 5125N	2	154	199	244	1.5	17	13	2334	4.26	215	<8	<2	2	16	1.5	16	8	62	.23	.128	14	20	.40	235	<.01	<3	1.19	.01	.07	<2	38.7	-
2400E 5100N	1	355	161	204	2.9	23	16	2296	4.66	348	<8	<2	4	19	.5	43	5	62	.20	.101	12	25	.51	408	.01	<3	1.16	.01	.07	<2	111.9	-
2900E 5075N	3	422	101	240	1.7	31	15	1615	4.51	278	<8	<2	5	17	1.1	35	5	70	.23	.077	16	31	.65	384	.01	<3	1.42	.01	.09	<2	71.3	-
2900E 5050N	2	277	75	164	1.6	25	13	2122	4.50	240	<8	<2	4	22	.8	25	4	51	.42	.112	22	23	.51	342	.01	<3	1.06	.01	.07	<2	75.3	-
2900E 5025N	2	405	115	254	2.1	27	16	2212	4.71	298	<8	<2	4	25	1.1	30	6	61	.26	.086	22	25	.61	493	.01	<3	1.29	.01	.09	<2	66.2	-
3100E 5300N	3	52	68	120	.3	25	11	739	3.26	136	<8	<2	3	25	.5	9	<3	67	.30	.091	12	25	.51	191	.01	<3	1.16	.01	.08	<2	13.5	-
3100E 5275N	3	18	29	58	.5	7	3	279	2.65	88	<8	<2	<2	8	<.2	<3	3	78	.04	.113	11	16	.15	73	.02	<3	1.05	.01	.06	<2	2.9	-
3100E 5250N	3	19	35	60	.6	11	4	306	2.79	86	<8	<2	2	10	<.2	<3	3	81	.08	.125	11	17	.25	81	.01	3	1.21	.01	.05	<2	1.1	-
3100E 5250N-B	<1	17	3	32	<.3	11	6	274	1.74	<2	<8	<2	2	38	<.2	<3	<3	58	.38	.056	6	15	.40	74	.08	<3	1.11	.04	.08	<2	1.4	-
3100E 5225N	3	31	143	94	1.3	13	6	567	4.86	266	<8	<2	2	13	.2	9	3	98	.09	.235	9	24	.31	80	.02	<3	1.50	.01	.07	<2	3.8	-
3100E 5200N	5	55	469	337	1.4	11	8	2812	5.54	501	<8	<2	3	15	1.1	27	7	67	.07	.224	11	19	.25	167	<.01	<3	1.64	.01	.07	<2	46.1	29.7
3100E 5200N-D	5	50	446	314	1.1	11	6	1407	4.46	435	<8	<2	3	19	1.4	19	6	72	.09	.155	11	19	.23	176	<.01	<3	1.50	.01	.08	<2	13.0	31.9
3100E 5175N	3	57	261	152	.5	23	16	1960	5.59	338	<8	<2	4	24	1.9	14	3	78	.18	.123	12	32	.41	141	.02	<3	2.50	.01	.08	<2	17.0	-
3100E 5150N	3	70	171	415	2.1	31	12	716	4.17	123	<8	<2	4	30	1.3	7	3	65	.25	.150	13	37	.54	97	.01	3	2.95	.01	.07	<2	84.9	-
3100E 5125N	2	69	116	208	.4	35	14	826	3.83	113	<8	<2	4	13	.5	4	3	70	.22	.109	10	42	.67	57	.01	<3	2.33	.01	.05	<2	31.0	-
3100E 5100N	2	80	50	137	.6	41	18	851	4.61	90	<8	<2	3	31	.4	6	4	99	.30	.099	10	45	.73	73	.01	<3	1.92	.01	.05	<2	23.3	-
3100E 5075N	6	73	84	134	2.2	17	9	764	3.53	96	<8	<2	<2	152	1.5	<3	3	70	.93	.124	15	25	.22	137	.01	3	2.22	.01	.05	<2	58.5	-
3100E 5050N	7	49	38	102	<.3	23	8	385	4.14	103	<8	<2	<2	110	.6	4	5	127	.67	.042	7	30	.38	179	.02	<3	1.12	.01	.06	<2	43.8	-
3100E 5025N	9	69	77	191	.7	28	15	2109	4.22	151	<8	<2	2	91	1.1	3	3	83	.51	.084	20	35	.55	212	<.01	<3	1.72	.01	.05	<2	19.6	-
RE 3100E 5025N	9	69	81	198	.6	29	15	2136	4.31	159	<8	<2	2	89	1.1	<3	3	85	.51	.084	20	36	.56	214	<.01	<3	1.79	.01	.05	<2	28.3	-
3200E 5275N	4	101	163	219	1.0	20	9	1232	3.95	227	<8	<2	3	29	1.9	19	5	60	.17	.098	15	21	.40	228	.01	<3	1.53	.01	.10	<2	54.6	-
3200E 5250N	5	52	126	209	1.5	17	7	1432	3.72	247	<8	<2	<2	28	2.3	9	7	70	.19	.182	12	22	.35	263	.01	<3	1.35	.01	.10	<2	11.8	-
3200E 5225N	5	61	131	195	2.6	15	7	824	2.96	266	<8	<2	<2	44	3.1	13	9	53	.24	.123	13	17	.25	256	.01	<3	1.02	.01	.11	<2	59.4	-
3200E 5200N	4	45	133	255	1.1	12	6	500	3.19	438	<8	<2	2	29	2.4	15	6	45	.20	.107	13	15	.32	181	.01	<3	.98	.01	.10	<2	10.0	-
3200E 5175N	5	66	429	334	2.5	12	10	1675	6.11	643	<8	<2	5	24	2.4	20	4	59	.13	.141	13	23	.34	132	<.01	<3	1.96	.01	.06	<2	61.5	-
3200E 5175N-D	5	50	388	285	2.8	11	10	2178	5.47	596	<8	<2	2	22	2.0	21	4	62	.11	.218	12	19	.31	124	<.01	<3	1.51	.01	.06	<2	64.1	-
3200E 5150N	2	23	35	61	1.1	8	3	126	2.13	79	<8	<2	<2	12	.7	5	<3	91	.07	.051	10	13	.05	79	.01	<3	.85	.01	.05	<2	7.0	-
3200E 5125N	2	56	132	201	2.3	30	9	442	5.36	116	<8	<2	3	13	1.3	7	4	91	.12	.115	7	44	.58	71	.01	<3	2.10	.01	.05	<2	21.4	-
3200E 5100N	3	53	151	242	1.1	25	11	1115	4.48	146	<8	<2	<2	18	.9	10	6	84	.19	.113	9	32	.52	83	.01	<3	1.45	.01	.06	<2	14.6	-
3200E 5075N	2	47	66	91	.9	20	6	319	4.70	105	<8	<2	3	57	.9	<3	<3	61	.25	.124	7	36	.33	78	.01	3	2.09	.01	.04	<2	10.8	-
3200E 5050N	3	67	145	194	.8	14	10	1249	5.10	386	<8	<2	2	32	.8	6	<3	68	.15	.109	10	21	.26	107	<.01	<3	1.48	.01	.04	<2	31.0	-
3200E 5025N	4	48	80	57	.6	10	2	140	4.62	94	<8	<2	<2	39	.4	3	3	79	.18	.100	7	33	.11	63	.01	3	1.23	.01	.03	<2	11.5	-
STANDARD DS2	15	125	31	154	<.3	38	11	811	3.01	54	23	<2	4	27	10.1	9	12	76	.51	.087	16	158	.59	150	.09	3	1.66	.04	.15	7	198.1	200.2

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
AU2 - 2nd ANALYSIS ON 10 GM SAMPLE BY AQUA REGIA/ICP-MS. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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DATE RECEIVED: SEP 11 2000 DATE REPORT MAILED: Oct 6/00 SIGNED BY. ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data___ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3300E 5225N	6	86	282	222	3.0	11	8	711	3.26	545	<8	<2	3	48	1.8	29	4	38	.13	.100	17	13	.25	195	<.01	<3	1.34	.02	.12	<2	42.8
3300E 5200N	5	124	256	263	2.8	11	9	1344	3.45	672	<8	<2	4	163	2.9	31	5	31	.18	.152	21	12	.28	277	<.01	<3	1.14	.02	.20	<2	98.9
3300E 5150N	4	56	1105	293	7.6	5	3	1139	2.86	330	<8	<2	2	33	2.9	62	18	15	.08	.076	19	7	.13	394	<.01	<3	.89	.01	.12	<2	71.6
3300E 5125N	3	26	510	220	2.7	4	2	474	2.18	247	<8	<2	2	22	1.4	14	3	12	.05	.062	25	5	.08	168	<.01	<3	.76	.01	.10	<2	15.7
3300E 5125N-D	3	27	620	226	2.8	3	2	591	2.26	248	<8	<2	2	23	1.3	16	5	13	.06	.067	24	6	.09	205	<.01	<3	.78	.01	.11	<2	16.9
3300E 5100N	4	40	449	199	1.2	5	3	404	3.06	200	<8	<2	3	159	1.0	10	<3	29	.15	.097	18	9	.20	249	<.01	<3	1.16	.04	.21	<2	24.7
3300E 5075N	4	71	113	397	1.3	28	13	1261	4.56	204	<8	<2	3	83	1.4	18	<3	80	.30	.078	10	35	.65	79	.01	<3	1.54	.01	.08	<2	23.7
3300E 5050N	3	73	197	261	.9	14	32	5833	7.14	741	<8	<2	3	32	2.2	16	<3	56	.16	.212	15	23	.23	68	.01	<3	3.05	.01	.05	<2	147.6
3300E 5025N	2	89	186	247	1.2	25	15	1634	5.28	287	<8	<2	2	39	1.1	18	4	81	.26	.123	10	32	.52	90	.01	<3	1.60	.01	.08	<2	24.6
3400E 5175N	12	72	66	103	<.3	6	10	1237	3.30	86	<8	<2	4	32	.3	5	<3	16	.33	.095	23	4	.38	236	<.01	<3	1.14	.01	.12	<2	12.7
3400E 5150N	13	46	94	114	<.3	4	12	2461	4.43	182	<8	<2	5	16	.5	6	<3	14	.15	.108	21	5	.21	112	<.01	<3	1.07	.01	.12	<2	14.1
3400E 5125N	4	27	62	151	.5	8	11	1944	4.17	208	<8	<2	4	23	.3	10	<3	21	.19	.124	16	8	.18	126	<.01	<3	1.00	.01	.12	<2	12.1
RE 3400E 5125N	4	27	61	149	.7	8	11	1916	4.12	207	<8	<2	4	23	.3	11	<3	20	.19	.123	15	8	.17	122	<.01	<3	.94	.01	.11	<2	12.0
3400E 5100N	4	25	44	128	.3	4	3	708	3.21	77	<8	<2	2	22	.4	8	<3	10	.15	.094	10	2	.04	122	.01	<3	.60	.01	.16	<2	6.4
3400E 5075N	2	22	49	244	<.3	10	7	1381	3.60	94	<8	<2	4	51	1.3	6	<3	28	.28	.121	17	9	.40	248	<.01	<3	1.18	.01	.10	<2	2.9
3400E 5050N	4	29	153	222	1.4	6	4	416	3.21	182	<8	<2	2	28	1.4	20	<3	61	.13	.080	13	10	.11	195	.01	<3	1.12	.01	.11	<2	8.7
3400E 5025N	4	48	495	642	3.4	6	8	3524	5.40	547	<8	<2	3	27	2.5	62	6	29	.13	.132	19	10	.23	109	<.01	<3	1.05	.01	.08	<2	86.0
3400E 5025N-D	4	51	558	672	3.0	6	9	4385	5.37	553	<8	<2	4	23	3.4	63	5	29	.11	.121	20	9	.24	121	<.01	<3	1.05	.01	.09	<2	86.7
3500E 5300N	4	38	119	174	.8	15	10	993	2.87	189	<8	<2	5	33	1.3	9	3	53	.35	.112	19	17	.35	430	.02	<3	.78	.02	.11	<2	17.8
3500E 5300N-B	1	17	<3	34	<.3	11	6	288	1.82	3	<8	<2	2	41	<.2	<3	<3	62	.42	.056	6	16	.40	78	.09	<3	1.19	.06	.10	<2	.6
3500E 5275N	5	69	2710	441	35.8	4	4	1532	3.17	1665	<8	<2	4	31	7.6	654	8	15	.11	.102	25	4	.08	248	<.01	<3	.54	.01	.17	<2	465.3
3500E 5250N	4	67	1037	363	7.5	3	4	1392	4.64	1647	<8	<2	4	108	2.1	88	<3	25	.02	.150	15	4	.03	228	<.01	<3	.90	.02	.13	<2	52.2
3500E 5225N	8	104	2902	286	31.0	6	2	446	4.50	2124	<8	<2	4	87	3.2	352	3	37	.13	.128	17	10	.14	310	<.01	<3	1.23	.02	.22	<2	245.1
STANDARD DS2	15	127	31	157	<.3	35	11	812	3.05	57	20	<2	3	28	10.5	12	7	76	.52	.089	16	159	.59	153	.09	<3	1.69	.04	.16	8	191.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003547 Page 1
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2600E 6150N	3	68	51	116	1.8	22	17	1970	4.17	116	<8	<2	3	72	1.4	7	<3	76	.59	.445	10	34	.46	312	.01	<3	2.16	.01	.08	<2	11.8
2600E 6125N	3	58	56	74	.9	15	7	688	3.77	103	<8	<2	<2	32	.6	4	<3	111	.25	.210	10	24	.19	243	.02	<3	1.09	.01	.10	<2	5.3
2600E 6100N	3	62	53	127	1.0	18	13	984	3.77	121	<8	<2	2	47	.6	7	3	66	.55	.272	9	25	.44	316	.01	<3	1.55	.01	.12	<2	12.5
2600E 6050N	3	50	53	89	.5	14	6	544	4.54	126	<8	<2	3	28	.5	4	<3	99	.20	.163	9	28	.22	283	.01	<3	1.60	.01	.09	<2	15.2
2600E 6050N-D	4	59	57	92	.5	16	7	671	4.60	125	<8	<2	3	27	.5	6	<3	92	.21	.150	9	30	.22	258	.01	<3	1.81	.01	.09	<2	12.1
2600E 6000N	2	73	30	149	.3	21	10	1364	3.69	64	<8	<2	2	44	.8	6	<3	76	.51	.164	15	30	.40	563	.01	<3	1.50	.01	.14	<2	8.2
2600E 5975N	3	86	35	89	.3	33	20	1394	3.81	81	<8	<2	3	45	.5	9	<3	56	.43	.161	16	30	.49	348	.01	<3	1.34	.01	.10	<2	64.9
2600E 5925N	2	109	43	131	.7	43	23	1467	4.10	88	<8	<2	2	65	1.0	7	<3	84	1.01	.172	13	47	.77	323	.02	3	1.50	.02	.20	<2	23.3
2600E 5925N-D	2	111	45	133	.6	44	22	1385	4.24	94	<8	<2	2	63	.9	7	<3	88	.97	.166	13	47	.81	312	.02	4	1.49	.02	.21	<2	21.5
2600E 5900N	3	39	42	120	.5	22	9	945	3.49	84	<8	<2	<2	36	.6	7	<3	85	.30	.096	9	33	.39	291	.01	<3	1.26	.01	.09	<2	8.8
2600E 5875N	2	45	40	161	<.3	30	13	1207	3.93	88	<8	<2	3	25	.6	6	<3	94	.27	.131	9	39	.55	354	.01	<3	1.46	.01	.11	<2	8.5
2600E 5850N	9	159	69	91	.9	31	8	1514	3.79	85	<8	<2	<2	27	.3	4	<3	83	.25	.129	12	38	.31	269	.01	<3	1.50	.01	.08	<2	11.5
2600E 5825N	4	52	73	122	.5	21	15	1331	3.84	126	<8	<2	<2	74	2.0	3	<3	82	.64	.121	9	29	.34	235	.02	<3	1.60	.01	.09	<2	8.5
2600E 5800N	5	45	69	109	.3	23	7	501	6.82	198	<8	<2	4	26	.3	10	3	162	.27	.199	9	45	.53	242	.02	<3	1.89	.01	.11	<2	30.3
2600E 5750N	3	88	48	147	.7	32	15	901	3.70	76	<8	<2	2	18	.4	6	<3	78	.23	.112	12	40	.62	107	.02	<3	1.47	.01	.09	<2	28.7
2600E 5725N	4	80	58	146	1.7	35	11	1832	4.08	116	<8	<2	<2	47	1.6	6	<3	86	.56	.139	9	44	.50	301	.02	<3	1.37	.01	.14	<2	7.4
2600E 5700N	5	111	116	208	1.3	8	4	331	5.44	364	<8	<2	3	26	.3	22	3	45	.07	.157	10	17	.12	68	<.01	<3	.82	.01	.07	<2	27.7
2600E 5675N	4	53	82	71	1.1	8	3	276	2.80	121	<8	<2	<2	18	.9	6	3	67	.11	.175	10	15	.07	111	.01	<3	.94	.01	.08	<2	10.6
RE 2600E 5675N	5	54	81	72	1.2	8	3	288	2.85	125	<8	<2	<2	18	1.0	5	<3	68	.11	.181	10	15	.07	113	.02	<3	.99	.01	.08	<2	8.9
2600E 5650N	4	36	76	104	1.0	7	3	368	3.30	141	<8	<2	<2	50	3.1	7	3	70	.49	.563	11	19	.17	363	.02	<3	1.14	.01	.15	<2	7.4
2600E 5650N-B	<1	15	4	30	<.3	10	6	256	1.73	2	<8	<2	2	37	<.2	<3	<3	56	.36	.054	6	15	.36	70	.08	<3	1.03	.04	.08	<2	2.2
2600E 5625N	2	22	37	83	.3	4	2	382	1.57	56	<8	<2	<2	26	2.2	5	5	62	.24	.051	10	8	.07	203	.02	<3	.52	.01	.10	<2	4.1
2600E 5600N	4	56	150	260	1.0	13	8	1040	3.49	239	<8	<2	3	43	1.3	10	<3	64	.23	.131	12	18	.32	333	.01	<3	1.40	.01	.14	<2	26.8
2600E 5575N	4	119	162	142	1.0	15	6	368	5.99	183	<8	<2	5	23	.7	23	<3	111	.20	.080	11	25	.42	170	.01	<3	2.24	.01	.07	<2	44.2
2600E 5550N	4	54	287	266	1.9	8	7	1060	2.75	232	<8	<2	4	49	2.1	26	7	30	.35	.090	14	9	.24	213	.01	<3	.54	.02	.10	<2	61.1
2600E 5525N	3	43	113	242	.7	21	12	1194	3.16	123	<8	<2	4	37	1.1	15	3	55	.43	.111	14	26	.56	180	.02	<3	.93	.02	.13	<2	26.3
2600E 5500N	2	62	75	232	.6	21	11	849	3.23	89	<8	<2	4	16	1.0	7	3	61	.20	.129	11	30	.50	108	.01	<3	1.56	.01	.07	<2	96.5
2600E 5475N	3	88	88	108	1.4	23	7	561	4.35	164	<8	<2	2	16	.9	10	4	86	.11	.085	10	31	.36	89	.02	<3	1.30	.01	.07	<2	12.3
2600E 5475N-D	4	80	81	113	1.0	22	7	591	4.30	148	<8	<2	3	15	.9	4	<3	74	.11	.086	9	31	.36	87	.02	<3	1.35	.01	.06	<2	10.4
2600E 5450N	2	57	54	106	2.1	28	8	345	3.45	62	<8	<2	4	14	.5	6	3	70	.21	.125	11	38	.72	56	.02	<3	1.41	.01	.07	<2	15.8
2600E 5425N	3	36	76	91	.3	12	6	809	2.96	133	<8	<2	<2	12	.4	6	5	70	.11	.175	10	21	.24	98	.01	<3	.85	.01	.07	<2	8.1
2600E 5375N	3	59	108	197	4.2	21	9	2287	4.42	156	<8	<2	<2	35	3.1	28	13	99	.32	.148	8	34	.35	235	.01	<3	1.46	.01	.07	<2	43.1
2600E 5350N	6	82	1704	278	34.7	12	6	578	5.15	741	<8	<2	<2	56	5.9	951	243	91	.22	.107	6	28	.18	296	.01	<3	.85	.01	.11	<2	478.3
STANDARD DS2	14	124	32	150	.3	34	11	802	3.10	54	20	<2	4	25	10.1	9	9	72	.49	.088	14	148	.57	149	.08	<3	1.59	.04	.14	7	217.7

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 13 2000 DATE REPORT MAILED: Sept 25/00 SIGNED BY C. L D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data L FA ____

ACME A[illegible]TICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]OUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604[illegible]1-1716
(I[illegible] 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003547 Page 2
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Au2 ppb
2600E 5325N	10	510	14950	120	611.0	19	<1	120	13.40	9770	<8	20	4	30	2.0	7500	1440	20	.04	.410	4	50	.10	320	.01	<3	.30	.04	.40	2	13477.8	-
2600E 5300N	5	123	150	439	3.2	29	13	797	5.37	211	<8	<2	3	32	3.0	14	4	100	.26	.121	7	50	.58	208	.01	<3	2.14	.01	.06	<2	58.9	-
2600E 5275N	5	102	227	384	4.8	16	11	1477	3.58	266	<8	<2	3	50	7.4	35	9	54	.36	.172	12	21	.33	226	.01	<3	1.36	.01	.08	<2	242.1	-
2600E 5250N	3	219	217	292	2.6	21	17	2153	3.80	183	<8	<2	2	25	2.2	21	6	67	.21	.145	12	29	.51	205	.01	<3	1.19	.01	.08	<2	44.1	-
2600E 5225N	4	144	160	249	2.1	16	9	1317	3.57	240	<8	<2	4	31	1.5	14	<3	54	.23	.128	16	22	.37	207	.01	<3	1.47	.01	.09	<2	57.6	-
2600E 5200N	4	83	200	261	1.7	22	13	2046	5.47	175	<8	<2	2	23	2.3	4	5	83	.19	.165	8	34	.40	119	.01	<3	1.65	.01	.08	<2	29.3	-
2600E 5175N	4	84	164	128	1.2	14	5	262	3.36	139	<8	<2	<2	23	1.6	6	3	100	.08	.116	8	22	.12	135	.01	<3	.83	.01	.06	<2	11.4	-
2600E 5150N	3	96	102	142	1.2	25	10	1059	5.38	122	<8	<2	<2	31	4.3	<3	4	156	.38	.232	8	32	.40	356	.03	<3	1.25	.01	.10	<2	20.5	-
2600E 5150N-D	2	101	84	135	1.4	23	10	1083	4.81	106	<8	<2	<2	34	6.6	4	3	147	.40	.194	8	29	.28	347	.05	<3	1.07	.01	.09	<2	8.0	-
2600E 5125N	2	114	142	351	.7	43	20	1608	4.70	131	<8	<2	3	30	1.5	8	<3	100	.36	.102	11	50	.98	222	.03	<3	1.52	.02	.10	<2	68.7	-
2600E 5100N	3	95	149	210	1.9	22	9	672	4.96	143	<8	<2	3	28	.8	8	3	89	.28	.220	11	36	.58	211	.02	<3	1.88	.01	.09	<2	27.2	-
2600E 5050N	3	163	152	243	4.4	18	5	1021	4.00	99	<8	<2	<2	77	2.8	6	<3	117	.50	.168	8	21	.09	170	.04	3	.62	.01	.09	<2	9.8	-
2600E 5025N	8	109	377	309	3.2	14	9	1497	5.57	272	<8	<2	4	23	1.9	16	5	74	.29	.199	12	25	.35	123	.01	<3	1.70	.01	.07	<2	62.9	-
2600E 4975N	4	117	111	193	1.5	29	8	523	5.33	163	<8	<2	2	24	3.2	9	<3	111	.21	.288	10	43	.51	132	.02	<3	1.71	.01	.10	<2	14.6	-
2600E 4950N	3	118	113	520	2.3	30	16	2158	4.76	169	<8	<2	2	50	7.9	8	<3	103	.57	.117	10	35	.70	309	.02	<3	1.63	.01	.11	<2	9.8	-
2600E 4925N	3	71	46	110	.4	37	15	666	5.01	96	<8	<2	4	21	.5	3	<3	107	.23	.067	10	46	.98	131	.01	<3	2.50	.01	.08	<2	9.3	-
2600E 4900N	2	81	93	197	1.4	27	13	1158	3.73	151	<8	<2	3	28	1.4	4	<3	69	.36	.100	15	30	.62	171	.02	<3	1.33	.01	.12	<2	15.0	-
2600E 4875N	2	75	44	126	1.3	31	14	684	3.67	74	<8	<2	3	22	.3	3	4	83	.28	.094	11	39	.82	98	.02	<3	1.57	.01	.09	<2	25.1	-
2600E 4850N	3	67	58	128	.7	23	10	1074	2.60	85	10	<2	<2	202	.8	<3	<3	53	1.71	.110	14	23	.45	569	.01	3	1.30	.02	.11	<2	52.6	12.1
2600E 4850N-D	4	73	72	146	1.1	25	11	1178	3.06	108	<8	<2	2	158	.9	<3	<3	61	1.35	.102	16	27	.50	559	<.01	<3	1.46	.02	.11	<2	768.9	11.0
2600E 4825N	3	59	50	116	1.2	21	12	1075	3.10	68	<8	<2	<2	25	.3	<3	<3	66	.37	.113	11	27	.49	188	.01	<3	1.22	.01	.10	<2	7.7	-
2600E 4800N	3	59	52	162	<.3	25	13	1312	3.27	51	<8	<2	3	29	1.3	<3	3	67	.42	.095	17	27	.56	281	.02	<3	1.40	.02	.11	<2	7.2	-
RE 2600E 4800N	3	60	50	168	<.3	26	13	1389	3.35	52	<8	<2	3	30	1.3	<3	<3	68	.43	.099	18	28	.58	286	.02	<3	1.43	.02	.11	<2	6.0	-
2600E 4775N	2	53	58	136	.4	15	11	1086	2.97	52	<8	<2	4	36	.6	<3	<3	45	.65	.122	24	14	.47	287	.01	<3	1.36	.02	.14	<2	11.9	-
2600E 4750N	2	64	40	115	.3	24	16	1108	3.49	55	<8	<2	3	25	.3	<3	3	71	.52	.105	14	24	.61	216	.01	<3	1.30	.02	.12	<2	7.6	-
2600E 4725N	1	90	40	146	.3	36	21	1253	3.84	71	<8	<2	3	38	.9	7	3	91	.86	.096	10	35	.77	176	.03	<3	1.31	.02	.13	<2	6.7	-
2600E 4700N	2	112	42	137	.5	39	22	1284	4.60	90	<8	<2	3	39	.8	9	<3	105	.77	.097	11	38	.88	204	.02	<3	1.43	.02	.12	<2	19.2	-
2600E 4675N	2	116	27	123	<.3	34	21	1204	4.85	102	<8	<2	<2	28	.9	6	<3	117	.51	.084	9	36	.67	214	.01	<3	1.78	.02	.10	<2	170.9	-
2600E 4650N	2	153	47	153	.5	41	26	1551	4.80	111	<8	<2	4	38	.9	6	<3	109	1.03	.095	11	40	.89	277	.03	<3	1.76	.02	.16	<2	25.6	-
2600E 4625N	2	40	43	131	<.3	13	11	855	2.88	44	<8	<2	3	30	.3	<3	<3	44	.54	.105	19	14	.40	200	.01	<3	1.15	.01	.11	<2	5.2	-
2600E 4600N	2	64	54	133	.5	31	18	818	5.29	122	<8	<2	4	24	.6	6	3	126	.33	.074	11	43	.72	227	.01	<3	2.24	.01	.07	<2	5.4	-
2600E 4575N	5	88	36	133	.8	157	35	2809	7.52	331	<8	<2	3	21	1.1	8	<3	80	.18	.108	19	98	1.16	239	<.01	<3	1.60	.01	.05	<2	8.4	-
2600E 4550N	6	77	41	175	.3	167	49	1773	5.54	309	<8	<2	2	38	1.4	7	3	71	.68	.091	13	90	1.32	264	<.01	<3	1.95	.01	.07	<2	5.8	-
STANDARD DS2	14	126	33	153	<.3	35	11	821	3.02	61	21	<2	3	26	10.5	9	10	74	.50	.091	15	152	.59	151	.09	<3	1.61	.04	.15	8	199.0	200.2

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
AU2 - 2nd ANALYSIS ON 10 GM SAMPLE BY AQUA REGIA/ICP-MS. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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DAT[illegible]: [illegible]EP 13 2000 DATE REPORT MAILED: Oct 6/00 SIGNED BY C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ____

Equity Engineering Ltd. PROJECT Thorn FILE # A003547

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2600E 4550N-D	6	86	48	185	<.3	172	45	2566	5.29	295	<8	<2	3	40	1.8	9	<3	73	.67	.122	16	85	1.16	310	<.01	<3	1.86	.01	.08	<2	8.4
2600E 4525N	4	85	36	146	.3	235	31	1002	6.64	547	<8	<2	2	42	1.2	13	<3	63	.50	.076	18	96	1.89	212	<.01	<3	2.48	.01	.06	<2	3.8
2600E 4500N	4	176	67	290	2.5	210	57	3393	5.96	1087	<8	<2	3	44	2.1	14	<3	79	.71	.086	22	70	1.16	492	<.01	<3	1.80	.01	.10	<2	10.3
2600E 4475N	5	96	124	339	1.4	206	46	5210	6.46	397	<8	<2	2	34	2.9	11	<3	70	.51	.109	14	93	1.01	496	<.01	<3	1.39	.01	.08	<2	9.8
2600E 4450N	6	110	232	612	3.5	144	30	4178	6.22	491	<8	<2	<2	76	4.5	15	<3	46	1.41	.206	11	44	.60	159	<.01	3	.70	<.01	.08	<2	18.2
2600E 4325N	7	284	531	788	3.8	229	52	3469	6.76	474	<8	<2	2	42	7.6	22	11	69	1.02	.198	16	81	.88	475	<.01	<3	1.37	.01	.12	<2	24.5
2600E 4300N	6	94	208	444	1.4	36	19	2193	4.43	443	<8	<2	4	40	3.4	18	<3	41	.87	.113	21	15	.35	467	<.01	<3	.89	.01	.18	<2	52.4
2600E 4275N	6	81	153	345	1.2	39	19	1816	4.28	382	<8	<2	4	31	2.4	14	<3	41	.63	.092	20	16	.29	394	<.01	<3	.92	.01	.16	<2	35.2
2600E 4250N	6	77	113	311	.6	43	16	1574	3.79	356	<8	<2	4	32	1.7	16	<3	36	.71	.117	17	14	.34	324	<.01	3	.77	.01	.20	<2	24.3
2600E 4250N-B	1	15	3	30	<.3	11	6	256	1.63	3	<8	<2	2	35	<.2	<3	<3	55	.35	.054	5	15	.36	69	.08	<3	.97	.04	.08	<2	1.5
2600E 4225N	5	85	194	337	1.6	24	15	1961	3.87	306	<8	<2	3	41	3.6	13	<3	44	.77	.116	19	15	.32	421	<.01	<3	.93	.01	.12	<2	37.5
2600E 4200N	2	92	28	108	.8	26	14	1731	6.25	115	<8	<2	<2	13	.8	7	<3	167	.19	.181	5	42	.42	122	.03	<3	1.66	.01	.07	<2	5.9
2600E 4175N	2	83	25	89	1.4	21	10	764	6.69	110	<8	<2	<2	11	.7	6	<3	169	.16	.117	5	40	.40	113	.04	<3	2.10	.01	.06	<2	5.8
2600E 4150N	2	96	26	90	.5	26	13	606	5.56	147	<8	<2	<2	22	.8	7	3	115	.31	.129	5	38	.56	101	.02	<3	2.09	.01	.10	<2	158.6
2600E 4125N	4	69	44	93	.6	16	8	625	5.70	234	<8	<2	<2	8	.7	6	<3	156	.09	.258	5	28	.19	150	.02	<3	1.28	.01	.07	<2	16.4
2600E 4100N	3	75	42	95	.9	16	7	566	7.50	258	<8	<2	<2	10	.7	11	<3	184	.13	.499	5	35	.30	105	.03	<3	1.79	.01	.08	<2	39.3
2600E 4075N	5	211	34	61	1.2	17	9	587	5.66	292	<8	<2	<2	28	1.1	8	<3	151	.27	.171	7	26	.15	112	.03	<3	1.53	.01	.08	<2	38.8
2600E 4050N	4	86	45	108	.9	22	10	595	5.81	259	<8	<2	<2	14	.6	9	<3	117	.15	.204	5	31	.34	127	.01	<3	2.00	.01	.07	<2	28.0
2600E 4025N	4	98	29	66	1.1	11	6	315	4.50	152	<8	<2	<2	23	.5	<3	<3	126	.21	.124	5	22	.15	59	.04	3	1.23	.01	.06	<2	25.7
2600E 4000N	4	129	27	65	.7	35	15	394	5.58	115	<8	<2	<2	48	.8	6	<3	185	.58	.120	3	148	1.14	67	.21	<3	1.77	.01	.44	<2	11.2
2600E 3975N	3	168	25	110	1.1	13	27	2288	7.42	247	<8	<2	<2	19	1.0	8	9	228	.34	.279	5	22	.47	101	.06	<3	1.71	.01	.16	3	9.2
2600E 3950N	4	170	21	60	.8	11	16	2538	7.19	127	<8	<2	<2	19	.2	4	<3	149	.25	.387	4	20	.23	61	.02	<3	1.40	.01	.12	<2	5.4
RE 2600E 3925N	2	65	17	92	.3	14	12	731	4.38	159	<8	<2	<2	16	.7	<3	<3	135	.20	.115	5	22	.36	95	.02	<3	1.59	.01	.12	<2	5.6
2600E 3925N	2	63	16	91	.3	14	12	713	4.34	160	<8	<2	<2	15	.7	4	<3	133	.19	.112	4	22	.36	94	.01	<3	1.55	.01	.12	<2	5.2
2600E 3925N-D	2	67	18	87	.3	14	12	709	4.38	176	<8	<2	<2	14	.6	4	<3	129	.17	.110	4	22	.35	91	.01	<3	1.52	.01	.12	<2	15.6
2600E 3875N	2	93	17	93	.8	16	14	582	4.99	155	<8	<2	<2	13	.6	4	<3	152	.15	.116	5	26	.47	110	.02	<3	1.95	.01	.12	<2	5.4
2600E 3825N	2	152	40	217	.8	15	14	1353	3.72	330	12	<2	<2	186	4.9	8	<3	94	2.18	.148	5	20	.29	258	.02	4	.98	.01	.10	<2	5.7
2600E 3800N	1	155	30	482	.6	41	25	1302	5.86	357	<8	<2	2	37	2.6	13	<3	135	.90	.044	4	72	1.52	169	.03	<3	2.57	.01	.10	<2	5.0
2600E 3775N	3	161	36	252	.5	35	37	10028	4.94	231	<8	<2	<2	48	2.1	3	<3	112	.64	.126	9	26	.29	409	.02	<3	1.43	.01	.08	<2	2.3
2600E 3750N	3	85	20	109	<.3	20	17	848	6.36	368	<8	<2	<2	25	.8	7	<3	153	.50	.066	5	31	.66	165	.01	<3	2.51	.01	.08	<2	4.1
2600E 3725N	2	100	31	110	.3	15	21	1505	5.58	254	<8	<2	<2	51	1.5	6	<3	155	1.01	.069	6	25	.58	216	.01	<3	2.10	.01	.13	<2	2.9
2600E 3700N	1	157	41	321	.6	22	36	3308	6.64	473	<8	<2	<2	42	5.5	11	<3	168	.97	.115	8	28	.91	337	.03	<3	2.34	.02	.21	<2	4.6
2700E 6250N	3	56	41	113	1.2	29	10	834	5.09	148	<8	<2	3	16	.6	7	<3	99	.14	.074	9	39	.60	108	.01	<3	1.87	.01	.07	<2	27.2
STANDARD DS2	14	126	32	156	<.3	35	11	829	3.02	60	19	<2	4	25	10.7	10	10	74	.49	.089	14	152	.59	153	.09	3	1.61	.04	.14	8	205.1

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2700E 6225N	2	55	40	91	.4	22	11	899	4.05	93	<8	<2	2	28	.7	4	<3	81	.36	.133	10	31	.45	125	.01	<3	2.25	.01	.08	<2	42.1
2700E 6200N	2	54	38	98	.4	22	11	977	4.04	92	<8	<2	2	29	.8	<3	<3	81	.34	.128	9	29	.45	160	.01	<3	1.99	.01	.09	<2	74.3
2700E 6175N	2	63	33	101	.6	29	13	652	4.37	87	<8	<2	3	15	.3	<3	<3	99	.18	.070	9	37	.55	127	.01	<3	2.17	.01	.06	<2	9.7
2700E 6175N-B	<1	16	4	31	<.3	10	6	258	1.67	3	<8	<2	2	35	<.2	<3	<3	58	.33	.056	5	16	.37	70	.08	<3	1.00	.04	.08	<2	1.1
2700E 6150N	2	47	36	124	.5	22	9	405	3.67	100	<8	<2	3	24	.7	3	<3	87	.23	.093	10	28	.48	149	.01	<3	1.73	.01	.08	<2	3.6
2700E 6125N	5	87	39	106	.5	18	6	525	4.23	98	<8	<2	<2	48	1.0	<3	<3	96	.24	.113	9	29	.28	145	.01	<3	1.79	.01	.09	<2	10.8
2700E 6100N	3	69	38	85	.8	26	9	686	3.71	73	<8	<2	<2	25	2.3	<3	<3	98	.23	.101	9	34	.35	184	.01	<3	1.79	.01	.06	<2	12.7
2700E 6075N	2	88	32	103	.3	38	15	605	4.30	69	<8	<2	4	18	.7	<3	<3	112	.20	.062	8	45	.65	211	.01	<3	2.01	.01	.06	<2	16.6
2700E 6050N	2	26	36	93	<.3	12	9	1437	3.28	59	<8	<2	<2	33	1.2	4	<3	106	.35	.112	9	22	.15	417	.02	<3	.85	.01	.15	<2	19.7
2700E 6025N	3	102	85	223	.8	27	19	1397	4.05	241	<8	<2	3	51	2.3	7	3	80	.53	.196	12	30	.60	408	.01	<3	2.10	.01	.19	<2	7.8
2700E 5975N	2	69	35	109	<.3	31	16	1172	4.07	76	<8	<2	2	44	.7	4	<3	111	.47	.115	7	43	.62	361	.01	<3	1.63	.01	.08	<2	7.5
2700E 5925N	2	96	47	103	.4	45	26	1463	4.85	107	<8	<2	2	32	.7	9	<3	118	.41	.107	9	58	.81	228	.02	<3	1.64	.01	.08	<2	10.7
2700E 5900N	3	58	41	92	<.3	30	13	478	4.80	134	<8	<2	4	13	.3	<3	<3	112	.13	.075	8	44	.59	144	.01	<3	2.27	.01	.05	<2	7.8
2700E 5875N	2	30	30	90	<.3	16	8	588	3.68	85	<8	<2	2	13	.5	<3	<3	112	.14	.135	8	27	.31	151	.02	<3	1.27	.01	.06	<2	29.9
2700E 5850N	2	28	28	110	<.3	20	8	435	3.60	70	<8	<2	2	12	.3	<3	<3	95	.09	.057	8	32	.43	114	.01	<3	1.54	.01	.06	<2	8.5
2700E 5825N	2	15	23	33	<.3	6	2	134	1.53	40	<8	<2	<2	17	.3	<3	3	65	.11	.050	9	12	.11	168	.01	<3	.79	.01	.04	<2	7.9
2700E 5825N-D	2	40	38	87	<.3	28	9	422	4.66	87	<8	<2	3	14	.7	<3	<3	100	.13	.105	8	42	.61	117	.01	<3	1.76	.01	.05	<2	7.5
2700E 5800N	2	24	32	85	<.3	13	6	518	2.88	85	<8	<2	2	21	.4	4	3	79	.22	.083	10	22	.31	237	.01	<3	1.14	.01	.09	<2	5.8
2700E 5775N	2	40	34	110	.3	25	9	498	3.88	101	<8	<2	3	21	.5	<3	<3	95	.22	.064	9	32	.55	196	.01	<3	1.69	.01	.09	<2	2.8
2700E 5750N	4	48	28	76	<.3	26	11	716	3.33	70	<8	<2	<2	19	.9	<3	<3	91	.18	.072	8	34	.48	150	.01	<3	1.39	.01	.08	<2	3.1
2700E 5725N	3	64	31	85	.4	30	11	679	4.39	81	<8	<2	2	28	.9	<3	<3	111	.30	.109	8	43	.46	127	.02	<3	1.83	.01	.07	<2	6.3
RE 2700E 5725N	3	65	30	86	.4	28	11	687	4.38	83	<8	<2	2	28	.8	3	<3	111	.30	.108	8	44	.46	129	.02	<3	1.84	.01	.07	<2	5.4
2700E 5700N	2	25	35	98	<.3	15	6	436	2.99	82	<8	<2	2	17	.3	3	3	91	.17	.051	8	24	.32	152	.02	<3	1.00	.01	.10	<2	3.1
2700E 5675N	2	48	41	129	.3	28	14	905	3.74	71	<8	<2	2	30	1.1	3	<3	104	.40	.086	8	36	.59	288	.01	<3	1.49	.01	.11	<2	14.2
2700E 5650N	3	56	40	111	.4	26	11	714	4.40	91	<8	<2	2	22	.6	4	<3	116	.23	.083	7	38	.54	154	.01	<3	1.48	.01	.08	<2	7.9
2700E 5625N	4	60	74	196	.6	19	12	1696	3.23	142	<8	<2	3	47	2.9	<3	<3	60	.50	.152	14	21	.45	499	.01	<3	1.46	.01	.16	<2	9.1
2700E 5600N	3	79	125	107	1.4	10	6	415	2.27	125	<8	<2	2	44	.7	6	4	44	.18	.071	11	15	.28	144	.01	<3	.91	.01	.08	<2	15.9
2700E 5575N	9	168	717	179	4.5	3	1	642	5.82	755	<8	<2	8	130	.4	13	<3	26	.12	.208	17	5	.05	306	<.01	<3	.36	.02	.14	<2	273.9
2700E 5550N	3	43	1259	102	14.4	1	1	328	2.62	511	<8	<2	4	139	.4	167	21	10	.05	.084	9	3	.04	284	<.01	<3	.28	.01	.20	<2	682.9
2700E 5525N	3	56	75	224	1.0	12	8	785	2.83	187	<8	<2	5	45	1.8	5	5	53	.92	.101	14	16	.36	163	.02	<3	.61	.02	.09	<2	81.1
2700E 5500N	3	386	133	487	1.3	12	8	355	2.60	137	<8	<2	4	36	1.8	13	5	46	.31	.071	19	19	.39	143	.01	<3	1.37	.01	.06	<2	49.7
2700E 5450N	4	60	85	60	1.7	10	4	368	3.67	141	<8	<2	2	20	.5	3	5	51	.19	.125	12	21	.17	113	.01	<3	1.82	.01	.06	<2	16.7
2700E 5425N	3	49	60	130	1.7	20	8	940	3.44	152	<8	<2	<2	27	1.2	6	<3	76	.23	.165	10	30	.45	261	.01	<3	1.42	.01	.11	<2	11.1
STANDARD DS2	14	124	29	151	<.3	35	11	796	2.93	58	21	<2	3	25	10.1	9	10	75	.48	.088	14	148	.56	150	.09	<3	1.59	.04	.14	8	207.3

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2700E 5400N	3	59	76	164	.4	24	10	933	3.86	203	<8	<2	4	18	.8	8	4	65	.19	.121	12	31	.56	201	<.01	<3	1.84	.01	.12	<2	11.3
2700E 5375N	3	59	48	125	.7	20	10	1302	4.09	122	<8	<2	<2	24	.8	4	<3	102	.24	.170	8	31	.31	241	.01	<3	1.27	.01	.09	<2	2.3
2700E 5350N	2	52	38	148	.5	24	14	1974	3.96	91	<8	<2	<2	53	2.2	7	<3	95	.53	.147	6	29	.37	319	.01	<3	1.22	.01	.15	<2	2.9
2700E 5325N	3	39	55	140	.5	13	8	1288	2.80	95	<8	<2	<2	58	1.9	3	3	65	.42	.125	11	17	.20	543	.01	<3	.96	.01	.13	<2	3.7
2700E 5300N	2	47	38	182	.6	25	12	963	3.90	114	<8	<2	2	26	1.4	4	<3	85	.22	.139	8	30	.49	472	.01	<3	1.50	.01	.09	<2	5.3
2700E 5275N	3	39	122	133	1.7	15	7	443	3.21	163	<8	<2	3	25	.3	16	3	71	.13	.081	7	20	.32	200	<.01	<3	1.09	.01	.08	<2	59.0
2700E 5250N	28	1087	335	242	31.3	10	4	513	10.47	816	8	3	7	16	.6	236	59	43	.07	.139	8	26	.24	184	<.01	<3	2.08	.01	.09	<2	1881.8
2700E 5200N	4	39	66	119	2.4	10	4	320	3.50	218	<8	<2	5	14	.5	10	<3	72	.11	.050	11	18	.23	149	.01	<3	1.42	.01	.06	<2	11.0
2700E 5200N-D	4	53	80	138	3.4	13	5	397	3.85	217	<8	<2	6	13	.4	12	3	62	.11	.060	12	20	.31	141	<.01	<3	1.86	.01	.05	<2	22.6
2700E 5175N	1	28	296	137	1.6	2	1	203	1.36	247	<8	<2	2	81	1.5	5	4	14	.23	.094	16	4	.08	215	<.01	<3	.44	.01	.08	<2	191.2
2700E 5150N	3	42	49	116	2.1	12	7	633	3.22	123	<8	<2	<2	16	2.1	3	<3	77	.14	.101	11	21	.26	230	.01	<3	1.27	.01	.07	<2	6.8
2700E 5125N	2	117	132	296	.9	25	15	1823	3.93	148	<8	<2	3	24	1.9	10	<3	74	.32	.076	14	29	.62	265	.01	<3	1.42	.01	.08	<2	30.3
2700E 5075N	3	58	49	150	.9	27	9	351	3.39	117	<8	<2	6	19	.7	5	<3	66	.20	.066	10	31	.59	116	.01	<3	2.00	.01	.06	<2	72.3
2700E 5050N	2	53	51	257	1.3	20	10	1416	3.69	114	<8	<2	<2	36	4.0	5	<3	93	.43	.161	9	27	.38	373	.01	<3	1.26	.01	.12	<2	3.9
2700E 5025N	3	42	38	177	<.3	18	9	568	3.36	174	<8	<2	3	17	1.2	6	5	71	.18	.081	10	23	.43	211	.01	<3	1.25	.01	.09	<2	4.0
RE 2700E 5025N	3	42	41	175	.3	17	9	553	3.38	179	<8	<2	3	16	1.3	5	3	70	.18	.081	9	23	.43	206	.01	<3	1.23	.01	.09	<2	13.8
2900E 5300N	3	25	38	89	.6	12	6	443	3.50	102	<8	<2	3	10	.3	3	3	97	.08	.145	9	21	.40	124	.01	<3	1.53	.01	.05	<2	3.0
2900E 5300N-D	2	36	44	131	.4	21	8	440	4.23	122	<8	<2	4	10	.5	<3	3	85	.09	.085	9	32	.54	104	.01	<3	2.07	.01	.06	<2	17.1
2900E 5275N	3	38	44	113	<.3	19	8	341	3.64	160	<8	<2	4	21	.2	3	4	81	.15	.066	12	25	.49	228	<.01	<3	1.83	.01	.10	<2	10.2
2900E 5250N	3	85	57	124	.9	29	15	744	4.26	133	<8	<2	4	32	.8	8	4	88	.27	.074	9	36	.56	258	.01	<3	1.81	.01	.09	<2	15.6
2900E 5225N	3	60	116	215	1.4	16	8	927	2.87	261	<8	<2	3	33	2.1	16	6	41	.41	.128	14	17	.40	209	.01	<3	.94	.01	.10	<2	18.6
2900E 5200N	4	49	111	143	1.4	15	13	1341	3.80	230	<8	<2	5	21	1.1	10	4	52	.17	.209	13	25	.31	155	.01	<3	2.17	.01	.06	<2	16.4
2900E 5175N	4	68	101	165	2.7	16	10	1303	3.56	205	<8	<2	3	19	1.2	14	4	64	.16	.119	13	22	.38	263	.01	<3	1.50	.01	.13	<2	43.7
2900E 5150N	2	53	44	106	.6	27	11	590	3.58	80	<8	<2	2	23	.7	4	<3	81	.27	.109	8	33	.55	143	.01	<3	1.39	.01	.05	<2	13.1
2900E 5125N	2	45	25	57	1.0	19	6	320	4.34	68	<8	<2	<2	15	.4	<3	4	122	.12	.102	7	41	.36	72	.01	<3	1.68	.01	.04	<2	8.8
2900E 5100N	2	30	26	28	.5	9	3	123	2.08	46	<8	<2	<2	12	<.2	<3	4	91	.07	.033	8	18	.10	74	.03	<3	.95	.01	.04	<2	23.6
2900E 5075N	2	70	59	126	<.3	25	17	1286	5.38	185	<8	<2	<2	17	.8	10	3	105	.23	.164	8	35	.51	63	.02	<3	1.30	.01	.05	<2	10.5
2900E 5050N	1	46	24	74	<.3	32	9	530	4.42	58	<8	<2	2	9	.4	5	<3	94	.12	.163	6	44	.69	73	.01	<3	1.97	.01	.04	<2	22.1
2900E 5025N	2	50	33	89	.7	33	10	553	4.95	83	<8	<2	3	16	.6	<3	4	116	.17	.177	7	49	.67	100	.01	<3	1.91	.01	.06	<2	13.1
STANDARD DS2	15	129	30	159	<.3	36	12	842	3.10	62	23	<2	3	26	10.8	9	10	76	.51	.092	15	156	.60	153	.09	<3	1.67	.04	.15	8	212.6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME A[illegible]YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604[illegible]3-1716
(I[illegible] 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003554 Page 1

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
00HMSL1	7	23	10	45	<.3	8	4	132	.96	21	9	<2	<2	12	.3	<3	<3	22	.16	.038	6	7	.20	84	.01	<3	.43	.01	.03	<2	5.7
00HMSL2	10	141	40	171	.5	15	5	334	2.54	78	12	<2	4	16	1.0	3	3	54	.21	.141	21	22	.46	209	.01	5	1.81	.01	.07	2	13.7
00HMSL3	15	150	50	186	<.3	13	7	493	2.90	116	<8	<2	4	11	.5	<3	4	52	.13	.136	20	19	.43	202	.01	4	1.85	.01	.07	2	12.3
00HMSL4	18	53	31	156	<.3	21	10	624	2.89	97	<8	<2	3	11	.7	<3	<3	57	.11	.130	17	23	.49	141	.01	4	2.01	.01	.07	2	5.3
00HMSL5	4	31	29	62	.4	11	3	202	2.03	59	<8	<2	<2	10	.3	<3	<3	53	.07	.139	11	19	.33	88	.01	<3	1.89	.01	.06	<2	8.7
00HMSL6	3	33	23	67	.3	14	4	280	2.71	69	<8	<2	<2	9	.4	<3	<3	66	.07	.096	11	23	.40	64	.01	4	1.90	.01	.05	<2	9.3
00HMSL7	4	38	27	65	.4	12	4	294	2.78	82	<8	<2	<2	9	.5	<3	3	65	.06	.106	10	20	.36	94	.01	3	1.71	.01	.06	<2	8.5
00HMSL8	4	44	31	71	.6	12	4	232	2.37	72	<8	<2	<2	9	.3	<3	<3	53	.06	.152	12	22	.36	100	.01	3	2.06	.01	.06	<2	7.5
00HMSL9	4	137	44	130	<.3	24	13	765	3.50	107	<8	<2	4	13	.4	5	4	63	.10	.071	16	22	.54	112	.01	5	2.24	.01	.09	<2	16.1
00HMSL9D	5	112	40	122	.3	22	11	663	3.56	106	<8	<2	4	12	.4	4	<3	62	.10	.075	15	21	.53	100	.01	6	2.19	.01	.08	<2	10.5
00HMSL10	10	319	34	98	.4	16	6	323	2.56	75	<8	<2	2	11	.4	<3	4	53	.09	.130	14	21	.41	97	.01	<3	1.91	.01	.08	<2	9.3
00HMSL11	7	208	25	64	<.3	13	4	186	2.23	48	<8	<2	2	9	.2	<3	3	48	.10	.134	13	22	.36	79	.01	<3	2.01	.01	.06	<2	5.6
00HMSL12	8	99	119	301	.6	24	17	1705	4.18	258	<8	<2	4	22	1.9	7	4	54	.20	.117	23	17	.39	404	.01	5	1.38	.02	.09	<2	14.4
00HMSL13	5	59	32	76	<.3	14	6	315	4.22	107	<8	<2	<2	11	.2	<3	<3	100	.06	.104	11	19	.25	107	.01	4	1.39	.01	.06	<2	4.7
00HMSL14	3	36	19	73	1.0	14	6	459	2.83	48	<8	<2	<2	10	.5	<3	<3	62	.06	.131	9	21	.32	91	.01	<3	2.10	.01	.05	<2	16.1
00HMSL15	5	93	21	55	2.8	9	4	247	1.86	44	<8	<2	<2	11	.4	<3	<3	47	.07	.232	16	17	.27	132	.01	<3	1.99	.01	.07	<2	5.5
00HMSL16	3	26	20	61	<.3	11	5	380	2.76	68	<8	<2	<2	11	<.2	<3	<3	85	.06	.069	10	16	.24	76	.01	5	1.41	.01	.05	<2	2.0
00HMSL17	5	80	54	121	.3	25	10	741	5.34	114	<8	<2	4	15	.4	3	<3	93	.10	.129	13	29	.65	156	.01	4	2.87	.01	.06	<2	4.7
00HMSL18	3	33	27	77	.5	19	5	354	3.83	70	<8	<2	<2	11	.2	<3	3	82	.06	.115	9	26	.45	83	.01	6	2.00	.01	.05	<2	2.9
RE 00HMSL19	3	54	39	98	<.3	22	9	467	3.79	104	<8	<2	2	10	.5	<3	<3	76	.06	.099	11	25	.54	89	.01	4	2.46	.01	.07	<2	6.8
00HMSL19	3	53	40	97	.3	21	9	469	3.78	106	<8	<2	3	10	.5	<3	<3	72	.06	.099	11	25	.54	87	.01	5	2.42	.01	.06	<2	4.7
00HMSL20	3	38	27	56	.3	10	4	269	2.36	62	<8	<2	<2	10	.3	<3	<3	61	.05	.150	12	19	.25	85	.01	3	1.91	.01	.05	<2	3.8
00HMSL21	3	53	27	52	.4	16	5	386	2.71	66	<8	<2	<2	8	.2	<3	3	72	.05	.117	11	30	.27	90	.01	4	1.80	.01	.05	<2	6.4
00HMSL21D	8	61	41	95	<.3	21	10	676	4.00	111	<8	<2	3	11	.5	<3	<3	72	.12	.131	12	28	.55	111	.01	4	2.52	.01	.07	<2	6.2
00HMSL22	4	51	34	80	<.3	19	8	495	3.52	84	<8	<2	2	11	.2	<3	<3	70	.08	.083	11	24	.51	118	.01	3	2.16	.01	.05	<2	6.4
00HMSL23	4	66	30	92	.4	20	7	440	4.46	95	<8	<2	3	10	.3	<3	3	81	.05	.132	12	31	.51	151	.01	4	2.80	.01	.05	<2	12.6
00HMSL24	4	61	31	80	.5	15	6	384	3.43	90	<8	<2	<2	13	.5	3	3	78	.07	.084	12	21	.43	189	.01	4	1.96	.01	.06	<2	7.0
00HMSL25	4	27	24	58	.4	10	5	391	2.79	78	<8	<2	<2	11	<.2	<3	3	93	.05	.053	12	16	.22	100	.02	4	1.40	.01	.05	<2	3.9
00HMSL26	5	37	24	69	.8	10	5	586	3.43	79	<8	<2	<2	9	.2	<3	<3	77	.03	.127	10	22	.22	98	.01	5	1.96	.01	.05	<2	14.4
00HMSL27	12	159	66	96	.5	14	24	1624	4.44	108	<8	<2	<2	13	.3	7	7	91	.09	.212	10	28	.35	250	.01	4	2.65	.01	.07	<2	12.8
00HMSL28	4	160	30	54	.5	8	3	344	2.30	52	<8	<2	<2	9	<.2	5	11	58	.04	.104	9	17	.21	120	.01	<3	1.85	.01	.05	<2	5.6
00HMSL29	4	45	26	64	.4	13	5	432	3.77	96	<8	<2	<2	10	.4	<3	3	75	.06	.085	11	22	.32	100	.01	3	1.98	.01	.05	<2	6.7
00HMSL30	11	44	37	78	<.3	13	8	835	3.03	187	<8	<2	<2	21	.6	<3	6	68	.20	.098	12	20	.37	292	.01	3	1.49	.01	.07	<2	9.7
STANDARD DS2	14	124	30	151	<.3	33	11	795	3.10	58	19	<2	3	25	10.1	9	10	73	.48	.087	14	149	.57	148	.08	3	1.57	.04	.14	7	213.4

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 26/00 **SIGNED BY** [signature] D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data ___ FA ___

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I. 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003554 Page 2
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Au2 ppb
00HMSL30B	<1	15	3	31	<.3	10	6	265	1.71	3	<8	<2	<2	33	<.2	<3	<3	54	.31	.056	5	15	.37	70	.07	<3	.98	.03	.08	<2	1.2	-
00HMSL31	6	28	19	52	<.3	9	4	361	2.10	80	<8	<2	<2	10	.2	3	<3	60	.06	.067	9	16	.28	107	.01	<3	1.33	.01	.05	<2	6.2	-
00HMSL32	6	38	30	70	.6	17	6	357	3.49	94	<8	<2	<2	15	.4	4	<3	61	.17	.107	15	22	.42	114	.01	4	2.41	.01	.04	<2	9.3	-
00HMSL33	6	46	29	98	<.3	20	7	531	3.29	100	<8	<2	2	18	.4	<3	3	61	.18	.123	11	22	.52	191	<.01	3	2.22	.01	.06	<2	10.9	-
00HMSL34	8	47	40	88	<.3	18	10	888	3.24	173	<8	<2	2	27	.2	3	3	62	.32	.214	17	26	.45	295	<.01	6	2.16	.01	.08	<2	9.1	-
00HMSL35	7	43	68	98	<.3	16	10	980	3.06	172	<8	<2	2	18	.3	3	<3	62	.20	.123	15	19	.40	198	.01	3	1.88	.01	.06	<2	8.6	-
00HMSL36	9	41	47	123	.6	14	6	467	2.82	391	<8	<2	2	37	.3	4	4	55	.50	.200	10	21	.27	308	.01	5	1.80	.01	.10	<2	10.3	-
00HMSL37	7	24	39	79	<.3	12	6	463	3.20	118	<8	<2	<2	11	<.2	<3	<3	81	.08	.071	11	17	.36	86	.01	3	1.36	.01	.05	<2	4.3	-
00HMSL38	5	28	27	89	<.3	16	8	628	3.12	106	<8	<2	<2	16	.2	<3	<3	66	.17	.090	10	19	.40	131	.01	5	1.33	.01	.06	<2	4.1	-
00HMSL39	5	32	25	87	<.3	15	7	688	3.49	115	<8	<2	<2	17	.2	3	<3	80	.15	.094	10	23	.42	120	.01	3	1.45	.01	.09	<2	4.2	-
00HMSL40	9	44	33	86	<.3	22	12	1097	3.49	303	<8	<2	4	24	.4	7	<3	51	.24	.098	20	21	.31	256	<.01	3	1.97	.01	.08	<2	21.3	-
5000N 2600E	5	112	322	448	2.2	18	12	2520	4.43	268	<8	<2	3	25	1.9	19	<3	60	.20	.101	12	24	.43	181	<.01	3	1.28	.01	.06	<2	68.8	-
5000N 2625E	4	66	693	527	5.0	8	6	2512	3.77	375	<8	<2	3	71	2.1	9	3	27	.41	.107	18	9	.24	219	<.01	4	1.03	.01	.08	<2	180.6	-
5000N 2650E	6	80	1011	430	6.1	7	7	3018	3.17	342	<8	<2	2	78	5.3	19	4	24	.29	.150	13	9	.17	444	<.01	<3	.82	.01	.11	<2	80.8	-
5000N 2675E	38	80	1640	872	30.5	5	1	634	5.72	1925	<8	<2	<2	58	4.2	532	18	15	.23	.144	4	4	.04	263	<.01	<3	.41	.01	.08	<2	243.7	-
5000N 2700E	5	75	66	170	1.8	22	10	820	4.22	123	<8	<2	2	27	1.5	8	<3	99	.38	.084	8	37	.50	123	.02	3	1.69	.01	.11	<2	15.5	15.4
RE 5000N 2700E	6	75	65	170	1.9	23	10	824	4.22	122	<8	<2	<2	28	1.5	7	<3	99	.38	.085	8	38	.50	125	.02	4	1.69	.01	.11	<2	109.5	13.2
5000N 2725E	4	104	72	163	.8	29	17	1402	4.01	205	<8	<2	4	26	1.2	10	3	82	.39	.084	13	33	.66	282	.01	5	1.71	.01	.11	2	22.6	-
5000N 2750E	2	83	32	140	.4	36	17	831	4.40	80	<8	<2	2	28	.9	8	<3	108	.42	.107	7	43	.73	277	.02	5	1.56	.01	.08	<2	34.6	-
5000N 2775E	3	70	37	84	.4	25	15	1768	5.77	73	<8	<2	<2	16	.7	6	<3	132	.13	.111	7	53	.41	111	.02	<3	2.13	.01	.05	<2	6.3	-
5000N 2800E	3	49	18	54	.7	12	4	241	3.63	64	<8	<2	2	16	.4	3	<3	169	.16	.056	6	26	.16	109	.07	6	1.00	.01	.06	<2	9.5	-
5000N 2825E	2	58	27	89	<.3	34	13	825	3.74	65	<8	<2	<2	22	.6	4	<3	100	.29	.116	9	47	.61	176	.01	5	1.57	.01	.10	<2	13.5	-
5000N 2850E	3	37	30	86	<.3	30	9	315	3.77	55	<8	<2	2	22	<.2	3	<3	93	.24	.076	8	43	.70	175	.01	4	1.83	.01	.04	<2	81.4	-
5000N 3025E	3	56	656	204	.7	23	9	1254	6.73	127	<8	<2	2	23	1.6	15	<3	131	.16	.109	6	44	.42	225	.02	<3	1.93	.01	.07	<2	23.0	-
5000N 3050E	3	59	42	69	.4	20	6	313	5.26	98	<8	<2	<2	28	.4	6	<3	128	.20	.319	6	41	.25	96	.02	6	1.34	.01	.06	<2	9.9	-
5000N 3075E	7	67	35	138	.3	19	9	1455	3.00	73	<8	<2	<2	162	1.7	3	<3	78	.59	.093	19	23	.33	284	.01	3	1.26	.04	.05	<2	24.5	-
5000N 3100E	3	56	63	109	.6	20	5	388	5.98	131	<8	<2	<2	44	1.2	5	<3	109	.28	.116	10	43	.27	102	.02	<3	2.20	.01	.04	<2	10.7	-
2800E 5200N	3	62	95	135	1.8	13	6	577	3.13	135	<8	<2	<2	32	1.3	7	<3	66	.20	.227	9	21	.26	205	.01	<3	1.25	.01	.09	3	63.8	-
2800E 5175N	3	53	59	136	.8	13	5	1150	2.96	132	<8	<2	<2	31	1.3	7	<3	55	.45	.212	7	21	.22	167	.01	6	.89	.01	.09	<2	21.4	-
2800E 5150N	4	81	45	130	.3	30	13	1430	3.78	100	<8	<2	2	20	1.1	5	7	82	.19	.087	8	31	.40	294	.01	4	1.55	.01	.08	3	4.8	-
2800E 5150N-D	4	78	41	122	.4	28	12	924	3.87	100	<8	<2	2	21	.7	5	5	86	.19	.084	7	32	.40	272	.01	5	1.52	.01	.08	3	18.2	-
2800E 5125N	4	73	41	133	<.3	31	16	857	3.78	104	<8	<2	2	25	.5	5	<3	78	.38	.074	12	30	.59	220	.01	<3	1.30	.02	.11	3	10.8	-
2800E 5100N	3	69	50	155	<.3	22	13	1038	3.15	103	<8	<2	2	24	.7	6	<3	62	.31	.096	11	25	.53	151	.02	3	1.11	.01	.09	3	11.9	-
STANDARD DS2	14	125	33	155	<.3	34	11	810	3.00	57	20	<2	3	25	10.4	9	10	73	.49	.090	15	153	.58	148	.09	3	1.62	.03	.15	6	200.6	200.2

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
AU2 - 2nd ANALYSIS ON 10 GM SAMPLE BY AQUA REGIA/ICP-MS. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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DATE RECEIVED: SEP 11 2000 DATE REPORT MAILED: Oct 6/00 SIGNED BY. C. L. .....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___

Equity Engineering Ltd. PROJECT Thorn FILE # A003554

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
2800E 5075N	4	93	20	132	.4	47	17	1966	4.33	62	<8	<2	<2	20	2.3	4	<3	102	.33	.062	6	38	.40	332	.01	4	1.61	.01	.09	2	4.0
2800E 5050N	4	64	34	173	<.3	27	14	1443	4.10	78	<8	<2	<2	27	2.3	5	<3	76	.43	.093	7	27	.42	211	.01	4	.95	.01	.08	2	5.9
2800E 5025N	3	90	54	174	.5	37	17	1268	3.87	74	<8	<2	2	40	1.3	5	3	82	.65	.100	10	30	.66	223	.01	4	1.40	.02	.09	3	11.4
2800E 4600N	5	63	35	82	.8	14	7	480	5.37	133	<8	<2	<2	17	.3	8	<3	103	.17	.113	6	28	.22	64	.01	4	1.80	.01	.06	<2	15.6
2800E 4575N	7	75	61	111	.6	16	8	447	3.93	112	<8	<2	<2	44	.6	3	<3	82	.29	.102	11	25	.30	122	<.01	<3	1.92	.01	.06	<2	15.4
2800E 4550N	7	71	81	149	.5	20	15	1699	5.91	154	<8	<2	<2	59	1.1	8	<3	118	.49	.106	9	33	.41	151	.01	<3	2.12	.01	.09	2	11.7
2800E 4525N	3	81	47	168	<.3	31	17	1658	3.91	116	<8	<2	<2	55	1.4	6	<3	82	.70	.098	10	26	.49	276	.01	<3	1.29	.01	.08	4	15.1
2800E 4500N	4	94	49	157	.8	25	18	1309	4.04	129	<8	<2	<2	53	.9	8	<3	80	.78	.092	15	25	.47	210	.01	5	1.45	.01	.08	3	18.6
2800E 4500N-D	4	113	52	173	1.0	32	18	1528	4.35	143	<8	<2	<2	63	1.4	8	<3	88	.88	.106	17	30	.50	272	.01	<3	1.68	.01	.10	4	19.7
2800E 4475N	4	90	53	131	.3	20	9	542	4.34	154	<8	<2	<2	12	.2	7	<3	91	.13	.105	8	25	.25	68	.01	4	1.10	.01	.10	3	18.2
2800E 4450N	3	89	58	186	.4	27	16	1586	4.22	133	<8	<2	<2	41	.7	8	<3	88	.62	.131	9	28	.50	272	.01	<3	1.44	.01	.11	2	23.6
2800E 4425N	3	46	146	234	.5	15	12	1717	3.60	145	<8	<2	2	53	.7	3	<3	61	.44	.081	12	19	.36	198	<.01	<3	1.19	.01	.08	<2	22.4
2800E 4375N	4	47	27	123	<.3	22	8	448	4.05	97	<8	<2	<2	26	.6	<3	<3	92	.17	.092	6	29	.33	106	.01	<3	1.61	.01	.05	<2	8.3
2800E 4325N	6	68	49	169	<.3	19	13	887	4.86	125	<8	<2	2	63	.4	6	<3	98	.54	.093	11	32	.34	157	.01	<3	2.48	.01	.09	3	16.0
2800E 4275N	2	57	30	71	.3	29	8	291	4.27	59	<8	<2	2	16	.2	4	<3	102	.11	.050	7	42	.52	91	.01	<3	1.80	.01	.03	<2	8.0
2800E 4250N	2	35	16	67	<.3	29	9	301	3.02	30	<8	<2	4	12	<.2	3	<3	77	.16	.078	9	36	.73	55	.02	3	1.90	.01	.04	<2	5.9
2800E 4250N-B	1	17	<3	32	<.3	10	6	276	1.79	2	<8	<2	2	38	<.2	<3	<3	59	.37	.056	6	16	.38	73	.09	<3	1.07	.04	.08	<2	.7
2800E 4225N	4	69	64	152	<.3	20	8	729	5.91	183	<8	<2	<2	18	.6	7	<3	141	.17	.121	7	36	.28	107	.02	3	1.47	.01	.07	2	11.9
2800E 4200N	1	36	17	69	<.3	29	9	307	3.24	33	<8	<2	4	12	.2	<3	<3	84	.16	.080	9	39	.74	58	.02	<3	1.99	.01	.04	<2	15.2
3000E 4975N	3	60	39	74	.6	22	7	469	4.76	96	<8	<2	<2	27	.6	5	<3	118	.23	.102	7	42	.32	98	.02	3	1.83	.01	.05	<2	5.9
3000E 4950N	3	57	37	85	<.3	20	7	519	5.16	98	<8	<2	<2	44	.3	4	<3	140	.35	.167	6	50	.37	88	.02	<3	1.37	.01	.06	<2	8.3
3000E 4925N	4	95	69	98	.7	20	7	1067	4.68	150	<8	<2	<2	42	1.7	4	<3	127	.32	.118	9	28	.20	100	.03	<3	1.16	.01	.08	<2	3.0
3000E 4900N	9	106	62	77	.9	19	7	547	4.37	158	<8	<2	<2	200	2.0	3	<3	118	.99	.081	14	22	.12	210	.02	<3	1.30	.01	.05	<2	7.3
RE 3000E 4900N	8	103	65	76	.9	18	7	547	4.29	152	<8	<2	<2	195	2.0	<3	<3	115	.97	.078	14	23	.12	205	.02	<3	1.25	.01	.05	<2	9.6
3000E 4850N	2	28	9	44	<.3	7	3	93	1.09	44	<8	<2	<2	79	<.2	<3	<3	46	.38	.054	6	10	.04	95	.01	4	.19	.01	.03	<2	5.7
3000E 4825N	3	66	41	90	.6	17	8	768	5.84	136	<8	<2	<2	31	.7	5	<3	163	.22	.095	7	31	.24	136	.03	3	1.45	.01	.06	<2	4.8
3000E 4800N	3	93	31	83	1.4	19	7	773	5.65	108	<8	<2	<2	24	.6	6	3	115	.16	.126	6	38	.22	109	.02	3	1.64	.01	.07	<2	9.8
3000E 4775N	4	72	34	78	.6	19	8	366	5.37	102	<8	<2	<2	45	.7	6	<3	114	.21	.087	7	30	.30	134	.02	<3	1.88	.01	.05	<2	7.5
3000E 4750N	6	59	40	58	.7	16	6	270	7.21	126	<8	<2	<2	82	.3	7	<3	161	.48	.083	7	36	.27	136	.03	<3	1.80	.01	.05	<2	6.4
3000E 4750N-D	5	72	44	93	.5	19	9	433	6.27	110	<8	<2	2	52	.5	6	<3	101	.33	.081	6	35	.40	89	.01	3	2.44	.01	.05	<2	11.8
3000E 4725N	6	77	31	73	.8	16	7	405	5.95	111	<8	<2	<2	24	.4	7	<3	123	.15	.084	11	31	.20	85	.02	<3	2.43	.01	.05	<2	7.7
3000E 4700N	7	80	35	97	.6	15	6	390	3.62	100	8	<2	<2	78	.6	<3	<3	72	.37	.160	14	24	.19	196	.01	<3	1.48	.01	.05	<2	14.6
3000E 4675N	10	105	36	161	.6	38	27	1970	5.16	150	<8	<2	<2	65	1.0	8	<3	104	.50	.096	15	37	.64	346	.02	<3	2.21	.01	.09	2	51.1
STANDARD DS2	14	122	31	152	<.3	34	11	791	2.96	56	22	<2	3	25	10.1	9	12	73	.48	.087	14	147	.57	149	.09	3	1.59	.04	.14	8	198.8

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3000E 4650N	12	65	32	63	.7	11	6	527	3.76	119	<8	<2	<2	59	.4	<3	<3	92	.29	.130	7	22	.17	158	.01	<3	1.10	.01	.05	<2	10.6
3000E 4625N	3	30	22	33	.4	5	5	374	4.91	20	<8	<2	4	57	.3	<3	<3	43	.39	.124	14	8	.17	308	<.01	<3	3.47	.01	.05	<2	3.4
3000E 4600N	2	29	15	55	<.3	8	9	409	2.68	24	<8	<2	<2	66	.3	<3	<3	53	.36	.138	12	9	.17	261	<.01	<3	1.23	.01	.12	<2	1.3
3000E 4575N	5	29	19	74	<.3	9	11	1598	2.99	34	<8	<2	<2	87	.5	<3	<3	56	.55	.173	10	9	.16	505	<.01	<3	1.08	.01	.17	<2	4.0
3000E 4550N	3	38	24	84	<.3	9	9	691	3.32	32	<8	<2	4	24	<.2	<3	<3	43	.17	.055	25	10	.33	475	<.01	<3	2.32	.01	.15	<2	1.2
3000E 4425N	3	30	39	134	<.3	10	7	467	3.52	105	<8	<2	2	42	.2	<3	<3	56	.21	.050	14	13	.30	296	<.01	<3	1.68	.01	.09	2	3.8
3000E 4300N	5	13	19	53	<.3	4	3	721	1.57	16	<8	<2	3	11	.2	<3	<3	16	.11	.070	24	4	.04	271	<.01	<3	.70	.01	.11	<2	1.3
3000E 4275N	6	24	19	61	<.3	10	5	318	2.42	54	<8	<2	3	16	<.2	<3	<3	43	.21	.067	22	9	.16	167	<.01	<3	1.19	.01	.07	<2	.9
3000E 4275N-D	5	27	21	60	<.3	11	6	396	2.65	62	<8	<2	3	16	.2	<3	<3	48	.25	.076	19	13	.24	166	<.01	<3	1.53	.01	.07	<2	1.8
3000E 4250N	3	46	22	88	<.3	18	9	358	3.81	130	<8	<2	<2	27	.2	5	<3	84	.35	.087	10	20	.40	271	.01	<3	1.43	.01	.09	<2	5.7
3000E 4225N	3	38	38	100	<.3	9	14	2002	3.17	33	<8	<2	2	31	.4	<3	<3	34	.37	.156	22	9	.29	865	<.01	<3	1.39	.01	.18	<2	3.3
3000E 4200N-B	1	17	4	32	<.3	11	6	291	1.82	3	<8	<2	<2	37	<.2	<3	<3	59	.35	.057	6	15	.39	78	.08	<3	1.10	.04	.09	<2	5.6
3200E 4975N	12	38	218	302	.4	9	8	1650	4.23	416	<8	<2	<2	82	1.4	4	<3	47	.29	.106	19	12	.17	276	<.01	<3	1.28	.01	.06	<2	49.5
3200E 4950N	9	51	88	143	.3	14	7	836	6.78	295	<8	<2	<2	34	1.1	4	<3	105	.12	.086	11	29	.19	137	.01	3	1.97	.01	.04	<2	13.1
3200E 4925N	5	50	47	91	<.3	17	6	556	5.29	107	<8	<2	<2	35	.6	4	<3	132	.20	.078	5	30	.18	93	.02	<3	1.18	.01	.04	<2	4.6
3200E 4900N	3	62	38	91	.6	17	7	840	5.04	128	<8	<2	<2	11	.2	5	<3	119	.09	.093	7	28	.26	86	.01	<3	1.93	.01	.04	<2	7.7
3200E 4875N	1	29	20	60	<.3	11	3	139	2.89	60	<8	<2	<2	21	.3	<3	<3	71	.11	.047	4	16	.11	74	.01	<3	1.07	.01	.04	<2	3.7
3200E 4850N	3	44	38	85	.3	9	11	2034	3.48	217	<8	<2	<2	53	1.2	3	<3	78	.37	.136	9	15	.13	93	.01	<3	.76	.01	.06	<2	3.5
3200E 4825N	4	77	44	130	.4	20	11	873	5.10	185	<8	<2	2	49	.4	3	<3	120	.28	.056	10	30	.35	162	.01	<3	2.01	.01	.07	<2	9.6
3200E 4825N-D	3	153	41	122	1.5	26	8	629	4.29	251	<8	<2	<2	82	1.2	3	<3	97	.46	.099	17	30	.28	175	.01	<3	1.94	.01	.07	<2	20.8
3200E 4800N	2	65	40	133	.3	18	16	2681	4.33	160	<8	<2	<2	95	.4	<3	<3	77	.52	.137	15	28	.35	134	<.01	<3	2.58	.01	.04	<2	12.3
RE 3200E 4800N	3	63	39	129	.4	17	15	2628	4.26	158	<8	<2	<2	93	.4	<3	<3	75	.51	.135	15	28	.35	131	<.01	<3	2.56	.01	.03	2	14.0
3200E 4775N	6	18	60	60	<.3	3	5	579	5.94	299	<8	<2	3	47	.2	<3	<3	40	.23	.110	20	6	.22	70	<.01	<3	1.40	.01	.05	<2	1.8
3200E 4750N	3	56	34	61	<.3	13	5	175	3.08	137	<8	<2	<2	197	.7	3	<3	103	.86	.056	7	11	.08	115	.02	<3	.52	.01	.03	<2	3.9
3200E 4725N	4	71	28	51	.7	12	8	851	2.45	74	<8	<2	<2	298	.5	<3	<3	38	1.89	.152	28	15	.21	503	<.01	<3	1.56	.01	.09	<2	6.7
3400E 4975N	7	36	102	172	.4	10	10	1410	5.75	1042	<8	<2	<2	36	1.0	12	<3	63	.21	.115	12	13	.25	128	.01	<3	1.54	.01	.05	<2	7.2
3400E 4950N	10	26	21	64	<.3	5	4	348	2.42	365	<8	<2	<2	108	.5	3	<3	48	.49	.064	10	8	.11	96	<.01	5	.61	.01	.05	<2	6.9
3400E 4925N	4	113	43	125	.9	18	14	3098	2.91	108	<8	<2	<2	346	2.1	3	<3	49	1.57	.136	22	17	.21	264	.01	<3	1.28	.01	.06	<2	3.8
3400E 4900N	3	70	42	145	.5	16	28	2742	5.11	201	<8	<2	<2	64	.6	5	<3	88	.35	.158	15	27	.30	128	.01	<3	2.92	.01	.04	2	39.9
3400E 4875N	2	55	39	77	.3	11	10	1194	4.60	240	<8	<2	<2	45	.4	<3	<3	93	.33	.126	14	18	.24	120	.01	<3	1.86	.01	.05	<2	6.0
3400E 4850N	2	76	31	99	<.3	14	9	706	4.50	159	<8	<2	<2	57	.6	3	<3	96	.45	.097	8	23	.34	144	.01	<3	1.70	.01	.06	<2	11.8
3400E 4850N-D	2	73	34	102	.3	14	9	712	4.53	154	<8	<2	<2	51	.5	4	<3	101	.40	.092	9	24	.36	141	.01	<3	1.87	.01	.06	<2	8.4
3400E 4825N	3	71	39	111	.5	16	11	754	4.46	176	<8	<2	<2	56	.5	4	<3	97	.39	.109	11	22	.33	129	.01	<3	1.95	.01	.06	<2	16.1
STANDARD DS2	14	127	30	155	<.3	34	11	821	3.03	59	21	<2	3	26	10.5	9	10	75	.50	.090	15	150	.59	151	.09	<3	1.64	.04	.15	8	192.9

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Date ___ FA ___

ACME ANALYTICAL

Equity Engineering Ltd. PROJECT Thorn FILE # A003554

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3400E 4800N	3	63	32	95	<.3	14	9	537	4.78	172	<8	<2	<2	16	.4	6	<3	113	.11	.100	9	20	.26	97	.01	<3	1.49	.01	.06	2	6.2
3400E 4775N	5	18	56	145	<.3	4	7	1078	3.13	378	<8	<2	2	123	.6	<3	<3	15	1.01	.096	17	5	.17	565	<.01	<3	.61	.01	.06	<2	5.2
3400E 4750N	4	21	20	33	<.3	5	4	188	1.85	21	<8	<2	<2	24	<.2	<3	<3	30	.24	.111	14	6	.12	280	<.01	<3	1.06	.01	.07	<2	2.7
RE 3400E 4750N	3	21	21	32	<.3	4	3	185	1.80	20	<8	<2	<2	24	<.2	<3	<3	29	.24	.114	13	4	.11	281	<.01	<3	1.05	.01	.07	<2	3.9
STANDARD DS2	15	128	32	156	<.3	35	11	826	3.05	60	20	<2	3	26	10.4	9	12	76	.51	.092	15	152	.59	152	.09	<3	1.65	.04	.15	9	219.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

APPENDIX F.3

CERTIFICATES OF ANALYSIS

ROCK SAMPLES

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003525 Page 1

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
206501	<1	24	76	1104	8.6	8	1	527	39.04	16	<8	<2	4	1	8.6	24	3	2	.02	.003	<1	8	.02	13	<.01	4	.23	.01	<.01	<2	17.1
206502	<1	64	49	9547	6.7	9	<1	3007	32.36	1239	<8	<2	3	3	108.4	23	<3	9	5.04	.007	2	11	.04	24	<.01	5	.13	.01	<.01	5	10.3
206503	<1	55	26	1228	5.2	9	<1	563	36.52	34	<8	<2	5	35	12.8	25	<3	<1	5.83	.009	2	4	.01	19	.01	<3	.18	.01	<.01	<2	61.8
206504	6	10	30	129	1.6	3	<1	29	2.34	56	<8	<2	<2	8	.4	8	<3	9	.02	.013	10	19	.02	30	<.01	<3	.32	.01	.02	3	372.2
206505	125	195	22	1208	5.2	106	56	113	16.43	280	8	<2	3	5	11.2	29	5	36	.06	.052	2	37	.27	19	<.01	<3	1.17	.01	.21	<2	884.6
206506	4	34	144	734	1.7	79	16	379	3.09	276	<8	<2	4	9	12.1	10	<3	29	.03	.012	11	39	.48	107	<.01	5	1.64	.01	.25	<2	249.4
206507	<1	2	3	10	<.3	1	1	919	1.79	8	<8	<2	<2	528	.3	<3	<3	4	23.47	.004	<1	1	4.16	45	<.01	<3	.04	.01	.01	<2	1.9
206508	1	82	16	95	3.3	57	7	1170	23.29	1360	9	<2	4	47	2.7	38	<3	56	2.57	1.250	6	39	1.69	8	.01	<3	2.02	.03	.04	<2	170.4
206509	2	307	262	135	4.7	63	43	194	7.40	1453	<8	<2	2	12	3.4	81	<3	53	.13	.065	3	53	2.01	40	.02	6	4.10	.01	.45	<2	773.2
206645	1	15	24	52	<.3	6	8	1244	2.01	8	<8	<2	3	417	.2	<3	<3	10	3.90	.056	15	4	.19	2179	<.01	<3	.99	.03	.26	<2	3.4
206646	<1	16	11	110	<.3	110	18	2915	2.37	8	<8	<2	<2	359	2.7	<3	<3	37	15.63	.034	7	30	5.01	2560	.01	4	1.11	.03	.06	<2	4.8
206647	<1	19	14	51	<.3	47	6	1639	2.66	30	<8	<2	<2	795	.6	<3	3	20	11.22	.068	9	11	4.71	1070	<.01	<3	.36	.02	.13	<2	1.8
206648	12	270	19	847	3.2	7	2	39	3.69	155	<8	<2	<2	21	.2	22	5	1	.10	.001	<1	10	.03	35	<.01	<3	.08	.01	.01	5	296.7
206649	3	12234	2952	1760	308.5	6	2	37	7.73	4580	<8	<2	<2	44	28.1	4131	105	2	.05	.012	<1	16	.01	18	<.01	<3	.09	.01	.03	<2	1319.8
206650	1	59	17	36	2.0	4	3	370	1.56	23	<8	<2	2	26	<.2	17	<3	37	.44	.048	6	15	.28	233	.08	4	.42	.07	.06	3	1.0
206651	1	2226	7491	16572	165.8	6	<1	71	27.21	789	<8	2	3	21	417.6	2282	490	1	.01	.003	<1	14	.01	5	<.01	3	.07	.01	.03	22	4540.0
206652	1	16834	2667	1442	219.2	24	7	56	12.23	5510	<8	<2	2	30	14.8	6584	1681	2	.04	.018	<1	22	.01	16	<.01	3	.12	.01	.05	<2	1530.7
206653	5	874	8608	38441	77.0	4	4	374	5.26	1000	<8	<2	<2	207	531.4	831	50	2	.02	.011	<1	12	<.01	19	<.01	<3	.12	.01	.03	<2	1177.7
206654	2	1642	2179	7121	105.2	23	8	42	14.25	383	<8	<2	3	47	125.8	706	114	1	.01	.002	<1	18	<.01	10	<.01	<3	.08	.01	.02	6	1838.9
206655	4	1117	972	699	115.2	7	3	25	6.60	409	<8	<2	<2	35	7.4	1060	86	1	<.01	.002	<1	22	<.01	16	<.01	<3	.07	.01	.01	5	2736.0
RE 206655	4	1086	938	666	112.3	8	3	23	6.47	398	<8	<2	<2	34	7.1	1043	85	1	<.01	.003	<1	22	<.01	16	<.01	<3	.08	.01	.01	4	2716.1
206656	1	3115	1801	1147	231.3	15	7	34	17.25	739	<8	3	3	28	13.2	1699	344	1	.01	.005	<1	18	.01	9	<.01	<3	.04	.01	.01	2	5238.7
206657	5	8539	2619	2451	284.2	5	1	35	3.50	4040	<8	2	<2	27	47.9	4786	732	1	<.01	.005	<1	24	<.01	31	<.01	<3	.06	.01	<.01	2	1716.6
206658	9	26479	6361	4066	274.3	6	<1	25	10.55	10516	<8	<2	<2	69	35.6	21535	157	2	<.01	<.001	<1	15	<.01	14	<.01	<3	.09	.01	.03	<2	1433.8
206659	6	86	5802	3539	18.9	2	2	1062	1.96	1830	<8	<2	2	40	30.1	1506	5	4	.56	.025	3	14	.24	72	<.01	<3	.28	.02	.14	2	654.1
206660	3	13	58	171	.7	3	2	4939	1.37	3132	<8	<2	2	52	.6	26	<3	3	1.88	.051	7	16	.55	119	<.01	<3	.35	.02	.18	4	218.6
206661	6	69	222	78	7.4	4	<1	170	25.59	194	<8	<2	4	46	1.6	22	<3	3	.88	.005	1	11	.12	18	<.01	<3	.33	.02	.10	3	450.1
206662	2	1314	227	53	79.8	6	1	34	2.84	978	<8	<2	<2	15	<.2	1145	47	1	<.01	.004	<1	20	<.01	41	<.01	<3	.07	.01	.02	6	1559.9
206663	5	5946	754	4579	192.7	8	2	37	4.58	1971	<8	<2	<2	67	88.0	2216	138	1	.01	.002	<1	28	<.01	17	<.01	<3	.11	.01	.01	3	1299.2
206834	3	54	4655	2040	13.2	90	10	27	2.57	210	<8	<2	<2	94	14.0	18	3	4	<.01	.011	1	18	<.01	35	<.01	<3	.14	.01	.04	2	314.5
206835	1	16	69	212	.7	3	5	979	1.89	26	<8	<2	7	383	1.2	6	<3	25	3.38	.074	24	8	.41	1147	<.01	<3	.70	.04	.27	2	11.6
206836	2	14	35	34	.3	4	3	324	1.54	7	<8	<2	2	26	<.2	5	<3	36	.39	.051	7	15	.26	60	.08	<3	.43	.08	.08	3	4.0
206837	4	11644	89	72	51.9	16	8	40	11.48	3930	<8	<2	<2	42	3.2	765	58	2	.01	.003	<1	14	.01	9	<.01	<3	.21	.01	.11	2	1405.7
STANDARD C3/DS2	28	64	36	170	5.5	39	12	791	3.42	60	22	3	22	28	23.1	14	24	84	.57	.088	19	175	.63	148	.10	25	1.81	.04	.16	15	195.8
STANDARD G-2	2	18	6	48	.3	8	4	539	2.02	5	<8	<2	4	72	<.2	3	<3	43	.65	.094	7	78	.61	228	.15	4	.96	.09	.46	2	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 DATE REPORT MAILED: Sept 26/00 SIGNED BY. C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
206838	4	23	22	35	<.3	2	2	710	.99	8	<8	<2	6	32	.2	<3	<3	3	.88	.044	30	11	.05	266	<.01	6	.42	.04	.27	2	4.8
206839	9	19	22	41	<.3	6	10	916	2.89	19	<8	<2	3	151	<.2	<3	<3	7	1.65	.099	12	6	.17	152	<.01	6	.40	.04	.26	<2	3.2
206840	3	11502	573	212	216.0	7	6	65	13.54	4893	<8	4	<2	29	3.6	5492	215	1	.01	<.001	<1	17	<.01	9	<.01	<3	.06	.01	.01	9	4266.1
206841	3	1029	501	106	74.8	8	3	38	5.41	422	<8	2	<2	42	1.1	598	92	1	.01	.001	<1	18	<.01	23	<.01	<3	.07	.01	.01	7	1755.1
206842	6	2992	635	187	250.4	7	3	34	6.56	1219	<8	7	<2	19	5.7	1973	231	1	<.01	.002	<1	27	<.01	15	<.01	<3	.05	<.01	.01	9	6591.1
206843	3	1573	310	144	20.7	7	4	22	11.39	370	<8	<2	<2	31	.9	121	23	1	.02	.010	<1	8	<.01	5	<.01	<3	.16	.01	.01	4	854.0
206844	11	1392	765	514	52.8	61	8	71	34.16	903	<8	<2	<2	7	5.0	82	44	2	.03	.009	<1	6	<.01	4	<.01	<3	.10	.01	.07	3	1151.7
206845	10	9854	24	14	8.4	10	32	64	2.78	27	<8	<2	<2	348	.2	3	6	3	.02	.006	<1	13	<.01	25	<.01	<3	.05	<.01	.03	7	14.2
206846	3	88	11	50	.5	9	7	934	2.27	4	<8	<2	3	263	.2	<3	<3	22	2.62	.077	15	21	.83	1248	<.01	<3	1.24	.04	.20	<2	4.4
206847	3	49	167	920	4.8	9	<1	3933	46.72	156	<8	<2	<2	9	8.5	29	<3	3	.33	.003	2	6	.10	16	<.01	<3	.02	<.01	.01	<2	152.6
RE 206847	3	49	170	922	4.8	8	<1	3908	45.93	159	10	<2	<2	8	8.5	31	<3	3	.32	.002	1	5	.10	12	<.01	<3	.01	.01	.01	<2	163.0
STANDARD C3/DS2	27	61	36	166	5.3	38	11	768	3.30	59	20	<2	20	27	23.0	16	24	72	.55	.094	17	157	.60	141	.09	23	1.69	.04	.16	14	190.0
STANDARD G-2	2	3	<3	42	<.3	8	4	517	1.98	<2	<8	<2	3	67	<.2	<3	<3	36	.61	.103	6	71	.58	217	.12	<3	.89	.07	.46	2	-

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME A[illegible]YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604[illegible]3-1716
(I[illegible] 9002 Accredited Co.)

ASSAY CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003525R2
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Cu %	Zn %	Ag** gm/mt	Au** gm/mt
206649	1.244	.17	431.4	1.18
206651	.223	2.12	910.6	2.79
206652	1.759	.14	396.4	1.43
206653	.083	3.86	78.3	1.21
206656	.307	.11	388.7	4.56
206657	.872	.24	309.7	1.83
206658	2.938	.42	328.4	1.48
206662	-	-	-	1.94
206663	.563	.42	189.1	1.42
206837	1.215	.01	52.5	1.41
RE 206837	1.216	.01	51.4	1.38
206840	1.203	.02	255.9	4.17
206841	-	-	-	1.79
206842	.304	.02	759.9	9.28
206844	-	-	-	1.28
206845	1.027	<.01	8.7	-
206654	.156	.71	102.2	1.79
206655	.105	.06	113.0	2.81
STANDARD R-1/AU-1	.825	2.21	98.2	4.01

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 3 2000 DATE REPORT MAILED: Oct 6/00 SIGNED BY. [signature] D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data [initial] FA ____

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(1 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003555 Page 1

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
206601	3	13496	2546	2836	221.9	23	21	32	15.87	8645	<8	6	<2	44	38.7	7449	116	1	.01	<.001	<1	19	<.01	14	<.01	<3	.03	.01	.02	4	7004.1
206602	3	2242	5722	36926	278.4	9	6	41	10.04	1224	<8	6	<2	82	520.4	3159	73	1	.01	.006	<1	14	<.01	15	<.01	<3	.08	.01	.01	<2	5973.7
206603	4	1611	405	673	85.8	8	3	32	6.95	497	9	2	<2	23	7.8	923	64	1	.01	.001	<1	26	<.01	25	<.01	<3	.06	.01	.01	6	1184.4
206604	4	41	305	684	4.6	7	7	28	4.35	253	<8	<2	<2	58	4.0	24	6	2	.03	.016	1	11	<.01	49	<.01	<3	.20	.01	.09	2	114.3
206605	2	112	67	44	4.9	3	2	13	1.45	118	<8	<2	<2	46	.5	52	7	1	<.01	.007	<1	10	<.01	128	<.01	<3	.11	<.01	.01	<2	147.0
206606	2	761	715	497	25.7	5	2	27	1.70	247	<8	<2	<2	33	7.6	325	10	1	.01	.003	<1	17	<.01	45	<.01	<3	.08	<.01	.02	6	178.5
206607	5	99999	559	3764	263.1	<1	<1	61	10.03	67030	9	15	<2	46	62.4	26146	93	1	.01	<.001	<1	7	<.01	33	<.01	<3	.06	.01	.02	4	16065.1
206608	2	62312	716	492	304.9	<1	<1	153	6.38	32000	<8	20	<2	37	4.4	25507	2696	3	<.01	<.001	<1	10	<.01	20	<.01	4	.10	.01	.04	<2	6863.5
206609	3	319	130	235	5.8	4	5	480	3.59	256	<8	<2	3	69	1.5	91	5	9	.51	.053	10	13	.07	189	.01	<3	.83	.04	.26	3	145.1
206610	4	427	42113	99999	132.6	7	4	2051	3.17	274	8	<2	5	37	1494.1	362	9	6	.43	.037	2	11	.12	82	<.01	<3	.42	.02	.16	4	415.7
206611	5	10376	567	489	398.5	7	4	33	5.03	5630	<8	2	<2	47	8.1	5242	110	1	.01	.003	<1	22	<.01	26	<.01	<3	.09	.01	.01	5	2236.9
206612	2	596	1926	1955	24.3	5	1	37	.98	183	<8	<2	<2	37	18.4	280	13	1	<.01	.003	<1	16	<.01	24	<.01	<3	.08	<.01	.01	4	214.2
206613	4	109	213	2433	18.7	8	3	33	2.19	72	<8	3	<2	13	1.6	57	9	1	<.01	.001	1	23	<.01	52	<.01	5	.03	<.01	.02	5	1684.8
206614	2	33	246	44	74.1	3	<1	27	1.91	124	<8	4	<2	31	<.2	256	76	1	<.01	.012	<1	18	<.01	92	<.01	<3	.03	.01	.06	5	3340.2
206615	4	81	143	60	93.1	3	<1	23	1.96	193	<8	4	<2	24	.2	393	60	2	<.01	.005	<1	20	<.01	21	<.01	<3	.05	<.01	.03	4	2688.6
206616	3	1065	87	302	41.5	5	1	28	3.74	515	<8	<2	<2	22	.9	367	22	1	<.01	.002	<1	17	<.01	44	<.01	5	.05	<.01	.02	6	1338.0
206617	3	641	239	35	277.4	6	1	26	5.03	638	<8	10	<2	7	.4	1213	72	<1	<.01	.001	<1	20	<.01	21	<.01	<3	.01	<.01	<.01	5	8446.2
206618	2	24796	262	959	391.8	7	2	69	5.56	12865	<8	8	<2	8	6.6	4747	56	1	<.01	<.001	<1	21	<.01	29	<.01	<3	.04	.01	.07	6	7020.1
206619	3	75	7	35	2.9	73	7	359	2.72	70	<8	<2	<2	186	.2	18	<3	133	1.66	.067	4	69	1.94	112	.11	4	2.34	.27	.34	4	48.0
206620	2	140	8	36	1.5	63	13	198	4.30	160	8	<2	2	120	.3	62	3	52	1.71	.050	5	44	.41	88	.03	5	3.48	.08	.26	<2	101.7
RE 206620	1	140	6	35	1.5	63	13	200	4.30	142	<8	<2	2	120	.5	62	3	53	1.71	.050	5	44	.41	90	.03	4	3.49	.08	.27	<2	95.4
206621	2	9	3	96	<.3	31	11	557	3.10	297	<8	<2	3	101	1.0	22	<3	54	.87	.084	8	38	.66	171	.02	10	3.24	.16	.28	<2	20.4
206622	2	13	7	4	<.3	4	2	13	1.64	14	<8	<2	2	9	<.2	4	<3	2	.01	.009	6	8	.01	109	<.01	<3	.27	.01	.15	2	37.0
206623	3	60	71	36	.6	6	4	106	27.54	126	<8	<2	<2	20	.2	3	<3	5	.09	.003	<1	13	.01	59	<.01	<3	.25	.02	.15	<2	18.2
206624	2	211	20	3	1.4	4	2	20	5.66	26	<8	<2	<2	50	.2	12	3	1	<.01	.002	<1	12	<.01	24	<.01	<3	.09	<.01	.01	2	101.1
206625	2	428	125	15	3.3	5	10	21	18.45	55	9	<2	<2	86	1.5	12	10	1	<.01	.004	<1	19	<.01	15	<.01	<3	.09	.01	.01	6	704.9
206626	2	26	15	29	<.3	5	4	163	.41	6	10	<2	3	142	<.2	<3	<3	5	1.68	.084	13	12	.01	149	<.01	<3	.39	.04	.20	3	10.8
206627	3	10	<3	27	<.3	3	3	330	1.62	2	9	<2	<2	41	<.2	<3	<3	34	.44	.054	6	21	.27	85	.06	5	.53	.13	.12	6	8.9
206628	3	183	398	1391	3.0	3	8	2320	4.19	1738	<8	<2	<2	148	11.6	113	31	8	6.94	.014	1	10	2.76	61	<.01	<3	.18	.01	.09	<2	133.7
206629	2	19	48	10	9.7	2	1	17	1.21	54	<8	<2	<2	55	<.2	39	9	2	.01	.004	<1	10	<.01	226	<.01	<3	.18	.02	.05	3	142.3
206630	<1	55	7	31	.5	3	7	2556	6.56	29	<8	<2	<2	199	.6	11	3	27	12.67	.020	5	7	2.35	146	.01	<3	.45	.01	.18	<2	17.0
206631	1	251	4249	5657	8.1	4	10	3497	7.38	183	12	<2	5	12	78.4	4	<3	46	.26	.087	7	11	1.07	279	.02	7	2.85	.02	.61	<2	75.4
206632	2	3082	169	93	59.4	15	5	51	27.52	607	<8	3	<2	21	1.4	180	56	1	.05	<.001	<1	12	.01	39	<.01	3	.09	.01	.04	9	2150.4
STANDARD C3/DS2	27	67	37	170	5.7	41	12	818	3.59	62	21	<2	22	32	24.3	23	25	81	.61	.100	19	179	.65	162	.09	22	1.72	.04	.16	19	221.9
STANDARD G-2	1	5	3	46	<.3	8	4	525	1.96	2	8	<2	3	93	<.2	<3	<3	36	.68	.104	6	74	.59	256	.12	<3	1.02	.15	.47	3	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 28/00 **SIGNED BY** C. L........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data L FA ____

ACME ANALYTICAL

Equity Engineering Ltd. PROJECT Thorn FILE # A003555

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
206633	5	9713	5223	9347	107.4	50	15	44	29.35	3299	<8	<2	<2	25	147.1	1231	72	3	<.01	<.001	<1	12	<.01	9	<.01	<3	.14	.01	.06	<2	1503.7
206634	2	7893	371	863	363.9	3	1	71	4.69	3482	<8	5	<2	18	12.1	6288	101	2	.01	.003	1	9	<.01	28	<.01	<3	.14	.01	.06	3	2926.1
206635	2	64	29	49	4.5	3	3	309	1.54	36	<8	<2	<2	23	.4	76	<3	29	.36	.051	5	16	.24	54	.05	<3	.39	.08	.08	5	30.1
206636	3	28767	4411	11695	194.9	9	67	260	18.39	3963	10	2	<2	17	203.8	22	1051	59	.29	.054	1	8	.66	81	.01	<3	2.39	.01	.37	2	2518.7
206637	4	23817	1017	3030	282.7	10	5	613	15.22	8584	19	4	<2	32	50.6	1703	166	4	.01	<.001	1	15	.01	45	<.01	<3	.16	.01	.06	8	8285.8
206638	8	16482	18178	2946	225.7	5	147	358	22.85	860	8	<2	<2	15	57.9	60	12878	5	.16	.021	<1	8	.22	19	<.01	<3	.83	.01	.14	<2	132.2
206639	2	369	97	93	5.3	2	29	941	7.68	37000	<8	<2	<2	104	1.3	17	16	28	5.20	.076	1	6	1.90	62	.01	<3	.82	.03	.26	<2	71.8
206640	<1	1431	95	165	2.7	5	32	1908	7.75	133	9	<2	<2	61	1.6	12	27	91	2.84	.105	3	4	1.40	73	.02	5	2.53	.03	.30	4	22.3
206641	336	2868	2601	3722	89.7	9	160	835	24.43	54689	<8	45	<2	22	57.6	1301	299	27	.72	.017	1	15	.23	20	<.01	<3	.50	.01	.10	<2	51012.0
206642	202	1696	4838	896	289.0	9	117	1878	23.71	19696	8	37	<2	9	16.0	629	4235	30	.67	.034	1	10	.57	29	.01	<3	.65	.01	.17	<2	34436.5
206643	5	749	142	558	8.9	8	59	601	15.78	2519	17	<2	<2	10	6.8	33	55	88	.21	.097	5	18	1.03	41	.01	<3	3.29	.01	.10	<2	504.6
206644	4	1998	319	216	23.7	2	214	479	43.29	3695	15	<2	<2	2	3.9	17	158	3	.02	.008	2	8	.15	7	<.01	<3	1.10	<.01	.02	<2	1238.3
206801	1	40	269	153	1.9	6	6	22	3.54	98	<8	<2	<2	27	1.7	10	5	2	.03	.005	<1	7	.01	38	<.01	<3	.11	.01	.01	4	23.0
206802	<1	14480	276	2802	91.9	11	5	32	19.73	4953	9	<2	<2	47	19.1	2418	52	<1	<.01	<.001	<1	11	<.01	12	<.01	<3	.09	.01	.01	<2	581.4
206803	2	92	536	615	5.9	4	5	16	3.13	256	<8	<2	<2	31	5.7	30	8	2	<.01	.009	1	6	<.01	39	<.01	<3	.12	.01	.03	2	59.0
206804	1	6848	69	481	146.2	6	2	34	3.24	3050	<8	<2	<2	15	9.0	1824	69	1	<.01	.002	<1	14	<.01	14	<.01	3	.05	.01	.01	5	578.9
206805	1	333	23	244	.7	5	8	1519	2.84	113	<8	<2	4	194	2.1	8	<3	24	3.17	.086	19	4	.90	462	<.01	3	1.68	.05	.27	<2	11.9
206806	1	60	104	155	13.4	3	2	26	1.49	118	<8	<2	<2	15	1.2	29	12	2	<.01	.006	<1	4	<.01	25	<.01	<3	.17	.01	.08	5	712.5
206807	3	277	296	171	22.0	6	3	22	3.98	146	<8	<2	<2	12	1.1	88	13	1	.01	.005	1	10	<.01	14	<.01	<3	.13	.01	.04	6	796.7
206808	4	88304	581	13583	268.8	<1	7	36	14.25	34496	<8	24	<2	12	36.4	23427	1201	<1	<.01	<.001	<1	11	<.01	12	<.01	<3	.04	.01	.01	9	32812.6
RE 206808	4	88230	586	13563	264.6	<1	7	37	14.34	34805	<8	27	<2	13	36.7	23416	1211	<1	<.01	<.001	<1	11	<.01	12	<.01	<3	.05	.01	.01	10	29580.8
206809	1	663	323	259	6.8	1	2	545	3.85	566	<8	<2	3	428	.6	147	8	9	.07	.326	5	4	.02	267	<.01	<3	.58	.02	.20	2	83.0
206810	1	435	31	146	9.2	4	3	23	1.97	211	<8	<2	<2	19	.7	143	16	1	<.01	.002	<1	10	<.01	39	<.01	<3	.10	.01	.02	6	205.8
206811	3	468	139	142	76.4	3	<1	26	1.41	326	<8	3	<2	29	.3	378	79	2	<.01	.005	<1	19	<.01	33	<.01	<3	.05	<.01	.02	7	3423.9
206812	28	986	25	40	2.0	5	5	304	1.03	19	<8	<2	9	17	.7	12	6	2	.62	.030	19	4	.04	235	<.01	<3	.25	.04	.19	3	49.0
206813	5	22	13	1	1.1	1	<1	13	.55	20	<8	<2	6	4	<.2	5	88	<1	.01	.007	16	6	<.01	66	<.01	3	.24	.03	.16	3	28.8
206814	1	99999	162	3502	181.3	118	64	160	24.78	38103	<8	15	<2	3	41.7	29314	133	1	.01	<.001	1	6	<.01	11	<.01	<3	.02	.01	.03	5	31422.7
206815	2	719	320	51	52.0	4	<1	20	4.20	289	<8	3	<2	21	.6	300	33	1	.01	.002	<1	14	<.01	35	<.01	<3	.14	.01	.06	5	2734.5
206816	1	786	10	39	25.8	4	3	301	1.62	373	<8	<2	<2	19	.4	465	3	32	.30	.056	5	10	.23	46	.05	<3	.35	.07	.07	5	75.1
206817	3	22995	133	326	253.1	31	12	66	17.86	7790	20	7	<2	19	2.3	3729	45	1	<.01	<.001	<1	20	<.01	11	<.01	<3	.07	.01	.04	2	6018.7
206818	1	3076	115	27	252.0	15	4	40	3.98	1510	<8	4	<2	32	<.2	1718	41	1	<.01	.003	<1	15	<.01	34	<.01	<3	.09	.01	.04	6	3815.7
206819	1	313	16	19	6.1	3	30	508	6.44	169	13	<2	<2	49	.7	58	76	4	3.12	.043	<1	13	1.11	33	<.01	<3	.14	.01	.11	6	319.5
206820	1	1986	17	73	20.5	11	139	36	19.13	459	9	<2	<2	6	1.8	365	115	2	.32	<.001	1	16	.01	15	<.01	<3	.06	.01	.07	8	654.4
206821	5	1134	24802	99999	210.1	30	22	7073	8.74	3468	16	2	<2	40	2447.2	98	<3	44	3.48	.016	1	114	1.61	4	<.01	<3	.87	<.01	.03	<2	725.8
STANDARD C3/DS2	26	67	34	170	5.6	39	12	789	3.46	63	22	<2	21	27	23.8	14	21	77	.58	.096	18	169	.63	152	.08	24	1.74	.04	.17	18	190.0
STANDARD G-2	2	5	3	41	<.3	8	4	520	2.00	3	8	<2	4	76	<.2	<3	3	37	.65	.103	7	73	.61	236	.12	4	1.00	.12	.53	3	-

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL

Equity Engineering Ltd. PROJECT Thorn FILE # A003555

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
206822	<1	5367	410	897	21.9	7	3	144	24.59	1767	13	<2	<2	21	9.2	248	117	2	.01	.001	1	9	<.01	4	<.01	28	.16	.01	.03	9	360.9
206823	3	662	204	567	1.0	9	20	949	7.86	1238	8	<2	2	48	4.7	20	4	29	.30	.224	9	5	.30	716	<.01	7	1.39	.01	.21	<2	14.7
206824	26	18514	476	377	128.6	4	2	181	5.96	8764	<8	2	<2	12	4.2	3692	245	1	<.01	.011	<1	12	<.01	16	<.01	8	.17	.01	.07	9	2238.7
206825	11	164	112	92	11.9	3	3	24	2.43	539	<8	<2	<2	11	1.0	134	3	1	<.01	.002	<1	11	<.01	13	<.01	4	.15	.01	.04	2	81.2
206826	1	12029	1613	1732	253.5	<1	1	84	3.34	4933	<8	6	<2	55	21.8	11896	3753	4	.02	.017	<1	9	.02	35	<.01	5	.34	.01	.15	8	10234.1
206827	2	99	113	37	28.3	2	2	32	1.48	279	<8	<2	<2	39	.4	532	55	2	.01	.003	<1	9	.01	104	<.01	4	.27	.01	.13	2	1524.4
206828	2	15420	335	1359	100.2	7	3	165	17.78	5451	8	<2	<2	11	13.3	1070	265	3	.01	<.001	<1	10	.02	10	<.01	<3	.21	.01	.08	5	1669.1
206829	6	37539	232	1371	108.5	8	2	267	37.30	12299	<8	2	<2	6	13.6	1960	234	1	.01	<.001	<1	8	<.01	6	<.01	<3	.11	.01	.06	11	1600.2
206830	2	467	957	5749	6.5	5	75	4814	16.70	16568	24	2	<2	97	71.2	47	7	98	2.37	.064	5	7	.97	47	<.01	<3	3.15	.01	.09	<2	2488.4
206831	3	3624	44	239	23.9	6	6	42	6.07	1750	<8	<2	<2	18	2.8	395	12	1	.07	.010	<1	13	.01	20	<.01	<3	.14	.01	.02	2	1068.1
206832	2	156	822	828	12.7	4	38	4910	9.54	4065	32	<2	<2	114	8.1	22	21	33	4.84	.054	1	7	1.42	26	<.01	<3	.34	.01	.12	<2	345.8
206833	2	44	845	850	2.8	7	6	2205	2.89	82	<8	<2	4	20	6.0	6	4	6	.76	.086	4	10	.26	76	<.01	<3	.48	.01	.18	<2	14.1
RE 206833	3	44	842	843	2.7	6	6	2162	2.81	79	<8	<2	4	20	6.0	7	6	6	.74	.085	4	7	.26	76	<.01	<3	.47	.01	.17	<2	14.0
STANDARD C3/DS2	25	65	37	172	5.5	38	11	774	3.48	55	20	<2	21	29	23.9	16	25	75	.55	.096	18	160	.60	149	.09	24	1.79	.04	.16	16	190.4
STANDARD G-2	1	2	3	44	<.3	8	4	532	2.10	<2	<8	<2	3	71	<.2	<3	<3	38	.62	.106	7	72	.60	227	.12	<3	.95	.07	.47	<2	-

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003555R2

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Cu %	Pb %	Zn %	Ag** gm/mt	Au** gm/mt
206601	1.448	.27	.22	712.9	7.45
206602	.235	.57	3.57	294.7	6.36
206603	-	-	-	-	1.46
206607	17.352	.05	.11	1634.7	-
206608	6.391	.06	<.01	1397.1	7.93
206610	.042	13.07	10.64	141.1	-
206611	1.051	.05	.03	414.9	2.29
206613	-	-	-	-	1.79
206614	-	-	-	-	3.26
206615	-	-	-	-	3.12
206616	-	-	-	-	1.41
206617	.062	.02	<.01	286.0	8.13
206618	2.454	.02	.04	431.3	6.73
RE 206618	2.463	.02	.04	431.0	6.83
206632	-	-	-	-	2.15
206633	1.083	.62	.97	113.3	1.46
206634	.825	.03	.06	380.1	3.22
206636	3.341	.52	1.22	207.6	2.24
206637	2.471	.11	.22	311.2	5.04
206638	1.853	2.73	.24	696.2	-
206642	.167	.57	.09	322.0	34.48
206802	1.615	.03	.24	92.9	-
206804	.677	.01	.03	138.1	-
206808	9.185	.06	1.29	1066.7	-
206814	12.045	.05	.20	2413.5	-
206815	.071	.03	<.01	51.6	2.73
206817	2.503	.01	<.01	399.9	5.31
206818	.320	.01	<.01	260.0	3.31
206821	.118	7.50	24.35	237.9	-
206824	1.906	.04	.01	127.2	1.24 *
206826	1.216	.14	.12	306.3	4.80 *
206827	-	-	-	-	.85 *
206828	1.683	.03	.10	99.5	.93 *
206829	4.485	.02	.09	166.0	1.20 *
206830	-	-	-	-	3.01
206831	-	-	-	-	.83 *
STANDARD R-1/AU-1	.835	1.27	2.18	100.1	3.67

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: ROCK PULP AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 3 2000 DATE REPORT MAILED: Oct 6/00 SIGNED BY..........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

* Subject to reassay check for gold, Subject to reassay check for Zn

 Data ✓ FA ____

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(1 9002 Accredited Co.)

ASSAY CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003555R3

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	DupAu gm/mt	TotAu gm/mt
206607	450	.31	18.79	-	19.48
206641	486	1.13	55.05	-	57.38
206642	471	.34	17.83	-	18.55
206808	477	.91	22.23	-	24.14
206814	510	4.47	13.37	-	22.13
206826	480	.07	3.95	4.07	4.10

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: ROCK REJ.

DATE RECEIVED: OCT 3 2000 DATE REPORT MAILED: Oct 6/00 SIGNED BY ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data___ FA ___

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Comments: CC: D. CAUFIELD

CERTIFICATE A9930401

(EIA) - EQUITY ENGINEERING LTD.

Project: THORN
P.O. # : RMC99-06

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-OCT-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	6	Geochem ring to approx 150 mesh
226	6	0-3 Kg crush and split
3202	6	Rock - save entire reject
233	6	Assay AQ ICP digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	6	Au ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
976	6	Pt ppb: ICP-Fluorescence package	FA-ICP-AFS	5	10000
977	6	Pd ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
4001	6	Ag ppm : A30 ICP package	ICP-AES	1	200
4002	6	Al %: A30 ICP package	ICP-AES	0.01	15.00
4003	6	As ppm: A30 ICP package	ICP-AES	10	50000
4004	6	Ba ppm: A30 ICP package	ICP-AES	20	20000
4005	6	Be ppm: A30 ICP package	ICP-AES	5	100
4006	6	Bi ppm: A30 ICP package	ICP-AES	10	50000
4007	6	Ca %: A30 ICP package	ICP-AES	0.01	30.0
4008	6	Cd ppm: A30 ICP package	ICP-AES	5	1000
4009	6	Co ppm: A30 ICP package	ICP-AES	5	50000
4010	6	Cr ppm: A30 ICP package	ICP-AES	10	20000
4011	6	Cu ppm: A30 ICP package	ICP-AES	5	50000
4012	6	Fe %: A30 ICP package	ICP-AES	0.01	30.0
4013	6	Hg ppm: A30 ICP package	ICP-AES	10	10000
4014	6	K %: A30 ICP package	ICP-AES	0.01	10.00
4015	6	Mg %: A30 ICP package	ICP-AES	0.01	30.0
4016	6	Mn ppm: A30 ICP package	ICP-AES	10	50000
4017	6	Mo ppm: A30 ICP package	ICP-AES	5	50000
4018	6	Na %: A30 ICP package	ICP-AES	0.01	20.0
4019	6	Ni ppm: A30 ICP package	ICP-AES	5	50000
4020	6	P ppm: A30 ICP package	ICP-AES	100	10000
4021	6	Pb ppm: A30 ICP package	ICP-AES	5	50000
4022	6	Sb ppm: A30 ICP package	ICP-AES	10	10000
4023	6	Sc ppm: A30 ICP package	ICP-AES	5	10000
4024	6	Sr ppm: A30 ICP package	ICP-AES	5	10000
4025	6	Ti %: A30 ICP package	ICP-AES	0.01	10.00
4026	6	Tl ppm: A30 ICP package	ICP-AES	20	10000
4027	6	U ppm: A30 ICP package	ICP-AES	20	10000
4028	6	V ppm: A30 ICP package	ICP-AES	20	50000
4029	6	W ppm: A30 ICP package	ICP-AES	20	10000
4030	6	Zn ppm: A30 ICP package	ICP-AES	5	50000
18	6	W ppm: K pyrosulfate fusion	COLORIMETRIC	2	1000
19	6	Sn ppm: NH4I sublimation, extrac	AAS	2	1000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : THORN
Comments: CC: D. CAUFIELD

Page Number :1-A
Total Pages :1
Certificate Date: 19-OCT-1999
Invoice No. : I9930401
P.O. Number : RMC99-06
Account : EIA

CERTIFICATE OF ANALYSIS A9930401

SAMPLE	PREP CODE		Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm
129057	205	226	750	< 5	4	>200	0.14	33100	440	< 5	< 10	0.04	45	20	100	>50000	27.0	10	0.03	< 0.01	570
129059	205	226	874	< 5	4	>200	0.13	42500	400	< 5	< 10	0.03	50	5	100	>50000	>30.0	30	0.02	< 0.01	990
129060	205	226	>10000	< 5	4	>200	0.17	>50000	500	< 5	< 10	0.02	25	5	10	>50000	7.01	< 10	0.06	< 0.01	2610
129061	205	226	30	< 5	< 2	8	0.20	520	60	< 5	20	0.06	5	< 5	90	1260	4.32	< 10	0.06	< 0.01	40
129062	205	226	5000	< 5	4	>200	0.20	>50000	200	< 5	< 10	0.01	30	< 5	50	>50000	21.3	10	0.10	< 0.01	260
129063	205	226	4100	< 5	< 2	>200	0.14	42600	120	< 5	< 10	0.02	5	< 5	170	>50000	9.05	10	0.07	< 0.01	70

CERTIFICATION:

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.
700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : THORN
Comments: CC: D. CAUFIELD

Certificate Date: 19-OCT-1999
Invoice No. : I9930401
P.O. Number : RMC99-06
Account : EIA

CERTIFICATE OF ANALYSIS A9930401

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	W ppm	Sn ppm
129057	205	226	< 5	< 0.01	20	< 100	765	8230	< 5	140	< 0.01	< 20	< 20	< 20	< 20	2490	< 2	625
129059	205	226	< 5	< 0.01	35	< 100	1030	9570	< 5	185	< 0.01	< 20	< 20	< 20	20	2740	< 2	650
129060	205	226	10	< 0.01	30	< 100	1995	>10000	< 5	80	< 0.01	< 20	< 20	< 20	< 20	1945	< 2	325
129061	205	226	5	< 0.01	5	100	50	130	< 5	30	< 0.01	< 20	< 20	< 20	< 20	55	< 2	10
129062	205	226	< 5	< 0.01	30	< 100	1325	>10000	< 5	60	< 0.01	< 20	< 20	< 20	< 20	2360	< 2	750
129063	205	226	< 5	< 0.01	25	< 100	435	>10000	< 5	30	< 0.01	< 20	< 20	< 20	< 20	145	< 2	750

CERTIFICATION: ____________

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : RMCOO-05
Comments: ATTN: HENRY AWMACK

Page Number : 1-A
Total Pages : 1
Certificate Date: 24-AUG-2000
Invoice No. : I0026642
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0026642

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
118958	255	295	< 5	1.2	1.09	70	< 10	50	0.5	28	0.07	< 0.5	6	92	405	6.86	< 10	< 1	0.17	10	0.38

CERTIFICATION: ____________

ALS Chemex
Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : RMCOO-05
Comments: ATTN: HENRY AWMACK

Page Number :1-B
Total Pages :1
Certificate Date: 24-AUG-2000
Invoice No. : I0026642
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0026642

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
118958	255	295	95	4	< 0.01	5	320	< 2	3.11	4	2	8	< 0.01	< 10	< 10	51	10	8

CERTIFICATION: [signature]

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Comments: CC: D. CAUFIELD

CERTIFICATE A9931708

(EIA) - EQUITY ENGINEERING LTD.

Project: THORN
P.O. # : RMC99-06

Samples submitted to our lab in Vancouver, BC.
This report was printed on 20-OCT-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
212	1	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : THORN
Comments: CC: D. CAUFIELD

Page Number :1
Total Pages :1
Certificate Date: 20-OCT-1999
Invoice No. : I9931708
P.O. Number : RMC99-06
Account : EIA

CERTIFICATE OF ANALYSIS A9931708

SAMPLE	PREP CODE		Au FA g/t									
129060	212	--	13.84									

CERTIFICATION: [signature]

OVERLIMITS from A9930401

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

A9931213

Comments: CC: D. CAUFIELD

CERTIFICATE A9931213

(EIA) - EQUITY ENGINEERING LTD.

Project: THORN
P.O. # : RMC99-06

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-OCT-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
212	5	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	5	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	3500
301	5	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : THORN
Comments: CC: D. CAUFIELD

Page Num. :1
Total Pages :1
Certificate Date: 15-OCT-1999
Invoice No. : I9931213
P.O. Number : RMC99-06
Account : EIA

CERTIFICATE OF ANALYSIS A9931213

SAMPLE	PREP CODE		Ag FA g/t	Cu %
129057	212	--	224	8.73
129059	212	--	285	11.00
129060	212	--	2900	32.8
129062	212	--	564	16.50
129063	212	--	391	8.61

CERTIFICATION:

OVERLIMITS from A9930401

APPENDIX F.4

CERTIFICATES OF ANALYSIS

WHOLE ROCK SAMPLES

ACME AN TICAL LABORATORIES LTD. 852 E. HASTINGS ST. V UVER BC V6A 1R6 PHONE(604)253-3158 FAX(604) 1716
(ISO 002 Accredited Co.)

WHOLE ROCK ICP ANALYSIS

Equity Engineering Ltd. PROJECT Thorn File # A003555R

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Sr ppm	Zr ppm	Ce ppm	Y ppm	Nb ppm	Sc ppm	Ta ppm	LOI %	TOT/C %	TOT/S %	SUM %
206801	71.19	16.28	5.02	.02	.10	.13	.13	.41	.17	<.01	.003	583	30	102	<20	<20	1141	88	47	<10	<10	5	<20	6.3	<.01	3.80	100.00
206805	61.45	16.36	4.65	1.88	4.55	1.59	2.77	.45	.19	.20	.010	2097	296	227	30	<20	565	81	43	13	<10	7	<20	5.4	1.05	.45	99.89
206812	70.71	15.05	1.68	.28	1.10	3.40	5.06	.25	.06	.04	.004	1765	889	<20	<20	<20	184	181	64	12	10	3	<20	2.0	.19	.51	100.00
206813	76.07	13.73	.91	.16	.09	2.30	4.86	.16	.02	<.01	.008	1452	22	<20	27	<20	96	121	65	10	10	2	<20	1.5	.05	.04	100.02
206824	68.21	10.20	7.79	.04	.04	.14	1.13	.32	.08	.02	.010	252	16597	254	20	<20	728	70	38	<10	<10	4	<20	9.4	<.01	8.47	99.62
RE 206824	68.19	10.29	7.96	.05	.04	.12	1.06	.32	.10	.02	.010	253	14820	265	31	<20	713	67	25	<10	<10	3	<20	9.5	<.01	8.28	99.68
STANDARD SO-15/CSB	49.09	12.82	7.31	7.27	5.87	2.41	1.85	1.66	2.70	1.39	1.061	1983	100	240	87	24	396	912	46	21	25	12	<20	5.9	2.41	5.31	99.79

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.
TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)
- SAMPLE TYPE: ROCK PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 3 2000 **DATE REPORT MAILED:** Oct 10/00 **SIGNED BY** C. L....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data___ FA ____

ACME AN TICAL LABORATORIES LTD. 852 E. HASTINGS ST. V UVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)7 1716
(ISO 002 Accredited Co.)

WHOLE ROCK ICP ANALYSIS

Equity Engineering Ltd. PROJECT Thorn File # A003525R

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	SiO_2 %	Al_2O_3 %	Fe_2O_3 %	MgO %	CaO %	Na_2O %	K_2O %	TiO_2 %	P_2O_5 %	MnO %	Cr_2O_3 %	Ba ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Sr ppm	Zr ppm	Ce ppm	Y ppm	Nb ppm	Sc ppm	Ta ppm	LOI %	TOT/C %	TOT/S %	SUM %
206835	61.51	15.68	3.92	1.00	4.89	2.81	2.62	.40	.19	.13	.010	2050	129	192	<20	<20	693	102	42	15	<10	6	<20	6.3	1.25	.03	99.83
206838	69.78	14.86	2.41	.41	1.43	3.30	4.26	.33	.07	.09	.011	1292	26	45	<20	<20	319	183	59	15	18	3	<20	2.7	.31	<.01	99.88
206839	65.18	15.33	4.67	.55	2.51	4.01	2.24	.51	.22	.12	.009	408	23	32	<20	<20	452	182	42	15	11	5	<20	4.5	.93	.04	99.99
206846	62.66	15.78	3.99	1.78	4.23	4.11	1.94	.44	.14	.13	.011	2151	81	21	<20	<20	1073	100	27	14	<10	7	<20	4.4	.87	.14	100.01
RE 206846	62.56	15.80	3.99	1.78	4.20	4.10	1.86	.44	.14	.13	.009	2133	80	30	<20	<20	1068	98	24	14	<10	7	<20	4.5	.85	.12	99.91
STANDARD SO-15/CSB	49.48	12.61	7.26	7.22	5.84	2.40	1.87	1.75	2.69	1.38	1.065	2000	115	217	90	24	397	934	60	23	30	13	<20	5.9	2.41	5.31	99.93

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.
TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)
- SAMPLE TYPE: ROCK PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 3 2000 **DATE REPORT MAILED:** Oct 6/00 **SIGNED BY** .... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

APPENDIX F.5

CERTIFICATES OF ANALYSIS

CORE SAMPLES

ACME AN TICAL LABORATORIES LTD. 852 E. HASTINGS ST. V UVER BC V6A 1R6 PHONE(604)253-3158 FAX(604) -1716
(IS 002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003548 Page 1
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3001	<1	164	145	780	1.2	13	27	2557	6.97	87	<8	<2	2	68	6.6	5	<3	154	3.45	.126	6	11	1.64	114	.11	3	2.87	.09	.20	<2	20.1
3002	2	309	227	448	2.2	9	19	2344	6.01	205	<8	<2	<2	116	3.6	41	<3	92	2.74	.092	4	10	1.14	154	.10	<3	2.23	.22	.15	<2	112.5
3003	6	118	93	229	.6	4	14	1280	4.71	66	<8	<2	14	54	1.1	5	<3	67	1.34	.099	8	3	.89	273	.04	3	1.62	.06	.21	<2	18.8
3004	3	297	190	143	6.5	5	7	41	3.98	99	<8	<2	2	31	1.3	72	15	3	.13	.045	1	11	.01	56	<.01	10	.21	.01	.05	4	43.8
3005	2	133	568	629	3.6	4	8	54	4.07	72	<8	<2	<2	38	4.7	31	7	3	.12	.036	<1	6	.02	62	<.01	5	.23	.01	.08	<2	26.0
3006	2	86	822	1387	2.8	4	10	64	4.46	155	<8	<2	<2	39	9.5	8	3	5	.13	.034	1	7	.04	58	<.01	7	.47	.02	.24	<2	60.5
3007	1	159	820	1865	1.8	4	7	63	3.32	75	<8	<2	<2	37	11.9	<3	<3	5	.14	.037	1	4	.04	60	<.01	5	.51	.02	.29	<2	30.5
3008	1	424	1359	3076	2.9	3	7	66	3.38	83	<8	<2	<2	43	21.2	11	3	5	.18	.056	1	6	.04	66	<.01	6	.53	.02	.28	<2	86.1
3009	1	71	1443	3136	3.8	4	7	76	3.89	151	<8	<2	2	56	22.8	15	4	4	.21	.068	1	8	.03	51	<.01	8	.45	.01	.21	<2	40.2
3010	2	49	979	1923	3.6	4	9	96	3.74	146	<8	<2	2	60	12.2	10	<3	4	.25	.086	1	7	.04	57	<.01	7	.55	.01	.29	<2	23.4
RE 3010	3	51	1028	2063	3.7	4	9	103	3.95	154	<8	<2	2	64	13.1	10	<3	4	.27	.091	1	8	.04	57	<.01	4	.57	.02	.30	<2	19.2
RRE 3010	1	49	1011	2101	3.5	4	9	99	3.87	153	<8	<2	<2	63	13.3	10	<3	4	.27	.092	1	5	.04	61	<.01	5	.53	.02	.28	<2	22.2
3011	2	52	553	808	2.7	4	6	67	4.58	147	<8	<2	<2	58	5.9	14	4	3	.20	.062	1	7	.02	47	<.01	3	.35	.01	.15	<2	43.1
3012	1	87	1128	2602	4.0	4	6	143	4.24	101	<8	<2	2	59	19.4	11	5	3	.26	.077	1	6	.04	43	<.01	5	.46	.02	.21	<2	43.5
3013	2	26	917	1521	2.3	7	7	5058	3.01	36	<8	<2	4	63	11.0	<3	<3	4	.88	.081	5	6	.22	62	<.01	3	.61	.02	.24	<2	21.5
3014	1	69	24	366	<.3	85	25	6823	5.82	27	<8	<2	2	115	1.2	<3	<3	135	3.89	.223	39	113	3.27	516	.04	<3	3.58	.10	.06	<2	3.1
3015	2	110	19	392	<.3	73	24	5527	5.63	26	<8	<2	<2	118	1.7	<3	<3	138	3.86	.244	42	110	2.87	727	.04	<3	3.15	.12	.04	<2	2.1
3016	1	49	1088	1641	2.8	9	7	148	3.39	100	<8	<2	4	56	14.5	6	<3	4	.31	.080	2	6	.07	57	<.01	6	.59	.02	.25	<2	177.6
3017	3	173	133	564	.3	7	11	2911	3.22	104	<8	<2	5	203	4.6	<3	<3	18	2.21	.115	16	9	.52	127	<.01	4	.74	.05	.23	<2	22.8
3018	2	32	31	214	<.3	7	9	3578	3.30	40	<8	<2	4	325	.7	<3	<3	14	3.98	.088	13	4	.64	120	<.01	<3	.71	.04	.20	<2	2.6
3019	3	91	32	325	<.3	6	9	3087	3.41	54	<8	<2	4	362	1.4	<3	<3	12	3.65	.091	14	7	.66	134	<.01	3	.69	.05	.21	<2	2.7
3020	3	107	29	349	<.3	7	10	3063	3.34	52	<8	<2	4	354	1.6	<3	<3	13	3.53	.089	14	3	.66	142	<.01	3	.73	.05	.23	<2	1.6
3021	3	76	36	250	<.3	7	10	3845	3.25	52	<8	<2	5	431	1.0	<3	<3	17	4.05	.091	14	6	.61	140	<.01	4	.78	.05	.22	<2	7.2
3022	3	42	138	536	.6	8	10	4687	3.94	138	<8	<2	4	439	1.5	<3	<3	21	2.15	.091	13	5	.69	205	.01	5	1.30	.06	.34	<2	14.5
RE 3022	3	41	147	541	.5	8	10	4664	3.89	137	<8	<2	4	441	1.6	<3	<3	23	2.13	.091	13	5	.69	272	.01	6	1.50	.07	.40	<2	17.4
RRE 3022	2	42	140	548	.8	8	10	4637	3.89	137	<8	<2	4	436	1.5	<3	<3	22	2.15	.089	13	5	.69	278	.01	7	1.45	.06	.38	<2	29.3
3023	3	51	39	455	.5	14	15	116	3.74	140	<8	<2	4	709	1.7	<3	<3	8	.47	.108	3	4	.04	80	<.01	7	.73	.07	.20	<2	16.0
3024	2	619	87	81	4.0	10	13	72	6.08	195	<8	<2	2	225	.3	33	11	3	.27	.086	1	7	.01	31	<.01	4	.29	.04	.05	3	81.4
3025	3	34	855	1574	2.2	7	10	89	3.77	85	<8	<2	3	260	10.8	4	<3	5	.28	.085	2	6	.02	50	<.01	7	.42	.06	.15	<2	125.0
3026	4	21	92	183	<.3	9	11	5885	4.41	107	<8	<2	4	365	.4	<3	<3	10	.47	.108	12	7	.12	76	<.01	<3	.69	.08	.23	4	6.8
3027	4	41	195	632	.9	7	11	158	3.95	155	<8	<2	4	512	3.8	3	<3	6	.37	.107	11	4	.03	76	<.01	3	.62	.09	.22	<2	6.4
3028	3	60	161	294	3.2	7	9	2198	3.83	124	<8	<2	4	523	1.3	4	3	8	1.17	.093	9	8	.33	89	<.01	5	.71	.09	.21	<2	36.2
3029	2	19	72	89	.3	6	9	3121	3.03	164	<8	<2	4	679	<.2	<3	<3	19	3.98	.090	14	6	.44	120	<.01	3	.75	.10	.22	3	4.8
STANDARD C3/DS2	26	65	36	170	5.4	39	12	784	3.44	59	16	2	21	29	23.7	16	24	75	.57	.095	18	166	.61	151	.08	26	1.77	.04	.17	17	201.0
STANDARD G-2	2	3	<3	47	<.3	8	4	554	2.12	<2	<8	<2	4	90	<.2	<3	<3	40	.70	.107	7	80	.62	269	.13	<3	1.14	.14	.56	3	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 13 2000 DATE REPORT MAILED: Sept 21/00 SIGNED BY .... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3030	2	20	45	65	<.3	6	9	2591	3.10	115	<8	<2	4	412	.2	3	<3	19	4.54	.094	16	6	.50	123	<.01	<3	.73	.08	.21	<2	3.2
3031	1	19	23	54	<.3	6	8	2672	2.53	89	<8	<2	4	491	<.2	3	<3	14	5.13	.085	13	3	.58	102	<.01	<3	.79	.08	.17	<2	2.5
3032	2	33	237	346	1.0	5	8	1768	3.12	125	<8	<2	4	271	2.1	4	<3	8	2.46	.093	11	7	.32	102	<.01	<3	.70	.07	.23	<2	5.6
3033	1	11	108	193	<.3	3	6	2525	2.56	86	<8	<2	3	288	1.5	<3	<3	4	2.83	.075	10	2	.67	88	<.01	<3	.55	.03	.20	3	2.6
3034	4	32	117	10	1.5	5	8	94	3.00	183	<8	<2	<2	28	<.2	9	5	2	.09	.005	1	7	.02	36	<.01	<3	.12	.01	.02	2	188.7
3035	2	70	168	78	4.3	9	9	24	5.93	241	<8	<2	<2	32	.8	24	13	2	.01	.005	<1	8	<.01	18	<.01	<3	.15	.01	.02	3	252.8
3036	3	26	60	4	1.1	8	12	21	5.42	263	<8	<2	<2	22	<.2	5	7	2	.01	.003	<1	10	<.01	7	<.01	5	.11	.01	.01	3	88.1
3037	2	43	77	5	2.7	8	10	18	4.92	211	<8	<2	<2	22	<.2	17	8	1	.01	.002	<1	7	<.01	9	<.01	<3	.11	.01	.01	2	129.4
3038	5	34	51	4	1.6	7	4	14	3.16	91	<8	<2	<2	24	.3	7	15	2	<.01	.003	<1	8	<.01	7	<.01	<3	.10	.01	.01	2	73.6
3039	3	31	72	6	1.7	9	12	21	4.00	253	<8	<2	<2	26	<.2	8	17	1	.01	.003	<1	7	<.01	10	<.01	3	.12	.01	.01	2	82.4
3040	3	29	80	6	2.0	9	12	16	3.87	259	<8	<2	<2	26	<.2	10	19	2	.01	.003	<1	10	<.01	10	<.01	<3	.12	.01	.01	2	137.6
RE 3040	3	29	80	6	2.0	8	13	17	3.90	261	<8	<2	<2	27	<.2	9	19	2	.01	.003	<1	7	<.01	10	<.01	<3	.12	.01	.01	2	144.5
RRE 3040	2	28	76	7	1.9	8	12	17	3.82	251	<8	<2	<2	27	<.2	8	20	2	.01	.003	<1	6	<.01	10	<.01	4	.11	.01	.01	2	145.4
3041	4	76	75	11	2.9	10	12	19	4.67	259	<8	<2	<2	27	<.2	19	16	2	.01	.012	<1	9	<.01	11	<.01	<3	.13	.01	.01	3	86.0
3042	3	35	39	10	1.9	7	9	21	4.46	205	<8	<2	<2	20	<.2	7	12	2	.01	.003	<1	7	<.01	10	<.01	3	.12	.01	.01	3	180.1
3043	4	94	56	21	5.4	5	7	17	4.18	205	<8	<2	<2	17	.3	25	6	2	.01	.005	1	10	<.01	37	<.01	6	.12	.01	.01	<2	155.8
3044	3	113	65	26	7.7	6	8	20	3.91	250	<8	<2	<2	27	.6	35	9	3	.01	.006	1	8	<.01	19	<.01	<3	.13	.01	.01	2	157.2
3045	2	171	37	37	5.7	6	8	20	4.23	244	<8	<2	2	21	.7	49	9	2	.02	.009	1	10	<.01	8	<.01	4	.13	.01	.01	2	105.8
3046	4	4433	160	81	68.3	6	7	95	6.51	1540	<8	<2	<2	25	1.2	1018	382	2	.02	.005	1	5	<.01	23	<.01	<3	.12	.01	.01	2	594.2
3047	3	1415	72	29	30.0	6	8	43	5.29	677	<8	<2	<2	17	.5	309	132	2	.02	.004	1	9	<.01	8	<.01	<3	.14	.01	.01	2	257.9
3048	4	227	28	24	5.5	6	8	26	4.63	356	<8	<2	<2	22	<.2	54	11	2	.02	.008	<1	6	<.01	35	<.01	5	.11	.01	.01	<2	103.5
3049	3	1061	76	33	14.8	8	9	44	6.42	612	<8	<2	<2	23	.3	168	41	2	.01	.003	<1	10	<.01	24	<.01	<3	.14	.01	.01	2	355.5
3050	2	121	86	1927	6.0	7	7	36	5.38	274	<8	<2	2	22	.3	13	16	2	.01	.004	1	9	<.01	8	<.01	5	.11	.01	.01	<2	311.8
3051	4	82	50	37	4.1	5	6	30	4.40	227	<8	<2	<2	30	<.2	12	11	3	.01	.003	<1	13	<.01	8	<.01	3	.12	.01	<.01	3	244.4
3052	2	105	87	45	4.6	7	7	27	6.01	278	<8	<2	<2	25	<.2	11	14	2	.02	.003	1	7	<.01	7	<.01	<3	.12	.01	.01	2	339.2
RE 3052	2	112	91	47	4.9	7	8	28	6.28	291	<8	<2	<2	25	<.2	12	14	2	.02	.003	1	8	<.01	7	<.01	<3	.12	.01	<.01	2	348.1
RRE 3052	2	111	93	50	4.9	7	8	26	6.30	289	<8	<2	<2	24	<.2	13	16	2	.02	.003	1	9	<.01	6	<.01	4	.12	.01	.01	3	359.9
3053	1	16	34	22	1.5	5	6	27	3.31	191	<8	<2	<2	21	<.2	<3	5	2	.02	.001	1	7	<.01	15	<.01	3	.12	.01	.01	2	164.9
3054	2	37	54	16	1.9	8	9	25	4.10	275	<8	<2	<2	19	.2	5	10	2	.01	.003	1	8	<.01	7	<.01	3	.13	.01	<.01	2	239.1
3055	1	98	105	62	1.9	8	8	23	5.00	311	<8	<2	<2	20	<.2	9	4	2	.01	.004	1	8	<.01	4	<.01	4	.15	.01	.01	3	115.7
3056	3	269	107	41	6.2	8	7	24	6.67	240	<8	<2	<2	33	<.2	30	12	2	.01	.004	<1	15	<.01	6	<.01	<3	.14	.01	<.01	4	351.8
3057	1	40	47	20	1.9	6	7	22	4.06	213	<8	<2	<2	25	.4	3	12	2	.01	.003	<1	9	<.01	8	<.01	4	.11	.01	<.01	2	142.3
3058	2	75	120	81	2.8	5	5	29	4.41	171	<8	<2	<2	27	<.2	6	11	2	.02	.003	1	15	<.01	19	<.01	4	.09	.01	.01	5	202.1
3059	2	130	336	24	3.2	7	7	25	4.13	194	<8	<2	<2	37	<.2	12	9	2	.02	.002	1	12	<.01	8	<.01	4	.10	.01	<.01	3	252.6
STANDARD C3/DS2	27	66	36	167	5.5	41	12	806	3.48	60	20	2	21	29	24.4	16	24	78	.59	.099	18	168	.64	151	.08	20	1.80	.04	.17	17	198.0
STANDARD G-2	1	3	5	42	<.3	9	4	555	2.10	<2	<8	<2	5	85	<.2	<3	<3	39	.68	.106	7	80	.63	264	.13	<3	1.06	.12	.54	2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL

Equity Engineering Ltd. PROJECT Thorn FILE # A003548

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3060	1	142	637	349	4.5	8	8	31	4.55	230	<8	<2	<2	33	1.8	18	9	1	.06	.002	<1	8	<.01	8	<.01	<3	.10	.01	<.01	2	287.8
3061	18	928	238	1619	27.3	12	6	37	10.11	345	<8	3	<2	22	.8	87	62	1	.07	.003	<1	15	<.01	13	<.01	3	.09	.01	.02	<2	2142.1
3062	1	64	159	25	1.9	8	7	38	4.16	226	<8	<2	<2	27	<.2	6	7	2	.03	.002	<1	11	<.01	11	<.01	<3	.10	.01	<.01	2	165.0
3063	5	118	275	129	3.7	10	6	32	4.50	228	<8	<2	<2	29	.6	23	7	1	.03	.004	<1	14	<.01	10	<.01	<3	.11	.01	.01	<2	236.7
3064	1	266	425	256	4.0	8	6	37	5.77	249	<8	<2	<2	26	1.5	86	10	1	.03	.007	<1	13	<.01	9	<.01	4	.10	.01	.01	3	378.0
3065	7	63	128	90	1.4	14	9	34	5.58	198	<8	<2	<2	42	<.2	4	4	2	.03	.002	<1	19	<.01	13	<.01	3	.21	<.01	<.01	<2	168.2
3066	1	22	57	14	1.0	9	9	32	4.17	253	<8	<2	<2	39	<.2	<3	3	2	.04	.006	<1	10	<.01	12	<.01	3	.14	.01	<.01	2	89.4
3067	5	33	122	88	1.8	10	8	28	4.46	261	<8	<2	<2	39	<.2	5	5	2	.05	.011	<1	10	<.01	14	<.01	<3	.14	.01	<.01	<2	87.5
3068	2	158	104	43	4.3	8	9	32	4.22	255	<8	<2	2	35	.2	40	9	2	.08	.027	<1	8	<.01	5	<.01	3	.13	.01	.01	<2	95.7
3069	4	88	61	19	2.5	10	9	30	4.32	236	<8	<2	2	38	<.2	23	9	2	.06	.018	1	10	<.01	12	<.01	<3	.14	.01	.01	<2	76.6
3070	3	34	44	6	1.1	8	9	38	4.20	246	<8	<2	<2	49	<.2	<3	5	2	.07	.021	<1	9	<.01	34	<.01	<3	.17	.01	.01	<2	88.8
RE 3070	2	34	41	6	1.1	8	9	38	4.20	244	<8	<2	<2	48	<.2	<3	5	2	.07	.021	<1	8	<.01	35	<.01	<3	.17	.01	.01	2	87.0
RRE 3070	5	36	47	7	1.0	10	9	36	4.29	251	<8	<2	<2	50	<.2	<3	5	2	.07	.021	<1	11	<.01	36	<.01	<3	.18	.01	.01	<2	93.6
3071	3	111	62	23	2.5	7	9	36	4.36	308	<8	<2	2	45	<.2	24	8	2	.07	.023	1	7	<.01	29	<.01	3	.13	.01	.01	<2	90.2
3072	6	68	143	93	2.4	10	9	43	5.05	197	<8	<2	<2	50	.3	13	6	2	.12	.046	<1	11	<.01	12	<.01	<3	.15	.01	.01	<2	74.3
3073	2	18	55	33	.6	8	8	31	3.47	97	<8	<2	<2	61	<.2	<3	3	2	.09	.026	<1	9	<.01	15	<.01	<3	.15	.01	<.01	<2	39.0
3074	7	40	425	1187	2.6	15	14	41	7.48	217	<8	<2	<2	52	2.5	6	12	2	.13	.049	<1	14	<.01	18	<.01	<3	.18	.01	.02	<2	128.1
3075	3	30	157	64	1.3	7	8	47	5.01	148	<8	<2	2	52	<.2	5	5	2	.19	.078	1	6	.01	31	<.01	6	.15	.01	.02	2	69.4
3076	4	68	136	153	3.6	10	9	43	4.90	169	<8	<2	<2	52	.3	9	13	2	.21	.089	<1	10	<.01	26	<.01	<3	.16	.01	.02	2	103.7
3077	1	117	443	169	3.4	8	8	20	3.60	243	<8	<2	<2	14	2.0	19	5	3	.01	.006	<1	7	<.01	20	<.01	<3	.17	.01	.01	4	131.9
3078	3	153	306	382	4.6	11	9	19	3.91	245	<8	<2	<2	14	3.6	26	9	2	.01	.005	1	10	<.01	7	<.01	<3	.13	.01	.01	<2	138.8
3079	1	95	206	191	5.7	7	7	18	3.64	271	<8	<2	<2	18	2.0	16	16	2	<.01	.007	<1	7	<.01	21	<.01	<3	.15	.01	.01	3	376.5
3080	4	154	308	386	4.7	11	10	19	4.07	242	<8	<2	<2	15	4.3	24	7	2	.01	.005	1	10	<.01	6	<.01	<3	.13	.01	.01	<2	138.4
3081	<1	54	3042	5709	7.2	6	9	127	2.90	313	<8	<2	<2	51	55.1	14	<3	4	.18	.051	3	4	.03	64	<.01	<3	.46	.01	.15	3	116.0
3082	2	57	4706	7595	13.9	8	8	93	3.81	459	<8	<2	<2	38	73.7	14	9	4	.12	.037	1	8	.04	39	<.01	<3	.50	.01	.16	2	225.3
RE 3082	3	59	4722	7753	14.1	8	8	96	3.85	468	<8	<2	<2	39	75.5	16	9	5	.13	.037	1	7	.04	39	<.01	<3	.52	.01	.16	3	241.4
RRE 3082	<1	54	4535	7497	13.4	7	8	90	3.78	464	<8	<2	2	37	73.0	16	7	4	.12	.036	2	6	.04	41	<.01	3	.48	.01	.15	4	233.2
3083	2	49	1989	4125	6.3	7	8	150	3.59	452	<8	<2	<2	61	32.9	13	3	4	.18	.055	1	8	.03	37	<.01	<3	.46	.01	.17	<2	170.5
3084	<1	49	1586	2875	5.4	6	8	190	2.56	289	<8	<2	<2	61	19.4	14	<3	5	.22	.064	1	3	.05	48	<.01	<3	.49	.01	.17	<2	320.1
3085	3	48	2944	5529	7.7	7	8	153	2.86	365	<8	<2	<2	56	53.5	19	<3	5	.18	.057	2	7	.04	43	<.01	<3	.47	.01	.18	2	102.6
3086	3	141	1112	1570	7.9	7	9	43	4.18	325	<8	<2	<2	33	13.0	48	5	3	.04	.019	<1	5	.01	28	<.01	<3	.22	.01	.06	<2	86.3
3087	3	1131	921	1240	17.6	11	9	59	4.87	582	<8	<2	<2	27	11.0	240	64	4	.07	.043	<1	8	.01	22	<.01	<3	.33	.01	.12	<2	181.1
3088	1	161	540	1526	3.5	8	10	25	4.65	194	<8	<2	<2	18	16.9	21	<3	2	.02	.013	1	5	<.01	22	<.01	<3	.20	.01	.05	<2	120.3
3089	2	118	98	16	2.7	10	9	16	5.47	220	<8	<2	<2	19	<.2	19	14	2	.01	.004	<1	9	<.01	22	<.01	3	.14	.01	.01	<2	121.7
STANDARD C3/DS2	28	67	34	167	5.6	41	12	815	3.54	62	19	2	22	31	24.4	17	23	79	.59	.099	18	175	.64	158	.09	19	1.84	.04	.18	16	205.0
STANDARD G-2	1	4	5	43	<.3	9	4	549	2.10	<2	<8	<2	4	82	<.2	<3	<3	39	.67	.106	7	78	.62	254	.13	3	1.02	.11	.52	<2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ____

ACME ANALYTICAL

Equity Engineering Ltd. PROJECT Thorn FILE # A003548

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3090	2	764	174	154	10.7	7	8	23	6.11	386	<8	<2	<2	21	2.2	154	77	2	.01	.005	<1	6	<.01	18	<.01	<3	.12	.01	.01	4	187.8
3091	3	1671	196	626	32.6	10	9	21	5.99	641	<8	<2	<2	25	6.5	338	21	2	.01	.008	1	7	<.01	22	<.01	<3	.13	.01	.01	<2	401.9
3092	2	96	2682	4762	9.1	10	10	80	4.03	412	<8	<2	2	103	36.6	15	6	5	.18	.050	1	5	.02	30	<.01	7	.46	.01	.18	3	120.3
3093	5	69	359	545	5.4	11	8	45	4.52	287	<8	<2	<2	41	5.7	11	6	4	.09	.038	<1	9	.01	32	<.01	<3	.22	.01	.04	<2	108.5
3094	2	152	2036	2914	9.2	9	9	95	4.14	383	<8	<2	<2	99	23.2	29	<3	5	.21	.062	1	1	.02	31	<.01	<3	.48	.02	.19	<2	80.7
RE 3094	3	146	2053	2858	9.2	9	9	92	4.10	378	<8	<2	2	96	22.9	27	3	5	.21	.061	1	4	.02	30	<.01	4	.46	.02	.18	<2	73.3

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME A[illegible]YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604[illegible]3-1716
(I[illegible] 9002 Accredited Co.)

ASSAY CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003548R
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Au** gm/mt
3061	1.95

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: CORE PULP

DATE RECEIVED: OCT 3 2000 DATE REPORT MAILED: Oct 6/00 SIGNED BY............D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ____ FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604[illegible]3-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003556 Page 1

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3095	2	75	111	108	3.4	8	9	24	4.17	243	<8	<2	<2	33	1.1	28	6	3	.04	.015	1	5	<.01	12	<.01	<3	.19	.01	.02	<2	155.3
3096	3	41	94	320	1.9	9	11	19	4.49	170	<8	<2	<2	39	3.1	8	3	2	.03	.018	<1	4	<.01	26	<.01	<3	.16	.01	.01	<2	129.4
3097	2	39	127	168	1.5	14	14	22	5.44	240	<8	<2	<2	41	1.6	6	7	3	.02	.014	1	6	<.01	16	<.01	6	.18	.01	.01	3	117.3
3098	4	206	204	102	5.1	15	14	28	5.37	267	<8	<2	2	60	1.0	45	13	4	.04	.023	1	7	<.01	35	<.01	3	.22	.01	.01	2	92.8
3099	2	95	226	122	3.5	14	13	27	5.32	258	<8	<2	<2	56	.9	23	8	3	.04	.024	1	4	<.01	30	<.01	<3	.18	.01	.02	2	87.7
3100	4	116	234	77	4.1	14	13	23	5.92	288	<8	<2	<2	52	.6	28	9	2	.03	.026	1	7	<.01	24	<.01	<3	.19	.01	.01	2	87.5
3101	3	49	104	28	2.1	10	7	15	4.04	159	<8	<2	<2	32	.2	6	10	3	.01	.006	<1	2	<.01	11	<.01	4	.18	.01	.01	<2	84.2
3102	4	99	152	115	4.9	9	9	21	5.89	278	<8	<2	<2	41	1.0	6	6	2	.01	.005	<1	9	<.01	21	<.01	3	.17	.01	.01	3	204.1
3103	4	93	96	149	5.4	11	8	17	4.33	132	<8	<2	<2	29	1.5	7	13	2	.01	.004	<1	4	<.01	10	<.01	<3	.17	.01	.01	3	57.8
3104	5	64	76	115	1.2	11	9	20	4.64	121	<8	<2	<2	32	1.0	4	4	3	.01	.005	<1	8	<.01	25	<.01	3	.25	.01	.02	2	44.7
RE 3104	5	65	76	114	1.0	12	9	21	4.68	122	<8	<2	<2	34	.8	5	4	3	.01	.005	<1	9	<.01	25	<.01	<3	.25	.02	.02	2	45.0
RRE 3104	3	67	73	130	1.2	11	9	21	4.53	119	<8	<2	<2	33	1.1	5	5	3	.01	.005	1	7	<.01	26	<.01	<3	.24	.02	.02	2	40.9
3105	5	277	93	64	6.4	4	4	17	3.01	162	<8	<2	<2	52	1.2	56	6	1	.01	.006	<1	11	<.01	37	<.01	<3	.16	.01	.01	2	86.4
3106	4	65	133	832	2.5	6	4	20	2.87	63	<8	<2	<2	64	8.8	6	6	2	.01	.007	<1	6	<.01	14	<.01	<3	.15	.01	.01	<2	63.9
3107	4	55	133	179	1.0	21	17	23	5.29	173	<8	<2	<2	99	1.9	<3	4	4	.02	.013	1	9	<.01	23	<.01	3	.24	.01	.01	4	74.1
3108	3	1212	573	530	12.6	24	22	38	7.87	621	<8	<2	<2	40	7.6	234	12	3	.06	.022	<1	6	<.01	7	<.01	<3	.19	.01	.01	<2	285.9
3109	5	124	5132	10143	10.2	19	24	67	7.41	92	<8	<2	<2	45	119.1	20	35	2	.10	.043	<1	13	<.01	18	<.01	<3	.17	.01	.01	3	319.1
3110	3	32	1644	3670	3.3	11	10	41	5.05	125	<8	<2	<2	42	40.1	4	9	3	.06	.022	<1	7	<.01	23	<.01	5	.19	.01	.01	2	110.5
3111	4	37	227	190	3.1	8	8	40	4.21	159	<8	<2	<2	40	2.2	6	8	2	.07	.023	<1	7	<.01	29	<.01	<3	.17	.01	.01	3	64.2
3112	8	27	131	263	2.2	8	7	28	4.26	87	<8	<2	<2	41	2.7	3	8	2	.05	.012	<1	4	.01	9	<.01	<3	.17	.01	.01	<2	45.1
3113	10	59	192	100	2.4	9	8	33	4.62	100	<8	<2	<2	43	1.1	13	11	2	.06	.016	<1	8	<.01	15	<.01	3	.18	.01	.01	2	44.2
3114	3	410	344	805	18.2	9	8	74	4.62	236	9	<2	2	46	8.0	104	10	2	.12	.030	1	3	.01	29	<.01	<3	.19	.01	.02	<2	98.0
3115	4	147	1561	2842	10.1	9	8	67	3.99	173	<8	<2	<2	172	20.2	32	3	3	.15	.026	<1	5	.02	51	<.01	3	.48	.03	.18	<2	76.3
3116	2	54	1415	3348	4.5	9	7	82	2.88	162	<8	<2	<2	132	22.4	12	<3	4	.17	.035	1	5	.03	55	<.01	3	.53	.03	.19	<2	55.1
RE 3116	2	55	1457	3395	4.6	9	7	85	2.95	164	<8	<2	<2	134	22.7	13	3	4	.18	.037	<1	3	.03	54	<.01	4	.53	.03	.20	<2	54.1
RRE 3116	1	53	1379	3219	4.1	9	7	82	2.91	160	<8	<2	<2	130	21.5	11	<3	3	.17	.036	1	4	.03	52	<.01	<3	.50	.03	.18	2	54.0
3117	2	57	1452	3253	5.5	9	8	65	3.30	157	<8	<2	<2	154	22.0	12	6	4	.15	.029	<1	2	.02	46	<.01	3	.43	.03	.15	<2	52.3
3118	2	23	332	1564	2.0	10	8	54	2.84	230	<8	<2	2	124	10.2	3	3	4	.14	.018	1	6	.02	47	<.01	5	.45	.03	.17	<2	89.6
3119	1	10	215	495	.6	7	7	73	2.04	122	8	<2	<2	131	3.4	3	<3	4	.16	.034	1	4	.03	65	<.01	<3	.47	.03	.18	<2	35.3
3120	1	9	256	439	.6	8	7	73	2.09	122	<8	<2	<2	138	3.0	3	<3	4	.16	.034	1	5	.03	66	<.01	<3	.46	.03	.17	<2	38.2
3121	2	16	573	650	2.3	9	7	69	3.17	146	<8	<2	2	117	4.4	<3	4	4	.12	.019	<1	4	.02	55	<.01	6	.49	.04	.20	<2	65.6
3122	6	23	95	343	1.9	9	9	22	5.25	180	<8	<2	<2	53	2.7	3	9	2	.04	.005	<1	5	.01	26	<.01	3	.20	.01	.02	<2	103.4
3123	3	74	300	216	4.7	10	8	30	4.24	217	<8	<2	<2	70	1.6	17	8	4	.07	.008	<1	3	.01	30	<.01	<3	.27	.02	.07	<2	89.3
STANDARD C3/DS2	26	64	33	174	5.3	39	11	770	3.38	56	20	<2	21	29	23.4	16	21	74	.56	.095	17	159	.61	152	.08	21	1.84	.05	.17	17	202.3
STANDARD G-2	2	5	<3	43	<.3	9	4	549	2.13	<2	<8	<2	3	90	<.2	<3	<3	40	.75	.106	7	80	.63	301	.13	<3	1.38	.22	.64	<2	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 26/00 **SIGNED BY** C. L[signature]....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3124	3	60	2791	3045	6.0	10	8	123	3.26	163	<8	<2	2	119	25.1	14	3	3	.16	.031	1	6	.02	49	<.01	3	.38	.03	.16	2	63.5
3125	3	133	2091	3903	6.8	7	7	41	3.25	173	<8	<2	2	84	34.3	33	3	4	.19	.050	1	4	.02	52	<.01	4	.42	.04	.17	3	74.9
3126	3	109	442	1154	4.3	6	8	2549	3.82	184	<8	<2	2	88	9.3	21	7	9	1.69	.074	4	6	.38	50	<.01	<3	.57	.04	.10	<2	244.6
3127	4	29	100	124	.8	3	7	3848	2.40	189	13	<2	3	128	.7	7	<3	14	2.56	.086	13	6	.72	261	.01	7	1.55	.08	.40	4	22.2
3128	4	35	101	110	.6	3	7	3193	2.63	177	<8	<2	3	160	.8	7	3	14	2.79	.091	14	4	.53	243	.01	3	1.50	.11	.36	<2	12.8
3129	3	48	84	114	.7	3	8	3040	2.34	164	9	<2	3	137	.9	11	<3	12	2.60	.087	13	3	.65	193	<.01	<3	1.21	.11	.29	3	9.7
3130	3	8	208	591	.6	3	6	4800	3.01	158	12	<2	5	169	5.1	<3	<3	18	3.85	.081	15	5	1.02	414	.01	9	2.16	.09	.52	<2	35.8
3131	4	7	119	114	.3	4	7	4627	2.97	185	9	<2	3	185	.4	<3	<3	21	3.48	.085	13	8	.92	418	.01	7	2.23	.12	.49	2	37.0
3132	4	12	58	68	.3	5	8	3809	2.57	145	8	<2	4	222	.3	<3	<3	20	4.29	.083	15	10	.60	358	.01	7	1.96	.15	.40	2	12.0
3133	2	8	66	59	<.3	6	10	3493	3.09	202	<8	<2	3	223	.2	3	<3	17	4.66	.089	17	8	.48	282	.01	5	1.73	.14	.36	2	12.5
3134	2	99	46	84	1.2	5	9	4059	2.57	187	11	<2	4	214	.6	22	<3	20	3.73	.092	14	4	.77	321	.01	8	1.90	.14	.36	2	27.7
RE 3134	2	92	44	80	1.3	5	9	3926	2.46	180	<8	<2	4	204	.5	21	<3	19	3.62	.089	14	8	.74	293	.01	7	1.80	.13	.34	<2	22.2
RRE 3134	3	97	50	82	1.4	5	8	3955	2.42	177	<8	<2	4	203	.6	21	<3	18	3.43	.089	14	6	.74	280	.01	10	1.73	.12	.33	4	26.1
3135	5	5	73	75	.5	4	7	4270	2.57	213	<8	<2	3	171	.2	<3	<3	13	3.02	.082	12	8	.80	259	.01	14	1.47	.09	.35	2	38.8
3136	3	2	50	55	.4	3	7	4085	2.45	160	<8	<2	4	174	.2	<3	<3	12	3.08	.083	12	5	.86	229	.01	9	1.46	.11	.33	2	13.6
3137	3	8	58	45	<.3	4	8	2994	2.44	184	<8	<2	3	216	.3	<3	<3	13	4.17	.090	16	2	.44	228	.01	4	1.41	.14	.28	2	11.5
3138	2	56	61	62	.7	4	6	2784	2.02	162	<8	<2	3	218	.5	11	3	10	3.93	.084	16	2	.39	191	<.01	<3	1.21	.13	.24	<2	13.6
3139	4	5	86	200	.3	3	7	3993	2.61	164	8	<2	4	198	1.3	<3	<3	16	3.54	.083	13	7	.86	382	.01	8	2.15	.14	.48	5	16.8
3140	2	6	86	122	.4	4	7	3528	2.55	173	15	<2	4	182	.6	<3	<3	13	3.32	.084	12	6	.77	282	.01	9	1.78	.13	.38	3	17.3
3141	3	6	75	118	.3	5	8	3383	2.65	191	<8	<2	4	190	.6	<3	<3	18	3.68	.089	14	5	.55	363	.01	3	1.80	.14	.41	3	74.9
3142	3	4	38	62	<.3	4	8	2907	2.44	134	<8	<2	4	213	<.2	<3	<3	14	4.37	.086	14	5	.46	222	<.01	3	1.31	.13	.26	<2	8.2
3143	3	21	38	66	<.3	3	7	2626	2.15	92	<8	<2	4	227	.2	4	<3	11	4.62	.088	13	3	.51	169	<.01	3	1.11	.11	.18	2	4.5
3144	16	6	36	51	<.3	4	7	2179	2.46	134	<8	<2	3	193	.2	<3	3	12	3.90	.087	14	7	.38	189	<.01	<3	1.20	.13	.25	<2	5.9
3145	12	8	39	52	<.3	4	7	2306	2.51	131	12	<2	3	196	<.2	<3	3	13	4.01	.086	12	8	.38	192	<.01	5	1.22	.13	.25	<2	5.9
3146	48	11	50	96	<.3	3	6	3848	2.48	104	<8	<2	3	202	.5	<3	<3	11	4.38	.082	13	2	.60	208	.01	<3	1.21	.10	.31	2	13.4
RE 3146	48	12	44	92	<.3	3	6	3799	2.44	100	<8	<2	3	200	.5	<3	<3	11	4.32	.080	13	4	.59	213	.01	3	1.25	.10	.31	2	11.5
RRE 3146	47	11	41	91	<.3	3	6	3748	2.47	103	<8	<2	4	206	.6	<3	<3	12	4.27	.080	13	6	.59	229	.01	3	1.29	.10	.32	3	13.3
3147	13	16	37	76	.3	4	7	3014	2.53	98	<8	<2	4	167	.4	<3	3	13	3.26	.083	11	4	.63	249	.01	4	1.49	.11	.33	2	7.0
3148	10	26	41	83	<.3	4	7	3004	2.63	138	<8	<2	3	178	.3	3	3	13	3.87	.083	13	3	.44	230	.01	<3	1.34	.10	.31	2	25.8
3149	10	41	36	74	.3	4	7	2591	2.50	148	8	<2	5	161	.3	8	<3	11	3.84	.082	13	7	.39	201	<.01	3	1.18	.10	.28	2	12.1
3150	3	670	395	2484	5.0	3	6	47	4.18	256	<8	<2	<2	27	23.7	42	7	3	.06	.011	<1	9	.01	33	<.01	<3	.19	.01	.05	2	85.1
3151	1	243	89	149	10.3	4	7	37	4.25	128	<8	<2	<2	29	2.0	67	28	2	.05	.008	<1	8	.01	31	<.01	<3	.16	.01	.02	4	76.3
3152	4	133	65	28	1.4	4	6	38	3.17	86	<8	<2	<2	45	.3	26	8	1	.08	.029	<1	12	.01	52	<.01	<3	.19	.01	.02	4	37.6
3153	3	905	62	61	4.6	5	9	48	4.22	344	<8	<2	<2	41	.6	192	5	2	.15	.055	<1	9	.01	39	<.01	<3	.18	.01	.02	4	81.5
STANDARD C3/DS2	28	63	36	168	5.3	39	12	779	3.37	62	20	<2	20	28	23.5	16	22	74	.57	.095	18	164	.62	147	.08	20	1.74	.04	.17	17	211.6
STANDARD G-2	2	2	<3	41	<.3	8	4	519	2.01	<2	<8	<2	4	86	<.2	<3	<3	38	.66	.101	7	73	.58	238	.13	<3	1.06	.13	.52	2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3154	5	646	83	84	4.7	6	8	46	5.27	295	<8	<2	<2	32	.6	111	11	3	.14	.046	<1	13	.01	25	<.01	3	.28	.01	.03	4	153.3
3155	1	154	93	32	2.0	5	9	52	4.00	161	<8	<2	<2	36	.3	31	8	3	.14	.048	<1	10	.01	19	<.01	8	.22	.01	.04	3	42.1
3156	1	112	127	54	4.9	4	8	43	3.98	158	<8	<2	<2	37	1.0	25	3	2	.14	.046	<1	10	.01	18	<.01	6	.20	.01	.04	3	41.0
3157	1	88	1649	2914	6.2	4	8	78	3.63	76	<8	<2	2	47	23.5	18	<3	5	.27	.080	1	7	.04	23	<.01	4	.53	.02	.25	<2	22.9
3158	1	42	131	437	.3	54	27	5036	6.76	41	<8	<2	<2	151	2.7	6	<3	162	4.08	.300	33	69	2.94	565	.23	<3	2.90	.09	.08	<2	5.7
3159	2	42	18	169	<.3	74	25	4555	5.82	35	<8	<2	<2	113	.8	5	<3	140	3.09	.243	29	108	3.07	551	.15	<3	2.84	.08	.05	3	4.4
3160	1	59	38	210	.5	69	24	4666	5.65	32	<8	<2	2	127	1.1	3	<3	134	3.21	.231	29	104	3.05	391	.14	<3	2.85	.07	.07	<2	4.8
3161	1	51	36	259	<.3	70	25	5088	5.94	34	<8	<2	<2	105	1.1	8	<3	137	2.65	.246	32	97	3.37	558	.33	<3	2.60	.08	.04	<2	2.9
3162	2	41	12	153	<.3	77	33	3605	7.29	18	<8	<2	<2	104	.8	6	<3	155	2.25	.202	39	86	3.74	191	.27	<3	2.60	.06	.07	2	1.2
3163	2	37	16	140	<.3	63	28	2428	6.55	14	<8	<2	<2	89	.9	6	<3	146	2.06	.184	39	70	3.07	82	.37	<3	2.13	.07	.07	3	1.3
3164	2	40	32	183	<.3	63	29	2550	6.79	20	<8	<2	<2	93	1.2	7	<3	157	2.02	.179	40	69	2.94	159	.42	<3	2.28	.07	.10	4	.8
3165	1	43	55	208	.3	69	29	3485	6.89	20	<8	<2	<2	94	1.3	5	<3	157	2.07	.171	38	83	3.07	151	.41	<3	2.41	.08	.08	<2	2.8
3166	4	27	560	577	1.2	13	14	2448	3.62	55	<8	<2	6	83	6.4	<3	<3	31	.62	.091	21	13	.84	83	.07	3	1.52	.09	.30	<2	11.4
RE 3166	4	26	533	536	1.1	12	13	2334	3.48	54	<8	<2	6	79	6.1	<3	<3	29	.60	.089	20	10	.81	90	.07	6	1.44	.08	.29	<2	9.6
RRE 3166	3	28	577	620	1.3	13	13	2421	3.52	53	<8	<2	5	80	7.1	<3	<3	30	.61	.089	19	13	.83	82	.07	4	1.49	.09	.30	<2	11.7
3167	1	50	135	454	.5	74	25	6492	5.84	44	<8	<2	<2	91	1.9	5	<3	143	2.54	.217	35	114	3.34	42	.38	<3	2.96	.09	.03	<2	9.5
3168	1	11	120	162	.5	6	6	1713	2.82	42	<8	<2	5	54	.9	3	<3	7	.72	.083	12	4	.17	41	<.01	<3	.75	.04	.29	4	3.6
3169	1	10	90	101	.4	7	6	4326	2.66	26	<8	<2	5	64	.5	<3	<3	9	1.17	.085	13	11	.32	37	<.01	4	.92	.04	.35	3	2.8
3170	1	11	71	109	.4	8	6	3092	2.50	28	<8	<2	6	64	.6	<3	<3	8	.84	.088	13	8	.25	73	<.01	4	.83	.04	.32	3	2.7
3171	2	10	195	293	.9	8	8	2584	3.12	37	<8	<2	6	57	1.6	<3	<3	7	.43	.090	15	7	.17	35	<.01	3	.77	.03	.33	2	6.3
3172	1	25	187	251	.7	7	7	5056	2.51	34	<8	<2	6	72	2.0	6	<3	12	1.64	.078	14	8	.56	72	<.01	<3	1.06	.05	.34	<2	3.6
3173	2	10	76	164	.5	7	7	4596	2.67	37	<8	<2	6	75	.8	<3	<3	11	1.52	.083	15	9	.56	61	<.01	5	1.04	.05	.32	<2	2.3
3174	2	15	186	321	.5	12	9	4322	3.42	38	<8	<2	6	80	2.6	<3	<3	36	1.44	.107	20	12	1.05	91	.12	3	1.52	.08	.29	<2	4.8
3175	2	35	15	187	<.3	32	25	5126	6.72	16	<8	<2	<2	90	1.0	7	<3	154	3.22	.210	40	40	2.64	108	.31	<3	2.10	.06	.07	<2	.9
3176	2	35	17	134	<.3	43	27	3610	6.90	12	<8	<2	<2	111	.8	5	<3	144	3.12	.225	41	42	3.03	146	.27	<3	2.28	.06	.07	2	.6
3177	2	37	26	158	<.3	64	33	3210	7.55	12	<8	<2	<2	135	1.0	4	<3	177	4.04	.179	39	70	3.71	81	.30	<3	2.58	.07	.05	3	.9
3178	1	35	32	161	<.3	52	29	3253	7.22	14	<8	<2	<2	142	1.1	5	<3	169	4.61	.181	41	58	3.29	481	.30	<3	2.37	.07	.04	3	1.3
RE 3178	1	33	36	161	<.3	53	30	3262	7.22	11	<8	<2	<2	143	1.1	3	<3	170	4.61	.180	41	59	3.29	492	.30	<3	2.37	.07	.04	2	2.2
RRE 3178	1	33	34	156	<.3	51	29	3175	7.09	13	<8	<2	<2	141	1.1	3	<3	166	4.52	.179	41	56	3.25	514	.29	<3	2.34	.06	.04	2	2.0
3179	1	34	27	131	<.3	34	25	2485	6.69	8	<8	<2	<2	129	.9	5	<3	154	4.25	.180	42	44	2.81	312	.31	<3	2.14	.06	.09	2	1.1
3180	1	34	27	134	<.3	34	25	2571	6.78	10	<8	<2	<2	129	.7	5	<3	155	4.16	.184	42	43	2.86	394	.29	<3	2.17	.06	.09	3	.2
3181	2	32	26	123	<.3	41	25	2326	6.55	8	<8	<2	<2	158	.9	3	<3	148	5.17	.169	39	49	2.67	641	.31	<3	2.15	.06	.10	2	1.4
3182	2	34	16	116	<.3	44	26	2272	6.74	7	<8	<2	<2	150	.7	3	<3	151	4.92	.175	40	55	2.92	531	.28	<3	2.19	.05	.09	3	1.0
3183	1	34	30	141	<.3	56	29	2826	7.04	12	<8	<2	<2	144	.9	4	<3	150	3.65	.191	39	73	3.65	662	.27	<3	2.44	.06	.07	2	1.2
STANDARD C3/DS2	27	68	38	165	5.4	41	12	802	3.51	57	22	<2	22	31	23.9	15	24	81	.60	.097	19	176	.64	154	.09	25	1.82	.04	.18	18	192.1
STANDARD G-2	2	4	5	43	<.3	9	4	560	2.18	<2	<8	<2	4	78	<.2	<3	<3	41	.69	.107	8	83	.63	243	.14	4	.99	.08	.50	3	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

 Data___ FA ____

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ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3184	1	29	23	130	<.3	42	23	3053	5.89	17	<8	<2	<2	119	.5	5	<3	133	3.21	.154	34	52	2.75	206	.25	<3	2.16	.07	.09	<2	1.5
3185	1	32	11	117	<.3	47	28	4169	6.61	14	<8	<2	<2	122	.6	4	<3	154	3.85	.170	29	52	3.12	96	.21	<3	2.46	.06	.07	<2	2.3
3186	1	9	133	133	.4	5	6	2824	2.92	41	<8	<2	4	80	.5	<3	<3	9	1.73	.081	14	5	.22	45	<.01	<3	.72	.03	.25	2	7.2
3187	1	30	346	633	1.2	7	6	385	3.03	45	<8	<2	4	79	4.3	7	<3	4	.47	.084	6	4	.07	28	<.01	<3	.57	.03	.22	<2	7.1
3188	2	42	515	815	2.1	6	6	270	3.50	97	<8	<2	4	85	4.5	7	8	4	.39	.086	10	4	.05	22	<.01	<3	.58	.03	.22	<2	27.4
3189	1	37	484	812	2.0	6	6	1536	2.88	48	<8	<2	3	107	5.2	8	3	4	1.16	.078	5	4	.06	27	<.01	<3	.53	.03	.20	<2	12.6
3190	1	22	292	476	1.0	7	5	74	2.99	43	<8	<2	3	93	2.7	4	<3	3	.32	.078	3	4	.04	24	<.01	5	.57	.03	.20	<2	10.0
3191	<1	16	131	262	.4	6	6	2082	2.74	32	<8	<2	4	143	1.8	<3	<3	4	2.16	.075	11	2	.08	33	<.01	<3	.65	.04	.21	<2	7.9
3192	1	7	65	71	<.3	4	5	2889	2.30	12	<8	<2	3	850	<.2	<3	<3	4	3.50	.074	14	5	.11	50	<.01	<3	.65	.05	.17	2	1.6
3193	<1	8	50	80	<.3	4	5	2863	2.30	23	12	<2	3	1920	.2	<3	<3	6	4.07	.074	15	2	.16	59	<.01	<3	.72	.06	.17	<2	3.6
3194	1	12	66	98	.3	6	6	2424	2.46	24	14	<2	4	1806	.3	<3	<3	5	2.97	.074	14	7	.15	59	<.01	<3	.63	.06	.17	2	3.8
RE 3194	1	13	68	100	<.3	6	6	2433	2.45	23	13	<2	3	1808	.3	<3	<3	4	2.99	.075	14	6	.15	54	<.01	<3	.63	.05	.17	2	3.4
RRE 3194	<1	13	71	111	<.3	6	6	2505	2.51	25	11	<2	3	1869	.3	<3	<3	4	3.07	.077	14	3	.15	59	<.01	<3	.67	.06	.19	2	3.8
3195	1	9	81	92	<.3	6	6	2087	2.56	11	<8	<2	3	1246	.3	<3	<3	4	2.34	.078	12	4	.24	64	<.01	<3	.63	.05	.18	2	3.5
3196	<1	16	100	179	.3	5	6	2204	2.64	19	9	<2	4	1067	.6	3	<3	3	1.96	.080	12	3	.28	50	<.01	<3	.60	.05	.21	<2	4.5
3197	1	8	64	92	<.3	6	5	2486	2.35	37	8	<2	3	478	<.2	<3	<3	5	3.66	.075	13	5	.20	45	<.01	<3	.57	.05	.17	2	2.5
3198	<1	6	88	135	<.3	6	5	2466	2.44	21	<8	<2	3	360	.4	<3	<3	5	3.62	.076	12	4	.33	32	<.01	<3	.57	.05	.18	2	4.9
3199	1	7	40	56	<.3	6	5	2014	2.33	9	<8	<2	3	314	<.2	<3	<3	6	3.54	.074	15	5	.20	61	<.01	<3	.68	.06	.17	2	1.0
3200	<1	7	41	51	<.3	7	6	2153	2.43	8	<8	<2	4	350	<.2	<3	<3	6	3.56	.077	15	4	.21	62	<.01	<3	.59	.05	.15	<2	1.1
3201	2	10	117	237	<.3	6	5	2054	2.66	26	<8	<2	3	1029	1.0	<3	<3	4	2.05	.077	9	7	.46	43	<.01	<3	.54	.07	.19	<2	3.9
3202	1	16	92	146	.4	6	5	3946	2.37	22	12	<2	3	940	.6	<3	<3	6	2.99	.071	8	5	.23	45	<.01	<3	.57	.06	.22	3	4.3
3203	2	26	536	960	1.7	6	6	280	2.84	31	8	<2	3	1166	5.8	5	4	4	.95	.072	5	8	.03	32	<.01	<3	.53	.05	.20	<2	7.5
3204	<1	14	56	73	<.3	7	6	2641	2.66	19	<8	<2	4	879	<.2	3	<3	5	2.52	.078	11	6	.37	54	<.01	<3	.58	.05	.20	<2	6.3
3205	2	13	49	59	<.3	5	6	2714	2.43	18	<8	<2	3	695	<.2	<3	<3	6	3.69	.075	14	7	.19	59	<.01	<3	.60	.06	.18	<2	1.4
3206	1	9	74	164	<.3	6	5	2911	2.50	16	14	<2	3	1475	.7	<3	<3	6	3.29	.076	13	5	.22	55	<.01	<3	.70	.08	.18	3	3.8
RE 3206	1	9	73	162	<.3	6	5	2844	2.42	16	13	<2	3	1481	.7	<3	<3	6	3.24	.076	13	4	.22	57	<.01	<3	.70	.08	.17	3	4.3
RRE 3206	1	9	71	164	<.3	6	5	2764	2.39	18	10	<2	3	1528	.7	<3	<3	5	3.19	.074	13	5	.21	61	<.01	<3	.65	.08	.16	3	3.7
3207	<1	5	46	50	<.3	5	5	2666	2.34	10	15	<2	3	1799	.2	<3	<3	6	3.62	.073	13	4	.18	63	<.01	<3	.68	.08	.15	<2	1.1
3208	1	10	48	57	<.3	6	5	2831	2.43	10	12	<2	3	1315	<.2	<3	<3	5	3.61	.075	13	5	.24	47	<.01	<3	.68	.07	.17	<2	<.2
3209	1	11	46	49	<.3	5	6	3026	2.50	21	<8	<2	4	602	<.2	3	<3	6	3.56	.078	13	5	.25	61	<.01	<3	.64	.09	.19	<2	5.3
3210	1	10	130	94	.3	6	6	2387	2.69	17	<8	<2	3	123	.3	<3	<3	6	2.47	.077	11	6	.16	37	<.01	<3	.62	.08	.19	2	7.7
3211	1	8	292	306	.6	7	6	4678	2.79	17	<8	<2	3	71	1.5	<3	<3	5	1.52	.080	7	5	.32	35	<.01	<3	.55	.07	.23	<2	8.8
3212	2	47	795	1478	2.8	7	6	1464	3.11	34	<8	<2	3	59	10.4	7	5	6	.74	.079	4	6	.06	29	<.01	<3	.59	.05	.20	<2	25.1
3213	1	8	69	94	<.3	6	6	6048	2.41	9	<8	<2	4	148	<.2	3	<3	7	4.21	.074	10	7	.17	58	<.01	<3	.54	.07	.19	2	3.2
STANDARD C3/DS2	26	64	35	169	5.2	40	12	772	3.40	58	21	<2	21	32	23.0	16	24	77	.60	.093	19	171	.62	150	.08	22	1.82	.04	.18	16	216.1
STANDARD G-2	2	4	3	42	<.3	8	4	516	2.01	<2	<8	<2	3	71	<.2	<3	<3	39	.65	.097	8	74	.59	213	.12	3	.93	.08	.46	<2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3214	1	14	264	439	.9	5	5	3971	2.44	16	<8	<2	4	150	3.3	3	<3	5	2.06	.072	5	6	.15	70	<.01	5	.49	.07	.19	<2	6.6
3215	<1	8	189	332	.6	6	6	1056	2.63	24	<8	<2	3	125	2.1	<3	<3	4	.51	.077	3	5	.06	54	<.01	5	.44	.07	.19	<2	8.1
3216	1	22	463	932	1.5	5	6	103	2.87	22	<8	<2	4	195	5.7	5	3	4	.26	.077	6	6	.02	50	<.01	6	.44	.07	.19	<2	10.8
3217	1	52	926	1487	5.7	4	6	43	3.14	42	<8	<2	2	95	9.5	11	10	4	.24	.080	1	6	.01	42	<.01	7	.36	.06	.11	<2	31.6
3218	1	20	1209	2906	2.4	4	5	1579	2.85	182	<8	<2	4	68	20.1	<3	3	4	.66	.081	10	6	.13	63	<.01	4	.47	.07	.22	2	108.9
3219	1	8	349	1491	1.0	6	6	6383	2.55	183	<8	<2	4	77	8.3	3	<3	9	1.98	.076	11	6	.59	78	<.01	<3	.47	.08	.20	<2	34.4
3220	1	15	885	3719	2.1	6	5	6676	2.61	199	<8	<2	6	75	23.2	3	<3	8	1.96	.077	13	8	.57	81	<.01	3	.51	.07	.21	<2	51.4
3221	1	8	389	1195	.8	7	6	6479	2.70	206	<8	<2	4	72	8.8	<3	<3	9	1.53	.079	11	6	.38	75	<.01	<3	.45	.07	.21	<2	50.8
3222	1	11	387	727	.6	6	6	7531	2.48	246	<8	<2	4	92	3.6	<3	<3	10	2.14	.077	13	7	.62	77	<.01	<3	.48	.08	.21	<2	23.0
3223	1	12	684	975	1.5	7	6	2847	2.67	194	<8	<2	4	59	6.6	<3	3	6	.72	.086	10	5	.14	74	<.01	3	.46	.07	.22	<2	40.1
3224	1	21	56	63	.8	7	6	5216	2.25	136	<8	<2	4	66	.4	4	<3	10	2.21	.080	15	9	.71	84	<.01	<3	.48	.07	.21	<2	7.7
3225	1	18	134	172	.7	5	5	4376	2.69	75	<8	<2	5	77	1.3	3	<3	7	2.52	.077	17	9	.81	81	<.01	4	.42	.08	.20	3	2.5
3226	1	10	491	814	.7	5	5	3131	3.05	72	<8	<2	5	81	6.0	<3	<3	6	2.17	.079	13	7	.62	80	<.01	4	.47	.08	.21	<2	5.5
RE 3226	1	11	477	842	.6	5	5	3130	3.03	73	<8	<2	5	81	6.2	<3	3	6	2.16	.079	13	8	.62	79	<.01	5	.46	.08	.20	<2	4.9
RRE 3226	1	11	477	848	.6	5	5	3174	3.05	72	<8	<2	5	83	6.3	<3	<3	6	2.19	.080	13	5	.62	83	<.01	3	.48	.08	.21	<2	3.5
3227	<1	6	26	40	<.3	5	6	4238	2.47	115	<8	<2	4	180	<.2	<3	<3	9	4.06	.081	14	5	.37	92	<.01	3	.78	.11	.19	<2	8.5
3228	<1	8	24	50	<.3	6	6	3400	2.20	231	<8	<2	4	171	.2	<3	<3	8	4.03	.078	13	5	.34	102	<.01	6	.82	.10	.20	<2	11.4
3229	1	18	38	112	<.3	6	6	3698	2.30	248	<8	<2	4	180	.5	<3	<3	8	3.82	.078	14	6	.29	95	<.01	4	.77	.10	.21	2	9.7
3230	<1	15	605	1144	.8	5	6	4455	2.62	153	<8	<2	4	86	6.9	3	<3	8	2.24	.082	12	9	.57	77	<.01	6	.46	.08	.21	<2	14.1
3231	<1	14	895	1601	1.3	7	6	3264	2.61	157	9	<2	4	77	11.3	<3	<3	7	1.53	.083	9	6	.40	68	<.01	<3	.45	.07	.21	<2	90.1
3232	1	7	72	149	<.3	5	5	5230	2.18	150	<8	<2	4	96	.7	3	<3	11	2.61	.075	14	9	.81	80	<.01	3	.43	.07	.20	2	8.4
3233	<1	7	44	35	<.3	5	6	4573	2.30	156	<8	<2	4	102	.2	<3	<3	11	2.91	.079	15	6	.56	82	<.01	<3	.46	.08	.19	<2	9.2
3234	1	20	110	105	.4	4	5	5242	2.34	183	<8	<2	4	92	.6	3	<3	11	2.60	.077	14	6	.59	84	<.01	<3	.53	.08	.20	2	9.3
3235	<1	5	31	63	<.3	5	5	3865	2.39	167	<8	<2	4	117	.3	<3	<3	9	2.86	.077	14	6	.73	83	<.01	3	.54	.09	.17	<2	11.5
3236	1	6	78	115	<.3	4	5	3489	2.38	176	<8	<2	3	155	.5	<3	<3	9	3.38	.076	13	6	.45	117	<.01	<3	.98	.10	.24	2	10.1
3237	1	22	489	866	.9	5	6	4159	2.39	174	<8	<2	4	106	5.5	<3	<3	8	2.33	.078	12	6	.24	82	<.01	3	.57	.08	.20	<2	11.1
3238	1	40	6828	7926	7.0	5	6	2282	2.28	119	<8	<2	3	61	81.5	8	<3	6	.88	.082	6	3	.18	48	<.01	<3	.38	.07	.12	2	19.9
RE 3238	1	47	7169	8450	8.0	5	6	2382	2.49	135	<8	<2	3	62	86.6	9	<3	6	.90	.080	6	4	.19	47	<.01	<3	.37	.08	.12	<2	24.4
RRE 3238	1	45	6982	8392	7.6	5	6	2294	2.46	135	<8	<2	3	61	85.7	9	<3	5	.87	.077	5	3	.18	46	<.01	<3	.37	.07	.12	<2	20.5
3239	1	97	2476	5333	5.3	5	6	4806	2.45	153	<8	<2	4	59	47.2	6	<3	6	1.24	.079	11	4	.29	78	<.01	<3	.54	.06	.21	<2	39.8
3240	1	46	1725	2821	3.6	6	6	5015	2.39	149	<8	<2	5	56	21.0	4	<3	5	1.16	.082	13	5	.29	83	<.01	<3	.58	.07	.21	<2	29.4
3241	<1	6	85	236	.3	5	5	7309	2.30	139	<8	<2	4	92	1.3	<3	<3	11	2.61	.078	13	2	.71	78	<.01	<3	.50	.07	.19	<2	16.4
3242	1	8	175	190	.4	4	5	5038	2.46	208	<8	<2	4	80	1.0	<3	<3	10	2.26	.079	14	7	.65	83	<.01	<3	.49	.09	.19	<2	13.2
3243	<1	6	84	146	<.3	5	6	3994	2.44	179	<8	<2	4	106	.7	<3	<3	8	2.98	.080	15	5	.46	88	<.01	<3	.53	.09	.19	3	7.8
STANDARD C3/DS2	25	64	36	169	5.6	39	12	785	3.42	60	22	<2	20	30	23.6	15	22	75	.57	.097	18	161	.61	154	.09	26	1.76	.04	.17	16	210.0
STANDARD G-2	1	5	<3	42	<.3	9	4	520	1.99	<2	<8	<2	3	81	<.2	<3	<3	37	.65	.103	7	73	.60	236	.11	3	1.01	.12	.52	<2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

Equity Engineering Ltd. PROJECT Thorn FILE # A003556 Page 6

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3244	2	15	528	1674	.6	5	5	3869	2.40	182	<8	<2	4	169	8.1	<3	<3	8	3.64	.076	13	8	.38	76	<.01	<3	.63	.09	.15	<2	14.2
3245	2	7	123	188	<.3	5	6	7267	2.50	225	<8	<2	3	118	1.1	<3	<3	8	2.92	.079	12	7	.55	50	<.01	<3	.54	.07	.17	4	12.4
3246	2	8	18	39	<.3	5	5	5010	2.34	163	<8	<2	4	85	.2	<3	<3	11	2.63	.078	14	6	.81	66	<.01	<3	.43	.08	.16	2	5.3
3247	1	31	655	615	.8	4	6	3776	2.74	170	<8	<2	4	76	4.6	4	<3	7	1.97	.077	10	6	.63	65	<.01	3	.40	.07	.18	<2	28.1
3248	2	5	231	448	<.3	4	6	5847	2.43	151	<8	<2	4	100	3.2	<3	<3	11	2.68	.079	14	7	.85	72	<.01	<3	.42	.07	.18	<2	13.5
3249	2	4	20	103	<.3	5	5	4911	2.41	160	<8	<2	4	101	.6	<3	<3	11	2.63	.079	15	7	.83	77	<.01	<3	.44	.07	.19	3	9.6
3250	2	3	28	54	<.3	4	5	3111	2.27	200	<8	<2	3	156	.3	<3	<3	9	3.10	.080	13	8	.23	74	<.01	<3	.49	.09	.16	2	7.2
3251	1	5	52	175	<.3	5	6	2826	2.37	205	<8	<2	3	183	.8	<3	<3	7	3.45	.079	14	3	.21	76	<.01	<3	.55	.09	.16	3	10.4
3252	2	4	18	26	<.3	5	6	3817	2.36	190	<8	<2	4	157	<.2	<3	<3	8	3.43	.078	14	5	.39	65	<.01	<3	.53	.08	.14	2	9.3
3253	1	17	78	119	.3	4	6	5771	2.35	178	<8	<2	4	104	.8	<3	<3	11	2.96	.077	15	4	.81	71	<.01	<3	.41	.07	.18	2	12.3
3254	1	26	109	402	.5	4	6	3740	2.48	204	<8	<2	4	146	3.1	<3	<3	9	3.04	.080	15	6	.43	74	<.01	<3	.49	.09	.17	<2	18.6
RE 3254	2	28	112	407	.6	4	6	3701	2.48	203	<8	<2	4	144	3.2	<3	<3	9	3.01	.079	15	7	.42	73	<.01	<3	.48	.09	.17	<2	20.3
RRE 3254	1	30	127	412	.6	5	6	3694	2.44	202	<8	<2	4	145	3.3	<3	<3	9	3.00	.079	15	5	.42	73	<.01	<3	.47	.09	.17	<2	20.0
3255	1	2	20	25	<.3	3	5	3558	2.26	149	<8	<2	3	179	.2	<3	<3	8	3.81	.075	13	6	.31	77	<.01	<3	.51	.08	.15	<2	11.4
3256	1	8	23	68	<.3	4	6	3966	2.50	190	<8	<2	3	169	.3	<3	<3	9	3.58	.078	14	5	.40	76	<.01	<3	.55	.09	.15	2	56.7
3257	3	117	1132	2250	1.5	3	8	10435	3.26	104	<8	<2	<2	29	19.4	4	<3	7	.31	.085	2	9	.11	32	<.01	<3	.57	.02	.24	2	25.0
STANDARD C3/DS2	27	61	36	166	5.3	38	11	768	3.30	59	23	<2	20	27	23.0	16	24	75	.55	.094	17	157	.60	141	.09	23	1.77	.04	.16	14	197.3
STANDARD G-2	2	3	<3	42	<.3	8	4	517	1.98	<2	<8	<2	3	67	<.2	<3	<3	38	.61	.103	6	71	.58	217	.11	<3	.94	.07	.46	2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME A[illegible]YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604[illegible]3-1716
(I[illegible] 9002 Accredited Co.)

ASSAY CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003556R
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Zn %
3109	.91

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: CORE PULP

DATE RECEIVED: OCT 3 2000 **DATE REPORT MAILED:** Oct 6/00 **SIGNED BY**......D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data___ FA ___

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604 3-1716
(I. 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT Thorn File # A003526 Page 1

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: H. Awmack

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
3318	1	38	49	208	<.3	7	9	3748	2.86	69	<8	<2	4	197	.7	<3	<3	23	3.87	.090	14	9	.85	195	<.01	<3	1.28	.04	.22	4	4.4
3319	1	95	159	434	.3	6	9	2755	3.13	126	<8	<2	3	251	3.2	<3	<3	21	4.12	.094	15	7	.89	242	<.01	<3	1.42	.05	.26	<2	27.0
3320	1	67	109	360	.3	6	9	2534	2.96	128	<8	<2	3	226	2.4	<3	3	21	3.79	.091	15	6	.84	234	<.01	3	1.32	.05	.25	<2	23.8
3321	1	117	25	331	<.3	7	10	2974	3.51	61	<8	<2	4	299	1.2	<3	<3	29	3.69	.086	18	7	1.02	280	.01	5	2.10	.06	.34	<2	7.2
3322	1	197	37	1094	<.3	8	12	5642	3.88	52	<8	<2	3	235	5.0	<3	<3	25	2.84	.088	15	6	.95	222	<.01	<3	1.38	.05	.25	<2	2.2
3323	2	316	105	797	<.3	8	10	6374	4.01	106	<8	<2	3	507	3.4	<3	<3	27	1.94	.095	11	7	.85	177	<.01	<3	1.49	.05	.27	<2	11.1
3324	1	355	31	478	<.3	8	10	1193	4.24	222	<8	<2	3	2248	2.0	<3	<3	17	.52	.102	12	4	.25	260	<.01	4	1.58	.05	.36	<2	25.4
3325	2	27	1432	3074	2.0	9	12	250	4.19	127	<8	<2	2	352	22.0	<3	3	6	.41	.097	2	5	.04	50	<.01	<3	.56	.06	.21	<2	65.3
3326	2	26	126	286	.4	8	11	5325	3.79	114	<8	<2	3	530	.8	<3	<3	11	1.70	.102	11	6	.41	67	<.01	<3	.63	.06	.25	<2	9.1
3327	2	23	107	77	<.3	6	9	5711	3.35	97	<8	<2	2	862	.3	3	<3	15	3.25	.091	11	5	1.12	104	<.01	<3	.60	.07	.22	2	3.4
3328	2	49	302	674	1.5	8	11	190	3.94	161	<8	<2	3	479	5.1	4	<3	7	.44	.102	6	6	.04	67	<.01	<3	.63	.10	.20	2	14.2
RE 3328	2	47	304	679	1.6	9	11	196	3.94	160	<8	<2	3	478	5.1	5	<3	7	.45	.103	6	5	.04	68	<.01	<3	.64	.10	.20	<2	13.3
RRE 3328	2	47	293	650	1.7	8	11	188	3.92	159	<8	<2	3	480	5.2	5	<3	7	.44	.103	5	5	.04	70	<.01	<3	.60	.10	.19	<2	13.0
3329	2	35	1094	1970	1.6	6	9	46	3.60	143	<8	<2	3	431	14.3	3	3	5	.33	.089	2	5	.02	65	<.01	<3	.54	.08	.16	<2	9.7
3330	4	15	68	202	<.3	8	10	79	3.85	157	<8	<2	3	493	.7	<3	<3	6	.39	.107	7	7	.02	67	<.01	<3	.65	.11	.21	4	4.1
3331	2	9	214	252	.3	5	7	121	3.39	119	<8	<2	4	281	.9	<3	<3	5	.30	.092	11	5	.03	94	<.01	3	.55	.05	.24	<2	2.8
3332	2	15	82	128	<.3	4	7	2767	3.07	120	<8	<2	4	607	.6	<3	<3	8	2.09	.090	14	8	.42	88	<.01	<3	.59	.07	.23	3	3.4
3333	2	9	56	77	<.3	4	7	3081	2.75	116	<8	<2	4	460	.2	<3	<3	12	3.97	.087	15	4	.52	71	<.01	<3	.58	.08	.20	3	2.7
3334	2	24	91	99	.5	5	8	2697	3.10	93	<8	<2	4	475	.5	3	<3	12	3.66	.090	16	5	.49	73	<.01	<3	.60	.06	.22	3	5.6
3335	2	27	102	157	.5	5	8	2968	3.07	105	<8	<2	4	572	.8	4	<3	11	3.93	.089	18	3	.44	91	<.01	<3	.60	.05	.23	4	4.7
3336	2	19	47	82	<.3	4	7	3213	2.84	157	<8	<2	4	405	.3	<3	<3	11	3.63	.087	16	6	.56	93	<.01	<3	.63	.06	.22	3	8.5
3337	2	19	35	53	<.3	5	8	2611	2.51	98	<8	<2	4	340	.2	<3	<3	17	4.15	.094	16	6	.42	120	<.01	<3	.72	.08	.22	2	3.6
3338	1	15	35	73	<.3	5	8	2019	2.89	98	<8	<2	4	499	.3	<3	<3	15	4.22	.089	17	5	.44	87	<.01	<3	.67	.08	.20	2	2.2
3339	2	15	41	53	<.3	4	7	2238	2.78	100	<8	<2	3	626	<.2	<3	<3	10	4.13	.084	15	2	.46	91	<.01	<3	.64	.06	.20	2	20.1
3340	2	14	41	58	<.3	4	7	2135	2.86	98	<8	<2	4	575	<.2	<3	<3	10	4.06	.085	16	6	.45	92	<.01	<3	.67	.06	.21	2	7.8
RE 3340	2	14	40	60	<.3	4	7	2208	2.93	100	<8	<2	4	604	<.2	3	<3	10	4.18	.090	17	6	.46	93	<.01	<3	.66	.06	.21	2	5.5
RRE 3340	1	14	43	66	<.3	4	7	2170	2.83	98	<8	<2	3	592	.2	<3	<3	9	4.10	.086	16	4	.46	85	<.01	<3	.63	.06	.21	2	4.8
3341	2	13	32	51	<.3	5	7	2352	2.85	74	<8	<2	4	478	<.2	<3	<3	11	4.26	.087	17	6	.54	81	<.01	<3	.63	.06	.21	2	3.4
3342	2	17	45	100	<.3	5	8	2850	3.17	105	<8	<2	3	408	.3	4	<3	13	3.89	.087	18	5	.90	85	<.01	<3	.64	.06	.21	3	10.6
3343	2	20	34	54	<.3	6	9	2096	3.14	79	<8	<2	3	450	.2	<3	<3	17	4.20	.095	17	6	.43	89	<.01	<3	.78	.06	.22	2	4.3
3344	2	16	39	61	<.3	5	8	2748	2.94	99	<8	<2	3	406	.3	<3	<3	12	4.60	.089	16	5	.38	90	<.01	<3	.75	.06	.23	2	5.9
3345	2	18	120	168	.7	3	6	2449	2.80	126	<8	<2	4	429	.9	<3	<3	6	2.69	.081	12	4	.60	88	<.01	<3	.67	.04	.25	4	37.8
3346	2	9	56	69	.3	4	7	3011	2.77	107	<8	<2	4	214	.2	<3	<3	11	3.06	.085	17	5	.68	86	<.01	<3	.65	.04	.25	2	8.7
STANDARD C3/DS2	27	66	36	170	5.4	37	11	798	3.46	56	19	2	22	31	23.7	16	22	79	.59	.096	19	170	.62	157	.09	23	1.83	.04	.18	17	205.0
STANDARD G-2	2	3	3	48	<.3	8	4	566	2.18	<2	<8	<2	3	87	<.2	<3	<3	41	.71	.107	8	83	.64	268	.14	6	1.09	.12	.55	3	-

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 11 2000 **DATE REPORT MAILED:** Sept 21/00 **SIGNED BY** ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ____

Equity Engineering Ltd. PROJECT Thorn FILE # A003526

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3347	1	7	62	88	<.3	4	6	3185	2.67	121	<8	<2	3	345	.5	<3	<3	7	3.60	.078	15	6	.70	67	<.01	<3	.45	.04	.12	2	11.4
3348	1	19	107	250	.8	5	6	3298	2.65	95	<8	<2	3	965	2.1	4	<3	8	3.40	.077	13	4	.77	87	<.01	<3	.44	.04	.18	<2	13.1
3349	1	299	50	41	3.0	5	7	28	4.06	178	<8	<2	2	74	.4	49	6	2	.21	.076	<1	7	.01	34	<.01	6	.23	.02	.05	<2	60.1
3350	<1	477	193	2117	9.9	6	8	30	3.87	202	<8	<2	2	215	24.3	99	8	2	.24	.080	<1	5	.01	32	<.01	4	.24	.02	.05	<2	48.6
3351	1	100	533	1132	4.7	6	8	23	4.24	55	<8	<2	<2	197	10.1	16	8	3	.22	.071	<1	8	.01	33	<.01	5	.29	.02	.07	<2	99.0
3352	<1	32	131	16	2.0	6	8	24	4.08	16	<8	<2	2	90	.2	5	5	3	.23	.075	<1	2	.01	39	<.01	4	.26	.03	.05	<2	38.4
3353	1	39	52	29	1.2	6	9	20	3.92	26	<8	<2	<2	841	.3	6	3	3	.18	.067	<1	7	.01	56	<.01	4	.32	.01	.06	<2	70.6
3354	<1	193	75	33	2.9	6	7	27	4.06	46	<8	<2	2	70	.7	41	6	3	.21	.076	1	8	.01	39	<.01	6	.19	.02	.04	<2	46.3
3355	1	503	60	113	4.4	5	8	24	3.77	133	<8	<2	2	167	1.8	142	6	2	.25	.092	<1	7	.01	43	<.01	5	.21	.02	.04	2	32.3
3356	<1	50	60	103	.9	6	8	21	3.70	41	<8	<2	<2	122	.7	10	4	2	.18	.056	<1	6	.01	39	<.01	3	.20	.02	.04	2	13.6
3357	1	15	292	759	.9	5	8	20	3.64	38	<8	<2	<2	534	5.5	<3	<3	2	.11	.035	<1	9	.01	49	<.01	4	.18	.02	.03	<2	15.1
3358	<1	53	108	55	1.7	5	8	21	3.59	26	<8	<2	<2	321	.4	10	10	2	.20	.055	<1	6	.01	49	<.01	3	.27	.03	.06	<2	13.6
RE 3358	1	56	110	67	1.7	5	8	22	3.67	27	<8	<2	<2	329	.7	11	10	2	.20	.056	<1	7	.01	49	<.01	<3	.27	.04	.06	2	14.2
RRE 3358	2	57	110	62	1.8	6	8	21	3.68	28	<8	<2	<2	331	.8	11	10	2	.20	.056	<1	10	.01	48	<.01	3	.28	.04	.06	2	10.9
3359	<1	27	451	1106	1.1	5	8	27	3.62	50	<8	<2	<2	684	8.7	4	<3	2	.25	.067	1	6	.01	58	<.01	<3	.39	.03	.12	<2	20.8
3360	1	38	97	191	1.4	5	7	22	3.68	32	<8	<2	<2	134	1.5	6	3	2	.18	.051	<1	11	.01	44	<.01	3	.24	.03	.05	<2	12.8
3361	<1	45	98	216	1.5	5	7	23	3.68	34	<8	<2	<2	160	1.7	9	4	2	.19	.055	<1	7	.01	38	<.01	5	.25	.03	.05	<2	11.6
3362	1	19	326	661	.9	6	9	33	3.73	63	<8	<2	2	515	5.2	<3	<3	3	.26	.081	2	9	.01	40	<.01	3	.38	.03	.12	<2	19.8
3363	1	25	228	420	.7	5	8	123	3.39	84	<8	<2	4	253	2.7	<3	<3	3	.34	.097	15	4	.02	43	<.01	4	.49	.06	.19	<2	56.3
3364	1	10	155	189	<.3	4	6	6259	3.22	74	<8	<2	3	651	.8	<3	<3	6	1.23	.083	11	7	.30	64	<.01	<3	.61	.04	.19	4	9.8
3365	<1	13	71	231	<.3	5	7	4253	3.04	65	<8	<2	4	267	1.1	<3	<3	6	2.05	.087	12	6	.30	54	<.01	<3	.54	.05	.19	<2	6.6
3366	<1	3	48	48	<.3	3	6	4712	2.83	54	<8	<2	3	663	.4	<3	<3	9	3.89	.082	15	6	.48	69	<.01	<3	.49	.05	.20	2	4.6
3367	<1	5	76	118	<.3	4	8	4285	2.44	162	<8	<2	3	402	.7	<3	<3	12	4.14	.089	17	5	.30	80	<.01	<3	.55	.06	.20	2	16.3
3368	1	20	115	151	.7	5	7	4401	2.52	138	<8	<2	4	291	1.0	<3	<3	15	3.88	.088	17	5	.33	86	<.01	3	.60	.06	.21	4	119.2
3369	<1	31	41	70	.3	3	6	3997	2.35	133	<8	<2	4	222	.4	4	<3	7	4.22	.081	15	4	.34	104	<.01	<3	.66	.06	.21	2	72.8
3370	1	29	137	236	1.2	3	7	3070	2.48	219	<8	<2	4	166	1.5	3	<3	9	1.99	.089	16	6	.32	77	<.01	<3	.53	.05	.18	<2	221.9
RE 3370	1	30	141	251	1.2	4	7	3135	2.52	228	<8	<2	4	168	1.7	4	<3	9	2.05	.091	16	5	.33	77	<.01	<3	.56	.06	.19	<2	231.2
RRE 3370	<1	31	165	249	1.2	4	7	3206	2.53	230	<8	<2	4	172	1.6	3	<3	9	2.03	.092	17	6	.32	77	<.01	<3	.54	.05	.19	<2	239.9
3371	1	18	122	256	.4	5	8	5911	2.94	163	8	<2	4	223	2.0	<3	<3	7	2.27	.089	11	3	.39	65	<.01	<3	.59	.04	.20	<2	79.1
3372	<1	6	47	38	<.3	3	6	5137	2.91	78	<8	<2	4	223	.2	<3	<3	5	2.65	.083	10	5	.45	86	<.01	<3	.77	.05	.22	2	10.6
3373	1	17	85	41	<.3	4	7	5184	2.50	103	<8	<2	4	219	.3	<3	<3	10	3.32	.088	14	6	.47	111	<.01	<3	.90	.06	.20	2	16.4
3374	<1	44	215	233	.6	5	8	4938	2.88	206	<8	<2	3	325	1.5	3	<3	13	3.25	.091	16	6	.65	85	<.01	<3	.95	.06	.24	<2	45.8
3375	1	20	114	119	.4	3	6	4971	2.89	126	<8	<2	4	193	.9	<3	<3	12	3.03	.085	16	6	.85	68	<.01	<3	.66	.06	.24	4	30.7
3376	1	21	120	129	.3	5	8	3989	2.86	66	<8	<2	4	444	.9	<3	<3	8	3.24	.089	15	3	.50	68	<.01	<3	.70	.05	.22	3	13.8
STANDARD C3/DS2	26	65	35	166	5.3	40	12	793	3.42	63	21	2	21	28	24.1	15	23	76	.57	.098	17	164	.63	150	.09	23	1.75	.04	.16	17	195.4
STANDARD G-2	2	3	<3	41	<.3	9	4	534	2.06	<2	<8	<2	4	79	<.2	<3	<3	39	.65	.106	7	77	.62	250	.13	4	1.02	.11	.51	2	-

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL

Equity Engineering Ltd. PROJECT Thorn FILE # A003526

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3377	<1	7	92	45	<.3	4	7	3074	2.57	39	<8	<2	4	361	.3	<3	<3	7	2.95	.088	15	4	.43	52	<.01	4	.69	.04	.20	<2	5.3
3378	1	17	114	154	.4	4	8	3042	3.05	27	<8	<2	5	341	.5	3	<3	8	1.56	.096	16	5	.39	41	<.01	<3	.64	.05	.22	2	8.7
3379	1	24	63	93	.6	5	9	2774	3.39	29	<8	<2	4	121	.5	<3	<3	11	1.06	.093	14	4	.31	40	<.01	<3	.57	.05	.21	<2	5.7
3380	1	26	82	175	.5	5	9	2706	3.46	30	<8	<2	4	132	1.2	<3	<3	10	1.01	.089	14	4	.30	34	<.01	<3	.59	.05	.22	2	5.8
3381	1	15	46	63	.5	6	10	695	3.64	48	<8	<2	5	135	.2	<3	3	7	.41	.106	19	4	.16	34	<.01	3	.70	.06	.22	<2	4.5
3382	1	25	327	549	1.0	12	15	369	4.66	72	<8	<2	5	69	3.4	<3	<3	7	.44	.127	17	4	.04	35	<.01	<3	.56	.05	.24	<2	5.7
3383	2	13	151	427	1.0	8	10	87	3.45	31	<8	<2	5	58	2.0	<3	<3	6	.34	.102	16	4	.02	37	<.01	<3	.50	.04	.23	<2	4.6
3384	1	106	59	22	2.0	6	8	20	4.21	88	<8	<2	<2	41	.2	19	3	2	.10	.028	<1	3	<.01	30	<.01	<3	.17	.02	.04	<2	51.7
3385	3	28	64	194	1.8	8	11	27	4.54	115	<8	<2	2	55	2.0	6	4	2	.15	.052	1	7	<.01	29	<.01	3	.19	.02	.05	3	26.8
3386	1	36	663	2061	2.7	7	10	130	3.92	153	<8	<2	3	88	15.4	7	<3	5	.31	.087	2	4	.03	24	<.01	<3	.51	.04	.23	<2	8.6
RE 3386	1	37	671	2115	2.7	8	10	131	3.89	153	<8	<2	3	88	15.9	7	3	6	.31	.087	2	<1	.03	25	<.01	<3	.52	.04	.23	<2	8.1
RRE 3386	1	36	695	2061	2.6	8	11	136	4.03	160	<8	<2	2	86	15.4	7	<3	5	.32	.088	2	4	.03	23	<.01	3	.53	.05	.24	<2	10.4
3387	2	45	305	361	1.2	7	10	4608	3.81	112	<8	<2	3	73	2.2	5	<3	8	.78	.092	12	4	.29	35	<.01	<3	.72	.05	.26	<2	4.2
3388	2	20	119	73	.9	6	10	3415	3.62	133	<8	<2	4	91	.4	<3	<3	7	1.10	.103	13	3	.36	51	<.01	3	.83	.07	.24	<2	4.6
STANDARD C3/DS2	27	63	35	165	5.3	40	12	786	3.44	62	20	<2	21	29	24.1	15	22	76	.58	.096	18	164	.62	149	.10	22	1.77	.04	.17	16	194.0

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

APPENDIX G

QUALITY CONTROL / QUALITY ASSURANCE

QUALITY CONTROL / QUALITY ASSURANCE

I. Chain of Custody

All samples were packed in rice sacks and sealed with uniquely-numbered non-resealable security straps. Rice sacks were trucked via BTS to Acme Labs in Vancouver. Acme reported that all bags were received in good condition, with all security straps intact, and with no evidence of tampering.

II. Blanks

Blanks are samples which are known to be barren of mineralization, and are inserted into the sample stream to determine whether contamination has occurred after sample collection.

a) Soil Samples

Four soil blanks were inserted into the sample sequence (approximately every 40th sample) and submitted for analysis. The blanks were prepared in Vancouver and analyzed by Chemex Labs Ltd. of North Vancouver in April 2000, with ten analyses giving a reproducible set of values. The following table compares the Thorn blank soil samples to the accepted values returned from pre-field analysis:

Sample	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
Pre-field blanks:									
Mean+2Std.Dev.	<5	0.02	2.1	0.05	20.0	0.2	2	0.30	37.2
Mean-2Std.Dev.	<5	0.02	1.4	0.03	16.9	0.2	2	0.04	31.2
2000 Thorn blanks:									
00HMSL30B	1	< .3	3	< 3	15	< 1	3	< 3	31
2100E 5050N-B	1	< .3	< 2	< 3	18	< 1	4	< 3	33
2600E 4250N-B	2	< .3	3	< 3	15	1	3	< 3	30
2600E 5650N-B	2	< .3	2	< 3	15	< 1	4	< 3	30
2700E 6175N-B	1	< .3	3	< 3	16	< 1	4	< 3	31
2800E 4250N-B	1	< .3	2	< 3	17	1	< 3	< 3	32
2800E 5400N-B	2	< .3	< 2	< 3	15	1	3	< 3	29
3000E 4200N-B	6	< .3	3	< 3	17	1	4	< 3	32
3100E 5250N-B	1	< .3	< 2	< 3	17	< 1	3	< 3	32

All Thorn blanks are within the analytical range determined by pre-field analysis, with the trivial exceptions of Au, As, Cu, Mo, Pb and Zn, each of which has one or more samples slightly outside the range but still at very low levels. This indicates that there was no significant contamination of the Thorn soil blanks submitted for analysis, and, by extension, the remainder of the soil samples. There appears to be a minor systematic discrepancy of a few ppm for Cu, Pb and Zn between Acme and Chemex.

b) Rock Samples

Five rock blanks were inserted into the sample sequence (approximately every 20th sample) and submitted for analysis. The blank was collected from a boulder of apparently unaltered and unmineralized monzonite in Camp Creek, just above its mouth. This blank returned quite variable results; this indicates either contamination during sample preparation or that the boulder was poorly selected and was actually mineralized. The second is not impossible, since weakly altered monzonite hosts the Cirque Zone upstream.

Sample	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
206627	9	< .3	2	< 3	10	3	< 3	< 3	27
206635	30	4.5	36	< 3	64	2	29	76	49

206650	1	2.0	23	< 3	59	1	17	17	36
206816	75	25.8	373	3	786	1	10	465	39
206836	4	0.3	7	< 3	14	2	35	5	34

III. Lab Duplicate Analysis

Lab duplicates are analyses of two portions of a prepared sample. They are used to measure the reproducibility of laboratory analyses.

a) Soil Samples

On every sheet of 34 soil analyses, Acme includes one lab duplicate; this resulted in 17 lab duplicates for the Thorn project. Thompson and Howarth (1976, 1978) demonstrated that the analytical precision of a dataset can be estimated by duplicate analyses. They established a graphical representation of the precision that is effective for datasets of 10 to 50 samples:

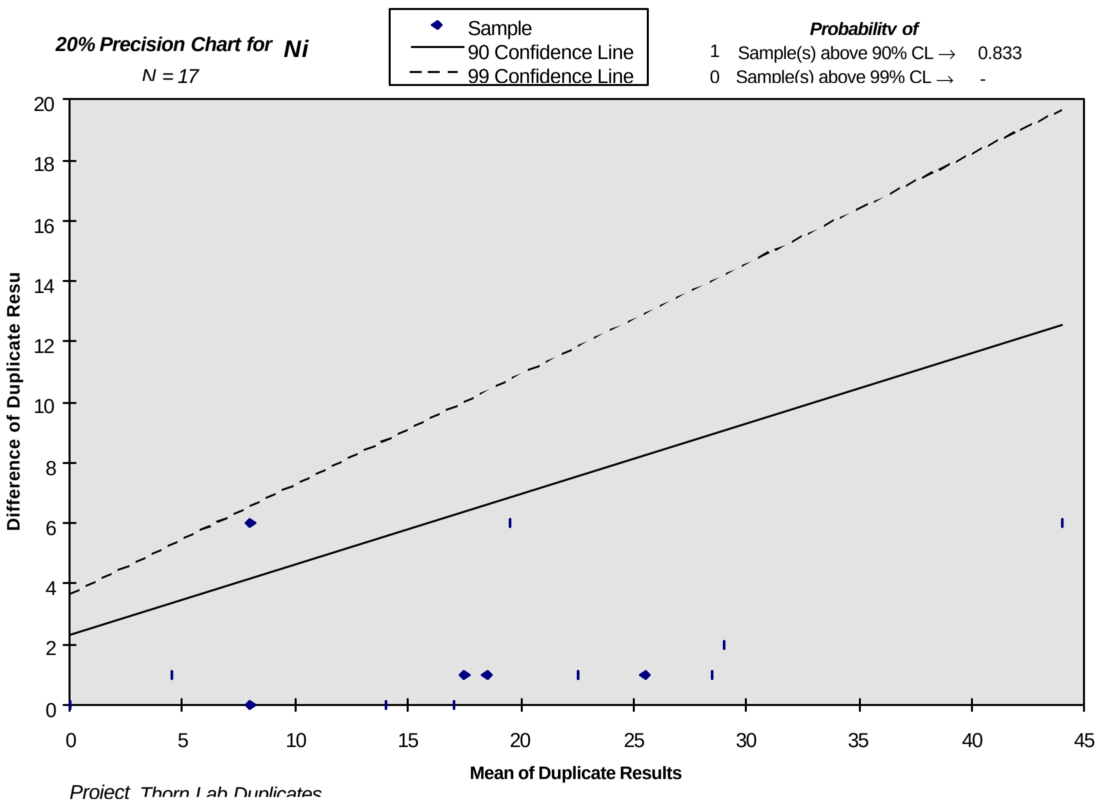


Chart 1: Graph illustrating Thompson and Howarth estimation of analytical precision, method two. The data points represent duplicate pairs, the solid line represents the 90th percentile of the population, and the dashed line the 99th percentile of the population (n=17 duplicate pairs). In this instance, the precision was set at 20%, and at this level within the given dataset, 1 sample falls above the 90th percentile line. From the binomial probability it can be read that at 20% precision, the probability of 1 sample out of 17 falling above the 90th percentile is 83.3%.

The graphs used to estimate analytical precision of the lab duplicates indicate that for most elements (including Ag, As, Cu, Mo, Pb, Sb and Zn), all duplicate samples plot below the 90th percentile line at 20% precision, indicating excellent correlation between duplicates (and hence reproducibility of analyses). Au is more problematic (see chart below), with 4 samples above the 99th percentile, next to impossible at 20% precision. This implies a much lower precision, likely due to particulate gold and a nugget effect. Precision for Au analyses is closer to 100%.

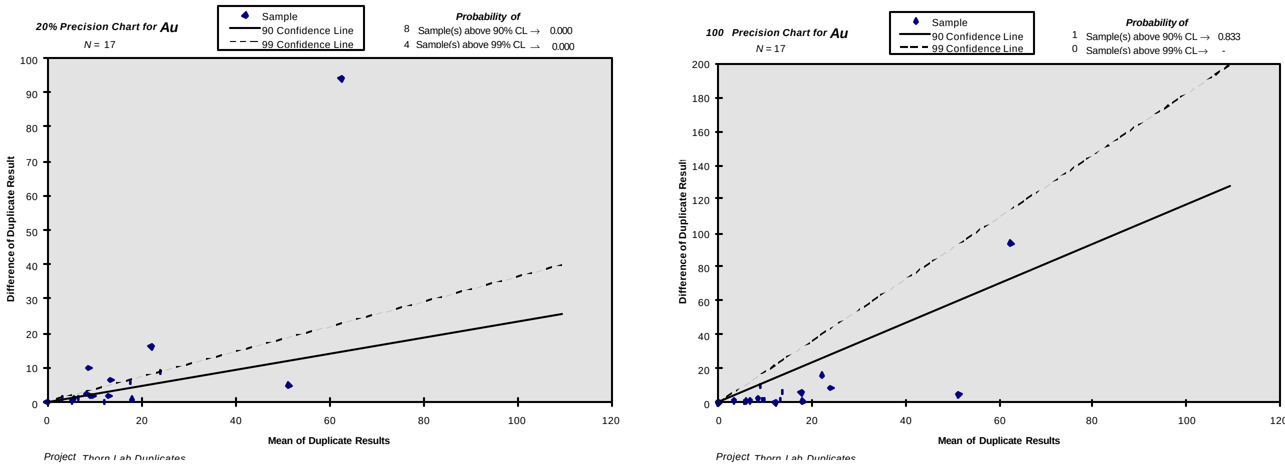


Chart 2: Soil lab duplicate analysis for Au (20% precision on left; 100% precision on right)

b) Rock and Core Samples

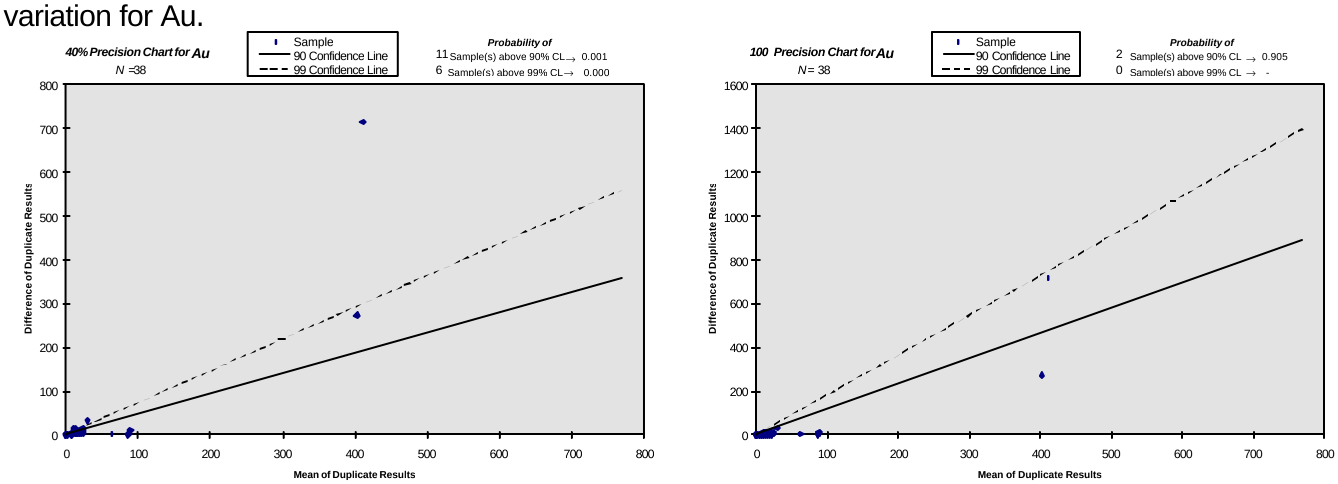
On every sheet of 34 rock or core analyses, Acme includes one lab duplicate; this resulted in 31 lab duplicates for the Thorn project. All core and rock samples were prepared and analyzed using the same procedures and are comparable. Most elements (including Au, Ag, As, Cu, Mo, Sb and Zn) correlated very well between the duplicate pairs, with none exceeding the 90th percentile line at 20% precision. Pb had one duplicate above the 90th percentile, a very likely occurrence (96% probability at 20% precision).

IV. Field Duplicates

Field duplicates are collection and analysis of two separate samples from the same field location or core interval. They are used to measure the reproducibility of sampling, which includes both laboratory variation and sample variation.

a) Soil Samples

A total of 38 sets of field duplicate soil samples were collected (approximately every 20th sample location) and submitted for analysis. All elements show a variability which is inconsistent with 20% precision, but most are consistent with 40% precision (Chart 3). Au is consistent with 100% precision, the same as for the lab duplicates, indicating that laboratory variation is more important than sample variation for Au.



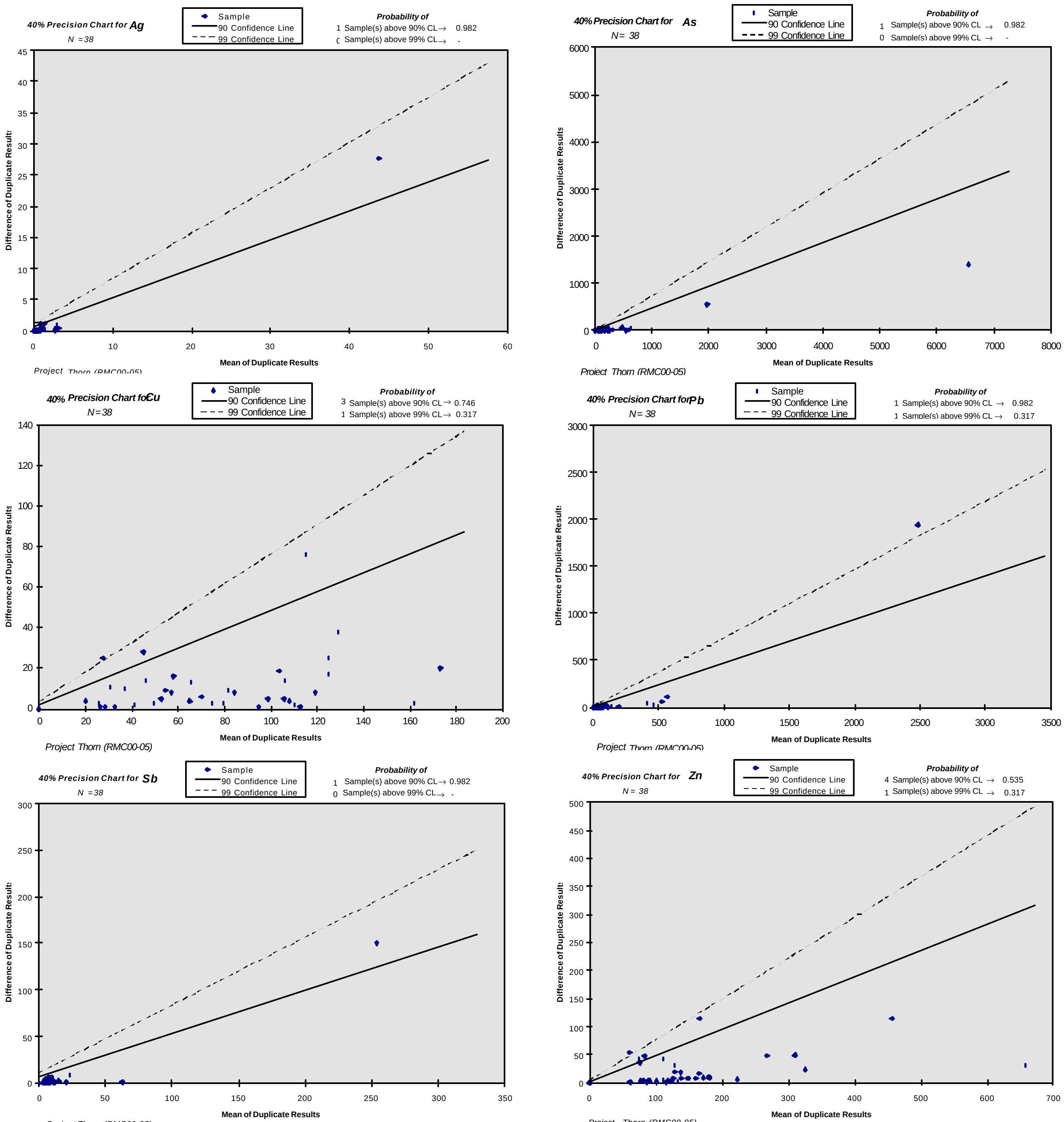


Chart 3: Soil field duplicates. Au at 40% and 100% precision; other elements at 40% precision.

b) Core Samples

Every 20th core sample was quartered, with the two quarters sent for analysis, resulting in 19 field duplicates. Only Ag and Sb were reproducible at the 20% precision level, As at 60% precision and Au, Cu, Pb and Zn at 100% precision.

V. Overlimit Assays

Rock and core samples between 1000 and 10,000 ppb Au or exceeding 100 ppm Ag, 10,000 ppm Cu, 10,000 ppm Pb or 10,000 ppm Zn in initial geochemical analysis were assayed for the appropriate element. A few well-mineralized samples were assayed for all of these elements. A table comparing assays to initial geochemical values follows. It can be seen that Au, Cu and Zn geochemical values compare well with subsequent assays, as do Ag and Pb at lower concentrations. Above 100 ppm Ag and 4000 ppm Pb, however, the geochemical analyses drastically understate the "true" (assay) values.

	Au (all)	Ag (<100 ppm)	Ag (>100 ppm)	Cu (all)	Pb (<4000 ppm)	Pb (>4000 ppm)	Zn (all)
Number of assays	41	5	35	38	19	7	32
Increase or decrease (assay vs. geochem)	-3%	+1%	+109%	+6%	-2%	+143%	-3%

VI. Metallic Assays

The reject portions of six rock samples exceeding 10,000 ppb Au in initial geochemical analysis were subjected to metallic (screen) assaying to determine whether coarse particulate gold is present and under-reported by conventional sample preparation. Particulate gold is malleable and flattened during the pulverization process; with the standard sample preparation, any coarse gold left on the screens is disregarded. The following table shows that only one sample (206814) demonstrated a significant amount of particulate gold. It appears that 206826 (and maybe 206642 and 206808) also suffered from a "nugget" effect, with the reject assaying half as high as the original sample.

	Initial Geochem (ppb)	Sample Weight (g)	+ Fraction Gold (mg)	- Fraction Assay (g/tonne)	Total Grade (g/tonne)	Increase in Grade[1]
206607	16065	450	0.31	18.79	19.48	4%
206641	51012	486	1.13	55.05	57.38	4%
206642	34436	471	0.34	17.83	18.55	4%
206808	32813	477	0.91	22.23	24.14	9%
206814	31423	510	4.47	13.37	22.13	66%
206826	10234	480	0.07	4.01	4.1	2%

[1]Relative to the minus fraction assay

VII. Conclusions

1. There was no tampering with the samples between collection and laboratory.
2. There was no contamination of soil samples in laboratory preparation and analysis.
3. It is indeterminate whether rock samples are free of contamination in laboratory preparation and analysis.
4. Laboratory preparation and analysis is reproducible at an acceptable level (20%) precision for rock samples. For soil samples, it is reproducible at that level for all elements of interest except Au, which is only reproducible at 100% precision. This may indicate the presence of particulate gold in soil samples or the use of an imprecise method.
5. As expected, reproducibility decreases with soil samples once the effects of sampling variation are combined with those of the laboratory. This is demonstrated by the field duplicates, most of whose elements show a 40% precision, while Au is reproducible only at 100%. This variability must be considered when interpreting the soil geochemistry.
6. Core samples show less reproducibility than soil samples, inherent in the heterogeneous distribution of metallic minerals, with precisions up to 100%.
7. Assaying shows geochemical analysis to be reasonably accurate for Cu and Zn, and for lower levels of Ag (<100 ppm), Pb (<4000 ppm) and Au (<10,000 ppb).
8. Higher Pb and Ag contents are significantly understated by the ICP analysis.
9. Particulate gold is present in at least some high-grade mineralization; all samples exceeding 10,000 ppb Au should be tested by metallic (screen) assaying.

APPENDIX H

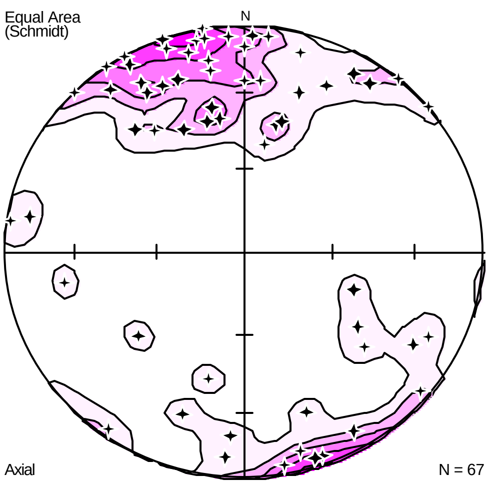
STRUCTURAL ANALYSIS

STRUCTURAL ANALYSIS

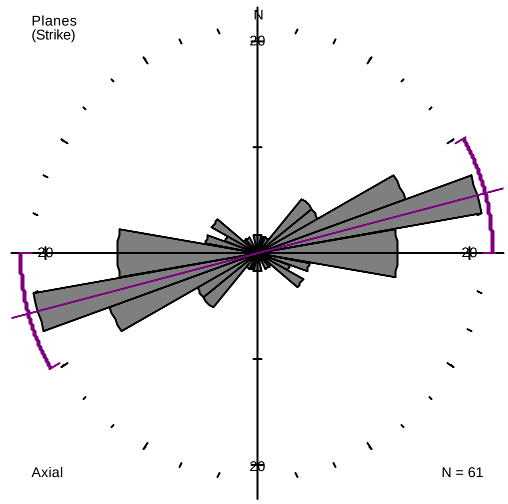
Orientations were measured for prominent fracture sets, veins, faults and dykes during the 2000 geological mapping in the vicinity of the Thorn Stock.

I. Veins

Almost all of the Thorn veining is steeply dipping and oriented between 060° and 100°, clustered around 081°/87°S. The Catto Vein, one of the few in the data set which lacks quartz, belongs to a very small cluster at 009°/85°E. The five points clustered around 201°/61°NW were all measured at the F and I Zones, within a few hundred metres of each other, suggesting that another mineralized fracture set may be present in this area.



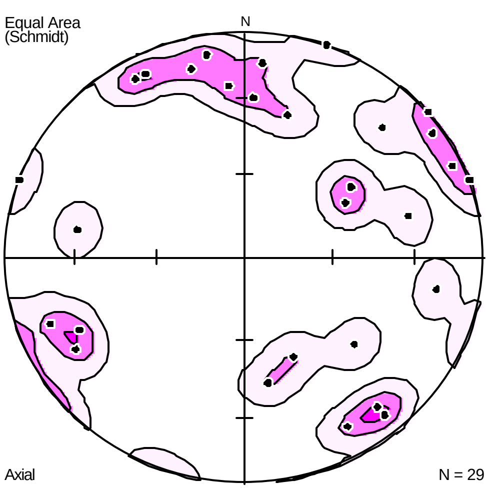
Stereonet (veins)



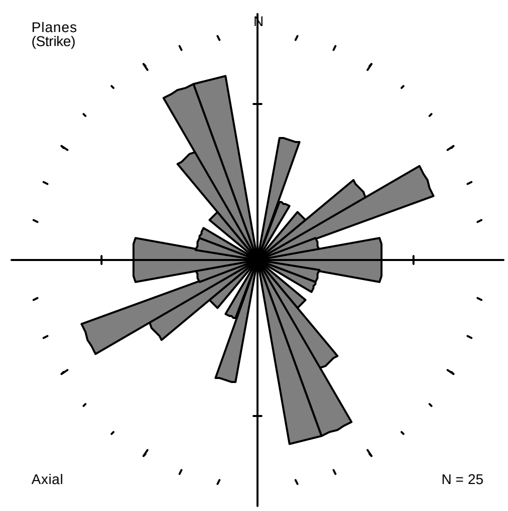
Rose diagram (veins dipping >50°)

II. Unmineralized Fractures

The largest cluster (8 points) of the 29 measured fracture sets is centred at 080°/75°S, coincident with the vast majority of veining. A second large group of fractures trends 150° to 170°, with clusters at 152°/90°, 334°/70°NE and 146°/43°SW. This unmineralized group of fractures is roughly parallel to La Jaune Creek (140°) and its associated magnetic low.



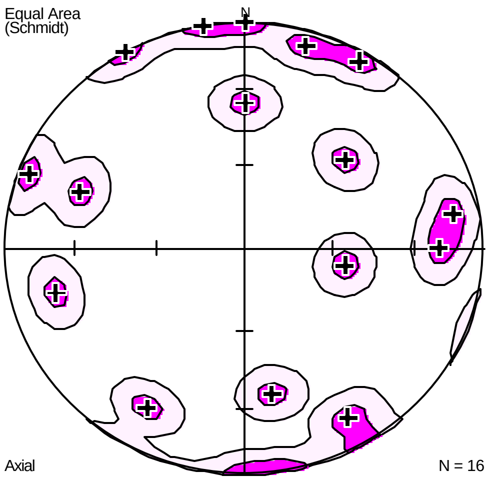
Stereonet (fractures)



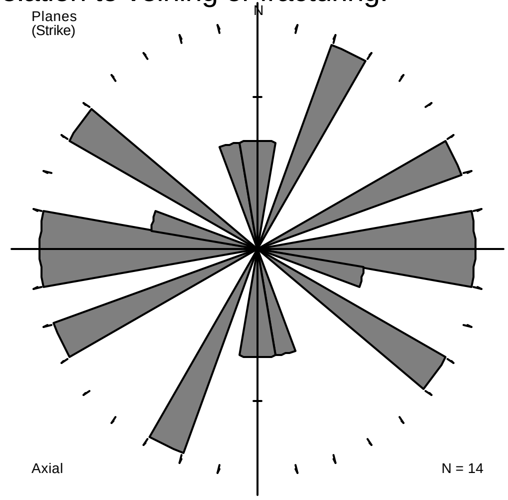
Rose diagram (fractures dipping >50°)

III. Unmineralized Faults

The measured faults do not show any clear correlation to veining and fracturing. However, many of the veins are mineralized fault zones which do not appear on the diagrams below. A fairer conclusion would be that unmineralized faults do not show any correlation to veining or fracturing.



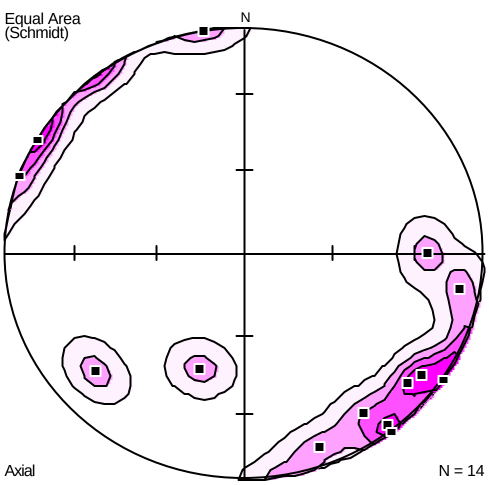
Stereonet (faults)



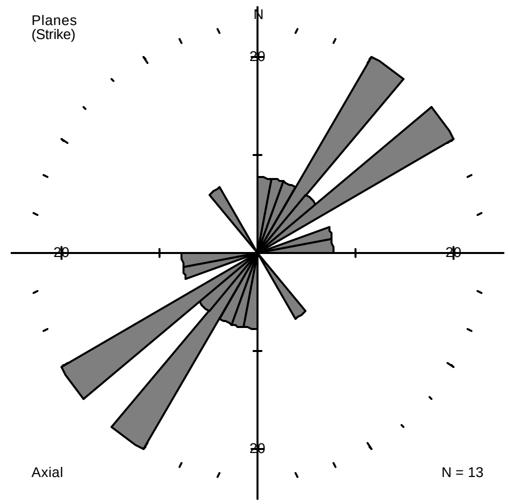
Rose diagram (faults dipping >50°)

IV. Dykes

All the measured dykes were emplaced after alteration and mineralization. Generally, the dykes do not follow the same fracture sets as the veining. Instead, there are two clusters at 232°/87°NW and 216°/86°NW. Only two dykes parallel the main set of veining at ~254°/85°N and another three parallel the Catto Vein at 190°/80°W.



Stereonet (dykes)



Rose diagram (dykes dipping >50°)

APPENDIX J

ENGINEER'S CERTIFICATE

ENGINEER'S CERTIFICATE

I, Henry J. Awmack, of 1735 Larch Street, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geological Engineer with offices at Suite 700, 700 West Pender Street, Vancouver, British Columbia.

2. THAT I am a principal of Equity Engineering Ltd., a geological consulting and contracting firm.

3. THAT I am a graduate of the University of British Columbia with an Honours Bachelor of Applied Science degree in Geological Engineering.

4. THAT I am a Professional Engineer registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

5. THAT this report is based on fieldwork carried out by me or under my direction from July through September 2000, on publicly available reports and on historical data provided to me by previous operators of the Thorn property. I have examined the property in the field.

DATED at Vancouver, British Columbia, this___day of _____________, 2000.

____
Henry J. Awmack, P.Eng.