

DRILLING REPORT

THE THORN PROPERTY

B.C. 104K-10W

58°33; 132°48'

Daisy, Daisy 2 Claims

Atlin Mining Division

for

FILMED

Inland Recovery Group Ltd.

&

American Reserve Mining Corp.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,897**

by

J. R. Woodcock

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May 20, 1987

JRW

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## THORN PROPERTY

### SUMMARY

The Thorn property, a polymetallic mineral prospect, situated in the Sutlahine River of northwestern British Columbia, is presently covered by the 30-unit Daisy claim block. The property has had a history of exploration that dates intermittently from 1959.

The geological setting consists of an intrusive-extrusive acidic complex of Tertiary age that is centred on a small stock of quartz feldspar porphyry. This complex occurs at the contact between Upper Triassic volcanic rocks of the Stuhini Group and some older meta-sedimentary and volcanic rocks. The acidic complex and its few small satellites are extensively pyritized, hydrothermally altered, and locally mineralized.

Mineral occurrences are numerous within and surrounding the intrusive complex. Fissure vein deposits containing enargite, tetrahedrite, and stibnite occur essentially along a major shear zone manifested by the southwest flowing Camp Creek. Small pods of chalcopyrite, pyrite, galena, barite, etc. occur within the Upper Triassic volcanic rocks at the south contact of the acidic complex.

In 1986 eight holes totalling 688 metres investigated three targets over a distance of 600 metres. Because of the very steep topography suitable targets were limited; each target was investigated by drilling from one site.

At the Main target or "Stringer Zone" sub parallel plus a few cross-cutting veinlets of tetrahedrite-enargite occur in the altered pyritized porphyries. Hole No. 6, drilled sub parallel to the stringers and under the stringer zone, did not encounter the mineralization; however it did encounter some pyrite-enargite-tetrahedrite type of mineralization close to the stock contact. Two more holes drilled from the same pad but in different directions also encountered some pyrite-enargite-tetrahedrite mineralization at the collars over short core lengths.

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The East Zone differs in mineralogy consisting of silicified vein and breccia zones and containing massive pyrite in places and small amounts of tetrahedrite-energite. Two holes dipping  $45^{\circ}$  and radiating out in directions  $30^{\circ}$  apart both encountered the mineralized siliceous zones and the mineralized breccia zone with some values in silver and gold. A steeper hole drilled under one of these shallow holes encountered only minor stringer mineralization indicating that the breccia mineralization at this site is faulted off at a shallow depth.

The East Extension showing is an exposure of silicified porphyry carrying some pyrite, arsenopyrite, and minor tetrahedrite. Surface assays show values of 0.16% Cu, 3.87 oz. per ton Ag and 0.212 oz. per ton Au and large blocks of oxidized material downslope in the gully bed have values that are much higher. Two holes collared in the creek bed over the mineralized boulders each encountered about 0.5 metres of pyrite with some chalcopyrite and traces of tetrahedrite. These holes appear to be the down dip extension of the silicified East Extension Zone; however they have completely different mineralogy and could represent merely a stringer out from the prospect exposure.



## INTRODUCTION

### GENERAL

Inland Recovery Group Ltd. acquired the Thorn property in 1982 and in 1983 contracted Mr. Doug Blanchflower to map the property and supervise a program of geochemical soil sampling and VLF-EM geophysics. Based on this work, Mr. Doug Blanchflower recommended a drill program in a number of the targets and in January, 1986 J. R. Woodcock compiled the data and concurred in this recommendation.

In 1986, American Reserve Mining Corporation made a joint venture agreement with Inland Recovery Group Ltd. and financed a mapping and drill program amounting to 688 meters in eight holes. The drill contractor was E. Caron Diamond Drilling of Whitehorse.

The mapping program in 1986 was done by J. R. Woodcock and Dave Nowak; the drill program was managed by Dave Nowak and supervised by J. R. Woodcock.

The logging was done by Dave Nowak using his adapted version of the geolog system of International Geosystems Corporation. In this logging, the geology is logged on a separate sheet using commonly accepted abbreviations for geological terms and minerals; the copper-gold-silver values are plotted on a separate sheet; and the core recovery is plotted on a separate sheet.

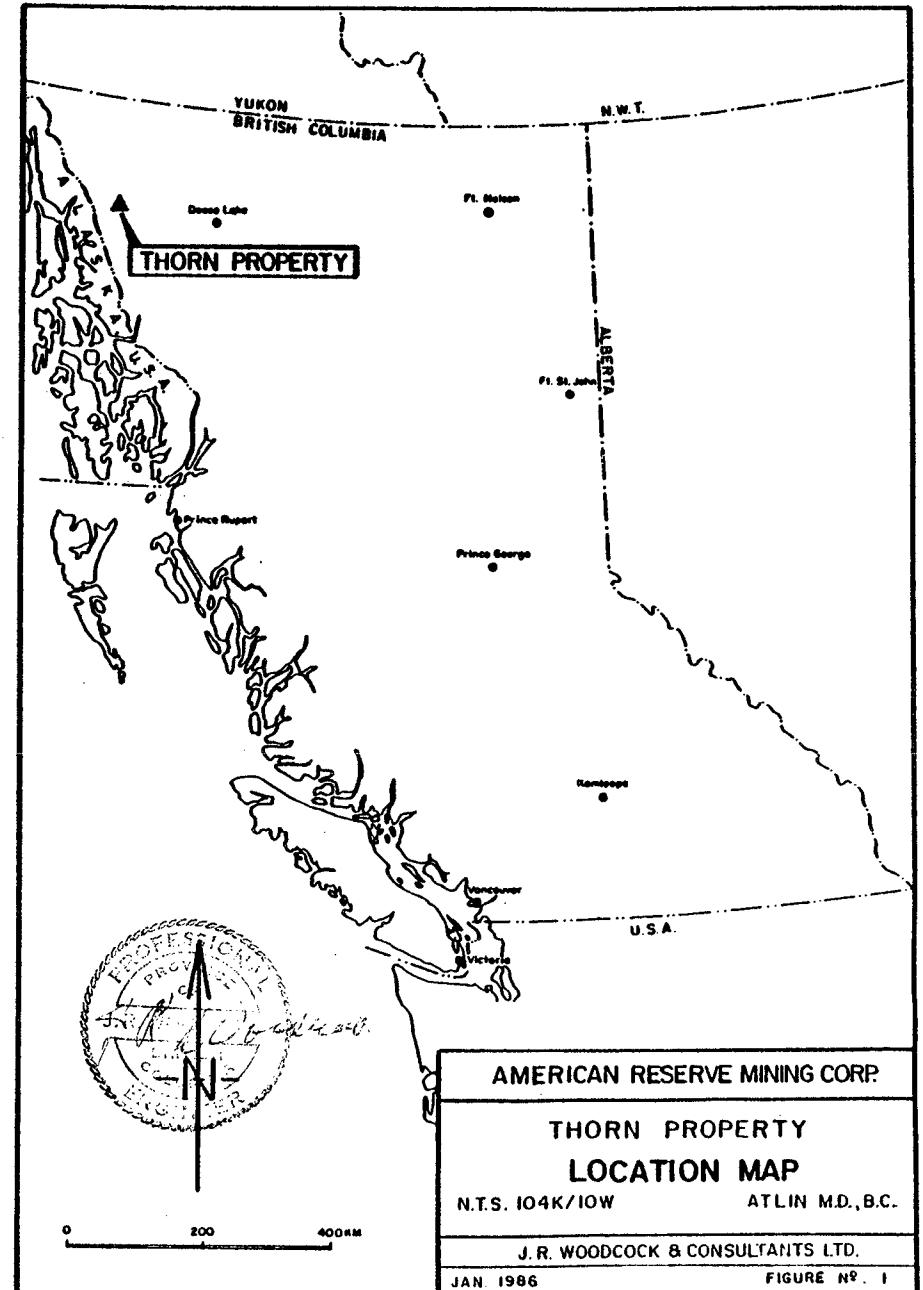
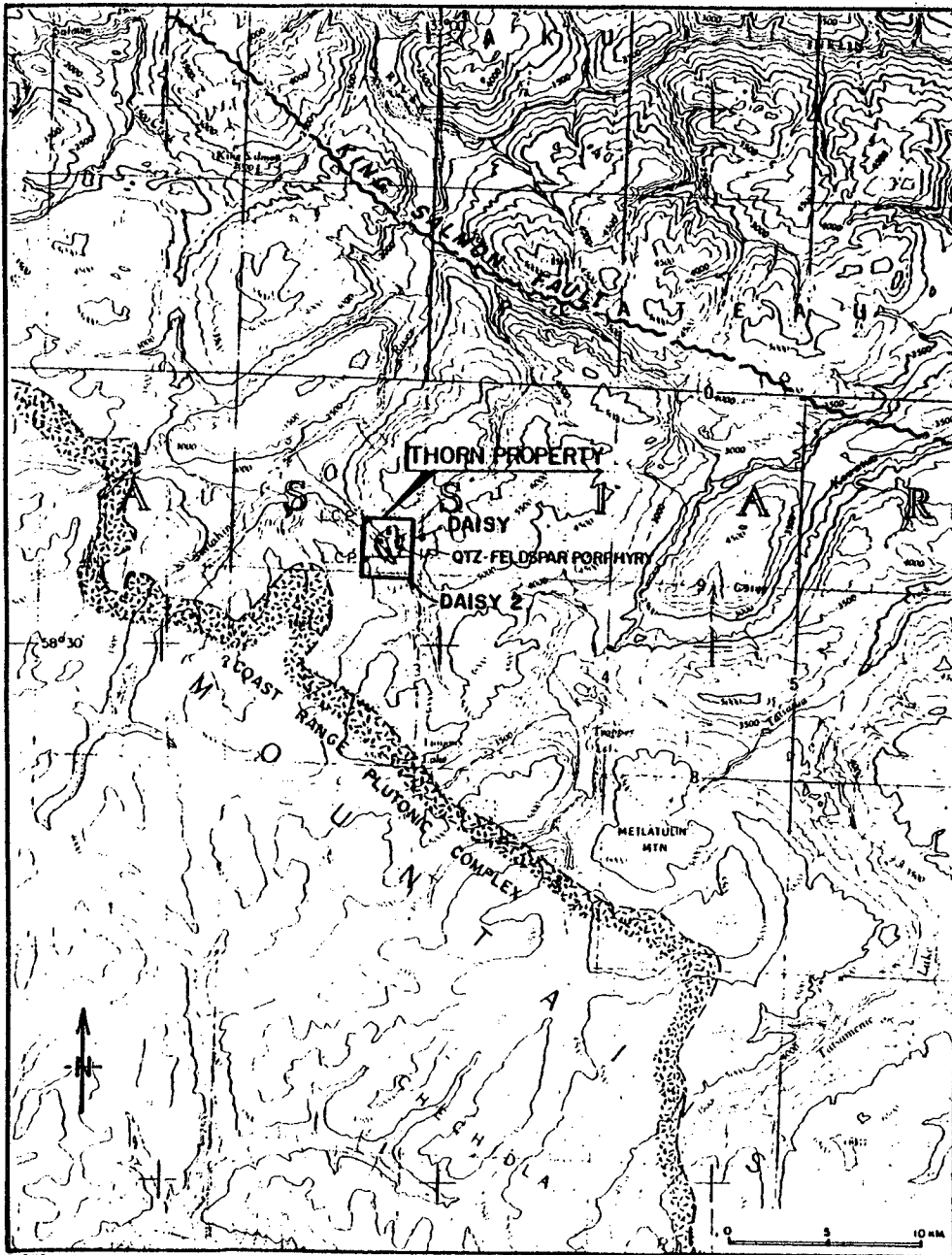
The locations of the drill holes are shown on the geological map (Figure 3). Drill hole sections are presented on scale 1:500. The core is stored in a rack at the camp site.

### LOCATION

The Thorn prospect is located at  $58^{\circ} 33'$  N latitude;  $132^{\circ} 48'$  W longitude, map sheet 104K-10W. It lies on a northwesterly flowing tributary of the Sutlahine River in northwestern British Columbia (Figure 1). The Sutlahine River flows northeastward into the Taku River. The Taku River cuts through the Coast Mountains and drains into the Pacific Ocean through the Alaska Panhandle near Juneau, Alaska.

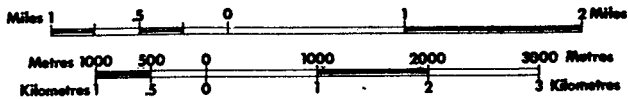
The nearest centres of communication and supply are Juneau, Alaska 100 km to the west, Atlin, B. C. 125 km to the northwest, and Telegraph Creek 125 km to the southeast. Access to the property is best achieved by fixed wing aircraft from either of these communities to Trapper Lake which lies approximately 13 km to the southeast of the property,

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Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources

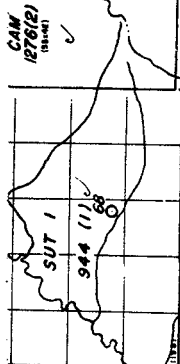
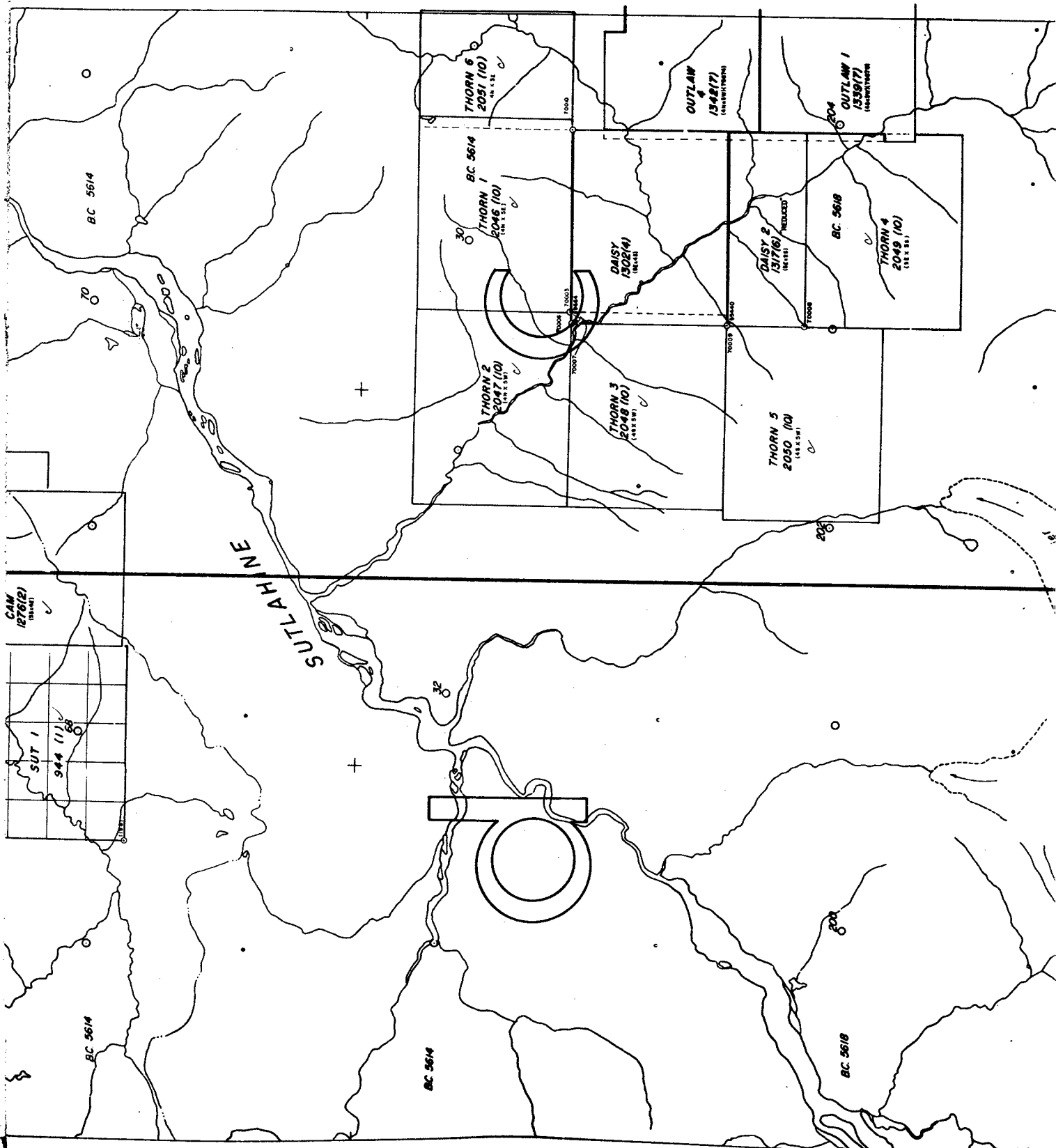


UNLESS VERIFIED OR SURVEYED, THE MAP POSITION OF A LEGAL CORNER POST IS BASED ON THE LOCATOR'S SKETCH FOR FURTHER INFORMATION, APPLY TO THE OFFICE OF THE MINING DIVISION CONCERNED.

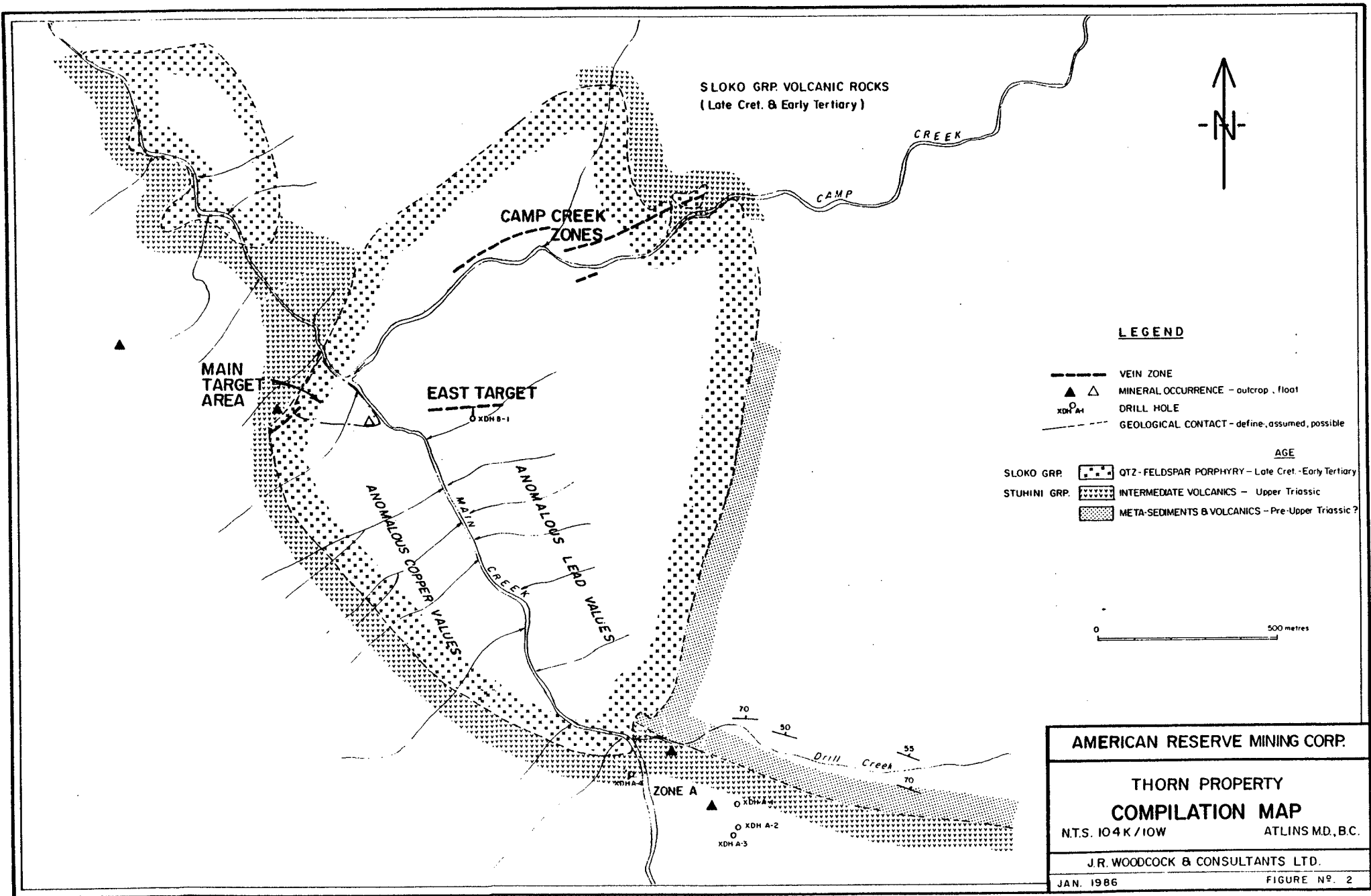
DATE OF MICROFILM: 96-02-14

IL CLAIM  
CLAIM  
M  
POST  
TAG NUMBER 0133

TO EAST SEE



TO WEST SEE



**LEGEND**

- VEIN ZONE
- ▲ △ MINERAL OCCURRENCE - outcrop, float
- XDH A-1 DRILL HOLE
- - - - - GEOLOGICAL CONTACT - define, assumed, possible

AGE

- SLOKO GRP: [stippled pattern] QTZ-FELDSPAR PORPHYRY - Late Cret - Early Tertiary
- STUHINI GRP: [cross-hatched pattern] INTERMEDIATE VOLCANICS - Upper Triassic
- [dotted pattern] META-SEDIMENTS & VOLCANICS - Pre-Upper Triassic?



<b>AMERICAN RESERVE MINING CORP.</b>	
<b>THORN PROPERTY</b>	
<b>COMPILATION MAP</b>	
N.T.S. 104K/10W	ATLINS MD., B.C.
J.R. WOODCOCK & CONSULTANTS LTD.	
JAN. 1986	FIGURE NO. 2

followed by a short helicopter flight. Helicopters are based at Atlin.

The property is centred on the intersection of two fast-flowing, deeply incised creeks; a northwest flowing main creek (La Jaune or Main Creek) flowing to the Sutlahine River and a southwest flowing tributary (Camp Creek). La Jaune Creek is too deep and swift to cross by foot and so in 1983 two foot bridges were constructed to give access to the south part of the property. Elevation at the junction of the two rugged canyons is approximately 720 m A.M.S.L. Elevations increase rapidly above the canyon floor on either side of both creeks to approximately 1800 m on the southwest corner and to 1200 m on the northeast corner of the property. A flat area at the junction of La Jaune and Camp Creeks is suitable for a drill camp.

Timberline on the property lies at 1400 metres. Much of the property at the lower levels is covered by thick coastal-style vegetation; tag elders and devil's club occur within a predominantly coniferous forest.

#### CLAIM DATA

The Thorn property currently comprises two located mineral claims which were staked in 1981 by P. Timpany as agent for Mr. J. R. Woodcock. These claims were subsequently sold outright to Inland Recovery Group Ltd.

The claims, which collectively contain 30 units, are enumerated as follows:

Daisy (20 units)	Record No. 1302	Recorded April 24, 1982
Daisy 2 (10 units)	Record No. 1317	Recorded June 15, 1981

The mapping of 1983 was submitted for assessment work. The Daisy claim is valid until 1989 and the Daisy 2 claim is valid until 1988. On April 23, 1987 an additional four years assessment was requested for each claim.

#### HISTORY

Prominent yellow-tinted alteration of an intrusive centre apparently attracted Kennco Exploration geologists to this branch of the Sutlahine River in 1959. There is no record of staking any claims as a result of this initial discovery.

In 1963 Julian Mining Company staked the Thorn property to cover mineralized outcrops in the drainage basin of the creeks. One zone that outcrops on a branch creek, (Zone A), was mapped and tested by drilling four short holes using Pack Sack equipment.

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In 1964 the property was enlarged and extensive prospecting and reconnaissance geochemical sampling was undertaken. As a result, many other mineralized occurrences were discovered. On some, hand trenching and sampling were carried out. A preliminary geological map of the core of the property was prepared.

In 1965 several gold-silver bearing quartz vein zones that outcrop along and parallel Camp Creek were mapped and sampled. Zone A on Drill Creek was geophysically and geochemically surveyed. The surveys were followed by drilling four holes (179 m) on the zone, with no encouraging results. Finally, reconnaissance soil surveys were undertaken on both sides of the Main Creek between Camp and Drill Creeks.

Subsequently, the property was allowed to lapse. The vein zones lacked adequate grade and continuity of mineralization, particularly in light of the then prevailing gold price.

In 1968 the property was restaked as the Ink Group, acquired by Montana Mines, and optioned to American Uranium Ltd. In 1969 Cordilleran Engineering, on behalf of American Uranium, cut 22 hand trenches on the Camp Creek vein zone and sampled the trenches. The firm also conducted a reconnaissance magnetic survey and carried out reconnaissance stream sediment and soil sampling. After completion of the program no further work was recommended and the property was allowed to lapse in 1970.

In 1981 J. R. Woodcock acquired the Daisy claims which were staked to cover the intrusive complex that hosts the vein zones and in 1981 he did minor rock sampling and stream sediment sampling. In 1982 he sold these claims to Inland Recovery Group Ltd.

In 1983 Mr. Douglas Blanchflower, an independent geologist, supervised a program of geological mapping, geochemistry and VLF-EM on the property. Mr. J. E. Wallis, P. Eng. of Atlin provided logistics for this work and compiled the data into a report.

In 1986, a program of detailed geological mapping and diamond drilling was conducted by Dave Nowak and supervised by J. R. Woodcock.

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## GEOLOGY

### REGIONAL GEOLOGY

The Thorn property is situated eight km to the northeast of the eastern contact of the Coast Range Plutonic Complex (Figure 1b). Physiographically the property lies on the Tahltan Highland adjacent to the Taku Plateau.

The Highland in this area is underlain essentially by Pre-Upper Triassic metamorphic sedimentary and volcanic rocks, Upper Triassic intermediate volcanic rocks of the Stuhini Group, and Lower to Middle Jurassic sedimentary rocks of the Takwahoni Formation, (G.S.C. 1971). A small granodiorite stock, probably Late Jurassic in age, intrudes those units above and to the east of the property. The youngest rocks in the area are those of the Sloko Group, Late Cretaceous to Early Tertiary in age and generally of acidic intrusive and extrusive origin.

In the Taku River region the intrusive stocks of the Sloko Group frequently represent centres of extensive pyritization associated with base and precious metal mineralization. Several small mining groups actively explored Sloko Group rocks in 1980 and 1981, principally for their potential gold content. An intrusive complex centred on the Thorn property hosts mineralization of this nature.

### PROPERTY GEOLOGY

The intrusive complex on the Thorn property is somewhat elliptical in plan, being approximately 1830 m in length and 1340 m along its short axis. Trending northwesterly along the axis of the main creek, it has been exposed by the erosion of La Jaune and Camp Creek canyons. Several smaller satellite bodies occur along La Jaune Creek to the northwest of the main intrusive body. Centred at the junction of Camp and La Jaune Creeks, the complex is apparently cored by quartz feldspar porphyry which has abundant phenocrysts. Rounded quartz phenocrysts are very prominent. Plagioclase porphyry with less plentiful quartz phenocrysts also occurs. Finer-grained acidic rocks (felsites), apparently related to the porphyry, are also present. A breccia of unknown origin, but possibly related to the intrusion, occurs on Camp Creek. The intrusive complex appears to have intruded the contact between a metasedimentary-volcanic unit and an intermediate volcanic unit.

Metasedimentary rocks have been mapped along the eastern side of the intrusion. Rocks closest to the stock have been mapped as siltstone, but limestone and chert occur at higher elevations to the east. The unit as mapped along Drill Creek at the south side of the stock strikes essentially east-west and dips  $55^{\circ}$  to  $77^{\circ}$  to the north.

Volcanic rocks of the Stuhini Group are exposed at intervals along the southwest side of La Jaune Creek and east of the intrusion on Camp Creek (Figure 2). They consist of porphyritic andesite and tuff. Attitudes are unknown. Rhyolitic volcanic rocks of the Sloko Group occur in the northeastern part of the property above Camp Creek.

In 1986 a stadia and transit base map was made and detailed geological mapping was done on a scale of 1:1000. The stock was divided into a feldspar-quartz porphyry with a northwest contact zone of a finer-grained porphyry and fewer quartz phenocrysts. Several basic dikes were also mapped cutting the porphyry and also occurring along the west contact of the stock.

Erosion surfaces, some recent and some possible pre Pleistocene, are marked by a ferricrete-conglomerate in which boulders of a number of rock types including glacial erratics are cemented by limonite and finer soil debris. Such conglomerates are conspicuous along the banks of the stream opposite the camp but also occur at higher elevations on the rusty slopes near Pad 3 and along the gully near Pad 1. These may be overlain by glacial outwash gravels that form large thicknesses in the area north of Pad 2.

#### MINERAL OCCURRENCES AND DRILL RESULTS

Pyrite mineralization occurs, extensively and erratically, throughout the intrusive complex. Some pyrite mineralization, more massive in texture, occurs along shear zones in the intrusion, frequently associated with enargite, tetrahedrite and stibnite. Numerous mineralized occurrences lie within and peripheral to the stock. Many of these are described in the various reports by Adamson, five of them will be discussed in this report. The names presently used and the letter notation of Adamson's 1964 report are included.

#### Camp Creek Vein Zones (F, M)

A prominent, northeasterly striking siliceous vein zone outcrops along the northern wall of Camp Creek. The vein zone extends in discontinuous fashion for the full width of the intrusive complex. The overall width of the vein zone is in the order of 60 metres. Parallel but shorter and narrower zones occur on the south side of Camp Creek. Hydrothermal alteration, visible as limonitic staining, silicification, and general bleaching of the intrusion envelopes all zones.

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Within the main zone at least two parallel bands of discontinuous sulphides are evident. These bands, which vary from one to ten metres in width, comprise irregular pods of pyrite and tetrahedrite with lesser amounts of enargite and stibnite. Gold and silver values range up to 0.20 oz. Au and 9.8 oz. Ag per ton. Generally, average values are low and mineralization lacks continuity.

#### The Drill Creek Zone (A)

Mineralization consisting of chalcopyrite, galena, pyrite, calcite, barite, and quartz occurs in brecciated rhyolites within andesitic volcanic rocks at the southeastern end of the intrusion (Zone A). The andesitic wall rocks are generally pyritic for some distance beyond the base metal mineralization.

In 1965 the zone was geophysically surveyed (IP) and tested by drilling four X-ray holes (179 m). Mineralized outcrops were initially sampled in 1963 by drilling four Pack Sack drill holes (79 m). The zone was not investigated further as the mineralization appeared to be discontinuous and low grade.

#### East Zone (B)

In the 1986 mapping the East Zone was divided into the East Zone and the East Extension. The East Zone consists of a number of parallel silicified vertical structures that occur within the altered porphyry over a maximum width of 30 metres. The East Extension Zone lies 200 metres east of the East Zone and may be the same zone offset by a fault. It consists of some silicified and mineralized rock in one exposure on the steep hill slope and numerous large boulders of mineralized float in the gully 20 metres to the south.

The silicified structures at the main East Zone include layers of up to six metres wide that consist of almost pure quartz with large pockets of pyrite. The drill core indicates that minor enargite or tetrahedrite occur with the pyrite. The zone strikes about 70° azimuth and can be traced along the hillside for 1200 metres, possibly with some small offsets.

In 1986 three drill holes were placed across the widest part of the zone from one site. Hole No. 3 strikes 137° azimuth and dips 45°. In addition to a number of small silicified and quartz stringers, this hole intersected a six-metre wide breccia zone of silicification and pyritization. The best intersection in this hole had a length of 10.29 metres containing 1.03 oz. per ton Ag and 0.08 oz. per ton Au. Hole No. 4, drilled at a 60° angle under Hole No. 3, did not intersect the silicified zone indicating that it is faulted off at a shallow depth. The best intersection obtained was 0.54 metres containing 1.98 oz. per ton Ag and 0.064 oz. per

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ton Au. Hole No. 5, drilled southeasterly, again intersected the silica zone with lithology similar to that in Hole No. 3. The best value obtained in this hole was 5.44 metres with 0.58 oz. per ton Ag and 0.047 oz. per ton Au.

#### The East Extension Zone (B)

At the East Extension Zone a silicified outcrop on the hill slope was trenched and sampled by Cordilleran in 1969 and returned 0.25 oz. per ton Au, 9.1 oz. per ton Ag, and 0.3% Cu across 12 feet. Six character samples taken in 1963 from the mineralized float of this zone averaged 0.202 oz. per ton Au, 8.01 oz. per ton Ag, and 1.2% Cu. In 1986 grab samples were taken from the large pieces of oxidized and mineralized boulders in the bed of the gully and these had values up to 42 oz. per ton Ag plus 0.402 oz. per ton Au, but no Cu. The boulders are highly oxidized; the effects of supergene enrichment are unknown.

In 1964 one short drill hole was spotted to intersect the extension of the outcropping quartz vein in the hope of encountering the source of the mineralized boulders. However no mineralization was intersected in the drill hole.

In 1986 two short holes were collared on the pad placed over the mineralized float in the gully. These short holes intersected fault zones containing pyrite and some chalcopyrite but no silicification. However, projected up dip, this zone would intersect the mineralized exposure. The mineralogy of the exposure with its silica and arsenopyrite differs sharply from that of the intersections in the two drill holes. Whether the type of mineralization has changed drastically down dip from the surface exposure in a distance of less than 50 metres or whether the zone intersected in the drill hole is different from that exposed on the slope uphill is not known.

#### The Main Target (B)

In 1964 prospecting on the southwest side of La Jaune Creek, on strike with Zone B, led to the discovery of massive sulphide boulders. Mineralization consisted of pyrite with appreciable tetrahedrite and enargite. A grab sample assayed 8.45% Cu, 0.64 oz. Au per ton, and 9.06 oz. Ag per ton. These boulders occurred in slide debris; their source was the overburden area in or above the slide. Some hand stripping was done but the source of the sulphide float was not found.

The mapping and prospecting by Blanchflower in 1983 led to the discovery of exposures along the southwest side of the stock which could be the source of the float. A fairly recent slide has exposed a seven-metre wide zone which contains en echelon veins of tetrahedrite, enargite, and pyrite with individual veins ranging in width from one to 15 centimetres. A chip sample taken across one metre of this zone

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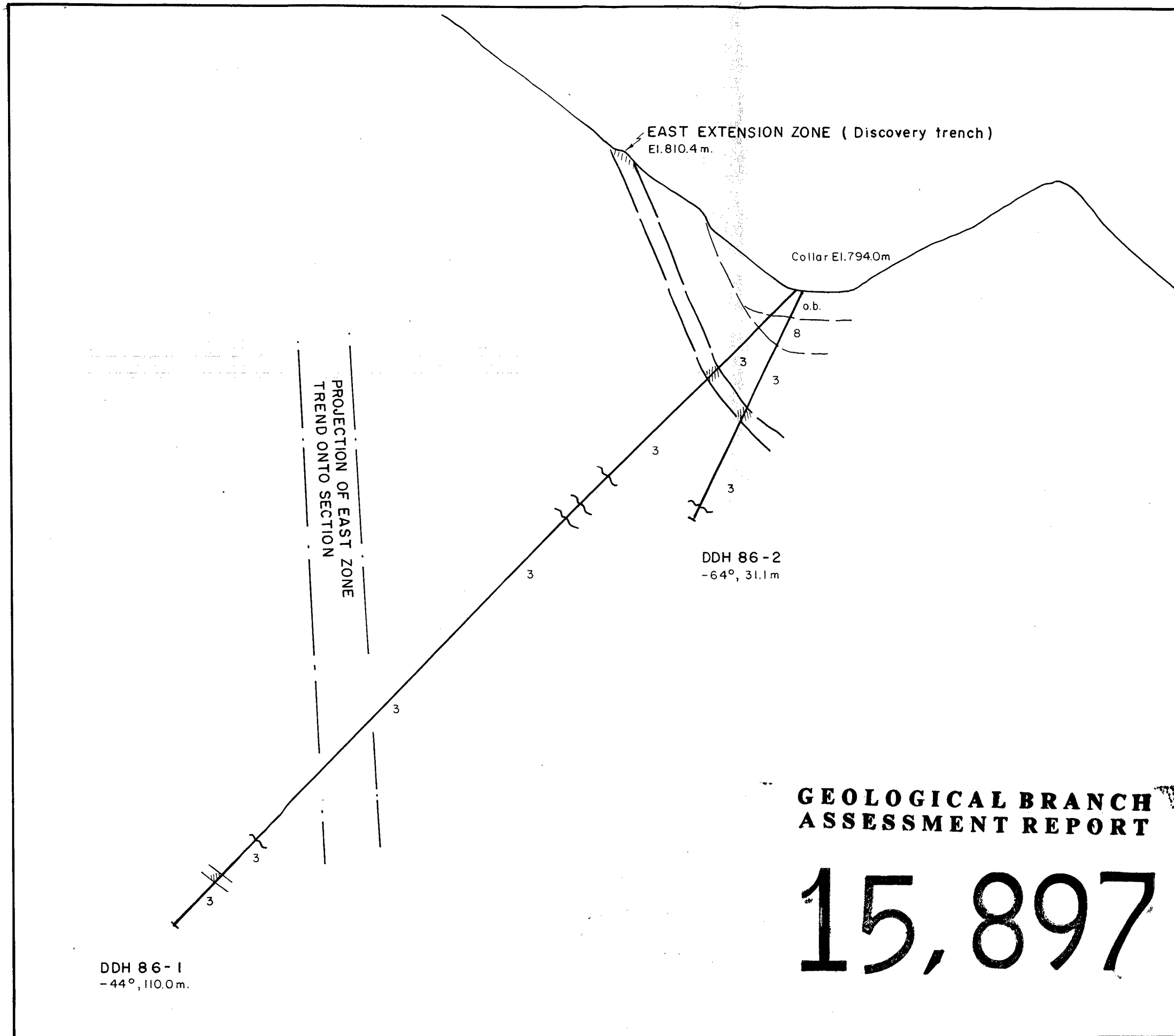
cut five of the veinlets and assayed 0.059 oz. Au per ton, 4.82 oz. Ag per ton and 4.75% Cu.

Sampling of selected lenses within this mineralized exposure by Dave Nowak in 1986 returned very high silver and copper values across very narrow lenses. Although a number of these enargite-tetrahedrite lenses occur within the exposure, the overall grade would be low.

In 1986, a hole was collared on the ridge to the southeast of the mineralized exposure and directed underneath this outcrop. Below the outcrop there was very little mineralization; however near the end of the hole and at the contact of a bounding dike on the west, some pyrite-enargite mineralization forms a stringer zone. The best value in Hole No. 6 was 2.58 metres with 3.78% Cu, 4.45 oz. per ton Ag, and 0.057 oz. per ton Au.

A hole (DDH #7) was also directed to the southeast from this pad into an area of few exposures and unknown geology but the source of some float in gullies down slope. Near the collar this hole intersected some tetrahedrite-pyrite; however most of the hole cut barren porphyry. A short hole (DDH #8) was therefore drilled from the same collar. The highest value in Hole #7 was 0.6 metres with 5.74% Cu, 7.18 oz. per ton Ag, and 0.12 oz. per ton Au. The second hole (# 8) encountered 2.2 metres containing 1.38% Cu, 3.5 oz. per ton Ag, and 0.041 oz. per ton Au.

*hole selected for sampling was split in two -  
one half for assaying and one half for retaining.*



**LEGEND**

- ob Overburden
- 8 Ferricrete
- 7 Basic dykes
- 6 Green porphyry
- 5 Feldspar quartz porphyry
- 4 Feldspar porphyry
- 3 Feldspar-biotite porphyry
- 2 Contact porphyry or tuff
- 1 Andesitic volcanics
- ////// Quartz sulphide veining
- ~~~~~ Fault

Section along azimuth 000°, looking East

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ASSESSMENT REPORT**

**15,897**

DDH 86-1  
-44°, 110.0m.

DDH 86-2  
-64°, 31.1m

AMERICAN RESERVE MINING CORP.

THORN PROPERTY  
DIAMOND DRILL HOLE SECTION  
DDH 86 - 1, 2

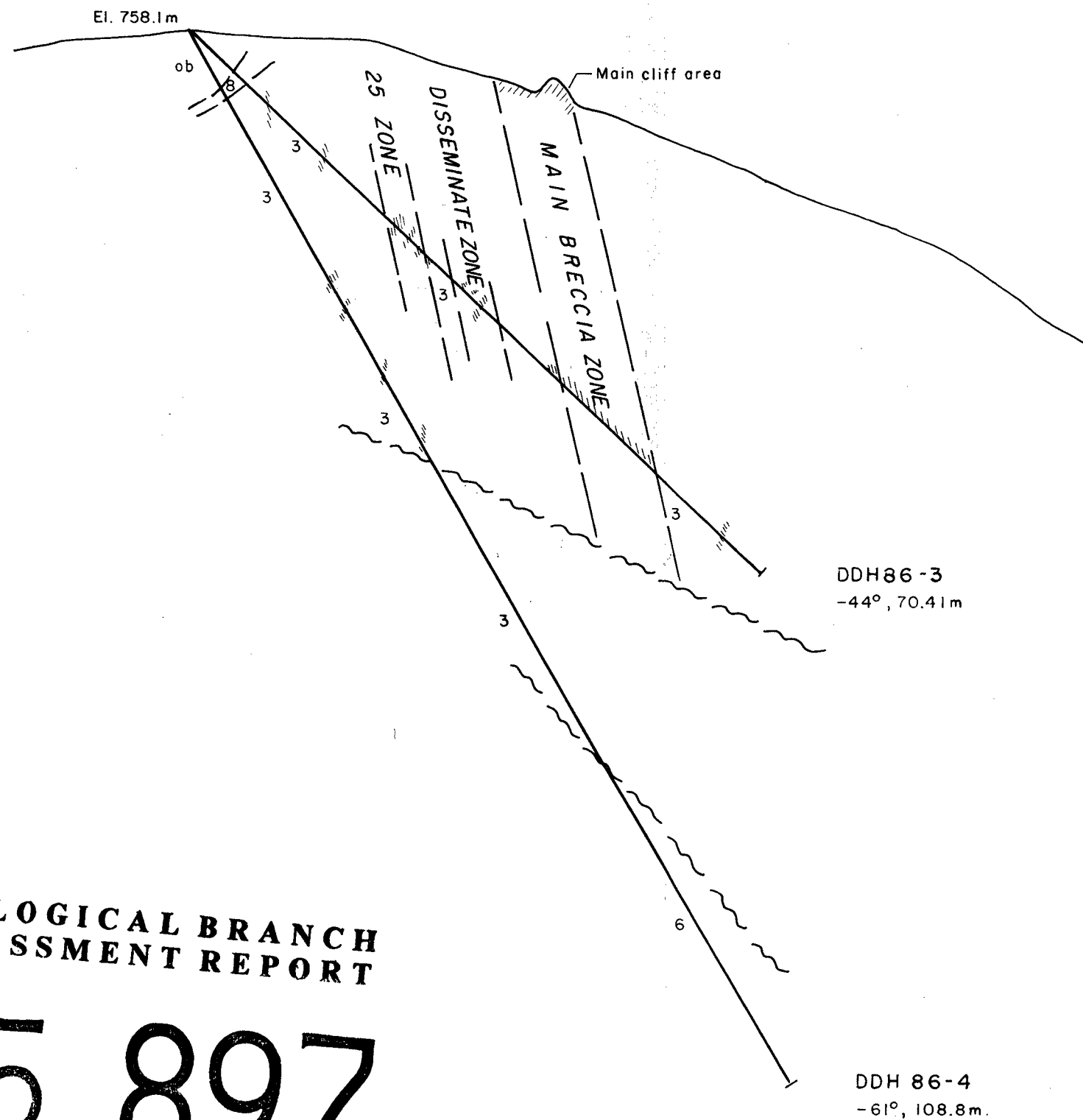
N.T.S. 104K/10W ATLIN M.D., B.C.



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MAY 1987

FIGURE No. 4



**LEGEND**

- ob Overburden
- 8 Ferricrete
- 7 Basic dykes
- 6 Green porphyry
- 5 Feldspar quartz porphyry
- 4 Feldspar porphyry
- 3 Feldspar-biotite porphyry
- 2 Contact porphyry or tuff
- 1 Andesitic volcanics
- Tetrahedrite - pyrite
- ~~~~~ Fault

Section along azimuth 138°, looking East

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,897**

AMERICAN RESERVE MINING CORP.

THORN PROPERTY  
DIAMOND DRILL HOLE SECTION  
DDH 86 - 3,4

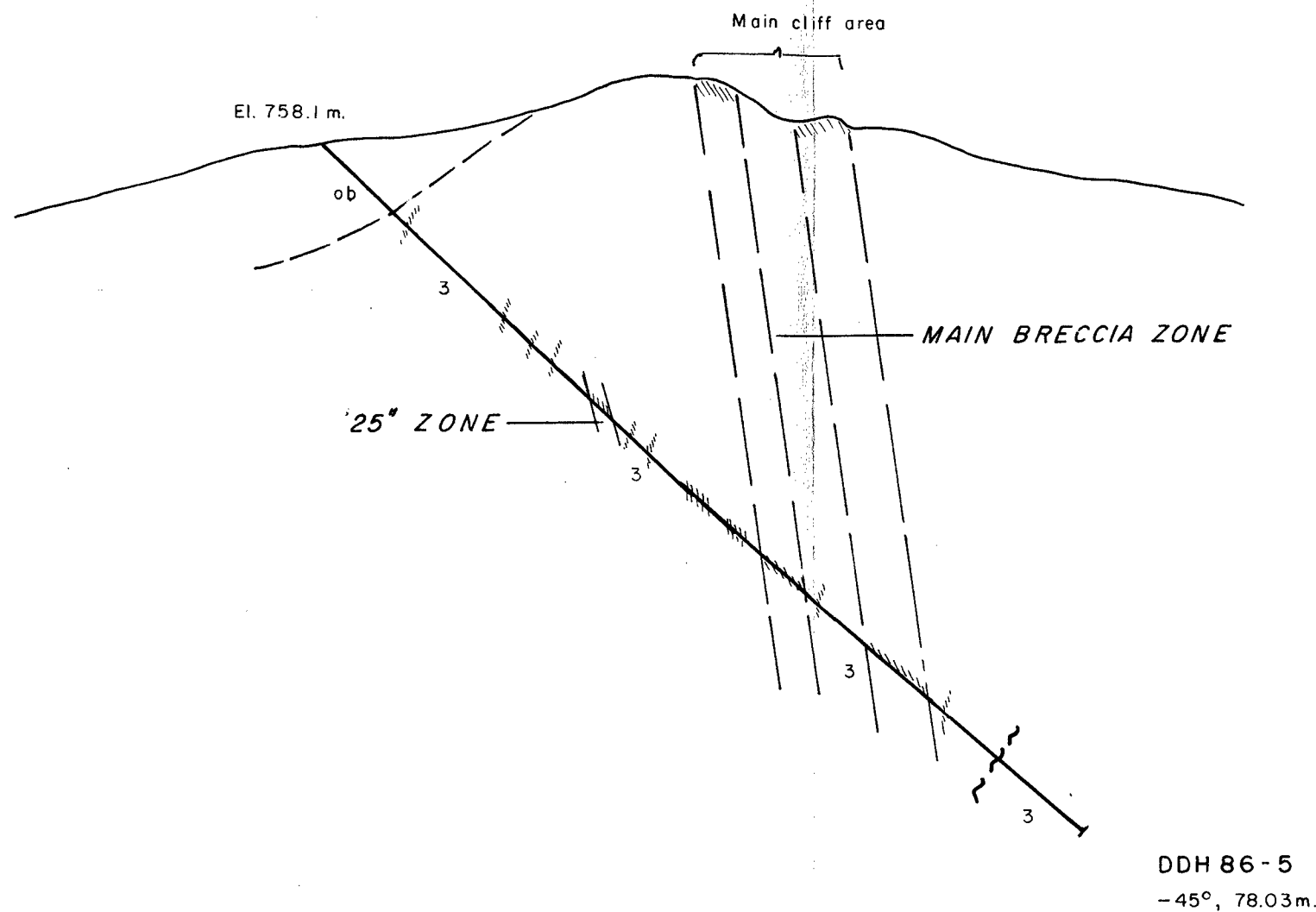
N.T.S. 104K/10W ATLIN M.D., B.C.



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MAY 1987

FIGURE No. 5



**LEGEND**

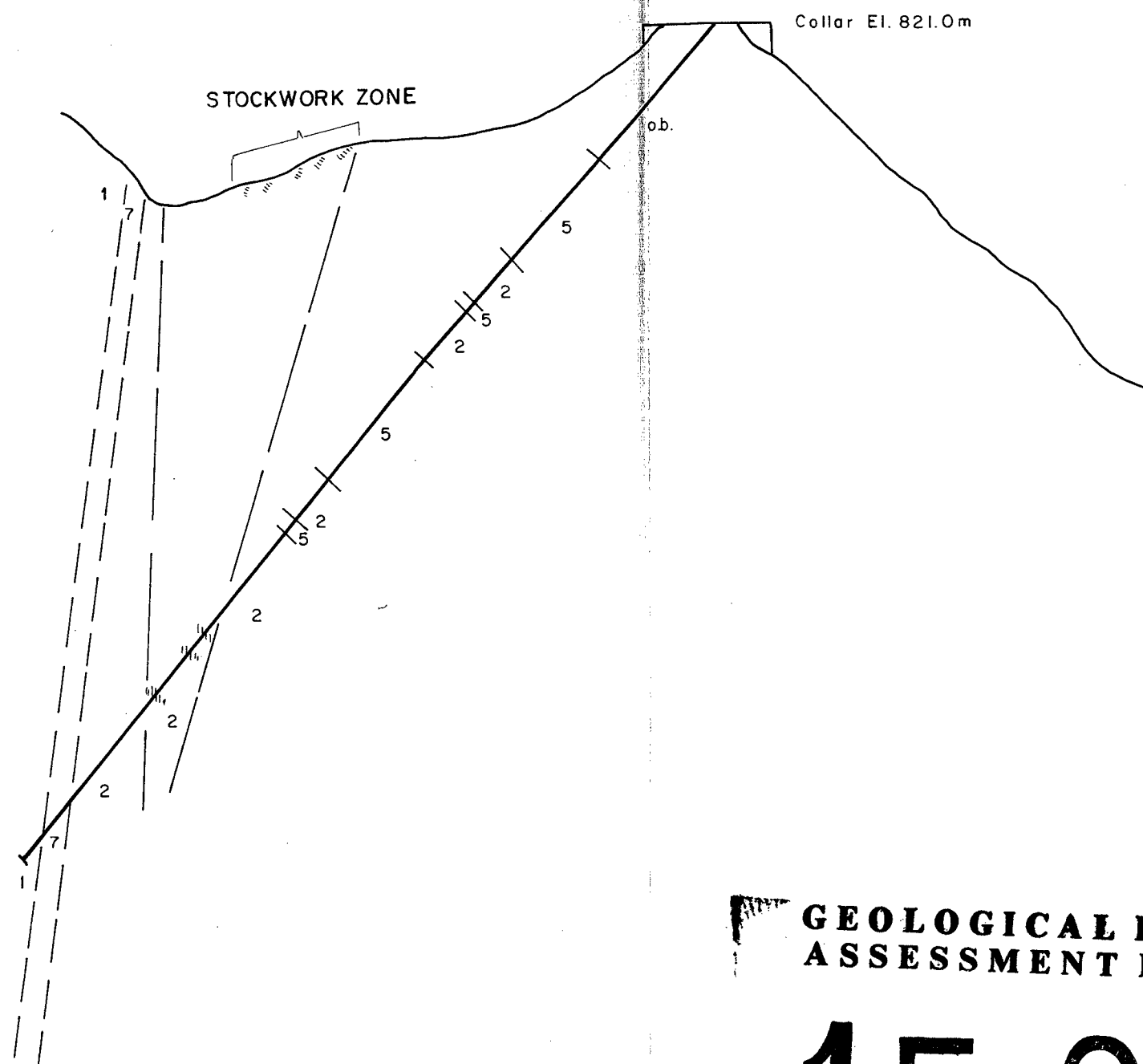
- ob Overburden
- 8 Ferricrete
- 7 Basic dykes
- 6 Green porphyry
- 5 Feldspar quartz porphyry
- 4 Feldspar porphyry
- 3 Feldspar-biotite porphyry
- 2 Contact porphyry or tuff
- 1 Andesitic volcanics
- ////// Silicified zone
- ~~~~~ Fault

Section along azimuth 108 °, looking North

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ASSESSMENT REPORT**

**15,897**

AMERICAN RESERVE MINING CORP.	
THORN PROPERTY DIAMOND DRILL HOLE SECTION DDH 86 - 5	
N.T.S. 104K/10W	ATLIN M.D., B.C.
J. R. WOODCOCK CONSULTANTS LTD.	
MAY 1987	FIGURE NO. 6



DDH 86-6  
-50°, 89.00m.

**LEGEND**

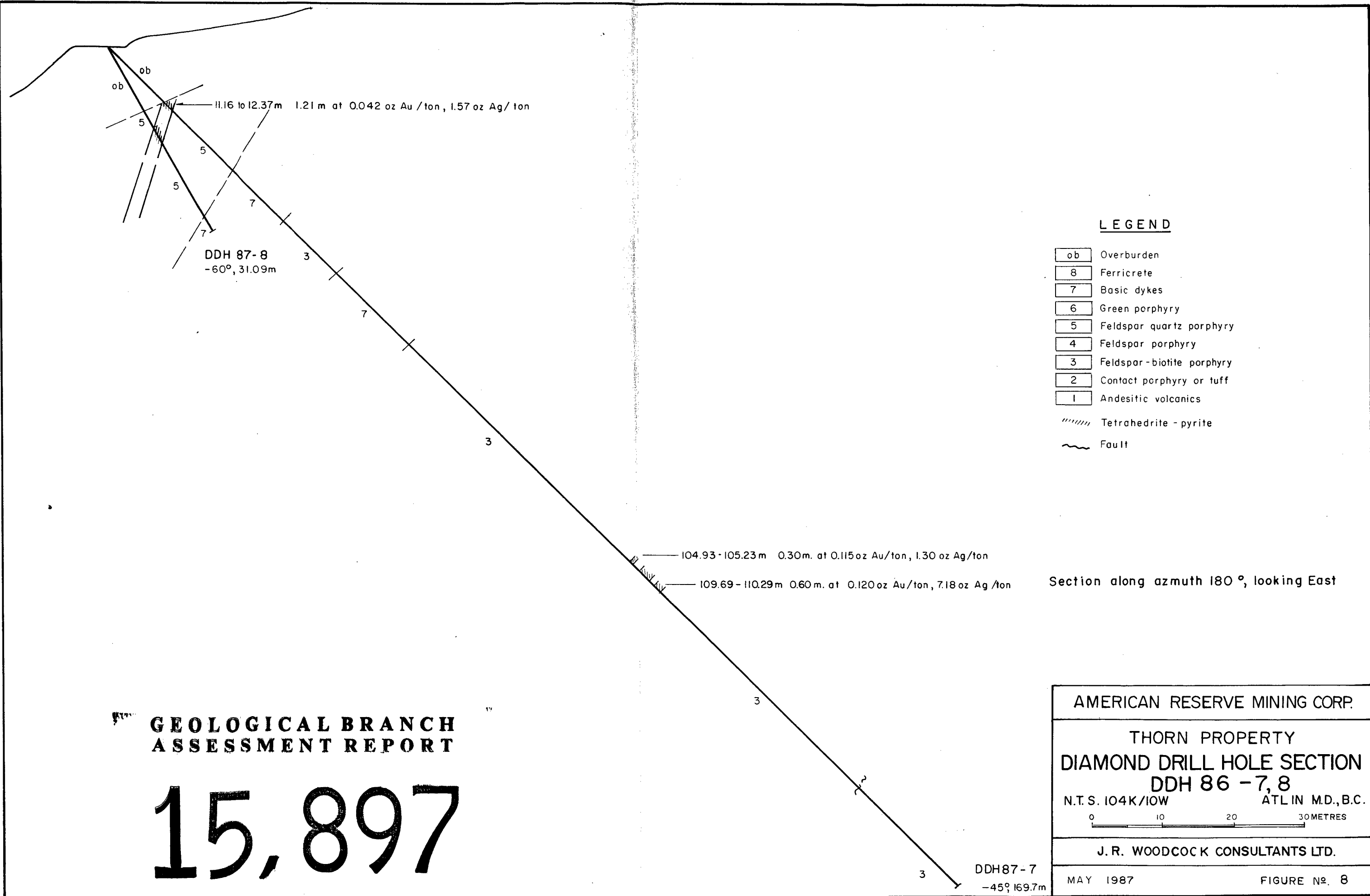
- ob Overburden
- 8 Ferricrete
- 7 Basic dykes
- 6 Green porphyry
- 5 Feldspar quartz porphyry
- 4 Feldspar porphyry
- 3 Feldspar-biotite porphyry
- 2 Contact porphyry or tuff
- 1 Andesitic volcanics
- ////// Tetrahedrite - pyrite
- ~~~~~ Fault

Section along azimuth 120°, looking North

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,897**

AMERICAN RESERVE MINING CORP.	
THORN PROPERTY	
DIAMOND DRILL HOLE SECTION	
DDH 86 - 6	
N.T.S. 104K/10W	ATLIN M.D., B.C.
0 10 20 30 METRES	
J. R. WOODCOCK CONSULTANTS LTD.	
MAY 1987	FIGURE No. 7



**GEOLOGICAL BRANCH  
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AMERICAN RESERVE MINING CORP.	
THORN PROPERTY	
DIAMOND DRILL HOLE SECTION	
DDH 86 -7, 8	
N.T.S. 104K/10W	ATLIN M.D., B.C.
J. R. WOODCOCK CONSULTANTS LTD.	
MAY 1987	FIGURE No. 8



TAB I

THORN DRILL RESULTS

<u>Hole No.</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Core Length (m)</u>	<u>Cu (%)</u>	<u>Ag (oz/ton)</u>	<u>Au (oz/ton)</u>	
<b>East Extension Zone</b>							
1	14.44	14.87	0.43	0.92	1.72	0.05	
2	15.98	18.09	2.11	0.16	0.64	0.014	
<b>East Zone</b>							
3	43.69	53.98	10.29	0.07	1.03	0.080	
4	30.20	30.74	0.54	0.04	1.98	0.064	
5	57.30	62.74	5.44	0.04	0.58	0.047	
<b>Stringer Zone</b>							
6	69.01	71.78	2.58	3.78	4.45	0.057	near stock contact
7	11.16	12.37	1.21	3.35	1.57	0.042	at collar
	and 104.33	110.29	5.96	1.34	1.25	0.033	
	which includes 104.93	105.23	0.30	0.65	1.36	0.115	
	and 109.69	110.29	0.60	5.74	7.18	0.120	
8	13.30	15.50	2.20	1.38	3.50	0.041	near collar

CONCLUSIONS

1. Mineralization and alteration at the Thorn property are associated with an intrusive-extrusive centre of Eocene Age. Alteration includes intense pyritization, generally oxidized to brilliant jarosite, sericite, kaolinite and silicification. Besides the pyrite mineralization, enargite, tetrahedrite and stibnite are widespread in the complex. These occur in altered shear zones or in structurally controlled breccia zones. Good grades of gold and silver are associated with much of the enargite-tetrahedrite.

2. The geology at this mineralized complex indicates that it is not a near surface epithermal deposit but that it conforms very closely to the enargite model. Probably the most spectacular and well known example of the enargite model is the El Indeo deposit in Chile where high grade precious metal lodes are associated with structurally controlled quartz veins and zones of intense alteration. Alteration includes silicification, argillic, and alunite-quartz-sericite types. In addition to the mill feed reserves at El Indeo totalling five million tons with an average grade of 0.3 oz. per mt Au, 3.4 oz. per mt Ag and 5% Cu, high grade shipping ore in much smaller tonnages averages 5.9 oz. per mt Au and 4.3 oz. per mt Ag.

3. In 1986 eight drill holes totalling 688 metres investigated three targets (Main target, East Zone, East Extension) over a distance of 600 metres. Because of the very steep topography suitable drill holes are limited; each target was investigated by drilling from one site.

4. At the Main target or "stringer zone" sub parallel plus a few cross-cutting veinlets of tetrahedrite-enargite-pyrite occur in the altered pyritized porphyries. Similar mineralization was encountered in the first drill hole placed under this stringer zone; however the mineralization of the hole was near the stock contact and not directly below the exposed stringer zone. Two additional drill holes were radiated out from this same drill pad and these encountered some similar mineralization near the collar. The best values of mineralization are summarized in Table I.

5. Three holes were drilled in the East Zone. Two of the shallow holes cut the silicified zones; however the deeper hole failed to intersect this wide siliceous zone indicating some fault offset at a shallow depth. The pyritic silicified-pyrite rock carried some low values in silver and gold.

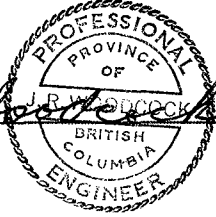
6. The East Extension may be offset by faulting from the East Zone. It consists of silicified porphyry that carries pyrite, arsenopyrite and good precious metal values. Large blocks of oxidized mineralized rock are found in the gully downslope.

JRW

Two holes collared in the gully downslope from the exposure encountered a mineralized fault zone at shallow depth. These intersections project up to the mineralized silicified outcrop. However mineralogy is completely different, consisting of pyrite and chalcopyrite with negligible precious metal values.

The limitations imposed by topography make exploration with standard drill very costly. Any further work should concentrate initially on gaining additional information on the showings themselves by setting up a portable drill on the showings and radiating out short drill holes. Such short drill holes on the East Extension Zone should indicate more accurately its attitude and extent and short drill holes along the wider East Zone should give information on the fault offsets and possible changes in grade along its strike.

*J. R. Woodcock*  
J. R. Woodcock

A circular professional seal for J.R. Woodcock, a Professional Engineer in the Province of British Columbia. The seal contains the text "PROFESSIONAL ENGINEER" around the perimeter, "PROVINCE OF BRITISH COLUMBIA" in the center, and "J.R. WOODCOCK" in the middle.

JRW:me

JRW

REFERENCES

- Adamson, R.S., B.A. Sc., November 1963; "Thorn Property Report," for Julian Mining Co. Ltd.
- Adamson, R.S., B.A. Sc., December 1964; "The Thorn Project," for Julian Mining Co. Ltd.
- Adamson, R.S., P. Eng., December 1965; "The Thorn Project, Lower Zones, 1965," for Julian Mining Co. Ltd.
- Adamson, Robert S., November 15, 1982; "The Thorn Prospect."
- Payne, J.G., September, 1983; "Petrographic Study of Thorn Specimens."
- Sanguinetti, M.H., B. Sc., Cordilleran Engineering Limited, November 24, 1969; "Report on the Ink and Lin Claims, Sutlahine River Area," for American Uranium Limited, Assessment Report No. 2512.
- Souther, J.G., 1971; "Geology and Mineral Deposits of Tulsequah Map Area, B. C.," Geological Survey of Canada Memoir 362.
- Wallis, J.E., August, 1983; "Geology, Geochemistry, Geophysics of the Thorn Property."
- Walthier, T.N., Sirvas, E., and Araned, R., October 1985; "The El Indeo Gold, Silver, Copper Deposit," E & MJ, Oct. 1985, pp. 38-42.
- Woodcock, J.R., January 19, 1982; "Report on the Thorn Property, Trapper Lake, B. C."







S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I z = Alpha Z

IDENTIFY DATA		SURVEY DATA		UPPER TIER		LOWER TIER		GEODATA		ASSAY DATA		F-ENTRY		GRAPHIC													
KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H/T TYPE	ID OF DRILLHOLE-TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	DATE AND TIME	YR	MON	DAY	HR	MIN	APT	GEOLOGGED BY	ED BY	COMPLETED	YR	MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F					
KEY	TURN CPT	000 = Colar	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA								
U	FLAG	FROM	TO	RECOVERY	T <sub>400</sub>	M <sub>100</sub>	ROCK-SOIL	TYPIFY-MAAT	GALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY									
L	R	FROM	TO	RQD	ENV	RTQ	CC	TM <sub>1</sub>	CM <sub>2</sub>	TX <sub>1</sub>	TX <sub>2</sub>	SA	RA	SH	OC	FR	MC	CL	EP	HE	Hw Amt	PR	MO	SL	Hw Amt	M1	M2
A	F	FROM	TO	RECOVERY	Sample Serial No.																						
/		59.23	59.75					X	PYTF		BR		D	DF	20												
L	R								SHEARED-BR	ZONE,	STRONG	PERVA	C	KA													
/		60.51	61.17					X	PYTF				D	CN	20												
L	R								NUMEROUS	SUB//	PY	VNLT	S	(IRRS)	WITH	TT											
/		64.66	65.07					X	VEIN				R	CN	45												
L	R								8 CM	WIDE	PY-KA	TT	VN	-SHEAR	WITH	IRRS	PATCHES	OF	PY	IN	THE	REST					
/		66.63	67.56						X	VEIN				RTCN													
L	R								MASSIVE	SX	VEIN	40 +	12	CM	SE	PADATED	BY	PYTF	WITH	VEIN	LETS	OF					
/		67.67	67.90						X	PYTF		BR		D													
L	R								BRECCIATED	ZONE	WITH	PEBBLE	PYKE.														
/		67.90	68.05						X	PYTF																	
L	R								IRRS	TT-PY	VNLT	TREND	ING	ALONG	CORE	AXIS.											
/		70.29	70.71						X	PYTF				D	CN	70											
L	R								7 MM	TT-PY	VEIN																
/		70.71	71.38						X	VEIN				RTCN		45											
L	R								MASSIVE	SX	VN	WITH	SOME	FRAGMENTS	OF	PYTF											
/		71.33	71.78						X	VEIN				R													
L	R								IRRS	PY-TT	VNLT	LESS	PATCHES														
/		73.10	82.57						X	PYTF																	
L	R								BRECCIATED	HANGING	FROM	A	CRACKLE	BEV	TO	A	FULL	TEXTURE	WITH								
/									STRONG	KA	TEXTURE	DI	PYTF	AS	MATRIX												





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KEY	TURN C/P	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB SEA																																									
U	FLAG	FROM	TO	RECOVERY	T <sub>W</sub>	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY																																										
L	R.O.D	ENV	RTQ	COLOUR	TM <sub>1</sub>	Q <sub>1</sub>	TX <sub>1</sub>	TX <sub>2</sub>	TX <sub>3</sub>	TX <sub>4</sub>	TX <sub>5</sub>	TX <sub>6</sub>	TX <sub>7</sub>	TX <sub>8</sub>	TX <sub>9</sub>	TX <sub>10</sub>	TX <sub>11</sub>	TX <sub>12</sub>																																									
A	FROM	TO	RECOVERY	Sample Serial No.																																																							
F	FROM	TO	RECOVERY	Sample Serial No.																																																							
ASASSAY RESULTS OF SAMPLES TAKEN FROM THORN DDH - S.G.C.C.																																																											
SAMPLE NUMBER																																																											
OZ/TAU																																																											
MIN-EM																																																											
OZ/TAG																																																											
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1/2 C																																																											
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25.85	26.36	TH6-01	0.001	0.42	0.130	0.46																																																					
27.63	27.56	TH6-1B	0.002	0.11	0.008	0.24																																																					
31.60	32.31	TH6-02	0.006	0.53	0.066	0.71																																																					
33.94	34.73	TH6-03	0.001	0.17	0.014	0.29																																																					
34.13	34.97	TH6-04	0.019	1.94	1.290	0.26																																																					
35.79	36.35	TH6-06	0.004	1.34	0.364	0.56																																																					
41.45	42.06	TH6-7A	0.001	0.12	0.009	0.55																																																					
48.82	49.61	TH6-7R	0.001	0.05	0.006	0.75																																																					
49.61	49.72	TH6-05	0.001	0.05	0.004	0.75																																																					
57.55	57.09	TH6-08	0.001	0.07	0.018	0.76																																																					
58.09	58.77	TH6-10	0.002	0.47	0.232	0.77																																																					
65.07	65.04	TH6-11	0.003	0.17	0.026	0.76																																																					
65.08	66.64	TH6-12A	0.012	0.75	0.910	1.51																																																					
65.65	66.64	TH6-12B	0.001	0.12	0.014	1.56																																																					
67.58	67.88	TH6-13A	0.057	1.06	0.483	1.92																																																					
67.58	67.88	TH6-13B	0.023	0.94	0.960	0.30																																																					
67.58	67.88	TH6-13C	0.001	0.17	0.088	0.77																																																					





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KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILLHOLE/TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY HR MIN	APT	GEOLOGGED BY	COMPLETED MON DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F				
I	D E N	6 B 0 5														09			
I	P R J																		
KEY	TURN/C PT	FROM	TO	F-S	O	A Z M	CLOCKWISE FROM TRUE	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA	
S																			
KEY	FLAC	FROM	TO	RECOVERY	T <sub>MOD</sub>	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUC1	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY		
L																			
U																			
A																			
F																			
		53.95	55.47	1.52					1.62						1.658				
		55.47	57.00	1.53					1.59						1.6392				
		57.00	58.53	1.52					1.49						1.7803				
		58.53	60.05	1.53					1.62						1.8588				
		60.05	61.57	1.52					1.46						1.7605				
		61.57	63.09	1.52					1.60						1.8526				
		63.09	64.62	1.53					1.52						1.9335				
		64.62	66.14	1.52					1.61						1.8592				
		66.14	67.67	1.53					1.55						1.9131				
		67.67	69.19	1.52					1.57						1.9066				
		69.19	70.71	1.52					1.48						1.9737				
		70.71	72.24	1.53					1.61						1.9523				
		72.24	73.76	1.52					1.56						1.9263				
		73.76	75.29	1.53					1.58						1.9327				
		75.29	76.81	1.52					1.50						1.9211				
		76.81	78.33	1.52					1.62						1.9658				
		78.33	79.86	1.53					1.53						1.9009				
		79.86	81.38	1.52					1.59						1.8961				
		81.38	82.91	1.53					1.44						1.9412				
		82.91	84.43	1.52					1.60						1.9526				
		84.43	85.95	1.52					1.41						1.9276				
		85.95	87.48	1.53					1.53						1.9600				
		87.48		1.52					1.56						1.9563				



















S = Alpha S    0 = Zero    1 = One    2 = Two    7 = Seven    Ø = Alpha O    I or i = Alpha I    z = Alpha Z

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILLHOLE-TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY	MIN	APT	GEOLOGGED BY	COMPLETED YR	MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS MET																																																													
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I	D	E	N	6	B	0	5																																																																								
I	P	R	J																																																																												
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Identity Data

Survey Data

Upper Tier

Lower Tier

Geodata

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F-Entry

GRAPHIC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

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IDENTIFY ENTRIES IN COL 1 TO ACTIVATE ENTRIES		IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)		H/T TYPE	ID OF DRILLHOLE/TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME	MIN	APT	BY	GEOLOGGED BY	YR	COMPLETED	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS																			
KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H/T TYPE	ID OF DRILLHOLE/TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME	MIN	APT	BY	GEOLOGGED BY	YR	COMPLETED	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS																			
I-I	DEN	6 B D 2	THORN		TH-36-103	NO	86	09	00	00	00	00	00	86	09	08			M																			
I-I	PRJ	AMERICAN RECOVERY MINING CORPORATION THORN PROPERTY ACTIVATION MINING DISTRICT																																				
KEY	TURN CPT	FROM	TO	F-S	Ø	AZM	CLOCKWISE FROM TRUE	V-ANG	NEG DOWN	STATION	OFFSET	NEG LEFT	NORTHING	NEG SOUTH	EASTING	NEG WEST	ELEVATION	NEG SUB-SEA	SUMMARY																			
S-S		000	3009			190	00	-60	00								321	00																				
U	FLAG	FROM	TO	RECOVERY	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	CP	CL	CL	YY	SUMMARY																		
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A	FROM	TO	RECOVERY	ROD	ENV	RTQ	LC	CSQ	TM1	OM1	TK1	TK2	SK	SH	SN	OC	B	H	A	Z	T1	T2	LP	AZM	DIP	QZ	BI	CY	CB	MC	XX	PY	CP	CL	YY	F1	F2	
F																																						
GRAPHIC																																						
<p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80</p> <p>R H L I D R H E D</p> <p>TEST DOWN TO CONTINUITY OF MINERALIZATION IN INTERSECTED TUBES COLLAR OF THORN-DISH-9L-7</p> <p>000 1040 RIVER P</p> <p>UNCONSOLIDATED FRAGMENTS OF VARIOUS COMPOSITION IN A SILT-CLAY MATRIX.</p> <p>000 975 RIVER D</p> <p>CASINGS INITIALLY PLACED TO 3.04 THEN LATTER RAMMED DOWN TO 9.75 1040 2550 XRCPPFX PPMV 3525 I</p> <p>WEAKLY PORPHYRITIC TO FINE GR MX, RESEMBLING PYTF IN FN GR SECTIONS. LI STAINS ON SCATTERED FRACTURE SURFACES.</p> <p>1280 1330 YRCPD D</p> <p>BROKEN CORE, HANGING WALL SAMPLE. 1330 1433 XRCPP D 1CN 40 2CN 80</p> <p>SCATTERED PYVNLS WITH I PY-KAVN (2 CM) AND A PY-KA-TVN ICM TRENDING DOWN CORE AXTS</p> <p>1433 1502 YRCPD D 1CN 20</p> <p>PARRIED SUC TISSI WITH A SIMM TO P-FVNVN. GRAD. YRS 1502 1550 XVETN R 1CN 20 V2</p> <p>40% OF VOL. ONE LAKE MYSX VEIN (SEE M) AND SILY KAL. TIPS VNS AND PATCHES. WEAK PERVASIVE STILICIOUS RAYELOS IN MAIN S.VA.</p>																																						

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I		D E N	6 B O S	T H O R N		T H - S G - O S														
I		P R J																		
S		TURN C/P 000-COM	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA	
U		FLAG	FROM	TO	RECOVERY	T <sub>100</sub> MIN	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACURE	STRUCT	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY		
L																				
A																				
F																				
/	L		15.50	15.85			Y RCLP D													
/	L		16.55	17.60			N S V E I N I N G S													
/	L		18.59	20.00			F I N G R M Y S E C T I O N													
/	L						B I R S E C T I O N													
/	L		24.82	25.50			X R C P P													
/	L		25.50	27.38			W E A K L Y B R I X													
/	L						C O N T A C T I S													
/	L		27.38	29.00			D I A B													
/	L		29.00	31.09			S I C A T T E R E D													
/	L		31.09	31.09			S A M E D E S C R I P T I O N													



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I	DEN	6805	THORN			TH-86-08									03														
I	PRJ																												
KEY	TURNS PT 000=Core	FROM	TO	F-5	O	AZM	CLOCKWISE FROM TRUE	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB SEA											
S																													
U	FLAG	FROM	TO	RECOVERY	T <sub>WOOD</sub>	ROCK-SOIL	TYPFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY												
L																													
A	FROM	TO	RECOVERY	ENV	RTQ	COLOUR	TM <sub>1</sub>	QM <sub>1</sub>	TX <sub>1</sub>	TX <sub>2</sub>	SH	RH	SK	OC	IS	IN	N	S	T <sub>1</sub>	T <sub>2</sub>	STRUC <sub>1</sub>	STRUC <sub>2</sub>	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY		
F	FROM	TO	RECOVERY	ENV	RTQ	COLOUR	TM <sub>1</sub>	QM <sub>1</sub>	TX <sub>1</sub>	TX <sub>2</sub>	SH	RH	SK	OC	IS	IN	N	S	T <sub>1</sub>	T <sub>2</sub>	STRUC <sub>1</sub>	STRUC <sub>2</sub>	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY		
AHEAD																ASSAY RESULTS OF SAMPLES TAKEN FROM THORN-DDH-86-08													
AUNT		SAMPLE		OZ AU		OZ AG		%CU		CAMPLE																			
ALAB		NUMBER		MIN-EM		MIN-EM		MIN-EM		WIDTH																			
ASER		1/2C		1/2C		1/2C																							
		1280	1330			THB-01							0.50																
		1330	1433			THB-02							1.03																
		1433	1502			THB-03							0.69																
		1502	1550			THB-04							0.48																
		1550	1585			THB-05							0.35																





S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O Iori = Alpha I Z = Alpha Z

KEY		FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H/T TYPE	ID OF DRILLHOLE/TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME	HR	MIN	APT	BY	GEOLOGGED BY	ED BY	YR	COMPLETED MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F		
I	D	E	N	6	B	2	T	H	Ø	R	N	Ø	B	6	Ø	Ø	Ø	6	Ø	Ø	Ø	Ø	Ø	
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N
I	P	R	J	A	M	L	R	I	C	A	N	R	E	S	C	R	I	V	E	M	I	N	I	N

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O Iori = Alpha I z = Alpha Z

KEY		FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H T TYPE	ID OF DRILLHOLE TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY	MIN	APT	BY	GEOLOGGED BY	YA	COMPLETED MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F															
I	/	DEN	6 B 0 2	THORIN		T11-06-27																													
I	/	PRJ																																	
U	/	TURN C PT 000 = Collar	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEG IF DOWN	STATION				OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA													
S	/	FLAG	FROM	TO	RECOVERY	T <sub>1000</sub>	M <sub>1000</sub>	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUC 1	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	CL	YY	SUMMARY														
L	/	FROM	TO	RECOVERY	ENV	RTG	LC	TM1	Qm1	TX1	TX2	Sa	Rn	Sh	OC	Y1	STRUC 2	AZM	DIP	QZ	BI	CY	CB	MG	XX	PT	CP	F1	F2						
A	/	FROM	TO	RECOVERY	Sample Serial No.																														
F	/	FROM	TO																																
L	/		21.25	23.50			X	RCP																											
R	/		24.90	36.26					EXTREMELY BROKEN SHATTERED ZONE OCCASIONAL NARROW PBDY.																										
L	/		28.50	34.15					SAME UNIT NEAR THE BOTTOM OF DDH-6.																										
R	/		31.20	31.30					CROWDED PP AMPHIBOLES																										
L	/		34.95	35.56					5 CM DIAB FRAGMENT IN GREEN MATRIX.																										
R	/								SAME AS 36.30 BUT LARGER PHENO WITH A MORE CROWDED TEXTURE.																										
L	/		36.30	45.72					FIXP PFXBT PPMX 4767																										
R	/		36.62	36.88					SAME UNIT IN THE EAST ZONE.																										
L	/		37.34	37.38					CRUSHED ZONE KA ALTERED																										
R	/		37.63	37.79																															
L	/		42.35	42.67																															
R	/		43.79	42.82					STRONG KA APPDY																										







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IDENTITY DATA		SURVEY DATA		UPPER TIER		LOWER TIER		GEOLOGIC DATA		ANALYTICAL DATA		SUMMARY																
KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILLHOLE/TRaverse NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MO	DATE AND TIME DAY	MIN	APT	GEOLOGGED BY	COMPLETED DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F												
I	DEN	6805	THORN		TH-816-07																							
J	PRJ																											
S	TURN C/P	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE	V-ANG	NEG IF DOWN	STATION			OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA								
U	FLAG	FROM	TO	RECOVERY	T <sub>1000</sub>	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRIKE	DIP	ALTERATION & MINERALIZATION DEFAULT SUITES													
L				RQD	ENV	RTQ	TM1	Q1	TX1	Gr	H	STRUCO	AZM	KF	BI	CL	EP	HE	PR	MO	SL	MM	AN	CP	GL	YY	F1	F2
A		FROM	TO	RECOVERY	Sample Serial No.																							
F		FROM	TO	RECOVERY	Sample Serial No.																							
L		116.10	116.20			YFXPP																						
R		116.70	117.37			DISCON. / VNLTS OF PT-TT-SL?																						
L		121.66	124.31			YBAXX																						
R		124.21	126.65			ZONES OF CRACKLE BR, PBDY, ANB BR.																						
L		127.15	129.84			WEAK PERVASIVE GREEN STAININGS.																						
R		130.41	130.92			THIS SECTION HAS ZONES OF CRACKLE BRXY AND FOLK BRXY.																						
L		130.92	132.55			HANGING WALL SECTION, NO VNS.																						
R		132.55	132.89			SEVERAL IRREG. SHEARS WITH LIGHT DISSEMIN.																						
L		139.23	139.50			HANGING WALL SAMPLE, NO VNS.																						
R		141.90	144.40			DECISIONAL DISCON, DK SC (TTT) VNLTY AND DISSEMINATION.																						
L		145.20	146.65			SHEAR ZONE, SLICKENSIDED, BFX & BVS THROWN THROUGH THIS SECTION.																						
R		149.90	150.18																									
L		169.47				10 CM SHEAR ZONE																						











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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	HUT TYPE	ID OF DRILLHOLE/TRaverse NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY	MIN	APT	BY	GEOLOGGED BY	YR	COMPLETED MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M.F.									
1	DEN	6 B 0 5			T 11-86207															1/0								
5		FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEG IF DOWN	STATION		OFFSET	NEG IF LEFT	NORTHING		NEG IF SOUTH	EASTING		NEG IF WEST	ELEVATION	NEG IF SUB-SEA							
U	FLAG	FROM	TO	RECOVERY	T <sub>MOD</sub>	ROCK-SOIL	TYPIFY-MAT T <sub>M1</sub> T <sub>M2</sub>	QAL-MAT QM <sub>1</sub>	TEXTURES TX <sub>1</sub> TX <sub>2</sub>	GRAIN Fz C <sub>1</sub> C <sub>2</sub> C <sub>3</sub> C <sub>4</sub> C <sub>5</sub> C <sub>6</sub> C <sub>7</sub> C <sub>8</sub> C <sub>9</sub> C <sub>10</sub> C <sub>11</sub> C <sub>12</sub> C <sub>13</sub> C <sub>14</sub> C <sub>15</sub> C <sub>16</sub> C <sub>17</sub> C <sub>18</sub> C <sub>19</sub> C <sub>20</sub> C <sub>21</sub> C <sub>22</sub> C <sub>23</sub> C <sub>24</sub> C <sub>25</sub> C <sub>26</sub> C <sub>27</sub> C <sub>28</sub> C <sub>29</sub> C <sub>30</sub> C <sub>31</sub> C <sub>32</sub> C <sub>33</sub> C <sub>34</sub> C <sub>35</sub> C <sub>36</sub> C <sub>37</sub> C <sub>38</sub> C <sub>39</sub> C <sub>40</sub> C <sub>41</sub> C <sub>42</sub> C <sub>43</sub> C <sub>44</sub> C <sub>45</sub> C <sub>46</sub> C <sub>47</sub> C <sub>48</sub> C <sub>49</sub> C <sub>50</sub> C <sub>51</sub> C <sub>52</sub> C <sub>53</sub> C <sub>54</sub> C <sub>55</sub> C <sub>56</sub> C <sub>57</sub> C <sub>58</sub> C <sub>59</sub> C <sub>60</sub> C <sub>61</sub> C <sub>62</sub> C <sub>63</sub> C <sub>64</sub> C <sub>65</sub> C <sub>66</sub> C <sub>67</sub> C <sub>68</sub> C <sub>69</sub> C <sub>70</sub> C <sub>71</sub> C <sub>72</sub> C <sub>73</sub> C <sub>74</sub> C <sub>75</sub> C <sub>76</sub> C <sub>77</sub> C <sub>78</sub> C <sub>79</sub> C <sub>80</sub>	FRAC-TURE COUNT 1 2	STRUC <sub>1</sub> ID	STRIKE A-Z M	DIP To Right To Left	ALTERATION & MINERALIZATION DEFAULT SUITES QZ BI CY CB MG EX PY CP GL YY				SUMMARY F1 F2									
A		FROM	TO	RECOVERY	R.O.D. IN METERS	ENV	RTQ	LC S <sub>DEPTH</sub>	T <sub>M1</sub>	Q <sub>M2</sub>	TX <sub>1</sub>	TX <sub>2</sub>	S <sub>1</sub> S <sub>2</sub> S <sub>3</sub> S <sub>4</sub> S <sub>5</sub> S <sub>6</sub> S <sub>7</sub> S <sub>8</sub> S <sub>9</sub> S <sub>10</sub> S <sub>11</sub> S <sub>12</sub> S <sub>13</sub> S <sub>14</sub> S <sub>15</sub> S <sub>16</sub> S <sub>17</sub> S <sub>18</sub> S <sub>19</sub> S <sub>20</sub> S <sub>21</sub> S <sub>22</sub> S <sub>23</sub> S <sub>24</sub> S <sub>25</sub> S <sub>26</sub> S <sub>27</sub> S <sub>28</sub> S <sub>29</sub> S <sub>30</sub> S <sub>31</sub> S <sub>32</sub> S <sub>33</sub> S <sub>34</sub> S <sub>35</sub> S <sub>36</sub> S <sub>37</sub> S <sub>38</sub> S <sub>39</sub> S <sub>40</sub> S <sub>41</sub> S <sub>42</sub> S <sub>43</sub> S <sub>44</sub> S <sub>45</sub> S <sub>46</sub> S <sub>47</sub> S <sub>48</sub> S <sub>49</sub> S <sub>50</sub> S <sub>51</sub> S <sub>52</sub> S <sub>53</sub> S <sub>54</sub> S <sub>55</sub> S <sub>56</sub> S <sub>57</sub> S <sub>58</sub> S <sub>59</sub> S <sub>60</sub> S <sub>61</sub> S <sub>62</sub> S <sub>63</sub> S <sub>64</sub> S <sub>65</sub> S <sub>66</sub> S <sub>67</sub> S <sub>68</sub> S <sub>69</sub> S <sub>70</sub> S <sub>71</sub> S <sub>72</sub> S <sub>73</sub> S <sub>74</sub> S <sub>75</sub> S <sub>76</sub> S <sub>77</sub> S <sub>78</sub> S <sub>79</sub> S <sub>80</sub>	STRUC <sub>2</sub> ID	A-Z M	DIP To Right To Left	KF	MU	CL	EP	HE	Hw Amt	P.R.	M.O.	SL	Hw Amt	M1	M2
F		FROM	TO	RECOVERY	Sample Serial No																							

Identity Data  
Survey Data  
Upper Tier Geodata  
Lower Tier Assay Data  
F-Entry

GRAPHIC

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data  
Survey Data  
Upper Tier  
Lower Tier  
Geodata  
Assay Data  
F-Entry  
GRAPHIC

KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILLHOLE/TRVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY	MIN	APT	BY	GEOLOGGED BY	YR	COMPLETED MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS MET		
I-I	D F N G B O B T H O R N		AMERICAN RESERVE MINING CORPORATION		TH-86-04 NQ		86	07	31	D	J	N	J B	86	07	30	08 01		M	1 01	
S	0 0 0	0 0 0			F-5 0	AZM														758.10	
U	FLAG	FROM	TO	RECOVERY	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRIKE	DIP	QZ	BI	ALTERATION & MINERALIZATION	DEFAULT SUITES	GL	YY	SUMMARY	
L		FROM	TO	R&D	ENV	RTG	COPL	TM1	QMS	TK1	TK2	TK3	TK4	TK5	TK6	TK7	TK8	TK9	TK10	TK11	TK12
A		FROM	TO	RECOVERY	Sample Serial No.																
F		FROM	TO																		
1																					
R	HED																				
R	HED																				
/		0.00	6.71																		
L	R																				
/		0.00	6.09																		
L	R																				
/		6.71	7.32																		
L	R																				
/		7.32	75.29																		
L	R																				
/		7.66	8.52																		
L	R																				
/		7.80	8.53																		
L	R																				
/		10.00	11.10																		
L	R																				
/		11.40	22.00																		
L	R																				
/																					

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or I = Alpha I Z = Alpha Z

KEY		FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB PROJECT (UNIQUE)	W/T TYPE	ID OF DRILLHOLE/TRaverse NAME AND NUMBER	SIZE OF CORE OR MOLE	YR	MON	DATE AND TIME DAY	MIN	APT	GEOLOGGED BY	COMPLETED	YR	MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F				
I	DEN		6802	THORNTON		TH0904	NO																	
S	KEY	TURN/CPT	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE	V-ANG	NEG IF DOWN	STATION			OFFSET	NEG IF LEFT	NORTHING		NEG IF SOUTH	EASTING		NEG IF WEST	ELEVATION	NEG IF SUB-SEA	
U	FLAG	FROM	TO	RECOVERY	T <sub>WOOD</sub>	ROCK-SOIL	TYPIFY-MAT	GRAIN MAT	TEXTURES	GRAIN	FRACTURE	STRAUC1	STRIKE	DIP	ALTERATION & MINERALIZATION DEFAULT SUITES								SUMMARY	
L	FROM	TO	R.O.D.	ENV	R.T.O.	LC	T.M.	Q.M.	TR.	TR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.	FR.
A	FROM	TO	RECOVERY	Sample Serial No.																				
F	FROM	TO																						
L	R		27.3	28.9																				
L	R		15.15	15.54																				
L	R		18.63	19.35																				
L	R		22.40	24.20																				
L	R		24.30	25.10																				
L	R		26.58	27.26																				
L	R		27.20	27.87																				
L	R		28.60	29.23																				
L	R		29.57	30.28																				
L	R		30.29	30.70																				
L	R		30.70	31.65																				
L	R		34.76	35.16																				
L	R		37.51	37.86																				
L	R																							

Identity Data  
Survey Data  
Upper Tier  
Lower Tier  
Geodata  
Assay Data  
F-Entry

GRAPHIC  
1 2 3 4 5 6 7

S = Alpha S    0 = Zero    1 = One    2 = Two    7 = Seven    Ø = Alpha O    I or i = Alpha I    z = Alpha Z

IDENTIFY DATA		SURVEY DATA		UPPER TIER		LOWER TIER		ASSAY DATA		F-ENTRY		GRAPHIC													
REV	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILLHOLE/TRaverse NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME	MIN	APT	GEOLOGGED BY	COMPLETED	DAY	COMMENT / REMARK	GRID NORTH	UNITS								
I	D E N	6 8 0 2	T H O I A N		T H 3 6 0 4																				
KEY	TURN CPT	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA							
U	FLAG	FROM	TO	RECOVERY	T <sub>WOOD</sub>	ROCK-SOIL	TYPIFY-MAT	QAL-MAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STAKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY								
L				RQD	ENV	RTQ	LC	OM1	TX1	TX2	FR	FR	AZM	DIP	QZ	BI	CB	MG	XX	PY	CP	CA	VY	F1	F2
A		FROM	TO	RECOVERY	Sample Serial No.																				
F		FROM	TO																						
L	R	38.27	39.83																						
L	R	41.12	41.48																						
L	R	42.56	42.71																						
L	R	45.19	46.18																						
L	R																								
L	R																								
L	R	47.41	49.30																						
L	R	49.30	52.43																						
L	R	59.07	63.00																						
L	R	61.81	62.12																						
L	R	68.50	69.07																						
L	R	71.34	71.76																						
L	R	73.96	75.29																						
L	R																								



























S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O Iori = Alpha I z = Alpha Z

KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H/T TYPE	ID OF DRILLHOLE, TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME	GEOLOGGED BY	COMPLETED	COMMENT / REMARK	GRID AZIMUTH	UNITS				
I	D E N	6 B 0 5	T-108		T-108-01									0.4				
I	P R J																	
KEY	TURN CPT	FROM	TO	F-S	O	AZM	CLOCKWISE	V-ANG	NEG IF	STATION	OFFSET	NEG IF	NORTHING	NEG IF	EASTING	NEG IF	ELEVATION	NEG IF
S	000 = Collar						FROM TRUE N	DOWN				LEFT		SOUTH		WEST		SUB-SEA
L	FLAG	FROM	TO	RECOVERY	T <sub>MOD</sub>	ROCK-SOIL	TYPIFY-MAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRAKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY	
A							TM1 TM2	QM1	TR1 TR2	Fr CI C1 MP	COUNT 1 2	ID	AZM	DIP	CY CB MG XK PT CP	GL YV	F1 F2	
F				RQD	T <sub>ML</sub>	ENV	RTQ	COPR	TM1	QM1	TR1 TR2	Sa Rn Sa	Q1	R	M	A	S1	STRUCT2
				RECOVERY	Sample Serial No													
AHEAD																		
ASSAY RESULTS OF SAMPLES TAKEN FROM THORN DDU-56-02																		
AMOUNT																		
ALAB																		
ASIZE																		
		9.47	9.63			TH3-01			0.030		4.81		0.617		0.16			
		15.73	16.30			TH2-02			0.007		1.28		0.033		0.57			
		23.99	24.40			TH2-03			0.039		6.21		1.760		0.41			
		24.23	25.05			TH2-04			0.028		2.33		0.580		0.25			
		25.15	26.01			TH2-05			0.049		1.75		0.333		0.53			
		26.01	26.414			TH3-06			0.038		2.63		0.530		0.43			
		27.73	27.70			TH2-07			0.054		2.51		0.217		0.41			
		28.70	28.30			TH2-08			0.032		0.85		0.036		0.66			
		30.23	30.25			TH2-09			0.008		0.29		0.052		0.36			
		32.23	32.80			TH2-10			0.006		0.41		0.010		0.25			
		34.57	34.23			TH2-11			0.034		0.93		0.112		0.20			
		35.77	35.82			TH2-12			0.016		0.23		0.007		0.11			
		36.70	36.41			TH2-13			0.005		0.17		0.005		0.10			
		37.03	37.30			TH2-14			0.006		0.29		0.008		0.20			









S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven 0 = Alpha O 1ori = Alpha I 2 = Alpha Z

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES																													
KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILLHOLE, TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY	HR	MIN	APR	GEOLOGGED BY	ED BY	YR	COMPLETED MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F									
KEY	TURN C/P	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB SEA	SUMMARY F1 F2										
U	FLAG	FROM	TO	RECOVERY	T <sub>MOD</sub>	ROCK-SOIL	TYPIFY-MAT TM1	TM2	QALMAT QM1	TEXTURES TX1	TX2	GRAIN F1	FRACTURE COUNT	STRUCTURE	STRIKE	DIP	ALTERATION & MINERALIZATION DEFAULT SUITES	CL	YY	F1	F2								
A	RQD	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ								
F	FROM	TO	RECOVERY	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ	ENV	RTQ								
S		91.00	110.03																										
R	HED																												
Z	OVER	0.0	14.75																										
L																													
R																													
Z		4.75	5.95																										
L																													
R																													
Z		5.95	17.10																										
L																													
R																													
Z		7.45	7.55																										
L																													
R																													
Z		7.70	7.84																										
L																													
R																													
Z		13.24	17.10																										
L																													
R																													
Z																													
L																													
R																													

Identity Data  
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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILL HOLE / TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY	MIN	APT	GEOLOGGED BY	COMPLETED BY	YR	MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS MET						
																				TURN C/P 000 = Collar	FROM	TO	F-5	O	AZM
U	FLAG	FROM	TO	RECOVERY	T <sub>100</sub>	M <sub>100</sub>	ROCK-SOIL	TYPFY-MAT TM1	TM2	QALMAT QM1	TEXTURES TX1	TX2	GRAIN Fz	FRACTURE COUNT	STRUCT ID	STAKE AZM	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY					
L	FROM	TO	R.O.D.	ENV	RTQ	LC	TM1	QM2	TX3	TXc	Se	Rn	Sn	OC	R	h	h	CL	EP	HE	PR	MO	SL	M1	M2
A	FROM	TO	RECOVERY	Sample Serial No.																					
F	FROM	TO																							
/		13.57	16.28				YFBQP																		
L																									
R																									
/		14.25	16.27				YVEZNDPTOZ																		
L																									
R																									
/		14.44	14.87				YVEINPTOZ																		
L																									
R																									
/		14.87	16.28				YFBQP																		
L																									
R																									
/		16.66	16.83				YFBQP																		
L																									
R																									
/		17.10	170.03				FXPP																		
L																									
R																									









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KEY	FLAG	FORMAT VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H/T TYPE	ID OF DRILLHOLE/TRaverse NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME DAY	HR	MIN	APT.	GEOLOGGED BY	COMPLETED BY	YR	COMPLETED DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS															
I	DEFN	6802	THORN		T1	Ø																												
I	PRJ																																	
KEY	TURN C/P	FROM	TO	F-S	Ø	AZM	CLOCKWISE FROM TRUE	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA																
U	FLAC	FROM	TO	RECOVERY	T <sub>100</sub>	M <sub>10</sub>	ROCK-SOIL	TYPFY-MAAT	QALMAT	TEXTURES	GRAIN	FRACTURE	STRUCT	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY																
L				R.O.D	ENV	RTQ	LC	TM1	GM2	TR1	TR2	SA	SH	OC	KL	HL	SL	TR	STRUC	STRUC ID	AZM	DIP	XF	MU	CL	EP	ME	Hw Amt	PR	MO	SL	Hw Amt	M1	M2
A		FROM	TO	RECOVERY	Sample Serial No.																													
F		FROM	TO																															
/		59.70	59.70				XFXPP																											
L																																		
R																																		
/		61.25	61.30				YBRXX																											
L																																		
R																																		
/		61.40	61.60				YFXPP																											
L																																		
R																																		
/		62.20	72.50				YBRXX																											
L																																		
R																																		
/		68.50	68.90				YBRXX																											
L																																		
R																																		
/		71.30	72.10				YBRXY																											
L																																		
R																																		
/		72.50	72.60				XFXPP																											
L																																		
R																																		
/		74.70	74.95				XBRXX																											
L																																		
R																																		
/		76.70	77.08				YBRXY																											
L																																		
R																																		
/		85.65	85.95				XBRXX																											
L																																		
R																																		



S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O Iori = Alpha I z = Alpha Z

INTERFERENCE COL 1 TO ACTIVATE ENTRIES		IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	H-T TYPE	ID OF DRILLHOLE TRAVERSE NAME AND NUMBER	SIZE OF CORE OR MOLE	YR	MON	DATE AND TIME DAY	HR	MIN	APT	GEOLOGGED BY	ED BY	YR	COMPLETED MON	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M/F																				
KEY	FLAG	FORMAT VERSION	FROM	TO	F-S	O	AZM	CLOCKWISE FROM TRUE N	V-ANG	NEG IF DOWN	STATION	OFFSET	NEG IF LEFT	NORTHING	NEG IF SOUTH	EASTING	NEG IF WEST	ELEVATION	NEG IF SUB-SEA																				
U	FLAG	FROM	TO	RECOVERY	T <sub>MOD</sub>	ROCK-SOIL	TIPO	TIPI	TIPII	TIPIII	TIPIV	TIPIV	TIPIV	TIPIV	TIPIV	TIPIV	TIPIV	TIPIV	TIPIV	TIPIV																			
L	FROM	TO	RQD	JM	ENV	RYO	CC	TAM	QAU	TKU	TKL	Sa	Ba	Sc	OC	h	km	k	SI	T <sub>2</sub>	STRUC2	AZM	DIP	TR	QZ	BI	ALY	CB	MG	XX	PY	CP	GL	YY	SUMMARY F1	F2			
A	FROM	TO	RECOVERY	JM	ENV	RYO	CC	TAM	QAU	TKU	TKL	Sa	Ba	Sc	OC	h	km	k	SI	T <sub>2</sub>	STRUC2	AZM	DIP	TR	QZ	BI	ALY	CB	MG	XX	PY	CP	GL	YY	SUMMARY F1	F2			
F	FROM	TO	RECOVERY	JM	ENV	RYO	CC	TAM	QAU	TKU	TKL	Sa	Ba	Sc	OC	h	km	k	SI	T <sub>2</sub>	STRUC2	AZM	DIP	TR	QZ	BI	ALY	CB	MG	XX	PY	CP	GL	YY	SUMMARY F1	F2			
AHEAD																				ASSAY RESULTS OF SAMPLES TAKEN FROM THORN-D-DH-Øb-01																			
ALAB																				SAMPLE CHEMEX CHEMEX CHEMEX SAMPLE CHEMEX CHEMEX CHEMEX																			
AWNT																				NUMBER ØZ/TAU ØZ/TAU % GU WIDTH PPM A9 PPM AS PPM CU																			
ASRE																				1/2C 1/2C 1/2C 1/2C 1/2C																			
																				13.57 14.44 TH1-01 0.002 0.15 0.02 0.87																			
																				14.44 14.87 02 0.005 0.27 0.92 0.43																			
																				14.87 16.28 03 0.1006 0.36 0.06 1.41																			
																				16.66 16.83 04 0.008 0.54 0.34 0.17																			
																				22.80 23.15 05 0.1006 0.23 0.10 0.35																			
																				52.20 52.70 06 0.60 3.6 180 422																			
																				56.10 56.70 08A 0.60 4.0 60 270																			
																				58.90 59.50 07 0.60 3.3 0.2 230 188.4																			
																				68.50 68.90 08 0.40 4.2 60 646																			
																				71.20 72.10 09 0.80 3.9 0.1 710 323.7																			
																				72.50 72.80 10 0.1002 0.03 10.01 0.30																			
																				101.37 102.41 11 0.1004 0.26 0.04 1.04																			
																				102.61 103.24 12 0.024 2.54 0.79 0.63																			

Identity Data  
Survey Data  
Upper Tier  
Lower Tier  
Geodetic  
Assay Data  
F-Entry

GRAPHIC



S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I z = Alpha Z

KEY		FLAG	FORM V. VERSION	IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE)	HIT TYPE	ID OF DRILLHOLE, TRAVERSE NAME AND NUMBER	SIZE OF CORE OR HOLE	YR	MON	DATE AND TIME	MIN	APT	BY	GEOLOGGED TO	YR	COMPLETED	DAY	COMMENT / REMARK	GRID AZIMUTH	UNITS M.F.								
I	D E N	6	B 0 5	T H O R N		T H - C 4 5 D 1	1/4																					
U	FLAG	FROM	TO	RECOVERY	T <sub>MO</sub>	ROCK-SOIL	TYPIFY-MAT	GALMAT	TEXTURES	GRAIN	FRACTURE	STRUC1	STRIKE	DIP	ALTERATION & MINERALIZATION	DEFAULT SUITES	SUMMARY											
L				R Q D	ENV	RTQ	TK	TMS	QMS	TK1	TK2	TK3	TK4	TK5	QZ	BI	CY	CB	MG	XX	PY	CP	GL	YY	F1	F2		
A		FROM	TO	RECOVERY	Sample Serial No.																							
R P E D																												
C O R E R E C O V E R Y R E C O R D																												
R P E D																												
E X P E C T E D A C T U A L P E R C E N T																												
R E C O V E R Y R E C O V E R Y R E C O V E R Y																												
		5 2 : 1 0	5 3 : 6 0	1.5 0						1.5 5				1 0 3 . 3 3	%													
		5 3 : 6 0	5 5 : 2 0	1.6 0						1.5 6				9 7 . 5 0	%													
		5 5 : 2 0	5 6 : 7 0	1.5 0						1.5 5				1 0 3 . 3 3														
		5 6 : 7 0	5 8 : 2 0	1.5 0						1.4 8				9 8 . 6 7														
		5 8 : 2 0	5 9 : 7 0	1.5 0						1.5 3				1 0 2 . 0 0														
		5 9 : 7 0	6 1 : 3 0	1.6 0						1.5 5				9 6 . 8 8														
		6 1 : 3 0	6 2 : 8 0	1.5 0						1.5 6				1 0 4 . 0 0														
		6 2 : 8 0	6 4 : 3 0	1.5 0						1.4 8				9 8 . 6 7														
		6 4 : 3 0	6 5 : 8 0	1.5 0						1.5 5				1 0 3 . 3 3														
		6 5 : 8 0	6 7 : 4 0	1.6 0						1.4 7				9 7 . 8 8														
		6 7 : 4 0	6 8 : 9 0	1.5 0						1.5 6				1 0 4 . 0 0														
		6 8 : 9 0	7 0 : 4 0	1.5 0						1.5 4				1 0 2 . 6 7														
		7 0 : 4 0	7 1 : 9 0	1.5 0						1.5 0				1 0 0 . 0 0														
		7 1 : 9 0	7 3 : 5 0	1.6 0						1.4 9				9 7 . 1 3														
		7 3 : 5 0	7 4 : 8 3	1.3 3						1.3 5				1 0 1 . 5 0														
		7 4 : 8 3	7 6 : 3 5	1.5 2						1.6 9				1 1 1 . 1 8														
		7 6 : 3 5	7 7 : 5 7	1.2 2						1.0 4				8 5 . 2 5														
		7 7 : 5 7	7 9 : 1 0	1.5 3						1.5 9				1 0 3 . 9 2														
		7 9 : 1 0	8 0 : 6 5	1.5 3						1.6 0				1 0 5 . 2 6														
		8 0 : 6 5	8 2 : 1 4	1.5 2						1.5 8				1 0 3 . 9 5														
		8 2 : 1 4	8 3 : 6 7	1.5 3						1.5 5				0 1 . 3 1														
		8 3 : 6 7	8 4 : 1 2	0.4 5						0.4 4				9 7 . 7 8														
		8 4 : 1 2	8 5 : 6 5	1.5 3						1.2 0				7 2 . 4 3														
		8 5 : 6 5	8 7 : 1 7	1.5 3						1.1 4				9 2 . 1 1														
		8 7 : 1 7	8 8 : 7 0	1.5 3						1.0 0				8 2 . 8 1														
		8 8 : 7 0	9 0 : 2 2	1.5 2						1.4 9				9 5 . 0 2														
		9 0 : 2 2	9 1 : 7 4	1.5 2						1.5 4				1 0 1 . 3 2														
		9 1 : 7 4	9 2 : 2 7	1.5 3						1.5 2				1 0 2 . 1 5														
		9 2 : 2 7	9 4 : 7 9	1.5 2						1.5 1				9 9 . 3 4														
		9 4 : 7 9	9 6 : 3 2	1.5 3						1.5 8				1 0 3 . 2 7														
		9 6 : 3 2	9 7 : 8 4	1.5 2						1.5 0				1 0 5 . 1 3														
		9 7 : 8 4	9 9 : 3 6	1.5 2						1.6 0				1 0 5 . 2 6														















THORN PROJECT COSTS

Fees

J. R. Woodcock:

Apr. 30 - May 6/86	3/4 day	
May 31 - June 9/86	2 days	
June 10 - 26/86	3 "	
July 4 - 26/86	21 "	
July 27 - 30/86	3 "	
Aug. 1 - 7/86	1 1/2 "	
Aug. 8 - 9/86	1 3/4 "	
Aug. 11 - 18/86	1 day	
Sept. 3 - 18/86	1 1/2 days	
Total	35 1/2 days	@ \$385.00/day = \$ 13,667.50

D Nowak:

June 15 - 28/86	8 1/2 days	
June 29 - Jul.12/86	12 1/2 "	
July 13 - 26/86	14 "	
July 29 - Aug. 9/86	14 "	
Aug. 10 - 23/86	12 "	
Total	61 days	@ \$175.00/day = \$ 10,675.00
+ 30% fringe benefits, overhead		<u>3,202.50</u>
		\$ 13,877.50

M. Boldt:

June 29 - Jul.12/86	12 1/2 days	
July 13 - 26/86	14 days	
Total	26 1/2 days	@ \$ 50.00/day = \$ 1,325.00

July 27 - Aug. 9/86	14 days	
Aug. 10 - 23/86	5 days	
Total	19 days	@ \$ 60.00/day = <u>1,140.00</u>
		2,465.00
+ 30% fringe benefits, overhead		<u>739.50</u>
		\$ 3,204.50

M. Earnshaw (secretarial work):

Aug. 1/86	5 hrs.	@ \$ 18.00/hr. = \$ <u>90.00</u>
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Total Fees \$ 30,839.50

Drill Charges	90,549.97
Helicopter	25,853.28
Fixed Wing	30,612.17
Lab Charges	4,129.15
Food	4,223.67
Fuel	2,935.74
Misc. Supplies & Equipment	<u>6,325.87</u>

Total Cost \$195,469.35

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**JRW**

CERTIFICATE

I, J. R. Woodcock, do hereby certify that:

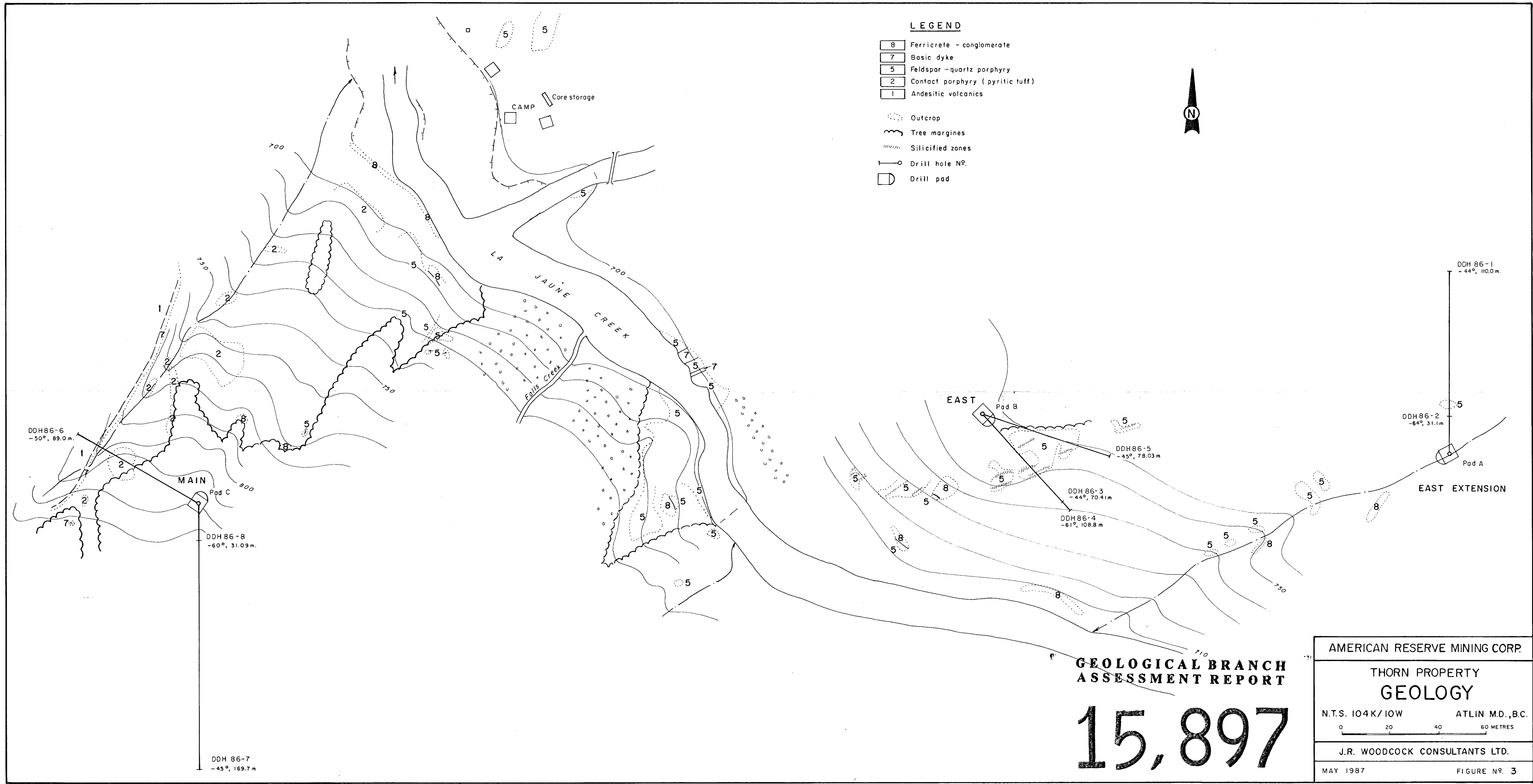
1. I am a consulting geological engineer with business address at 1226 - 510 West Hastings Street, Vancouver, British Columbia, V6B 1L8.
2. I have a Bachelor of Applied Science degree in geological engineering from the University of British Columbia and a Master of Science degree from the California Institute of Technology. I am a member of the Association of Professional Engineers of the Province of British Columbia.
3. I have worked in mineral exploration since 1953 and have been a consultant since 1969. I have worked in various parts of Canada, United States, Mexico and several other foreign countries.

Signed and sealed in Vancouver this 29th day of May, 1987.

  
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J. R. Woodcock, P. Eng.

JRW:me





**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,897**

AMERICAN RESERVE MINING CORP.	
THORN PROPERTY	
<b>GEOLOGY</b>	
N.T.S. 104K/10W	ATLIN M.D., B.C.
0 20 40 60 METRES	
J.R. WOODCOCK CONSULTANTS LTD.	
MAY 1987	FIGURE N° 3