



41010NE9200 43 CUNNINGHAM

010

DIAMOND DRILLING

TWP/AREA: Cunningham

REPORT NO. 43

WORK PERFORMED FOR: Grand America Minerals Ltd./Noranda Expl. Co. Ltd.

RECORDED HOLDER: SAME AS ABOVE

: OTHER []

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
P. 1030187	Tow-92-10	160m	Sept-Oct/92	(1)
P. 1030187	Tow-92-11	217m	Oct. /92	(1)
P. 1030188 & 1176990	Tow-92-12	255m	Oct. /92	(1)
P. 1176989	Tow-92-13	279m	Dec. /92	(1)
P. 1030187	Tow-92-14	76m	Dec. /92	(1)
P. 1030187	Tow-92-15	77m	Dec. /92	(1)
P. 1030186	Tow-92-16	77m	Dec. /92	(1)

NOTES: (1) W9360.00166, filed April 21/94

LATITUDE 1+40S

NORANDA EXPLORATION COMPANY LIMITED

Sheet No. 1 OF 5

DEPARTURE 2+15W

DIAMOND DRILL CORE LOG

Project No. 106 Hole No. TOW-92-10

ELEVATION Surface

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
71.0m	-88°		
160.0m	-87°		

Property Tower

DIP AT COLLAR -85° BEARING 150°

NTS. 410110 TWP. Cunningham Claim No P1030187

TOTAL DEPTH 160.0m CORE SIZE BQ

Date started Sept. 30/92 completed Oct. 4/92

CORE STORAGE Aunor Mine Site - Timmins

Contractor Norex Diamond Drilling

REMARKS Casing left in hole Logging Completed October 5, 1992

Logged by R. Pressacco *G.I. Kelce*

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-3.7	Casing			
3.7-13.8 VARIOLITIC BASALT	<p>Colour medium green-grey, moderately soft, non-magnetic. Massive, very fine grained to variolitic texture, some sections show a moderately well developed foliated texture. Variole abundance on the order of 1-3%, occurring as both circular and oval-shaped spots ranging up to 5mm in size. Overall, a well developed fragmental texture is easily observed with angular and sub-angular to sub-rounded fragments being matrix supported in an aphanitic, black, non-magnetic, cherty matrix. In some places, the fragmental texture is suggestive of an interval of pillowed basalt or pillow breccia.</p> <p>Lower contact is not distinct, being chosen as a point where the breccia fragments change from variolitic basalt to greywacke and chert.</p> <p>Core Angle: 30° to c.a. at 6.6m. Foliation.</p>		Rare sphalerite associated with a quartz-carbonate veinlet observed at 5.57m.	

P.A.P. - 14094

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 5

Project No. 106

Hole No. TOW-92-10

Property Tower

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>13.8-47.18</p> <p>MIXED CLASTIC SEDIMENTS AND CHERT</p>	<p>Colour variable from white, through medium grey to black, moderately soft, non-magnetic. Variably textured from fragmental to massive to weakly bedded. Well developed fragmental texture 13.8-21.4m where both fragments of white chert and grey greywacke are fragment to matrix-supported in an aphanitic black, non-magnetic matrix identical to that in the the variolitic basalt. Fragments range from angular to sub-rounded and are up to 5cm in size.</p> <p>Core Angle: 70° to ca at 24m. Bedding.</p> <p><u>24.79-26.65</u> Gabbro Dike. Colour medium to dark green, moderately soft, non-magnetic. Massive, very fine grained granular texture.</p> <p>Core Angle: 60° to ca at 31m. Bedding</p> <p><u>31.4-34.0</u> Interval of very blocky and broken up core. Section composed of mixed argillite-greywacke-chert, and many fragments have highly polished glass-like slickensides.</p> <p><u>42.30</u> 10cm sand seam present. Hole had to be cemented to pass by this seam.</p>	<p>19.17-21.3 5-7% light to medium green coloured chlorite (??) occurs in intimate association with pyrrhotite occurrence. This chlorite occurs mostly as patches within the fragmental matrix, but can also occur as stringers as well.</p> <p>34.0-41.5 Well developed bands of chloritic material are intercalated with massive to weakly bedded cherts. These chloritic bands are predominant, but some stringer chlorite is also present. Chlorite bands typically contain 10-15% disseminated and patchy pyrrhotite.</p>	<p>19.17-21.3 1-3% pyrrhotite occurs as disseminated grains and small (1cm) patches hosted by black fragmental matrix. Trace to rare disseminated chalcocopyrite associated with this pyrrhotite.</p> <p>26.65-32.0 Section of mostly well bedded argillites and greywacke contains 1-3% sulphides (py-po) mostly as disseminated grains and narrow beds.</p> <p>A 1cm band of SMSV-bedded chalcocopyrite associated with 25-30% disseminated po observed at 27.5m.</p> <p>Traces to 1% stringer, red-brown sphalerite observed at 32.44, 37.47 and 41.43m.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 5

Project No. 106 Hole No. TOW-92-10

Property Tower

Depth & Litholog-	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>47.18-133.88 GABBRO</p>	<p><u>43.57-44.33</u> Gabbro dike. Massive, fine grained granular texture. Core Angle: 60° to ca at 46.6m. Bedding.</p> <p>Colour light to medium green-grey, moderately hard, non-magnetic. Mostly massive, very fine grained granular texture, with some short sections becoming weakly to moderately well foliated. 3-5% randomly oriented quartz-carbonate veinlets. 1-3% very fine grained disseminated leucoxene, at times reaching 3-5% abundance.</p> <p><u>60.90-62.43</u> Feldspar-porphyry dike. Colour medium yellowish-grey, hard, non-magnetic. Massive porphyritic texture with 5-7% fine grained anhedral feldspar phenocrysts set in an aphanitic matrix.</p>	<p>Trace to 1% very fine grained disseminated pyrite.</p>	<p><u>41.7-47.18</u> Overall sulphide abundance 1-3% (py 95%, cpy 5%). Sulphides occur mostly as fine to very fine grained disseminations with minor to rare stringer pyrite. Chalcopyrite often intimately associated with pyrite.</p>	

PAP. E-1588

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 5
 Hole No. TOW-92-10

Project No. 106
 Property Tower

Depth & Litholog-	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>133.88-160.0 FELDSPAR PORPHYRY</p>	<p>103.53-105.0 Mixed chert and graphitic argillite. Colour black to dark grey, very hard, non-magnetic. Generally well bedded, aphanitic texture. 1-3% quartz-carbonate veinlets. Overall 1-3% sulphides (py-sph), with pyrite being predominant in the 103.53-104.35m section. 3-5% disseminated stringer and bedded sphalerite present 104.33-105.0m.</p> <p>Core Angle: 60° to ca at 104.1m. Bedding. Core Angle: 75° to ca at 103.5m. Contact. Core Angle: 65° to ca at 105.0m. Contact.</p> <p>Gabbro becomes quite coarse grained below 105.0m with 35-40% mafic phenocrysts giving a spotty texture to the core. 1-3% rounded patches of feldspar to 1-2cm in size are present below 105.0m.</p> <p>118.28-121.70 Feldspar porphyry dike. Colour medium grey, very hard, non-magnetic. Massive porphyritic texture with 15-20% anhedral to subhedral plagioclase phenocrysts set in an aphanitic matrix. Phenocrysts range from 3-5mm in size. Sharp contacts at 45° to c.a.</p> <p>Colour light yellow-grey, very hard, non-magnetic. Massive, strongly porphyritic texture with up to 35-40% plagioclase phenocrysts in an aphanitic matrix. Phenocrysts can reach 5mm in size and are mostly of anhedral to subhedral plagioclase with rare amounts of a fine mafic phenocryst present. Trace quartz-carbonate veinlets.</p>			

P.A.P. E-1558

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 5 OF 5

Project No. 106

Hole No. TOW-92-10

Property Tower

Depth & Litholog-	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
160.0	<p><u>137.5-138.83</u> Gabbro dike. Massive, very fine grained texture. Porphyry gradually becomes more yellowish in colour (sericitic alteration?) down the hole from 143.0-156.0m. Weakly developed fracture-controlled hematitic alteration present 143.0-156.0m as well. Trace to 1% disseminated pyrite 143.0-156.0m.</p> <p><u>156.21-157.0 and 159.4-159.88</u> Very fine grained gabbro dikes. 5-10% fracture controlled chloritic alteration present in the 158.0-159.0m interval.</p> <p>END OF HOLE</p>			

P.A.P. E-1558

LATITUDE 6+00S
 DEPARTURE 3+50W
 ELEVATION Surface
 DIP AT COLLAR -60° BEARING 090°
 TOTAL DEPTH 217m CORE SIZE BQ
 CORE STORAGE Aunor Mine Site - Timmins
 REMARKS Casing left in place. Logging Completed- October 9, 1992

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 1 OF 4

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
80m	-62°		
122m	-61°		
209m	-62°		

Project No. 106 Hole No. TOW-92-11
 Property Tower
 NTS. 410/10 TWP. Cunningham Claim No. P1030187
 Date started Oct. 6/92 completed Oct. 8/92
 Contractor Norex Diamond Drilling
 Logged by R. Pressacco *[Signature]*

Depth & Litholog.	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-3.0	Casing			
3.0-53.5 CLASTIC SEDIMENTS	<p>Colour variable from black to medium grey, moderately hard, non-magnetic. Overall a well bedded texture with intercalated argillites and greywackes making up the interval. The greywackes are typically much thicker than the argillite beds and can be up to 6m thick (eg. 7.8-13.5m) and have a massive texture. The argillites are up to 5-7cm in thickness. 1-3% calcite-rich quartz-carbonate veinlets.</p> <p>Core Angle: 85° to c.a. at 15.5m. Bedding. Minor cherty bands/beds/patches are present, accounting for roughly 5% of interval.</p> <p>Chert abundance gradually increases down hole.</p>	<p>Chloritic bands are prevalent throughout the unit ranging anywhere from 1cm to 10-20cm in thickness. Sulphides typically are intimately associated with these chloritic bands. Possible weakly pervasive chloritic alteration 7.8-13.5m.</p>	<p>Overall 1-3% sulphides (po 70%, py 30%) occur as disseminations and small bedding-parallel patches in the 3-30cm section. Below 30m, sulphide abundance increases to 3-5%, occurring more frequently as distinct beds and bedding-parallel patches. Some disseminated sulphides still present. Trace chalcopyrite observed with bedded sulphides at 38.7m.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 4

Project No. 106

Hole No. TOW-92-11

Property Tower

Depth & Litholog.	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>53.0-100.54 MIXED CHERT-CLASTIC SEDIMENTS</p>	<p>Colour variable from light grey to black, hard, variably magnetic depending on magnetite-pyrrhotite abundance/distribution. Generally a moderately to well developed bedded texture. This interval is mostly chert-rich, but contains 10-15% clastic sediments, mostly of argillite. 1-3% thin quartz-carbonate veinlets. Interval contains 20-25% magnetite as beds and disseminations from 53.5-80.5m. Upper contact was chosen subjectively as first appearance of magnetite and dramatic increase in chert abundance.</p> <p>Core Angle: 65° to c.a. at 67.7m. Bedding.</p> <p>Several load casts observed in magnetite beds (eg 58.7, 59.1m) suggest stratigraphic tops are towards the top of the hole.</p> <p><u>83.67-85.59</u> Feldspar porphyry dike. Colour light grey, very hard, non-magnetic. Massive, highly porphyritic texture with 25-30% anhedral to euhedral plagioclase phenocrysts. Both contacts are sharp and at a high angle to c.a.</p> <p><u>87.72-88.33</u> Diabase dike. Colour dark grey, moderately hard, non-magnetic. Massive, very fine grained texture. Some mafic phenocrysts to 0.5mm are observed.</p> <p>Core Angle: 80° to c.a. at 96.5m. Bedding.</p>	<p>Minor amounts of chloritic bands to 5cm observed.</p>	<p>1-3% sulphides (po 95%, py 5%), mostly occurring within 3-4m of upper contact as beds and bands of heavy disseminations. Trace to 1% chalcopyrite observed in the 54.9-56.2m interval. Cpy as disseminations associated with pyrrhotite.</p> <p>97.5-100.54 Sulphide abundance 10-15%, occurring as subequal amounts of pyrite-pyrrhotite. Sulphides are present as thin beds (1-3cm), bedding parallel patches, and disseminations.</p>	<p>Possible source of weak HEM conductor at 53.5-56.0m.</p>

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 4

Project No. 106 Hole No. TOW-92-11

Property TOWAR

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
100.54-128.7 DIABASE	Colour dark grey to black, non-magnetic, hard. Massive, fine grained texture with 20-30% euhedral plagioclase laths set in a mafic matrix. This gives the core a distinct "salt and pepper" texture. Unit is very fine grained within 2-3m of upper contact. Rare chloritic and quartz-calcite veinlets.			
128.7-131.32 GRAPHITIC ARGILLITE (CHERTY)	Colour black, very hard, non-magnetic. Massive texture overall with some narrow sections displaying a well bedded texture. 1-3% quartz-calcite veinlets.		5-7% pyrite occurs as thin beds, disseminations, and nodules to 1-2cm in size.	
131.32-144.47 BASALT	Colour generally a medium green-grey, hard, non-magnetic, massive, aphanitic to very fine grained texture. Some suggestions of varioles are observed within 1m of upper contact. 5-7% quartz-calcite veinlets and patches.		1-3% disseminated, patchy and fracture-controlled pyrite.	
144.47-164.0 GABBRO	Colour dark green, non-magnetic, moderately soft. Massive, medium grained porphyritic textures with 3-5mm sized rounded mafic phenocrysts set in an aphanitic mafic matrix. 1-3% plagioclase phenocrysts to 2-3m observed. Trace quartz-carbonate veinlets. Core Angle: 35° to c.a. at 144.47m. Contact.			

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 4

Project No. 106 Hole No. TOW-92-11

Property TOWER

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>164.0-185.12 DIABASE</p>	<p>Colour black, moderately magnetic, hard. Massive, fine grained crystalline texture with 30-35% plagioclase laths set in an aphanitic mafic matrix. 7-10% reddish-brown mineral observed, possible garnet.</p> <p>Core Angle: 40° to c.a. at 185.12m. Contact.</p>			
<p>185.12-217.0 BASALT</p>	<p>Colour medium green-grey, hard, non-magnetic. Massive very fine grained to aphanitic texture overall, however some coarser sections present within 3m of upper contact. Possibly amygdaloidal in places. 3-5% quartz-calcite veinlets contain 1-3% pyrite.</p> <p><u>201.33-204.60</u> Feldspar porphyry dike. Colour light to medium grey, very hard, non-magnetic. Strongly porphyritic with 30-40% anhedral to euhedral plagioclase phenocrysts.</p> <p>The host basalt takes on the appearance of a pillow breccia from 205.0-217.0m.</p> <p><u>209.4-214.24</u> Diabase dyke. Colour black, weakly magnetic, hard. Typical diabasic texture.</p>			
<p>217.0</p>	<p>END OF HOLE</p>			

LATITUDE 13+00S
 DEPARTURE 4+00W
 ELEVATION Surface
 DIP AT COLLAR -45° BEARING 090°
 TOTAL DEPTH 255.0m CORE SIZE BQ
 CORE STORAGE Aunor Mine Site - Timmins
 REMARKS Casing left in place

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
84m	-44°		
135m	-44°		
192m	-44°		
243m	-44°		

Logging Completed October 13, 1992

Sheet No. 1 OF 6

Project No. 106 Hole No. TOW-92-12

Property Tower P1030188

NTS. 410/10 TWP. Cunningham Claim No. P1076990

Date started Oct. 9/92 completed Oct 12/92

Contractor Norex Diamond Drilling

Logged by R. Pressacco *GJK*

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-8.2 CASING	Casing reamed to 9.3m.			
8.2-39.32 RHYOLITE	<p>Colour variable from medium grey to dark green depending on alteration, very hard. Massive to weakly foliated, very fine grained to aphanitic texture. Trace to 1% quartz-calcite veinlets.</p> <p><u>9.6-11.67</u> Feldspar porphyry dike. Colour medium grey, very hard, non-magnetic. Strongly porphyritic texture with 25-30% anhedral to subhedral plagioclase phenocrysts (1-3mm) set in an aphanitic siliceous matrix.</p> <p>Core Angle: 45° to ca at 15.8m. Foliation. Core Angle: 65° to ca at 39.3m. Bedding.</p>	<p>Local sections of moderate-strong chlorite alteration observed at 15.75-19.30m and 25.40-25.52m. Chlorite occurs as pervasive replacement and fracture fillings (stringer). 10-15% garnets(?) observed with alteration at 15.75m.</p> <p><u>31.5-35.0</u> Moderate to strong pervasive chlorite alteration as above.</p>	<p>1-3% po-py (po 90%, py 10%) occurs in intimate association with chlorite alteration. Sulphides occur mostly as stringers and disseminated patches.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 6

Project No. 106

Hole No. TOW-92-12

Property Tower

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>39.32-84.15 MIXED CHERT AND GREYWACKE - ARGILLITE</p>	<p>Colour variable from white through dark green to black, moderately hard to hard, variably magnetic depending on pyrrhotite content. Texture variable from moderately well bedded (39.3-48.0) to massive-weakly foliated in the more strongly chloritized sections (48-65). Aphanitic grain size throughout. Trace to 1% quartz-calcite veinlets.</p> <p>Core Angle: 65° to ca at 44.5m. Bedding Core Angle: 35° to ca at 61.5m. Alteration Foliation.</p> <p>Graded bedding in a greywacke-argillite couplet observed at 44.5m indicates a fining upward direction towards bottom of the hole.</p> <p><u>53.45-54.00 and 56.56-58.28</u> Dioritic dikes. Colour light grey, hard, non-magnetic. Massive very fine grained textures. Diffuse contacts.</p> <p>Core Angle: 75° to ca at 72.5m. Bedding.</p>	<p>Strong chlorite alteration throughout the 48-65m section, with weak to moderate chlorite elsewhere. For the most part, the chlorite appears as bands and short sections of pervasive replacement where primary lithology cannot be observed. Contacts with these sections are gradational. Some of the shorter sections (less than 5cm) appear as chlorite stringers. Most of the chlorite in this 48-65 contains a po-py-(cpy)-(sph) assemblage.</p>	<p>Overall sulphide abundances of 15-20% occurring mostly as as patchy and stringer po-py within chlorite-rich bands and stringers. Textural relationships suggest the pyrite is later than and overprints the pyrrhotite. Traces of disseminated cpy observed with some po stringers. Local sulphide abundances of 15-20% po/10cm are observed.</p> <p>63.23-63.80 SMSV, bedded po-py contains 1% combined diss. sphalerite-chalcopyrite. Section is quite heavily chloritized and exhibits some slumping textures.</p>	<p>Possible HEM conductor 63.23-63.80m.</p>

P.A.P. E-1558

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 6
 Project No. 106 Hole No. TOW-92-12

Property Tower

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>75.0-79.0</u> Short section of milky white chert, taking on the appearance of milky quartz. 1-3% disseminated po-py, 3-5% stringer and disseminated, spotty chlorite, some weakly developed stringer chlorite.</p>	<p><u>69.0-84.0</u> Moderate to strong chlorite alteration. Similar to section described above, however chlorite is more disseminated pervasive in this lower section. 3-5% sulphides (po-py-(cpy)-(sph)) with the chlorite, but are mostly as disseminated and patchy in occurrence.</p>	<p>This SMSV section is preceded by a heavily chloritized interval containing 5-7% diss. po-py (62.38-63.22m).</p> <p><u>72.45-72.64</u> Short section of massive, bedded pyrrhotite. Bed thickness on order of 3-5mm, and approx. 15-20% dark coloured material is interbedded with po.</p>	<p>HEM conductor 72.45-72.64m.</p>
<p><u>84.15-97.54</u> DIABASE DIKE</p>	<p>Colour dark grey to black, moderately hard, weakly to non-magnetic. Massive, porphyritic fine grained texture with 30-35% euhedral plagioclase laths set in an aphanitic mafic matrix. Dike is very fine grained to aphanitic within 2-3m of both upper and lower contacts. Grading into a fine grained crystalline texture towards the central part of the dike. Abundant gouge/blocky core 97.0-97.5m.</p>			
<p><u>97.54-116.72</u> MIXED CHERT & TUFFACEOUS SEDIMENT</p>	<p>Colour variable from white to medium grey, to yellowish-beige, very weakly magnetic (due to very fine grained pyrrhotite?), variable hardness from soft (tuffaceous sediments) to very hard</p>		<p>Overall 1-3% sulphides (po 70%, py 30%), occurring mostly as bedding-parallel patches and disse-</p>	

P.A.P. - E-1058

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 4 OF 6

Project No. 106

Hole No. TOW-92-12

Property Tovar

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>116.72-255.0 BASALT</p>	<p>(cherts). Weakly to moderately well developed bedded texture. Roughly 60% of the interval is chert, with the tuffaceous sediments occupying the 104.0-106.5m interval. These sediments are sericitic in appearance and appear to be inter-laminated with cherts. 1-3% quartz-calcite veinlets throughout.</p> <p>Core Angle: 65° to ca at 103.5m. Bedding.</p> <p><u>99.6-100.41</u> Feldspar porphyry dike. Colour medium to dark grey, very hard. Well developed porphyritic texture with 20-25%, fine grained rounded plagioclase phenocrysts.</p> <p>Section becomes dominated by graphitic argillite from 114.4-116.0m.</p> <p>Core Angle: 65° to ca at 116.5m. Bedding.</p> <p>Colour medium grey, moderately hard to very hard, non-magnetic. Weakly foliated, very fine grained granular texture. Some suggestion of development of a pillow breccia is observed within 1-2m of upper contact. 3-5% (7%) quartz-calcite veinlets. Unit starts off as a very fine grained basalt, but gradually coarsens to a fine grained texture below roughly 120m, until approximately 140m where the grain size grades back to very fine grained to aphanitic. 1-3% very fine disseminated leucoxene.</p>		<p>minations. Pyrite gradually becomes greater than pyrrhotite in abundance towards the end of the section.</p>	

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 5 OF 6

Project No. 106

Hole No. TOW-92-12

Property TOWER

Depth & Litholog,	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
	<p><u>164.09-164.45</u> Interbedded graphitic argillite and minor greywacke. Colour black, moderately soft, non-magnetic. Moderately well developed bedded texture. Trace to 1% disseminated, bedding-parallel pyrite. Upper contact is irregular, lower contact sharp, suggesting upper contact marks a flow top (stratigraphic tops towards bottom of hole).</p> <p>Core Angle: 60° to ca at 164.4m. Bedding.</p> <p>Section from 164.45-174.48 consists of a fine grained, leucoxene-bearing basalt. Gradational grain size from aphanitic at contacts to fine grained in the center.</p> <p><u>174.48-175.97</u> Feldspar porphyry dike. Colour medium grey, hard, non-magnetic. Massive, porphyritic texture. 10-15% rounded, medium grained plagioclase phenocrysts are set in an aphanitic matrix.</p> <p><u>178.5-179.95</u> Interbedded graphitic argillite and greywacke. Strongly developed fault gouge/highly blocky core 178.5-179.0m. Feldspar porphyry dike 179.0-179.5m.</p> <p><u>184.2-186.0</u> Graphitic argillite. Colour black, moderately soft. Weakly to moderately well developed bedded texture. 3-5% sulphides (py 50%, po 50%) occur as patches, stringers and fine grained disseminations.</p>			

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 6 OF 6

Project No. 106

Hole No. TOW-92-12

Property TOWER

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
255.0	<p>Core Angle: 60° to ca at 185.6m. Bedding.</p> <p>Quartz-carbonate abundance in host basalt increases to 10-15% abundance in the 189-199m section. Occasional, rounded patches of glomeroporphyritic plagioclase are present in the basalt below 186m.</p> <p>END OF HOLE</p>			

P.A.P. - E-1550

LATITUDE L9+00S
 DEPARTURE 6+60W
 ELEVATION Surface
 DIP AT COLLAR -75° BEARING 090°
 TOTAL DEPTH 279m CORE SIZE BQ
 CORE STORAGE Timmins
 REMARKS _____

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
collar	-75°		090°
160m	-71°		090°
260m	-69°		090°

Logging Completed- December 6, 1992

Sheet No. 1 OF 3
 Project No. 106 Hole No. TOW92-13
 Property TOWER
 NTS. 41 0/10_{TWP} Cunningham Claim No. P1076989
 Date started Dec. 1/92 completed Dec. 5/92
 Contractor Bradley Bros.
 Logged by L.A. Tihor *L.A. Tihor*

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-4.0 CASING				
4.0-14.8 CHERTY ARGILLITE	With minor siliceous tuff interbeds.	Variably silicified.	10.5-13.5 Minor nodular and veinlet pyrite.	7.0 Bedding and foliation 65° to c.a.
14.8-48.6 BASALT	Massive grey-green basalt with feldspar porphyry dykes at 19.4-21.7 and 33.6-35.9m.	Variably silicified, esp. at 42.8-43.1m.		
48.6-59.7 TUFFS	Felsic to intermediate tuffs or fine debris flows; includes minor chert and argillite.	Common sparse dolomitic veinlets.	Scattered trace pyrite.	
59.7-60.7 BASALT	Dark grey-green, fine grained, massive basalt.		Minor pyrite, pyrrhotite throughout.	

P.A.P. 14084

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 3

Project No. 106 Hole No. TOW-92-13

Property TOWER

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
<p>60.7-197.5 CHERTY TUFF- ARGILLITE</p>	<p>Interbedded chert, tuff ± argillite includes feldspar porphyry dykes at 167.5-169.0m and 188.3-191.2m. Numerous graphitic slips in argillite. Narrow streaks and beds pyrrhotite and minor cpy throughout.</p>	<p>"Chert" may be in part silicification. 156.0-197.5 Light yellow-green sericitic alteration.</p>	<p>64.6-74.2 Minor pyrite-pyrrhotite includes 65.7-66.6m near massive pyrrhotite + pyrite + trace sph. 71.1-71.2 30% pyrrhotite and minor cpy.</p>	<p>72.0 Bedding 65° to c.a. 95.0 Bedding 65° to c.a. 156.0 Bedding 65° to c.a. 170.0 Bedding 77° to c.a.</p>
<p>197.5-250.8</p>	<p>Grey-green massive basalt.</p>		<p>125.6-126.1 Massive bedded pyrrhotite-pyrite and minor cpy. 132.4-133.8 Massive bedded pyrrhotite-pyrite including 132.95-133.05 >2% cu. 140.7-141.2 Massive to near massive bedded pyrrhotite-pyrite with minor cpy.</p>	<p>252.0 Bedding 67° to c.a.</p>
<p>250.8-252.8 GRAPHITIC ARGILLITE</p>	<p>Interflow sediment.</p>			

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 3 OF 3

Project No. 106 Hole No. TOW-92-13

Property TOWER

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
252.8-253.9 BASALT	As above.			
253.9-255.0 GRAPHITIC ARGILLITE	Interflow sediment.		pyritic, graphitic	
255.0-259.6 BASALT	As above.			
259.6-266.4 FELDSPAR PORPHYRY	Grey, white spotted.			
266.4-279.0 BASALT	As above with minor calcite veinlets.			
279.0	END OF HOLE			

P.A.P. E-1958

LATITUDE L1+90S
 DEPARTURE 2+25W
 ELEVATION Surface
 DIP AT COLLAR -85° BEARING 090°
 TOTAL DEPTH 76.0m CORE SIZE BQ
 CORE STORAGE Timmins

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
<u>No acid tests</u>			

Sheet No. 1 OF 2
 Project No. 106 Hole No. TOW92-14
 Property TOWER
 NTS. 41 0/10 TWP. Cunningham Claim No. P1030187
 Date started Dec. 5/92 completed Dec. 6/92
 Contractor Bradley Bros.
 Logged by L.A. Tihor *[Signature]*

REMARKS Logging Completed- December 7, 1992

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-1.0	Casing			
1.0-16.5 GRAPHITIC CHERTY SEDIMENTS	Interbedded chert, brecciated chert, graphitic argillite. Minor graded sediments suggest stratigraphy tops downhole.		Minor pyrite as disseminated nodules, streaks, beds in graphite and minor pyrrhotite.	@ 9m bedding 76° to c.a.
16.5-22.6 FELDSPAR PORPHYRY	Grey with white feldspar phenocrysts.			
22.6-36.1 BASALT	Fine to medium grained grey-green basalt.			
36.1-57.9 CHERTY GRAPHITIC SEDIMENTS	Interbedded chert, graphitic argillite. Soft sediment deformation with rip up clasts common.		Minor pyrite in graphite as above and minor pyrrhotite. Traces cpy occur with minor pyrrhotite throughout sediments.	@ 38m bedding 80° to c.a. @ 51m bedding 72° to c.a.

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 2

Project No. 106

Hole No. TOW-92-14

Property TOWER

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
57.9-71.5 BASALT	From 57.9 to 70.0m contains minor calcitic veinlets. Also minor quartz in calcite veinlets from 57.9 to 61.0m.		52.0-57.9 Pyritic quartz stockwork and silicification.	
71.5-75.2 FELDSPAR PORPHYRY	As above.		Trace disseminated pyrite cubes in calcite/quartz veinlets.	
75.2-75.7 BASALT	As above.			
75.7-76.0 FELDSPAR PORPHYRY	As above.			
76.0	END OF HOLE			

P.A.P. - E-1588

LATITUDE L1+40SDEPARTURE 2+65WELEVATION SurfaceDIP AT COLLAR -85° BEARING 090°TOTAL DEPTH 77.0m CORE SIZE BQCORE STORAGE Timmins

REMARKS _____

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
No acid tests			

Sheet No. 1 OF 2Project No. 106 Hole No. TOW92-15Property TOWERNTS. 41 0/10 TWP. Cunningham Claim No. P1030187Date started Dec. 6/92 completed Dec. 7/92Contractor Bradley Bros.Logged by L.A. Tihor *L.A. Tihor*Logging Completed December 6, 1992

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-1.0	Casing			
1.0-59.4 GRAPHITIC CHERT	Chert, commonly deformed and brecciated, interbedded with siliceous graphitic argillite and non-graphitic argillite. <u>34.1-59.4</u> Incorporates abundant bleached carbonated mud balls.		Scattered minor pyrrhotite and pyrite with trace cpy. 25.5-40.0 Sparse calcite/quartz stockwork. 26.4-26.8 15% pyrrhotite network and trace cpy.	@ 17m bedding and foliation 35° to c.a. @ 52m bedding 80° to c.a.
59.4-65.1 FELDSPAR PORPHYRY	Intensely brecciated and recemented with quartz stockworks.		Disseminated and streaks pyrite and trace sphal. and gal. in quartz.	
65.1-66.2 GRAPHITIC CHERT	As above but less deformed.		Minor pyrite in calcite/quartz veinlets as in F.P. above.	@ 66m bedding and foliation 65° to c.a.

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 2

Project No. 106

Hole No. TOW-92-15

Property TOWER

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
66.2-77.0 BASALT	Grey-green, massive, fine to medium grained.	Faint fuchsitic alteration and weak quartz carbonate stockworks from 66.2-68.5m.		
77.0	END OF HOLE			

P.A.P. - E.1556

LATITUDE line 0+90S
 DEPARTURE 2+40W
 ELEVATION Surface
 DIP AT COLLAR -85° BEARING 090°
 TOTAL DEPTH 77.0m CORE SIZE BQ
 CORE STORAGE Timmins

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Test Depth	Dip	Magnetic Bearing	Corrected Bearing
No acid tests			

Sheet No. 1 OF 2

Project No. 106 Hole No. TOW92-16
 Property TOWER
 NTS. 41 0/10 TWP. Cunningham Claim No. P1030186
 Date started Dec. 7/92 completed Dec. 8/92
 Contractor Bradley Bros.
 Logged by L.A. Tihor *L.A. Tihor*

REMARKS Logging Completed- December 9, 1992

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
0.0-1.0	Casing			
1.0-13.9 VARIOLITIC BASALT	Well developed pillow breccia. Rare varioles to 2mm.			
13.9-18.0 CHERTY GRAPHITIC ARGILLITE	Very cherty near top, mostly sulphitic graphitic argillite near bottom of section.		15.3-18.0 Extremely fine grained, brownish seems rich in very fine grained sulphide and minor veinlets and disseminated pyrrhotite-cpy.	@ 14m bedding 55° to c.a. @ 23m bedding 50° to c.a.
18.0-19.2 FELDSPAR PORPHYRY	Massive, grey.			
19.2-41.9 CHERTY GRAPHITIC ARGILLITE	Generally sparsely to non-pyritic except near contact with basalt siliceous broken up and is more pyritic in moderate to sparse quartz stockwork.		37.4-41.9 Very siliceous, broken up and moderate pyritic in quartz stockwork.	@ 35m bedding and foliation 35° to c.a.

NORANDA EXPLORATION COMPANY LIMITED
DIAMOND DRILL CORE LOG

Sheet No. 2 OF 2

Project No. 106 Hole No. TOW-92-16

Property TOWER

Depth & Lithology	Description (colour, grain size, texture, structure, etc.)	Alteration	Mineralization	Remarks
41.9-53.0 BASALT	Grey massive to lightly foliated basalt.			
53.0-53.3 FELDSPAR PORPHYRY	Brecciated, silicified grey F.P.			
53.3-77.0 BASALT	Grey-green, massive fine to medium grained basalt, sparse calcite veinlets throughout.			
77.0	END OF HOLE			

200W

P-1030187

TOW9210

Az 090 →

0

0

-85

Overburden

Basalt, variolitic

Graywacke-Chert, mixed

Sabbro

Feldspar Porphyry

180.00 m.
TOW9210

-100

-100

Note: Hole drilled at Az 150 & projected onto section



-200

-200

200W

TOWER PROPERTY
SECTION T408
SCALE: 1/1000
DRILL SECTION
DCH TOW 92-10
NORANDA EXPLORATION

300W

P-1030187

0 TOW9211

Az 090 →

0

-60

Overburden
Argillite-Graywacke, intercalated

Chert-Argillite-magnetite bands, 1-32ppm

-100

Diabase

-100

Graphitic Argillite, cherty

Basalt, massive

Gabbro

Diabase

Basalt, massive

-200

Diabase
Basalt, pillow breccia
217.00 m.
TOW9211

-200



300W

TOWER PROPERTY
SECTION 6008
SCALE: 1/1000
DRILL SECTION
DDH TOW 92-11
NORANDA EXPLORATION


400W

300W

P-1176990

P-1030189

0 TOW9212

Az 090 

0

-45

Overburden

Rhyolite, loc. chloritic with 1-3% py

Chert-Graywacke-Argillite, loc. chloritic 10-12% py

Diorite

Chert-Tuffaceous Sediment, 1-3% py

-100

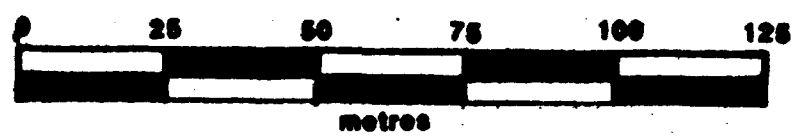
-100

Basalt, leucocrystic

-200

-200

255.00 m.
TOW9212



400W

300W

TOWER PROPERTY
 SECTION 13008
 SCALE: 1/1250
 DRILL SECTION
 DCH TOW 92-12
 NORANDA EXPLORATION

6000

5000

P-1176989

TOW9213

Az 090 →

0

0

-75

Overburden

Cherty Argillite

Basalt. massive

Tuff. foliate to intermediate

Basalt. massive

-100

-100

Cherty Tuff-Argillite

-200

-200

Basalt. massive

Graphitic Argillite

Basalt. massive

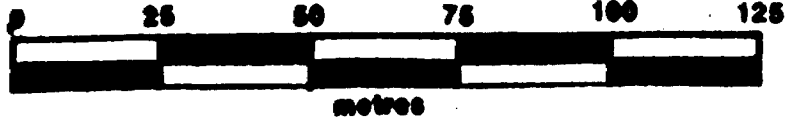
Feldspar Porphyry

Basalt. massive

279.00 m.
TOW9213

6000

5000



TOWER PROPERTY
 SECTION 9008
 SCALE: 1/1250
 DRILL SECTION
 DCH TOW 92-13
 NORANDA EXPLORATION

P-1030187

200V

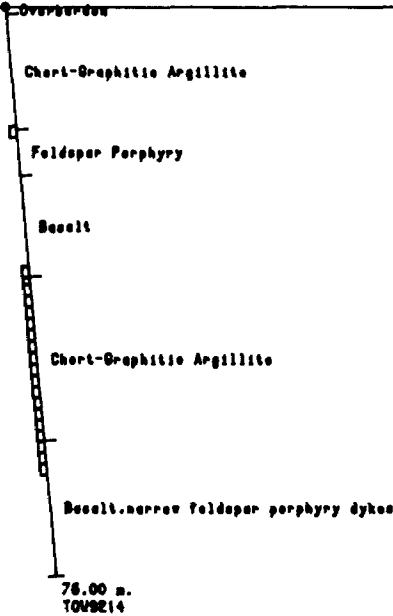
TOW9214

Az 090 

0

0

-85



-100

-100



-200

-200

200V

TOWER PROPERTY
SECTION 1908
SCALE: 1/1000
DRILL SECTION
DCH TOW 92-14
NORANDA EXPLORATION

300W

200W

P-1030187

0

TOW9215

Az 090 →

0

-85

Chert-Graphitic Argillite

Folded Porphyry

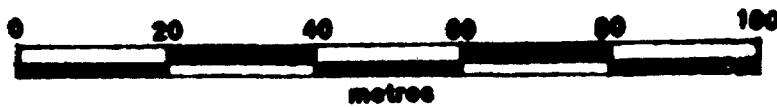
Chert-Graphitic Argillite

Basalt. massive

77.00 m.
TOW9215

-100

-100



-200

-200

300W

200W

TOMER PROPERTY
SECTION 1408
SCALE: 1/1000
DRILL SECTION
DDH TOW 92-15
NORANDA EXPLORATION

300W

200W

P-1030186

0

TOW9216

Az 090 →

0

-85

Overburden

Basalt, variolitic

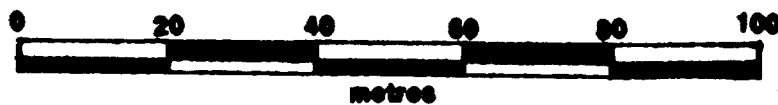
Cherty Graphitic Argillite

Basalt, massive

77.00 m.
TOW9216

-100

-100



-200

-200

300W

200W

TOWER PROPERTY
 SECTION 908
 SCALE: 1/1000
 DRILL SECTION
 DDH TOW 92-16

NORANDA EXPLORATION



Ministry of
Northern Development
and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

W9360-00166

ASSENT FILES

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

Instructions: - Please type or print and submit in duplicate.



41010NE9200 43 CUNNINGHAM

900

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES
of filing assessment work or consult the Mining
Work Group. NOV 15 1993
Duplicate.
to accompany this form

RECEIVED

Recorded Holder(s) Grand America Minerals Ltd./Nocanda Exploration Company, Limited (No Personal Liability)	Client No. 138639/176208
Address Suite 2383, 595 Burrard St., Bentall 3, PO Box 49076, Vancouver, BC / PO Box 1205 Timmins, Ont P4N 7J5	Telephone No. (604)662-8777/(705)268-9600
Mining Division Porcupine	Township/Area Cunningham
M or G Plan No. G-1095	
Dates Work Performed From: September 20, 1992	To: December 23, 1992

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	Diamond Drilling. Holes TOW 92-10, 11, 12, 13, 14, 15, 16 - 1141.0 metres
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 69,949.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Norex Drilling Limited	PO Box 88, Porcupine, Ont. P0N 1C0
Bredby Bros. Limited	PO Box 485, Timmins, Ont. P4N 7E7

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Sept 15/93	Recorded Holder or Agent (Signature) <i>[Signature]</i> Agent
--	--------------------	---

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying Roger Dahn, c/o PO Box 1205, Timmins, Ont P4N 7J5		
Telephone No. (705) 268-9600	Date Sept 15 1993	Certified By (Signature) <i>[Signature]</i>

For Office Use Only

Total Value Cr. Recorded \$69,949.	Date Recorded SEPT. 16/93	Mining Recorder <i>[Signature]</i>	RECEIVED SEP 16 1993 9:35 (C) JH PORCUPINE MINING DIVISION
	Deemed Approval Date DEC. 15/93	Date Approved OCT. 1/93	
	Date Notice for Amendments Sent		

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Transaction No./N° de transaction
W9360.00/66

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	15,711.00	
	Field Supervision Supervision sur le terrain		15,711.00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Diamond Drilling	52,644.00	
			52,644.00
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			68,355.00

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Rental Truck & Gas	926.00	
			926.00
Food and Lodging Nourriture et hébergement	Camp Cost	668.00	668.00
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			1594.00
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			1594.00
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			69,949.00

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Agent / Lands / Project Coordinator I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

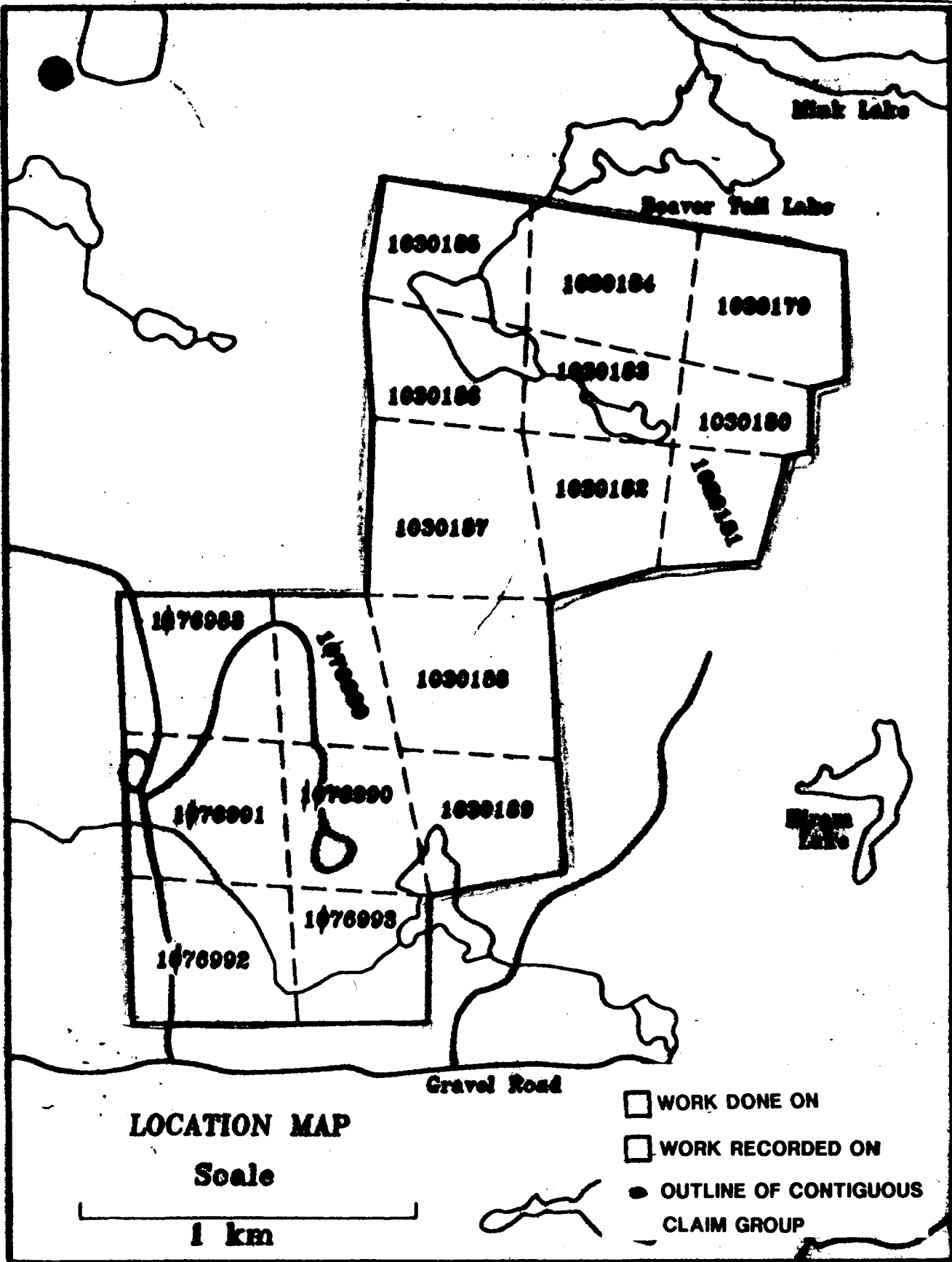
J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
	Sept 15/93

Note: Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



C-1092

CUNNINGHAM TWP.

C-1092

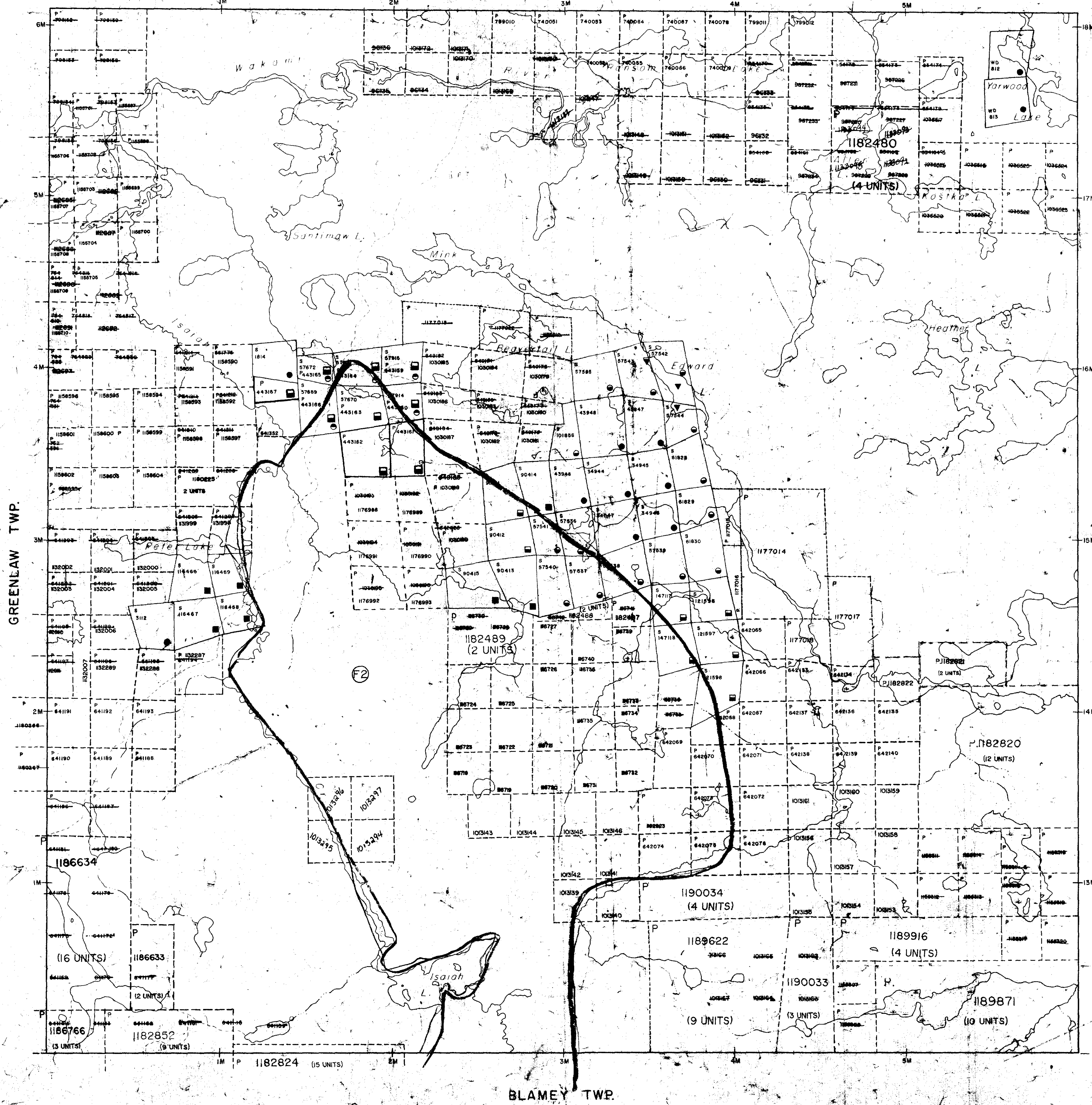
AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description / Order No. Date Disposition File

CROWN RESERVE

SWAYZE TWP.



BLAMEY TWP.

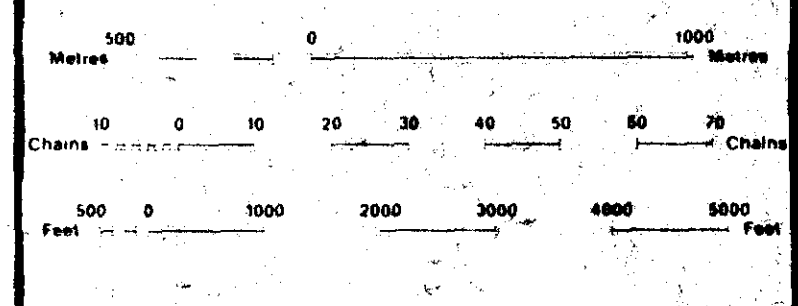
LEGEND

- HIGHWAY AND ROUTE NO. OF THE ROAD
- TRAILS
- SURVEYED LINES
- TOWNSHIP BASE LINES ETC.
- LOTS MINING CLAIMS PARCELS ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NATURAL PERMANENT STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE SURFACE & MINING RIGHTS	◑
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	◔
ORDER IN COUNCIL	◕
RESERVATION	◖
CANCELLED	◗
SAND & GRAVEL	◘

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1



THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1993/94. FURTHER INFORMATION ON FILE.

ISSUED
 OCT 1 1993
 PORCUPINE MINING DIVISION

TOWNSHIP
CUNNINGHAM
 M. N. R. ADMINISTRATIVE DISTRICT
CHAPLEAU
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
SUDBURY Received Sept 15/96

Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date: AUGUST, 1986
 Number: **G-1095**

OK - Approved Sept 27/96

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



C-1092

CUNNINGHAM TWP.

C-1092



210

Revised	TOWER PROPERTY	
	DRILL PLAN	
PROJECT:		
Proj. #	200	N.T.S. 1:5000
Drawn by	L.A.K.	Date
Drawn by	L.A.K.	Scale
noranda EXPLORATION CO. LTD.		