

Latitude . . . . 19682.3N  
 Departure . . . . 23523E  
 Elevation . . . . ~260m A.S.L.  
 Dip at Collar . . . 45°  
 Bearing . . . . ~135° (Presumed 138.5° T)  
 Total Depth . . . 175' Core size. . .EX  
 Remarks . . . . .Relog of hole drilled in 1951  
                     Core at Buchans Core library

Moranda Exploration Company, Limited  
 DIAMOND DRILL CORE LOG

Tests      Dip      Magnetic      Corrected  
 Depth      Bearing      Bearing

Project No. . . . .  
 Property . . . . .Connell Prospect  
 WTS . . . . .12A/15  
 Date Started . . . 93/03/05  
 Contractor . . . . N/A  
 Logged By . . . . G. Squires

Sheet No . . . 1 of 2  
 Hole No. . . . R1 #2  
 Grid Name . . . Connell (1993)

| Depth & Lithology                                         | Description                                                                                                                                                                                                                                                                                                                                         | Alteration         | Mineralization | Remarks                                            |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|----------------------------------------------------|
| 0-14'                                                     | Overburden                                                                                                                                                                                                                                                                                                                                          |                    |                | Core recovery frequently ~ 50% to 80% through hole |
| 14-18' (80-sized core)                                    | 14-18' (est) dark brownish green siltstone. Bedding laminae at 70 and 80° to core axis. Interval broken up with much pebbly reground core. One med green cherty mudstone core pebble and several core pebbles of fine sandy feldspar (1-2mm) chlorite (1-4mm) fragment bearing intermediate tuff (possibly overburden pebbles, or part of sequence. |                    |                |                                                    |
| 18-20 Sandstone                                           | 18-20' med grey to grey-brown massive to locally bedded (80° c.a.) sandstone (locally arkosic). Base at 20' tag. Next core EX, mudstone. May be core loss at contact area.                                                                                                                                                                          |                    |                |                                                    |
| 20-33' Mud/chert                                          | Dark grey (locally brown or light green) well laminated mudstone and chert (80-90°c.a.).                                                                                                                                                                                                                                                            |                    |                |                                                    |
| 33-36.3' Lapilli tuff colourful (distinctive unit)        | "Arkosic" lapilli tuff. Medium grey-green with abundant colourful fragments of red chert or rhyolite (1-5mm), yellow and white feldspar (1-3mm). Fragments quite angular. Poorly sorted at top and coarser grained. Bedded at base at 80-85° c.a. (Appears to fine down hole i.e. overturned or reverse grading?)                                   |                    |                |                                                    |
| 36.3-83' Cherty mudstone (local sandy beds)               | Dark grey green to pale green, massive to laminated (80° c.a.) mudstones ± chert. Local fine sandy interbeds with 1mm white fsp xals and local red chert (and green) 1mm frags. Pale green dominates towards bottom (getting altered?)                                                                                                              |                    |                |                                                    |
| 83-92' Pale green mudstone to tuff with 1-5cm green frags | Pale green tuffaceous mudstones to sericitized sandy tuff (dacitic) with 5-20% 1-5cm subrounded med green massive siltstone clasts.                                                                                                                                                                                                                 | Sericitized matrix |                |                                                    |
| 92-96' Green chert                                        | Med green chert (much broken - split? core) conchoidal fracture. Pale green locally where apparently "silicified". Ghost banding at 80°c.a. Bottom 10cm "mottled" (altered).                                                                                                                                                                        |                    |                |                                                    |
| 96-98 Massive ore                                         | Dark grey-blue fine grained, massive to mottled textured massive sp/gn. Top 1cm m.g. py apparently oriented at ~70° c.a. (bedding parallel?). Mottled texture partly admixtures of chert/silica. Core split but ore probably stratiform.                                                                                                            |                    |                |                                                    |

Project. . . . .  
 Property . . . . .  
 Sheet No . . . . . 2 of 2  
 Hole No . . . . . RI #2

| Depth & Lithology                                | Description                                                                                                                                                                                                           | Alteration                                  | Mineralization            | Remarks |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------|---------|
| 98-98.3' Chert                                   | As in 92-96 (i.e. massive sulphide within chert horizon).                                                                                                                                                             |                                             |                           |         |
| 98.3-102.5 Sericitized tuff                      | Med green granular massive sericitized sandy tuff. Bedding absent (top 1cm bedded at ~60-70° c.a.). Complete interval split. Base grades abruptly into chert (could be core lost here).                               |                                             |                           |         |
| 102.5-108 Chert                                  | Dark green banded (70-80° c.a.) chert, becomes pale green (sericitic) from 106.5-108.0 gradational into tuff at base (tops up).                                                                                       | Sericitic base                              |                           |         |
| 108-110 Sandy tuff                               | Light to dark green (at base) fine grained massive to bedded (at base) tuff (60-70° c.a.). Pyrite mimics banding in matrix.                                                                                           | Sericitic top half                          | 1-3% fg py in tuff matrix |         |
| 110-118 Chert (minor tuff)                       | Pale green to dark green chert, locally granular indicating tuffaceous. Abrupt base.                                                                                                                                  |                                             |                           |         |
| 118-132 pumice lithic lapilli tuff (distinctive) | Well washed, coarse sandy (2-4mm) tuff with 15-30% chloritic embayed shards, white, pink and yellow subrounded feldspars, milky to almost blue quartz. Frequent green to yellow and pinkish rhy fragments up to .5cm. | Chloritic shards sericitic matrix           |                           |         |
| 132-134 Chert                                    | Med green laminated chert.                                                                                                                                                                                            |                                             |                           |         |
| 134-152 Sericitic tuff (local chert)             | Pale-med green fine sandy to granular tuff locally grading into med green chert.                                                                                                                                      | Mod sericite in matrix                      |                           |         |
| 152-161 Chert                                    | Med green chert, minor tuff (poor core recovery at end).                                                                                                                                                              |                                             |                           |         |
| 161-164                                          | Pale green tuff (~10% core recovery).                                                                                                                                                                                 |                                             |                           |         |
| 164-175 Sericitic tuff                           | Pale green medium sandy. Overprinted with sericite/carb alt. Some apparent chloritic shards, subrounded feldspars.                                                                                                    | Mod pervasive overprinting of sericite/carb |                           |         |
| 175' EOH                                         | At 164-166 tuff contains grey and green mudstone/chert fragments and is similar to unit at 83-92'.                                                                                                                    |                                             |                           |         |

Latitude . . . . 19682.3N(1993 Grid Coordinates)  
 Departure . . . . 23523E  
 Elevation . . . . ~260m A.S.L.  
 Dip at Collar . . -45°  
 Bearing . . . . ~135°(presumed 138.5°T)  
 Total Depth . . . 53.34 Core Size EX  
 Remarks . . . . Relogg of Connell Option 1952 Hole

Noranda Exploration Company, Limited  
 DIAMOND DRILL CORE LOG

Tests      Dip      Magnetic      Corrected  
 Depth      Bearing      Bearing

Project No. . . . 4752      Sheet No . . . 1 of 2  
 Property . . . . Connell Option      Hole No. . . R.I #2  
 NTS . . . . . 12A/15      Grid Name . . Connell (1993)  
 Date Started . . June 9/93      Completed . . June 10/93  
 Contractor . . . N/A  
 Logged By . . . . Kerry Sparkes

| Depth & Lithology                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                    | Alteration                        | Mineralization          | Remarks                          |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------|----------------------------------|
| 0-4.3                                                                                | Overburden                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                         |                                  |
| 4.3-10.1m<br>mudstone /w<br>silty/sandy<br>units local<br>chert minor<br>lithic tuff | Moderately laminated grey/black mudstone w/ intercalated muddy and silty/sandy units, 8.3m-lithic ash tuff 5-6cm underlain by green chert. Sandy units very arkosic in nature 7.9m-80°                                                                                                                                                                                                                                         |                                   |                         | significant core loss            |
| 10.1-11.6m ash-lapilli tuff reworked                                                 | Base of unit consists of a fg equigranular arkosic tuff overlain by a black mudstone also overlain by another tuff, which is fg at the base, coarsens up towards and fines towards the top. This is the same unit as at 49.4-50.6 in RI #3. Fragments are mm size with rare cm size frags. very angular. poorly sorted. crude 085°ca bedding at the base. unit contains rhy? Chert frags, yellow and white feldspar fragments. |                                   |                         |                                  |
| 11.06-22.86<br>mudstone<br>w/chert                                                   | Dark black mudstone w/ intercalated green and red chert local fine grained ashy or sandy beds, poorly bedded -21.03-21.9m 67° ca at 20.4m, local green chert fragments.                                                                                                                                                                                                                                                        | 18m -alteration spotting          |                         |                                  |
| 22.86-28.04m<br>tuff                                                                 | Olive green fg sandy tuff, fining upwards - however not as coarse at the base as in underlying hole, local red and green chert horizons and cm size chert or siltstone clasts.                                                                                                                                                                                                                                                 | pale green sericite               | fining up sequence      | 25.9m -whole rock channel sample |
| 28.4-29.26<br>green chert                                                            | Med green massive (broken? split) with notable conchoidal fracture.                                                                                                                                                                                                                                                                                                                                                            | locally wk mottled recrystallized | tr diss py of fractures |                                  |
| 29.26-29.87<br>massive<br>sulphide                                                   | uc sharp-broken-upper 5cm consists of massive-mottled sp/gn underlain by 1cm fg py 70°ca with bands, tr. black chlorite wisps and chert or silica frags. entire unit contains 2-4% diss, one x-cutting heavy diss. py vein, py helps mottled effect.                                                                                                                                                                           |                                   | massive Sp, Gn, Py      |                                  |
| 29.87-30.00<br>greenchert                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                         |                                  |

Noranda Exploration Company, Limited  
DIAMOND DRILL CORE LOG

Project No. . . 4752  
Property . . . . . Connell

Sheet No. . . 2 of 2

Hole No. . . RI #2

| Depth & Lithology                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                    | Alteration                                               | Mineralization                                                      | Remarks                                                                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 30.00-31.24m tuff                   | Dirty light green grainy massive nondescript tuff, crude 60-70°ca bedding with overlying chert grading into a black siltstone horizon.                                                                                                                                                                                                                                                                                         |                                                          |                                                                     |                                                                                                                                              |
| black siltstone w/chert 31.24-32.3m | Intercalated well bedded black siltstone -32.0m lca 70° w/ more poorly bedded grey chert having sharp lc 045° lca.                                                                                                                                                                                                                                                                                                             | wk sericite                                              | 31.85-6cm -sheared grey chert with bedding diss py stringers. 4% py | correlate with RI #3 major fining up sequence<br><br>*Note - not as well developed as lower DDH #3 however basal unit 36.0-40.23 is the same |
| 32.3-33.5m tuff                     | Fine grained olive green fining up moderately bedded grey black grainy at base. 33.6m-55°lca bedding.                                                                                                                                                                                                                                                                                                                          | sericitic top half with sericite spots at the base <0.5m |                                                                     |                                                                                                                                              |
| 33.5-36.0m chert                    | Grey bedded 34.4m -070°lca with a sharp broken lc.                                                                                                                                                                                                                                                                                                                                                                             |                                                          |                                                                     |                                                                                                                                              |
| 36.0-40.23m coarse tuff reworked    | cg lithic lapilli tuff - well washed with black chloritic lithic fragments shards are embayed (GS), cm chert frags rounded qtz eyes, white, pink, yellow feldspar, frags up to 8mm avg. 3mm. This individual unit fines up from almost grain supported at bottom to matrix at top. Black shards more aligned at top. Noted one shard which engulfed a few feldspars-noting fairly weak unconsolidated precursor unit lc sharp. |                                                          |                                                                     |                                                                                                                                              |
| 40.23-40.84 chert                   | Med grey-green laminated chert.                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                                                                     |                                                                                                                                              |
| 40.84-46.33 tuff                    | Pale med green fine gr grainy tuff w/ local chert layers.                                                                                                                                                                                                                                                                                                                                                                      |                                                          |                                                                     |                                                                                                                                              |
| 46.33-49.07 chert                   | Grey green chert.                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          |                                                                     |                                                                                                                                              |
| 49.07-53.34                         | Fg grainy green sericitic tuff, few chloritic shards, sub-rounded feldspars, grey-green mm-cm sub-rounded chert fragments.                                                                                                                                                                                                                                                                                                     | noted sericite spots                                     |                                                                     |                                                                                                                                              |
| 53.34                               | E.O.H                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          |                                                                     |                                                                                                                                              |