

013923

Vancouver 1, B. C.  
November 6, 1957

Mr. John Drybrough,  
503, 173 Portage Avenue,  
Winnipeg 2, Manitoba.

Dear John:

The following is a report of the work completed on the Mont Group during the current season.

SUMMARY:

The best section of the mineralized zone was explored with diamond drills for a strike length of 2,000', at a maximum depth of 1,200 feet below the outcrop. Surface exposures, where possible, were trenched, mapped and sampled along the sectional plane of the drill holes and were tied into the hole collars by tape and Brunton traverse. All holes were tested for changes in dip.

Drilling was done using E.B.S.2 diesel powered machines, to produce 1½ inch core. Only three set-ups were made, three holes being drilled from each of the first two and one from the last. The first hole from each set-up was completely cored, but the second and third were drilled to a depth of 350 feet with a plug bit. A total of 7,055 feet of drilling was completed.

The rugged topography necessitated keeping three and sometimes four company laborers on the property to assist in packing, in addition to the trenching mentioned above.

CONCLUSIONS:

The diamond drilling proved that the copper mineralization found on the surface does not extend, in quantity, to the horizons drilled.

Copper mineralization is controlled in some undiscovered manner by interbedded marbleized limestone; together with intricate folding in the host rocks.

The mineralized alteration zone is persistent along strike and down dip, but the copper bearing sections are too small to be economically developed.

The work was well done. For future reference, there are some improvements that can be made in the type of some of the equipment used.

Five years assessment work has been recorded on a group of fifteen claims, comprising a block three claims wide and five claims long.

#### DIAMOND DRILLING:

The diamond drill program was planned so that the drill holes would explore the mineralized zone at depths ranging from 350 feet under the "A" zone to between 750 and 1,100 feet below the main zone. The location of the set-ups was essentially controlled by accessibility. The drills were taken up the slope as far as possible and the set-ups were blasted out of the rock. It was originally planned to drill flat holes, but this was changed to 15° down in the interest of speed. A plan, and sections of the drill holes, is attached.

Hole No. 1 was laid out to intersect the "A" zone at a depth of 400 feet down dip from Trench No. 3 and was continued to intersect the Main zone at a depth of 775 feet down dip from the surface exposure.

The "A" zone, which assayed 2.42% copper across a width of 9.7 feet on the surface, was only indicated by an increase of silicification and sparse pyrrhotite at 397.5 feet to 423 feet in the drill core. The main zone was indicated by heavy silicification and pyrrhotite from footages 696 to 758, with sparse copper mineralization from 698 feet to 713 feet.

Hole No. 2 was collared 750 feet southeast of No. 1 and was directed so as to intersect the extension of the "C" zone in that direction, and was continued to intersect the Main zone.

The "C" zone was represented by light silicification and sparse pyrrhotite. The Main zone was represented by 201 feet of silicification and sparse sulphide from 887 to 1088 feet. Copper values were negligible.

Hole No. 3 was drilled from No. 1 set-up to intersect both the "A" and "C" zones as well as the Main.

Neither "A" nor "C" zone was found with sulphide mineralization. The Main zone was indicated by a highly silicified section from 732 to 786 feet. Heavy pyrrhotite was erratically distributed throughout the zone. Copper mineralization was very sparse.

Hole No. 4 was drilled from No. 2 set-up to intersect the Main zone 250 feet southeast along the strike from the No. 2 intersection. Silicification and carbonate alteration were first intersected at 887.5 feet and continued intermittently to 1,125 feet, with interbeds of limestone from 920 to 939 feet and from 955 to 965 feet. Copper minerals were confined to the sections from 900 to 920 feet and sparsely from 980 to 1,000 feet. The section from 900 to 920 feet averaged 1.53% copper, with most of the values being concentrated in the 7 feet from 908 to 915.

Hole No. 5 was drilled from No. 1 set-up to intersect the Main zone 250 feet to the northwest on strike from the No. 1 intersection. Slight silicification, with sparse sulphide, was cut from 731 to 733 feet.

Hole No. 6 was drilled from the No. 2 set-up to intersect the Main zone 250 feet southeast, along the strike, from No. 4 hole. Good silicification was encountered from 894 feet to 1,046 feet, with an interbed of marbled limestone from 905 to 940 feet.

On this section there is an apparent flattening of the dip of the zone. Inasmuch as the drill hole intersection is 900 feet below the outcrop the discrepancy could not be localized.

Copper mineralization was essentially concentrated at the upper limestone contact. Here the section from 900.7 to 911 feet averaged 2.25% copper, most of which was concentrated in the first 2.1 feet.

Hole No. 7 was drilled from No. 3 set-up and was laid out to intersect the Main zone 400 feet farther southeast along the strike from No. 6. Silicification was encountered intermittently from 899 to 978, with one foot of limestone from 931 to 932 feet. There was no sulphide of consequence.

#### RESULTS OF DIAMOND DRILLING:

As a result of the drilling four significant facts concerning the property have become apparent, namely:-

(a) Copper mineralization in any volume does not extend to the horizon drilled. Inasmuch as it would have to extend to at least that depth in order to justify major development, additional drilling is not warranted.

(b) The sulphide mineralization is, in part at least, controlled by intricate folding in the host rock. Apparent in the core but not on the rubble strewn surface, are synclinal or anticlinal folds, within which there is an increase in silicification and sulphide.

(c) The copper mineral is related to comparatively thin beds, or remnants of beds, of marbled limestone, that have no apparent continuity along strike or down dip.

(d) The smaller parallel "A", "B" and "C" zones are not persistent to depth.

#### GEOLOGY:

By correlating the surface geology with the diamond drill core it can be seen that the Main mineralized zone consists of a wide shear that has a persistent N 55° W strike and a zonal dip of approximately 82° to the southwest.

Within the shear, the tuffs, flows and interbedded limestone and argillite have been erratically silicified and carbonized with an accompanying deposition of sulphides. On the surface this altered zone is evidenced by a wide band of rusty weathering quartzose rubble and outcrop. Sulphide mineralization and, to a lesser extent, the quartz, is concentrated in or near small or large drag folds within the main body of the shear. It is believed that the drag folds have a  $10^{\circ}$  to  $20^{\circ}$  plunge in a northwesterly direction along the strike of the main shear.

In the drill core there is evidence of minor faulting. An examination of the surface failed to disclose anything of sufficient magnitude to map.

Sulphide mineralization, on the surface outcrops, consists essentially of chalcopyrite and pyrrhotite erratically distributed throughout the completely silicified sections of the shear zone. In the drill core the percentage of sulphide is approximately the same, but the chalcopyrite content is lacking and arsenopyrite has been added.

#### SAMPLING:

Samples were cut by splitting the core lengthwise, in the conventional manner. Except for high grade sections, each sample represented a five-foot length of drill core. Any core showing chalcopyrite was tested.

Assay results are shown on the accompanying sections.

#### EQUIPMENT:

The drill equipment on the job was easy to operate and adequate for the work. It was much too large and cumbersome for any degree of portability in the type of terrain encountered. As an alternative, for future reference, it is suggested that underground machines and a portable compressor, with aluminum or plastic air line, would be more satisfactory. Using such equipment, with an air-driven rod puller, either up or down holes could be drilled, the machine would not require a tripod and could easily be moved by two men.

The M-7 Maskeg Tractor, purchased for transportation of personnel, supplies and equipment, was found to be eminently satisfactory. With careful use and a good driver, this unit will do anything that can be reasonably expected of it. It was discovered that only a minimum of clearing is required and that a bulldozed road is not necessary. For any future use of this machine I would suggest that only a hand-cleared trail be made and the tractor will make its own road.

#### COMMENT:

There is no question in my mind that additional drilling would result in the discovery of more of the lenticular type bodies of sulphide similar to those already found. I do not believe that any one of them would be large enough to be profitably mined. The aggregate would, in my opinion, be too low grade to be commercial.

Mr. John Drybrough

-5-

November 6, 1957

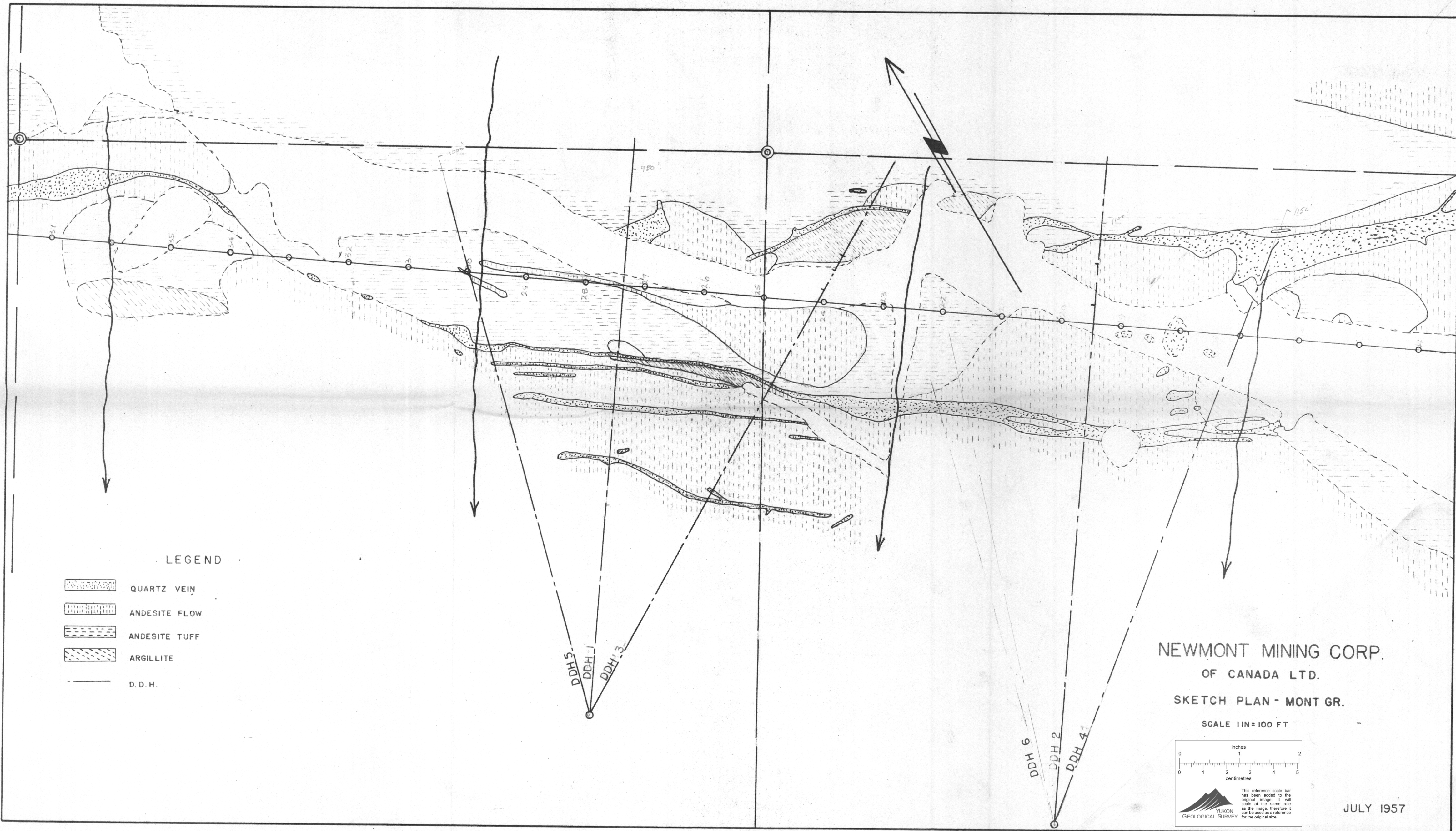
This season's work is sufficiently comprehensive to test the possibilities of the property. No further exploration is recommended.

Yours sincerely,



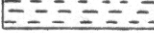


A handwritten signature in cursive script, appearing to read "D. M. Cannon".

D. M. Cannon

D2C-n



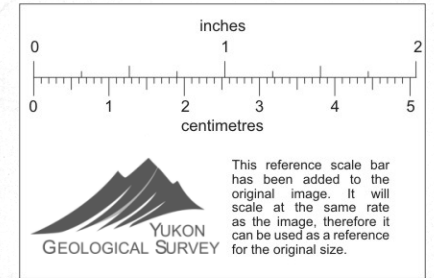
LEGEND

-  QUARTZ VEIN
-  ANDESITE FLOW
-  ANDESITE TUFF
-  ARGILLITE
-  D. D. H.

NEWMONT MINING CORP.  
OF CANADA LTD.

SKETCH PLAN - MONT GR.

SCALE 1 IN = 100 FT



JULY 1957

MONT 6

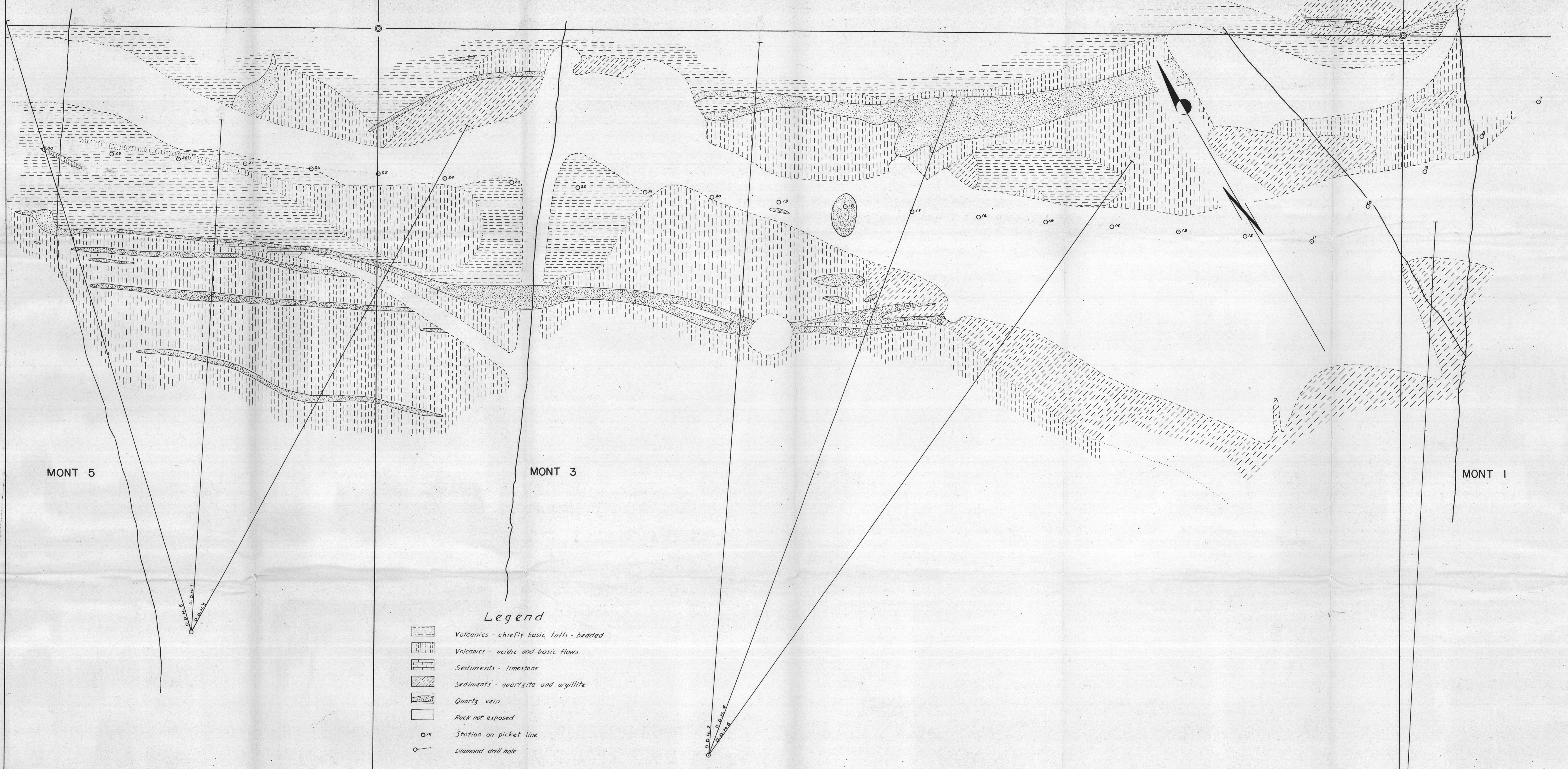
MONT 4

MONT 2

MONT 5

MONT 3

MONT 1



Legend

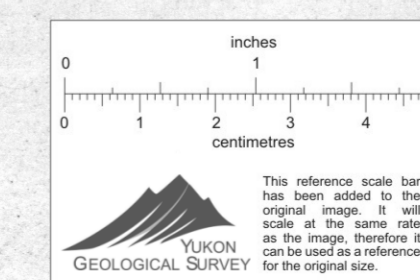
- Volcanics - chiefly basic tuffs - bedded
- Volcanics - acidic and basic flows
- Sediments - limestone
- Sediments - quartzite and argillite
- Quartz vein
- Rock not exposed
- Station on picket line
- Diamond drill hole

Geology by K.G. Sanders 1956

MONT GROUP  
NEWMONT MINING CORP. OF CANADA

DIAMOND DRILL HOLE PLAN

SCALE 1 INCH = 50 FEET



O.B.N.H.7

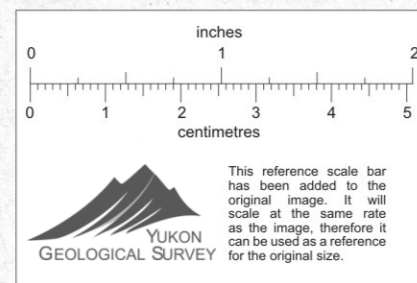
MONT GROUP  
 NEWMONT MINING CORP. OF CANADA

SECTION ALONG DRILL HOLE NO. 1

SCALE 1 INCH = 50 FEET

SECTION NORMAL TO STRUCTURE

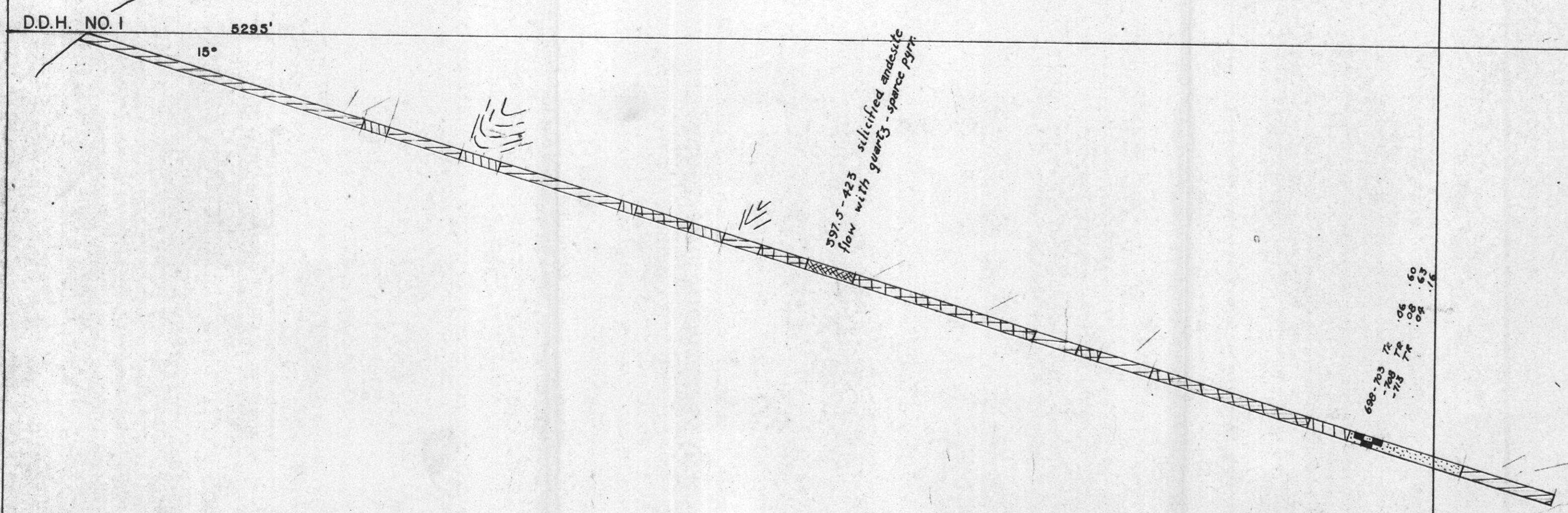
ASSAY SEQUENCE - FOOTAGE, AU, AG, CU.



- Legend**
- Basic volcanic flows
  - Basic tuff
  - Sediments - argillite, quartzite, limestone
  - Mixed tuffs & flows
  - Mixed flows & sediments
  - Mixed tuffs & sediments
  - Silicification - 50% to 100% quartz with pyrrhotite, chalcopyrite, arsenopyrite, pyrite
  - Fault
  - Bedding folded

"A" ZONE TR. 3

|              |      |      |      |      |
|--------------|------|------|------|------|
| TR. ASSAYS - | 0.04 | 4.05 | 0.90 | 0.09 |
|              | 4.3' | 4.7' | 5.0' | 7.7' |



|         |      |      |      |      |
|---------|------|------|------|------|
| 688-703 | 0.04 | 4.05 | 0.90 | 0.09 |
| 703-704 | 4.3' | 4.7' | 5.0' | 7.7' |

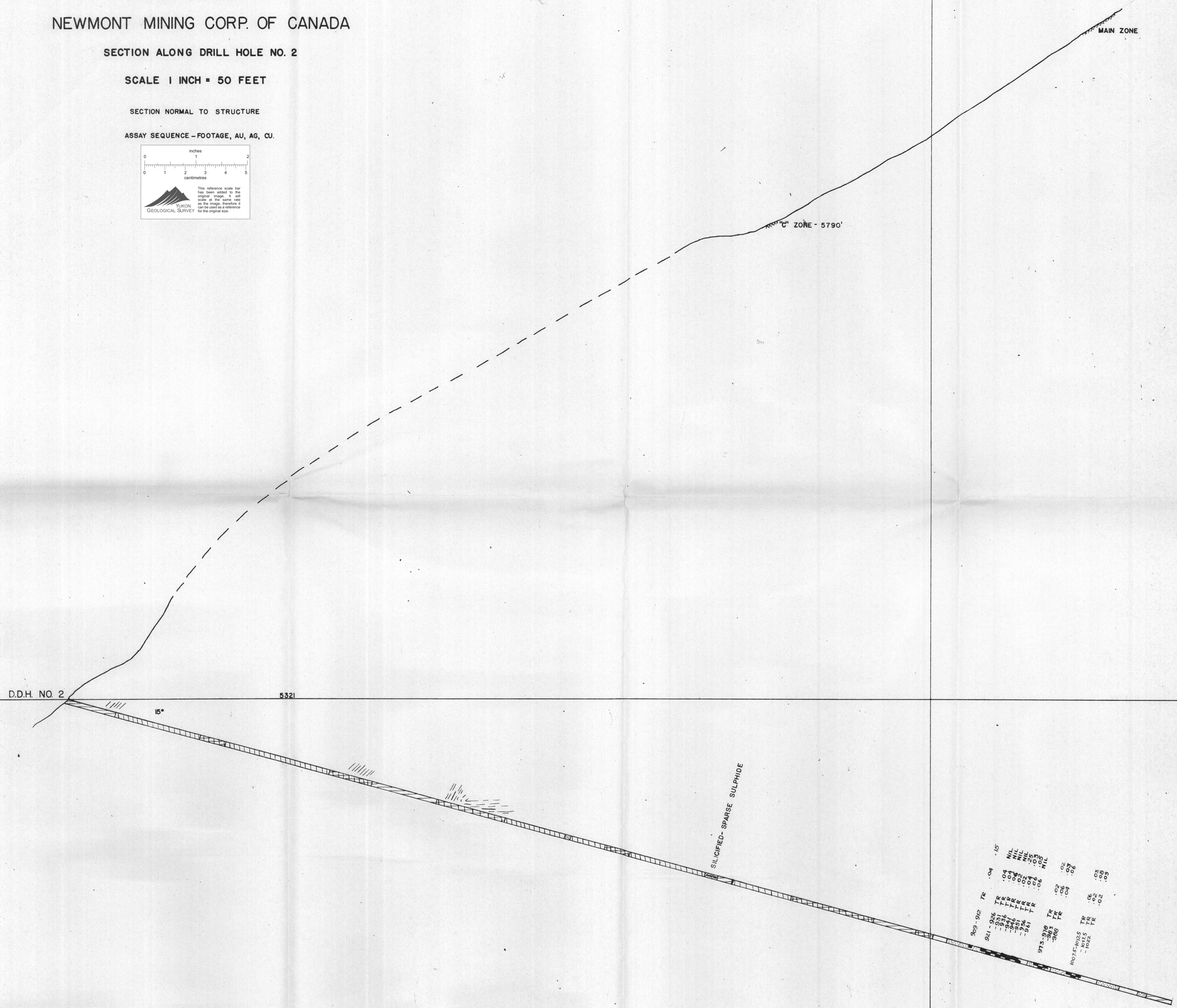
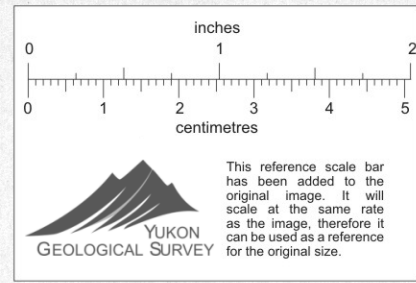
MONT GROUP  
 NEWMONT MINING CORP. OF CANADA

SECTION ALONG DRILL HOLE NO. 2

SCALE 1 INCH = 50 FEET

SECTION NORMAL TO STRUCTURE

ASSAY SEQUENCE - FOOTAGE, AU, AG, CU.



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|-----------|----|-----|-----|
| 919-912   | TR | .04 | .15 |
| 921-926   | TR | .02 | .06 |
| 927-936   | TR | .02 | .06 |
| 937-946   | TR | .02 | .06 |
| 947-956   | TR | .02 | .06 |
| 957-966   | TR | .02 | .06 |
| 973-976   | TR | .02 | .06 |
| 987-996   | TR | .02 | .06 |
| 1007-1016 | TR | .02 | .06 |
| 1017-1026 | TR | .02 | .06 |
| 1027-1036 | TR | .02 | .06 |
| 1037-1046 | TR | .02 | .06 |
| 1047-1056 | TR | .02 | .06 |
| 1057-1066 | TR | .02 | .06 |
| 1067-1076 | TR | .02 | .06 |
| 1077-1086 | TR | .02 | .06 |
| 1087-1096 | TR | .02 | .06 |
| 1097-1106 | TR | .02 | .06 |
| 1107-1116 | TR | .02 | .06 |
| 1117-1126 | TR | .02 | .06 |
| 1127-1136 | TR | .02 | .06 |
| 1137-1146 | TR | .02 | .06 |
| 1147-1156 | TR | .02 | .06 |
| 1157-1166 | TR | .02 | .06 |
| 1167-1176 | TR | .02 | .06 |
| 1177-1186 | TR | .02 | .06 |
| 1187-1196 | TR | .02 | .06 |
| 1197-1206 | TR | .02 | .06 |
| 1207-1216 | TR | .02 | .06 |
| 1217-1226 | TR | .02 | .06 |
| 1227-1236 | TR | .02 | .06 |
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| 1857-1866 | TR | .02 | .06 |
| 1867-1876 | TR | .02 | .06 |
| 1877-1886 | TR | .02 | .06 |
| 1887-1896 | TR | .02 | .06 |
| 1897-1906 | TR | .02 | .06 |
| 1907-1916 | TR | .02 | .06 |
| 1917-1926 | TR | .02 | .06 |
| 1927-1936 | TR | .02 | .06 |
| 1937-1946 | TR | .02 | .06 |
| 1947-1956 | TR | .02 | .06 |
| 1957-1966 | TR | .02 | .06 |
| 1967-1976 | TR | .02 | .06 |
| 1977-1986 | TR | .02 | .06 |
| 1987-1996 | TR | .02 | .06 |
| 1997-2006 | TR | .02 | .06 |

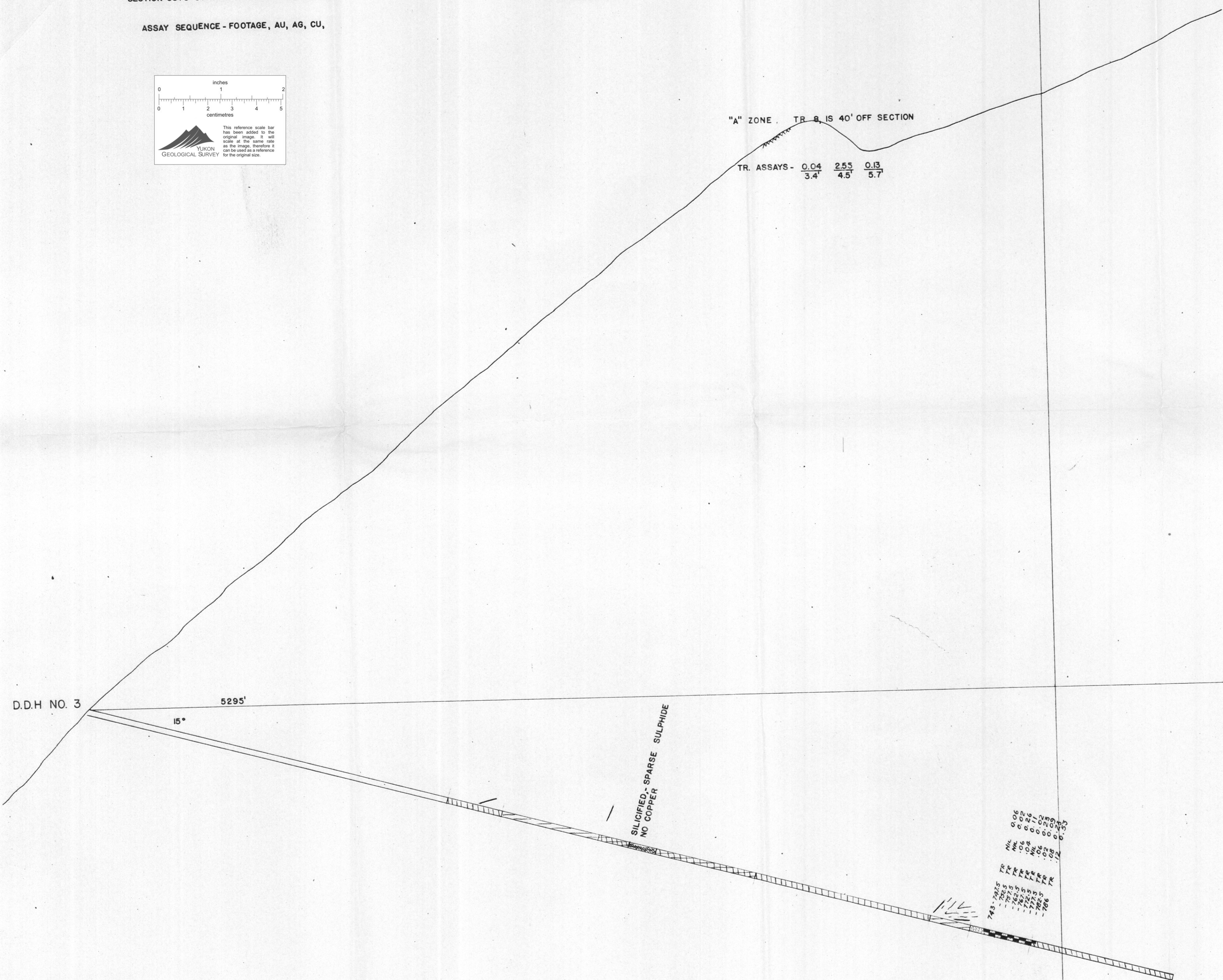
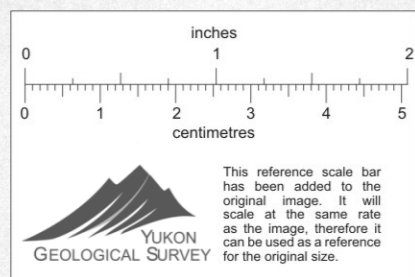
MONT GROUP  
 NEWMONT MINING CORP. OF CANADA

SECTION ALONG DRILL HOLE NO. 3

SCALE 1 INCH = 50 FEET

SECTION CUTS STRIKE OF STRUCTURE AT 25°

ASSAY SEQUENCE - FOOTAGE, AU, AG, CU,



"A" ZONE TR 8 IS 40' OFF SECTION

|              |      |      |      |
|--------------|------|------|------|
| TR. ASSAYS - | 0.04 | 2.55 | 0.13 |
|              | 3.4  | 4.5  | 5.7  |

D.D.H NO. 3 5295'

15°

SILICIFIED - SPARSE SULPHIDE  
 NO COPPER

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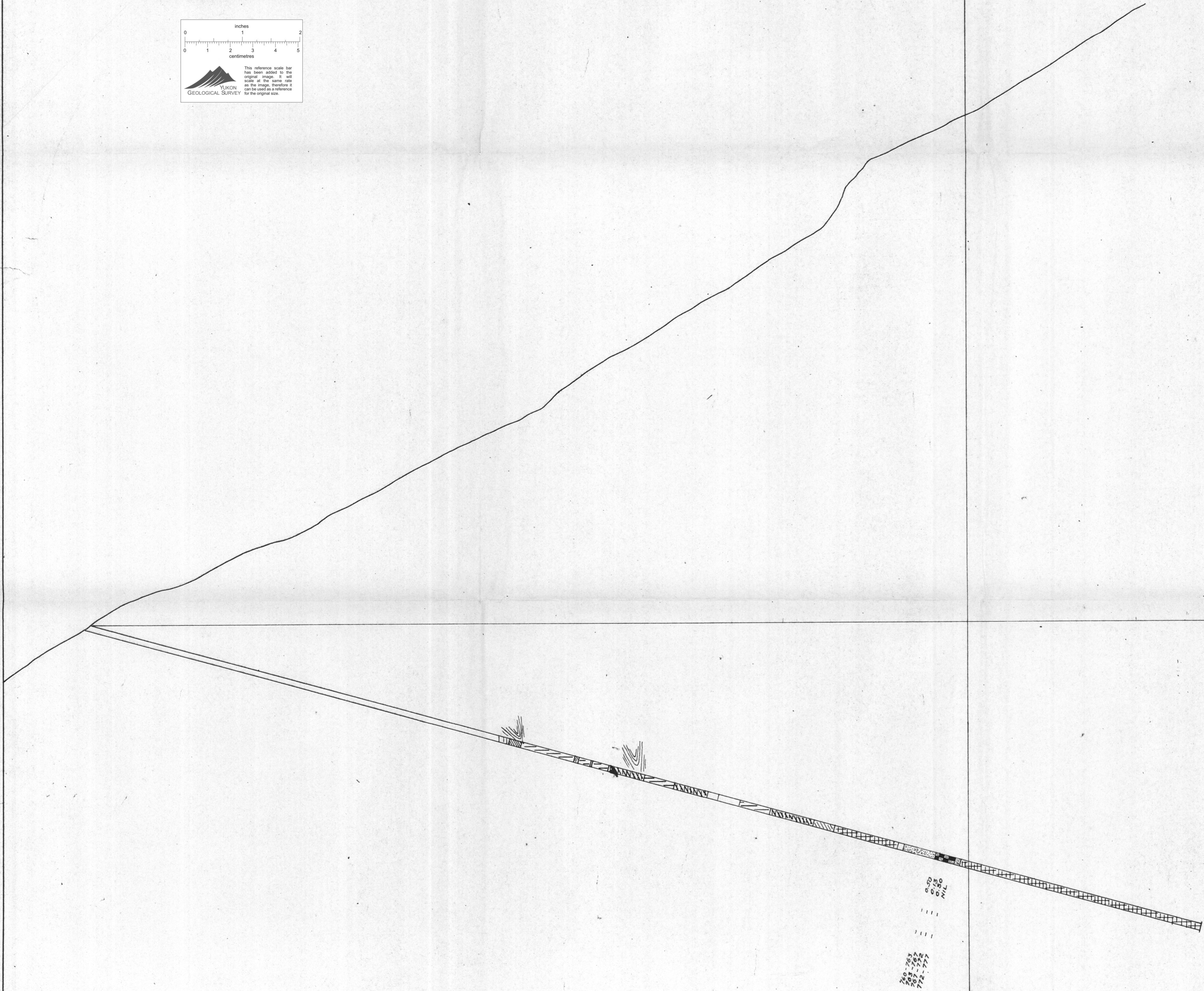
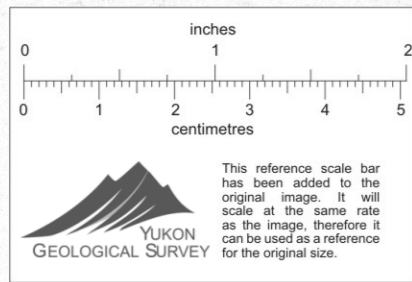
MONT GROUP  
NEWMONT MINING CORP. OF CANADA

SECTION ALONG DRILL HOLE NO. 5

SCALE 1 INCH = 50 FEET

SECTION CUTS STRIKE OF STRUCTURE AT 15°

ASSAY SEQUENCE - FOOTAGE, AU, AG, CU.



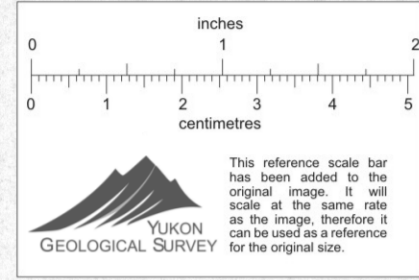
MONT GROUP  
 NEWMONT MINING CORP. OF CANADA

SECTION ALONG DRILL HOLE NO. 6

SCALE 1 INCH = 50 FEET

SECTION CROSSES STRUCTURE AT 55°

ASSAY SEQUENCE - FOOTAGE, AU, AG, CU.

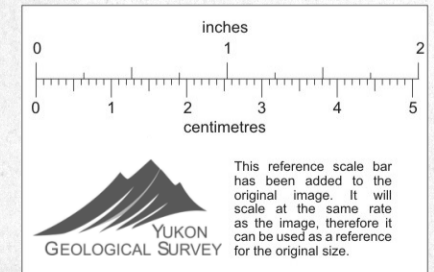
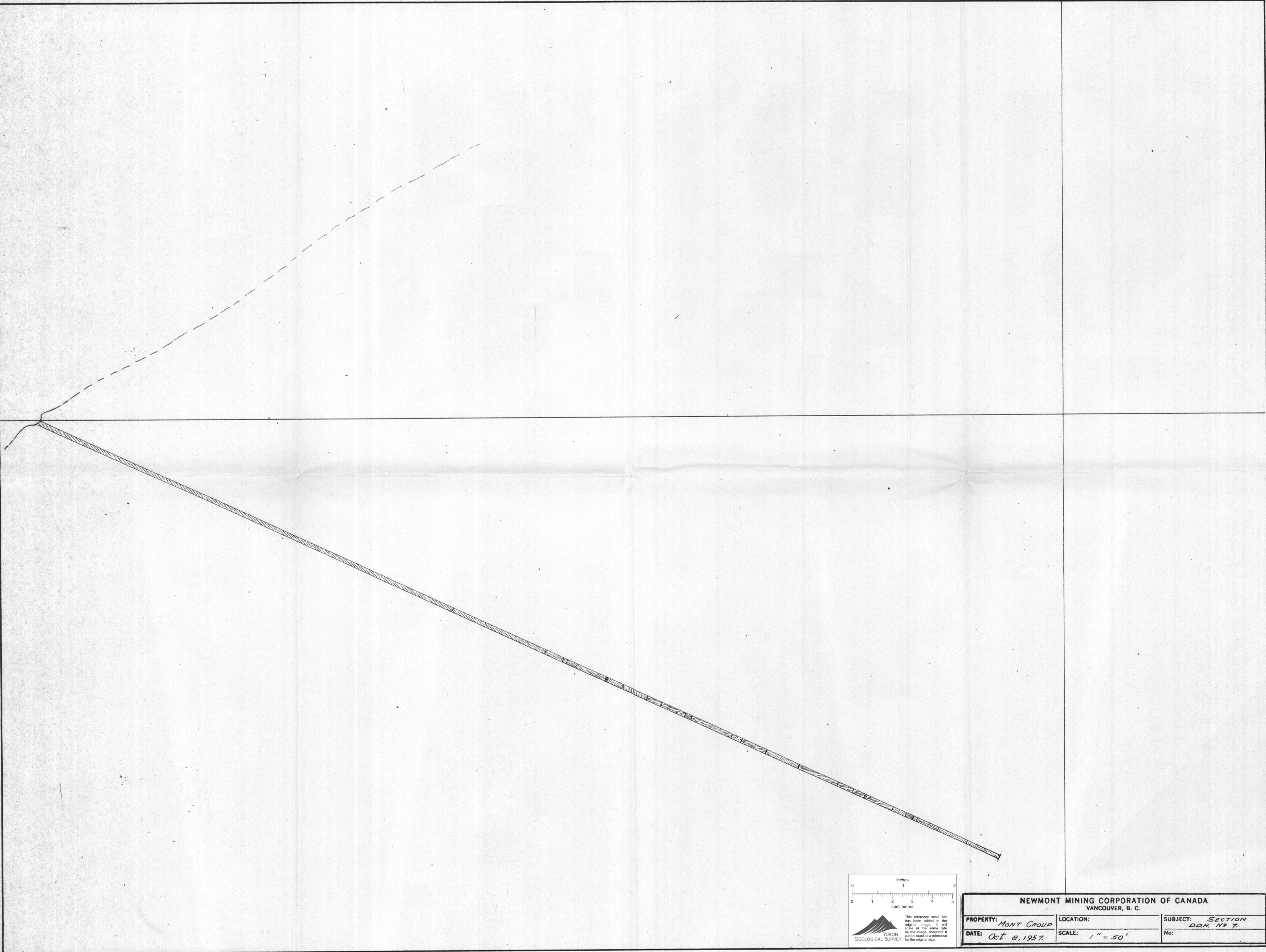


OUTCROP 150'  
 UP DIP

D.D.H. NO. 6

15°

|           |    |     |      |
|-----------|----|-----|------|
| 9017-9028 | 01 | 04  | 15.0 |
| 9028-9111 | TR | 04  | 12   |
| 949-953   |    |     | 0.10 |
| 953-960   |    |     | 0.14 |
| 960-970   |    |     | 0.08 |
| 970-975   |    |     | 0.08 |
| 975-985   |    |     | 0.12 |
| 985-995   |    |     | 0.12 |
| 995-1000  |    |     | NIL  |
| 9017-9028 | 12 | 3.6 |      |
| 960-963   | TR | 08  | 1.8  |



|   |                        |                         |
|---|------------------------|-------------------------|
| <b>NEWMONT MINING CORPORATION OF CANADA</b><br>VANCOUVER, B. C. |                        |                         |
| PROPERTY: <i>MONT GROUP</i>                                     | LOCATION:              | SUBJECT: <i>SECTION</i> |
| DATE: <i>Oct. 8, 1957</i>                                       | SCALE: <i>1" = 50'</i> | No: <i>DDM. No. 7</i>   |