

98-4154 49

434001



MICROFILMED
FICHE No. 014913-

EXPLORATION REPORT
 ON
 TENEMENTS HELD BY R J HOLDEN

TENEMENT NO 16/93
 31/94
 16/95

By : R J HOLDEN,
 PO Box 139,
 KINGSMEADOWS,
 TAS, 7249.

DATE : 5-5-'98

MINERAL RESOURCES
FILE NO.
- 7 MAY 1998
DATE
EL 16/93
See folio 8
EL 31/94
See folio 20
EL 16/95
See folio 44

98-4154

EXPLORATION REPORT-R J HOLDEN
 EL'S 16/93, 31/94 & 16/95

SUMMARY OF GEOLOGICAL MAPPING

GEOLOGY OF TENEMENTS IS DEVONIAN GRANODIORITE ALONG THE EASTERN EDGE OF TENEMENTS 31/94 AND 16/95, WITH THE REMAINDER BEING MATHINNA BEDS WITH SOME AREAS OF MATHINNA BEDS BEING CAPPED BY BASALT.

SEVERAL DIORITE DYKES HAVE BEEN LOCATED IN BOTH TYPES OF COUNTRY ROCK, WITH THE MOST PROMINENT BEING IN THE GRANITES.

SEVERAL STYLES OF MINERALIZATION HAVE BEEN NOTED: QUARTZ BRECCIA AND QUARTZ STOCKWORK VEINS IN THE MATHINNA BEDS, QUARTZ PORPHYRY MASSIVE SULPHIDE VEINS IN THE MATHINNA BEDS, CONTACT META-MORPHISM INDICATORS, DIORITE DYKES CARRYING SULPHIDES WITHIN THE GRANITES, QUARTZ + BLUE GNEISS VEINING WITHIN THE GRANITES AND TRACHYTE-LIMONITE PORPHYRY WITHIN THE GRANITES.

THE MOST PROMINENT SYSTEM IN THE GRANITES ARE THE SULPHIDE CARRYING DIORITE DYKES. THESE DYKES ARE SEVERAL METRES IN WIDTH EACH AND ARE PARALLEL TRENDING ABOUT 60° MAGNETIC AND DIPPING TO THE NORTH WEST.

NEAR THIS AREA OF DIORITE ARE QUARTZ VEINS WITH ASSOCIATED BLUE GNEISS. THESE STRUCTURES APPEAR TO BE RANDOMLY PLACED FROM THE DIORITE TO THE CONTACT OF THE GRANITES AND MATHINNA BEDS.

THESE VEINS CARRY VISABLE AMOUNTS

OF ARSENOPIRITE, PYRITE AND LIMONITE. THEY ARE ALSO ANOMALOUS FOR GOLD WITH A DETECTABLE GRADE OF 40 PPB.

A B-HORIZON SOIL SAMPLING GRID WAS CONDUCTED OVER THE AREA, CLOSE TO THE DIORITE.

FURTHER TO THE SOUTH EAST, TWO SEPARATE TRACHYTE - LIMONITE PORPHYRY VEINS HAVE BEEN LOCATED. THESE STRUCTURES TREND IN A NORTH EASTERLY FASHION. THE EXTENT OF THESE IS NOT KNOWN, BUT APPEAR TO OUTCROPP FOR ABOUT 100M.

AREAS OF EPIDOTE WITHIN FISSURES IN THE GRANITE INDICATE THE CONTACT OF GRANITE AND MATHINNA BEDS.

WITHIN THE AREA OF MATHINNA BEDS SEVERAL QUARTZ VEINS OF MAJOR SIZE HAVE BEEN FOLLOWED BY OUTCROPPING AND SOIL SAMPLING, AS THEY ARE ALSO ANOMALOUS.

THE QUARTZ VEINS ARE REFERED TO AS FLUID PATHWAYS.

AT SEVERAL POINTS ALONG THESE FLUID PATHWAYS ARE AREAS OF CROSS-CUTTING QUARTZ BRECCIA AND QUARTZ STOCK WORK, ONE OF THESE STRUCTURES IS UP TO 3 KM IN LENGTH AND HAS AREAS OF MASSIVE SULPHIDES PRESENT IN DIFFERENT SECTIONS. OTHER ASSOCIATE MINERALS ARE PYRITE, ARSENOPIRITE AND LIMONITE AND GOLD (40 - 65 PPB). SOME OF THESE STRUCTURES ARE PARALLEL TO SOME SMALL (<1M) DIORITE DYKES IN THE VICINITY.

ALL OF THESE STRUCTURES COULD BE POSSIBLY ASSOCIATED TO THE MAGNETIC ANOMALY THAT TRENDS SOUTH FROM BRIDPORT.

THIS MAGNETIC ANOMALY SEEMS TO BE TOPOGRAPHICALLY ALIGNED TO THE SIDELING RANGE.

THE STRUCTURES WITHIN THE GRANITES AND ALSO THE FLUID PATHWAYS SEEM TO HAVE THEIR ORIGIN IN THE AREA WHERE SIDELING RANGE MEETS THE GRANITE OF THE NORTH EASTERN MASSIF IN THE VICINITY OF DIDDLEM PLAINS.

THE BASALT APPEARS TO TEND IN A SIMILAR FASHION TO THE FLUID PATHWAYS.

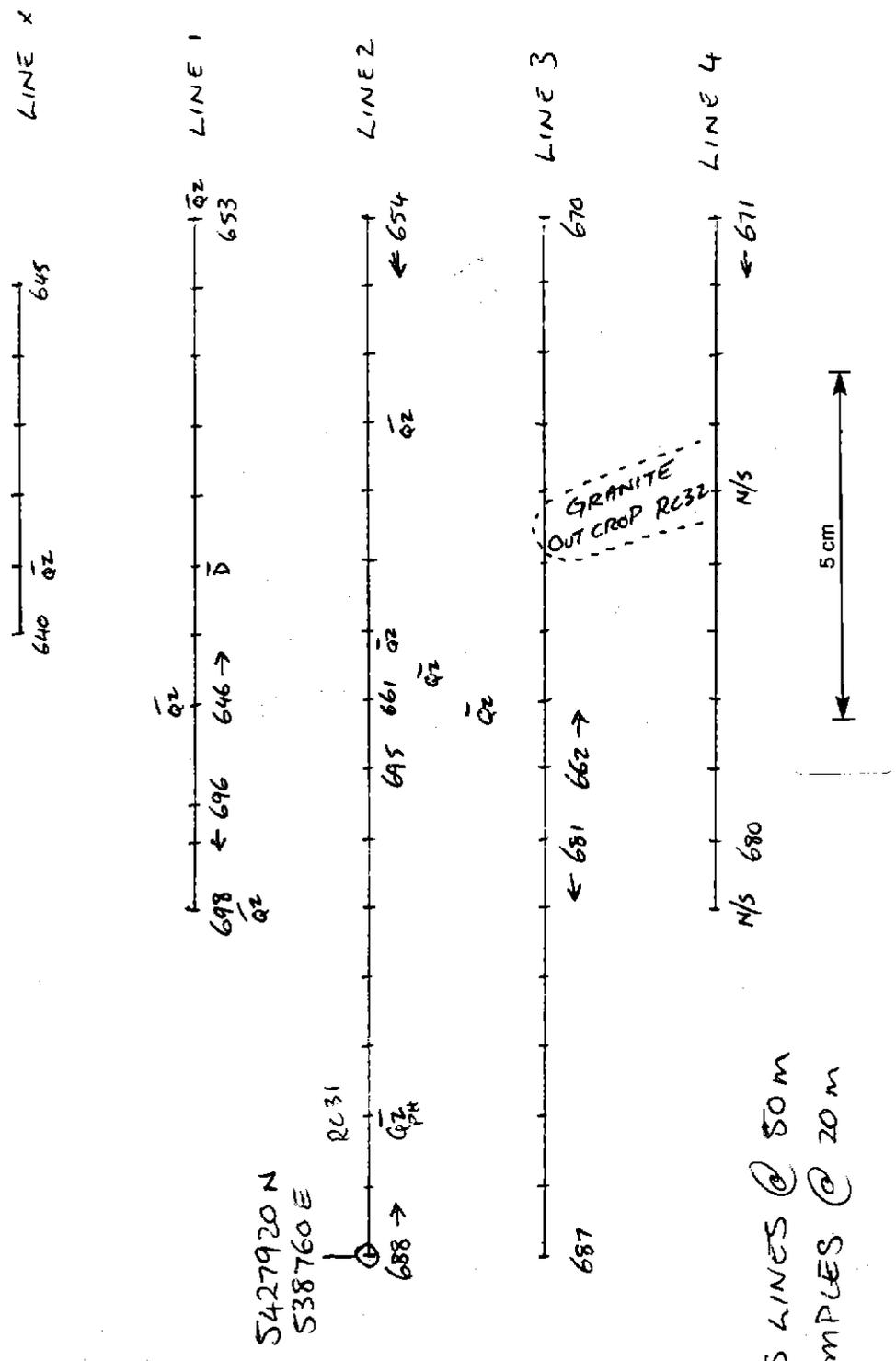
IN SUMMARY, ALL OF THE QUARTZ TYPE STRUCTURES CAN EASILY BE FOLLOWED BY B-HORIZON SAMPLING AND I WOULD CONSIDER THE AREAS OF CROSS-CUTTING STOCKWORK AND BRECCIA TO BE OF THE MOST INTEREST ALONG WITH THE AREA OF CONTACT TO PORPHYRY IN THE GRANITES.

A TOTAL OF 714 B-HORIZON SAMPLES WERE TAKEN IN TWO GRID AREAS AT A COST OF \$50 PER SAMPLE REALISING AN EXPENDITURE OF \$35700.

THESE SAMPLES WILL BE ASSAYED AS SOON AS POSSIBLE.

Yours Sincerely

ROD HOLDEN



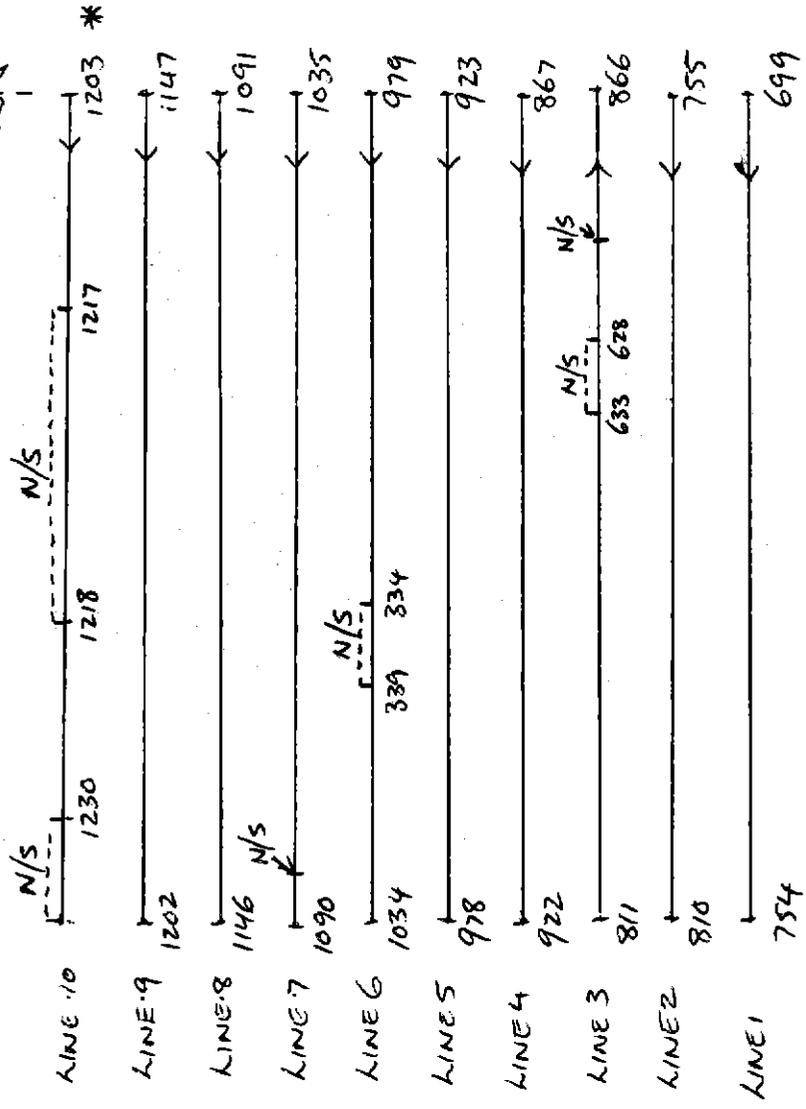
CROSS LINES @ 50m
SAMPLES @ 20m

B-HORIZON SAMPLE GRID - DIDDLEUM

QZ = QUARTZ, QZ PH = QUARTZ PORPHYRY,
D = DIORITE.

All lines @ 270°m

BASE LINE @ 60m



CROSS LINES @ 330m

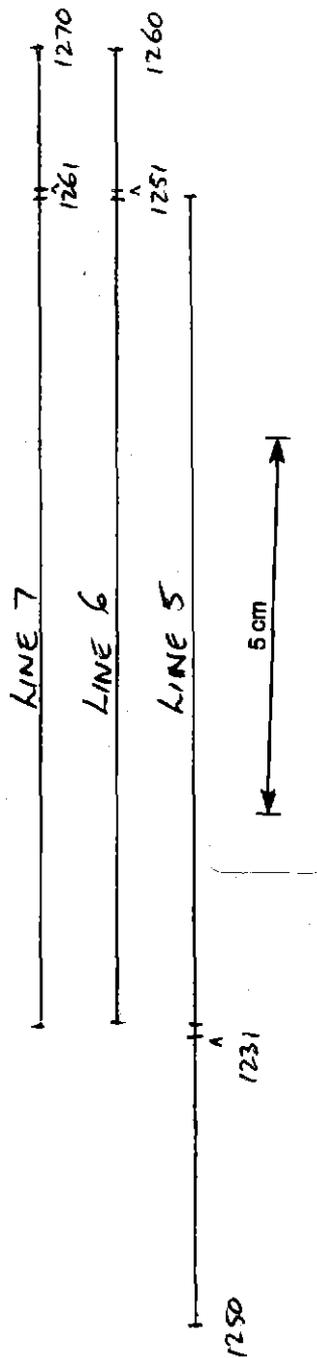
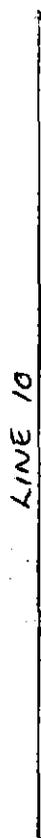
* # 1203 = 5429800 N
532020 E

CROSS LINES @ 100m
SAMPLES @ 20m

SCALE 1:100,000
B-HORIZON SOIL GRID - TARGA



434007



SCALE 1:100,000

B-HORIZON SOIL GRID - TARGA
(LINE EXTENSIONS)