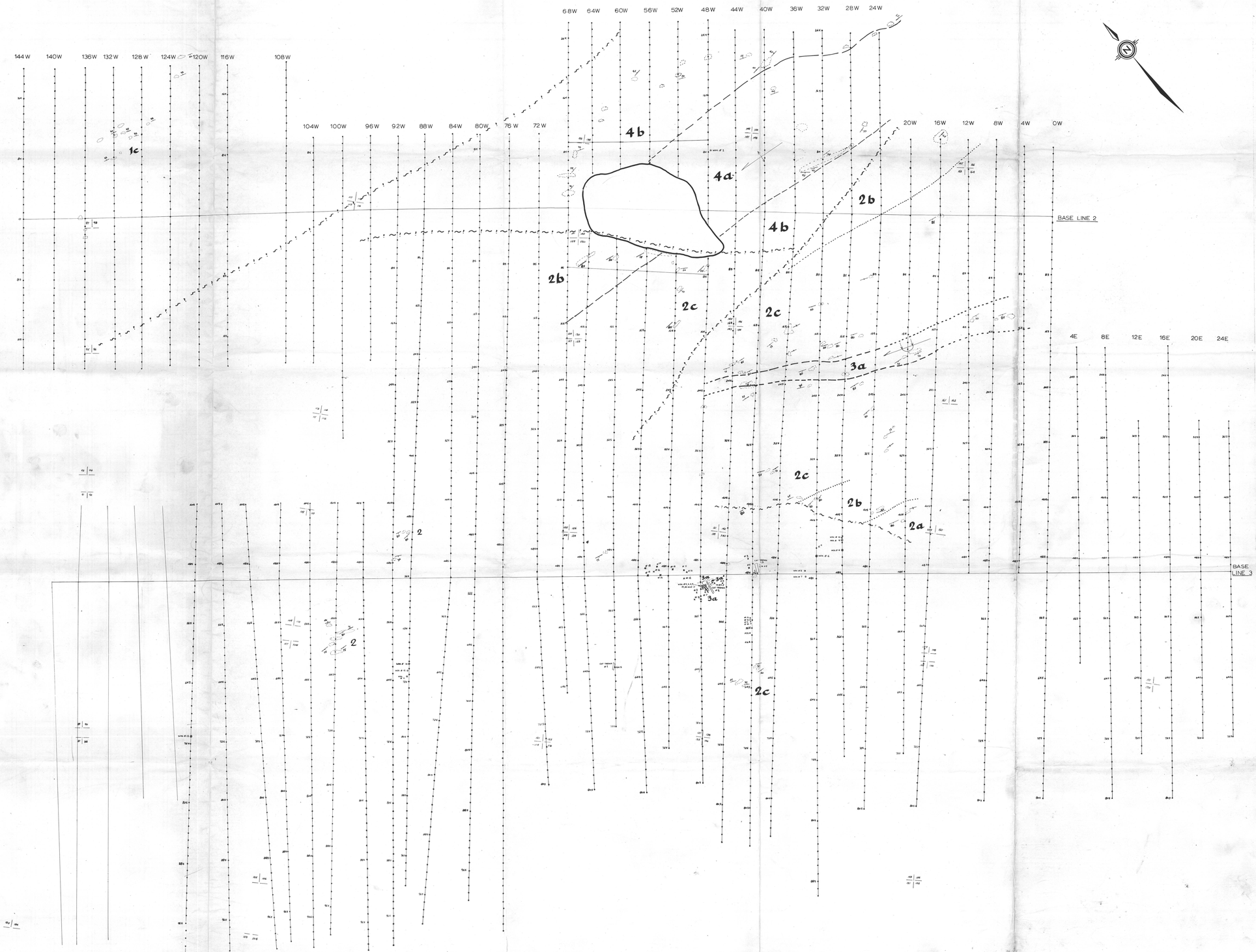

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

PAY MINERAL CLAIMS 105 G/10

GEOLOGY

STADIA SURVEY

SCALE 1" = 400'

GEOLOGY: R. DARNEY
C.L. SMITH
W. ROBERTS

DATE: AUGUST 1967

LEGEND:

CRETACEOUS(?)

- **4e** QUARTZ MONZONITE PORPHYRY: QUARTZ AND ORTHOCLASE PHENOCRYSTS IN A GREY, MILDLY-ALTERED FINE TO MEDIUM GRAINED MATRIX.

UPPER DEVONIAN

- **4d** CHERT-DOLOMITE: DARK GREY-BLACK, MASIVELY-BEDDED. LOCALLY INTERBEDDED WITH GREY DOLOMITE UP TO 40%. UNIT IS QUITE EXTENSIVELY BRECCIATED AND CONTAINS ORIGINAL PAY-SHOWINGS ON 1-16 GROUP.
- **4c** DOLOMITE: DARK GREY, FINE GRAINED, MASSIVE TO WELL BEDDED. MINOR THINLY INTERBEDDED LIMESTONE.
- **4b** DOLOMITE-CHERT: CRYPTOCRYSTALLINE, DARK BROWN, THINLY-BEDDED WITH WELL DEVELOPED FOLIATION, LOCALITY N.E. OF GRID LAKE IS ESSENTIALLY DOLOMITE WITH MINOR INTERBEDS OF PHYLLITE AND CHERT WHILE AREA NORTH OF BARRY LAKE CONTAINED A MUCH HIGHER PERCENTAGE OF INTERBEDDED CHERT.
- **4a** BANDED CHERT: FINELY-BEDDED GREY GREEN CHERT. BANDING IS FINE, (1-2 MM.) AND IN SOME LOCALITIES VERY REGULAR. IN AREA S.E. OF PAY LAKE THE BANDING CONSISTS OF ALTERNATE LAYERS OF GREY, GREENISH-GREY, AND PURPLISH BLACK COLOURED CHERT. BANDING IS REGULAR BUT CRENULATED.

SILURIAN DEVONIAN

- **3a** GRAPHITIC DOLOMITE: MEDIUM-DARK GREY, FINE GRAINED, CRYSTALLINE AND LOCALLY PLATY.
- **3a** HOST DOLOMITE: LIGHT TO DARK GREY, FINE-TO MEDIUM-GRAINED LOCALLY BRECCIATED, SPORATICALLY HYDROTHERMALLY ALTERED BY SILICA AND PYRITE.
- **3a** DOLOMITE: CRYPTOXLINE, DARK BROWN, THINLY BEDDED AND FOLIATED. VERY SIMULAR TO UNIT 4D, BUT LACKS INTERBEDDED CHERT AND PHYLLITE.

MIDDLE-UPPER CAMBRIAN

- **2c** SERICITIC PHYLLITE: LIGHT-MEDIUM GREY, FINE GRAINED WITH WELL DEVELOPED FOLIATION UP TO 15% INTERBEDDED AND CROSS-CUTTING SEGREGATED QUARTS.
- **2b** PHYLLITE: DARK GREY, FINE GRAINED, FOLIATED, AND CONTAINS UP TO 50% SEGREATED QUARTS, BOTH INTERBEDDED AND CROSS CUTTING. FOLIATION NOT AS WELL DEVELOPED AS IN UNIT #3.
- **2a** SPOTTED PHYLLITE: PHYLLITE SPOTTED WITH FINE-GRAINED CRYSTALS OF CORDIERITE AND ANDALUSITE.

PROTEROZOIC (?)

- **1c** QUARTZITE: FINE GRAINED, GREY TO BLACK, MASSIVE-BEDDED.

SYMBOLS:

- GEOLOGICAL CONTACT (DEFINED, APPROXIMATELY, ASSUMED)
- BEDDING (HORIZONTAL, INCLINED, VERTICAL)
- FAULT (ASSUMED)
- FAULT (APPROXIMATELY)
- ISOCLINAL SYNCLINAL AXIS
- ANTICLINAL AXIS
- OUTLINE OF OUTCROP AREA
- OUTCROPS
- WIN. WINKIE DRILL HOLE
- TRENCH
- PIT

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