

Mc ARTHUR RIVER MINING

DIAMOND DRILL HOLE HEADER SUMMARY SHEET

| | | | |
|-------------------------------------|--------------------|--|---------------------|
| HOLE I.D. | <u>99/2</u> | LOCATION (eg.drive name) | <u>: 2H10 TB</u> |
| GRID AZIMUTH | <u>: 090</u> | DESIGN DEPTH (m) | <u>: 205</u> |
| COLLAR INCLINATION | <u>: +9</u> | TOTAL DEPTH (m) | <u>: 207.1</u> |
| <u>SURVEYED COLLAR CO-ORDINATES</u> | | DATE STARTED | <u>: 8/04/1999</u> |
| EASTING | <u>7814.088</u> | DATE FINISHED | <u>: 12/04/1999</u> |
| NORTHING | <u>1819.309</u> | | <u>: LONGYEAR</u> |
| RL | <u>9664.278</u> | <u>CORE INTERVALS ASSAYED:</u> | |
| HOLE/CORE SIZE(S) | <u>:LTK-48</u> | <u>N/A</u> | |
| LOGGED BY | <u>:SP</u> | | |
| D/HOLE SURVEY METHOD | <u>:EASTMAN SS</u> | LOCAL MAG. DEV. | <u>: + 5</u> |
| | | (add to downhole survey azim. reading) | |

RAW DOWNHOLE SURVEY DATA

| Depth (m) | Azimuth(Mag) | Dip | Depth (m) | Azimuth(Mag) | Dip |
|-----------|--------------|------|-----------|--------------|-----|
| 0 | 82 | 6.5 | 90 | 86 | 7 |
| 6 | 82 | 6.5 | 120 | 84.5 | 7 |
| 30 | 84 | 6.75 | 150 | 86 | 6.5 |
| 60 | 84.5 | 7 | 180 | 87 | 6 |

ASSAY SUMMARY

| O/B | TT | Zn% | Pb% | Ag g/t | Fe% |
|-----|----|-----|-----|--------|-----|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | |
|--|--------------------------|---------------------|
| Surveyed Collar & Geology Entered Into Micromine Database | <input type="checkbox"/> | <u>:SP /05/99</u> |
| Assays Entered Into Micromine Database | <input type="checkbox"/> | <u>:SP 26/05/99</u> |
| Surveyed Collar & Geology Transferred Into Vulcan Database | <input type="checkbox"/> | <u>:SP /06/99</u> |
| Assays Transferred Into Vulcan Database | <input type="checkbox"/> | <u>:SP /06/99</u> |

Comments: TARGETED TO INTERSECT #2 OB NEAR TOP OF LOWER FOLD ZONE
HOLE OVERSHOT #2 OB - EOH IN 3/4 BEDS

Mc ARTHUR RIVER MINING

DIAMOND DRILL HOLE PROPOSAL FORM

HOLE I.D. : 99/2

LOCATION (eg.drive name) : ZH10 TB

PROPOSED START DATE : 1/04/99

DESIGN AZIMUTH (GRID) : 090

DESIGN DEPTH : 205

DESIGN INCLINATION : + 9

ESTIMATE COLLAR CO-ORDINATES

SURVEYED COLLAR CO-ORDINATES

EASTING : 7814.0

EASTING : 7814.088

NORTHING : 1819.5

NORTHING : 1819.309

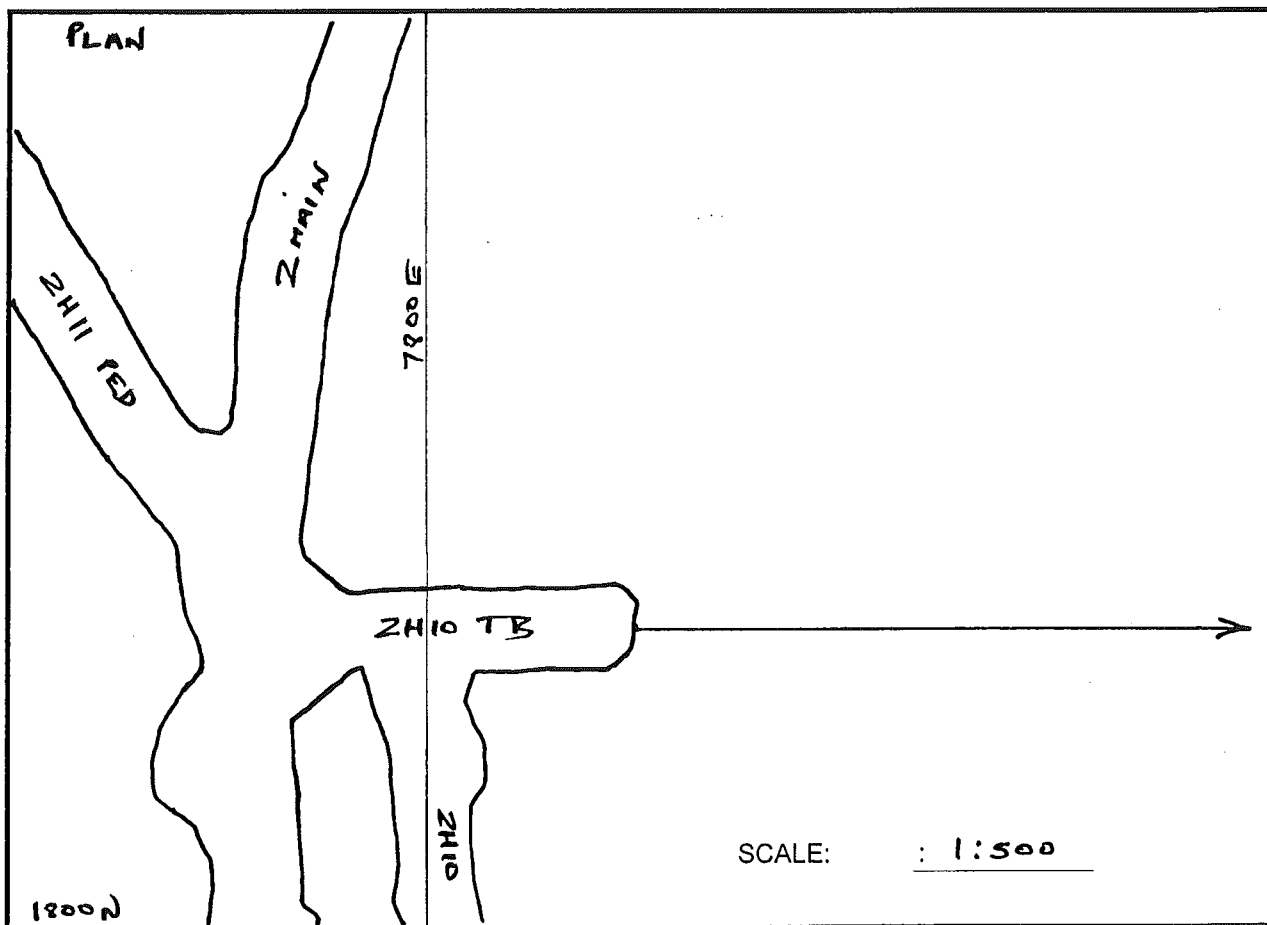
RL : 9664.7

RL : 9664.278

GEOLOGIST : SP

SURVEYOR : JC.

LOCATION SKETCH



Comments: SUMMIT 2 6m, THAL EVERY 30m

JASON.

Mc ARTHUR RIVER MINING
DIAMOND DRILL HOLE PROPOSAL FORM

HOLE I.D. : 99/2

LOCATION (eg. drive name) : ZH10 TB

PROPOSED START DATE : 1/04/99

DESIGN AZIMUTH (GRID) : 090

DESIGN DEPTH : 205

DESIGN INCLINATION : + 9

ESTIMATE COLLAR CO-ORDINATES

SURVEYED COLLAR CO-ORDINATES

EASTING : 7814.0

EASTING : 7814.088

NORTHING : 1819.5

NORTHING : 1819.309

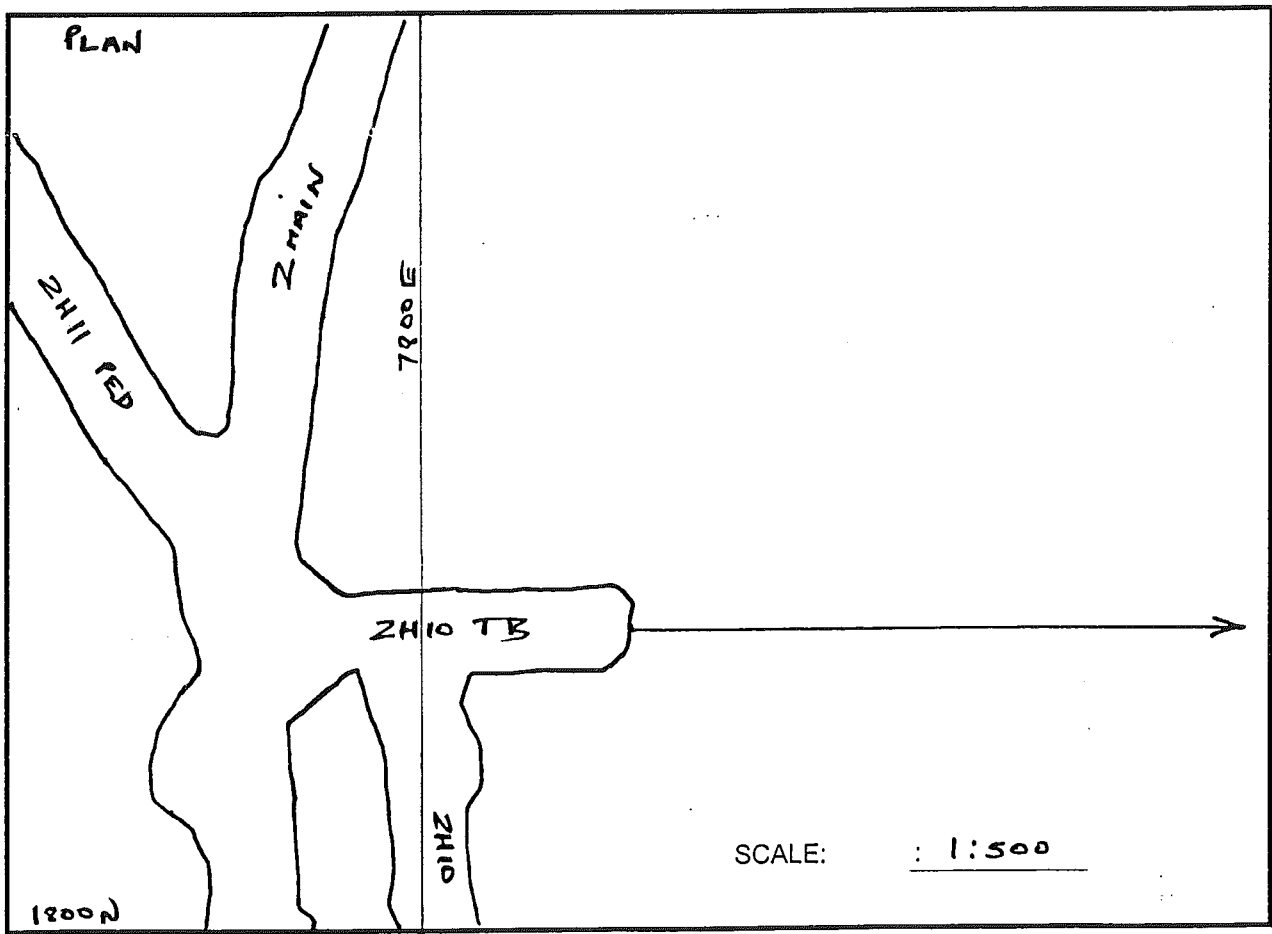
RL : 9664.7

RL : 9664.278

GEOLOGIST : SP

SURVEYOR : J.C.

LOCATION SKETCH



Comments: SURVEY E 6m, THAT EVERY 30m

60241898

McARTHUR RIVER MINING

GEOLOGICAL LOG SHEET

GEO. DATE: SGT 14/04/99

HOLE PAGE: 94/Z 1 of 2

VERSION: 16/01/1995

| TO | COL | WITH | CODE | LITHOLOGY | | DOL | VEIN | ALTERATION | | CR | CO | SULPHIDES | | MIN | TYPE | NAME | Q | OXJ | REC | GEOLOGICAL | | | COMMENTS | |
|-------|------|------|------|-----------|------|-----|------|------------|----|----|----|-----------|----|-----|------|------|---|-----|-----|------------|-----|----|----------|-----|
| | | | | G | LITH | | | TEX | NO | | | NO | PY | | | | | | | DEPTH | BCA | A1 | | OTH |
| 7 | 5 | 3 | 4 | 1 | S | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 30 | |
| 7.7 | LC | | 722 | | TH | M | | | | | | | | | | | | | | | | | | |
| 8.5 | Hand | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 9.0 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 9.7 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 10.35 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 13.7 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 21.1 | | | | | SK | M | | | | | | | | | | | | | | | | | | |
| 26.5 | | | | | SL | M | | | | | | | | | | | | | | | | | | |
| 27.6 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 27.7 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 28.0 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 38.1 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 42.4 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 43.91 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 44.64 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 44.66 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 45.55 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 47.55 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 49.20 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 52.0 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 58.5 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 59.4 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 59.7 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 61.5 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 63.1 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 64.1 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 66.0 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 68.5 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 70.1 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 71.2 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 73.5 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 74.75 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 77.75 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 78.15 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 78.65 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 81.85 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 82.65 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 83.25 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 87.20 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 89.4 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 91.4 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 92.6 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 97.8 | | | | | TH | M | | | | | | | | | | | | | | | | | | |
| 98.2 | | | | | TH | M | | | | | | | | | | | | | | | | | | |

Polymetal 3M Tuff - 20.0m. Key Size = 3cm
 Stable pyritic 3M Tuff. Chest e 51.6
 Tuff 504
 5 cycles - impure
 Core followed 59.4 - 60.0m (Tuff) 46 cm
 Chest e 61.7
 Pan area 60.1 - 61.7m
 9B 69.0 - 69.55 m 40A
 52A 68 74.6 - 76.0
 Chest e 76.10 m
 Core of base. core (only 50m)
 Stable pyritic zone stable
 Core of vein. Breccia
 Mixed, mica stable + breccia
 Chest e breccia + mica
 Manganese silty - 800 g 94.8 - 95.6
 7L in lowest part of structural fault??

REDUCTION OF GEODAT FIELD SURVEY DATA

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FILE : 9904156.srvrpt SURVEYOR : kc
 INSTRUMENT STATION : B21131 INSTRUMENT HEIGHT : -2.906
 EASTING : 7797.791 NORTHING : 1821.254 R.L. : 9668.095

DATE OF SURVEY : 16-Apr-99
 LAYER : DH99/1

R.O. STATION : F21132 R.O. BEARING : 170 36 16

| PT NO | BEARING | V.A. | SLOPE DIST | SIG HT | HORIZ DIST | EASTING | NORTHING | REDUCED LEVEL | FEAT CODE |
|-------|-----------|-----------|------------|--------|------------|----------|----------|---------------|-----------|
| 1 | 170 36 11 | 055 24 33 | 5.566 | 0.000 | 4.582 | 7798.539 | 1816.733 | 9668.349 | 1 |
| 2 | 096 48 17 | 093 10 31 | 16.438 | 0.000 | 16.413 | 7814.088 | 1819.309 | 9664.278 | 1000 |
| 3 | 096 57 45 | 096 11 03 | 16.274 | 0.000 | 16.179 | 7813.851 | 1819.293 | 9663.436 | 1001 |

End of report