036

**C.R.A. EXPLORATION PTY. LIMITED**

# DRILL CORE LOG

SHEET No. 1

TENEMENT NAME TENTH LEGION No. 5IM/15

PLAN – MAP REFERENCE TASH 2 TASH 14

CO-ORDINATES 3669.9N 5180.11E AZIMUTH 360° grid DRILLERS S. RIMAK COMMENCED 6.3.81

DEPTH 142.0m HOLE No. TLC3

RL COLLAR 244.5m INCLINATION -50° DRILL TYPE BOYLES 37 COMPLETED 13.3.81

CASING LEFT 9x3m NW casing, 3x3m NQ rods DPO No(s) 26667/26668

| DEPTH From (M) | DEPTH To(M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ANALABS) Cu | Pb | Zn | Ag | Sn | W | Au | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | TRICONED TO 6.0m - NO CORE | | SLUDGE SAMPLES | | | | | | | | | | | | | |
| 0 | 13.5 | 0.5 | NQ | M | 6.0 - ?13.5 MAGNETITE | Highly weathered to 16.0m. | 877578 | 0 | 3.0m | | 50 | 15 | 420 | 0.5 | 10 | x | | | | |
| 13.5 | 16.2 | 1.2 | to | | Very poor recovery; mostly black granular | 6.0-13.5 Soft crumbly puggy clay matrix | 877579 | 3.0 | 6.0 | | 40 | 15 | 335 | 0.5 | 15 | x | | | | |
| 16.2 | 19.3 | 2.5 | 68m | | magnetite 80-90%, with some interstitial clay. | -rock was originally calc silicate material | 877580 | 6.0 | 9.0 | | 35 | 15 | 320 | 1.0 | 15 | x | x | | | |
| 19.3 | 22.5 | 3.0 | | | 13.5 - 16.1 CALC SILICATE ROCK | with much dissem. mag. and discrete lenses | SPLIT SAMPLES | | | | | | | | | | | | | |
| 22.5 | 25.5 | 2.8 | | | Pale green fibrous skarn rock - tremolite | & massive mag. | 877582 | 6.0 | 13.5 | 0.5 | 790 | 20 | 3200 | 2.0 | 20 | x | | | | |
| 25.5 | 28.5 | 3.0 | | | /diopside with patches & green chlorite | | 583 | 13.5 | 15.5 | 0.2 | 1700 | 70 | 1.3% | 1.0 | 30 | x | | | | |
| 28.5 | 31.3 | 2.8 | | | and epidote with 5-7% mag and trace sp | | 584 | 15.5 | 16.1 | 0.6 | 2750 | 45 | 6.0% | 2.0 | 35 | x | 0.017 | | | |
| 31.3 | 34.3 | 3.0 | | | veining. | | | | | | | | | | | | | | | |
| 34.3 | 37.0 | 2.1 | | | 16.1-19.6 CALC SILICATE ROCK WITH MAGNETITE. | Mag 25-30%, with 2-3% intergrown py | 585 | 16.1 | 16.35 | 0.25 | 1350 | 90 | 3.0% | 2.0 | 6 | x | | | | |
| 37.0 | 40.0 | 2.7 | | | As above, mag dissem and in massive | and 1-2% blebs of sp. | 586 | 16.35 | 18.1 | 0.85 | 920 | 85 | 7.4% | 3.0 | 20 | x | | | | |
| 40.0 | 43.5 | 3.5 | | | bands to 10cm, 2 - 5%. | | 587 | 18.1 | 19.0 | 0.9 | 180 | 15 | 2.5% | 0.5 | 20 | x | | | | |
| 43.5 | 46.5 | 3.0 | | | Gradual Change. | | 588 | 19.0 | 19.5 | 0.5 | 365 | 25 | 2.6% | 1.5 | 15 | x | 0.017 | | | |
| 46.5 | 49.5 | 3.0 | | Css | 19.6-27.1 CALC SILICATE SKARN ROCK. | Mag dissem in narrow alteration zones | 589 | 19.5 | 21.0 | 1.5 | 175 | 20 | 3.3% | 0.5 | 20 | x | | | | |
| | | | | | As above, but magnetite decreases to 2-3%. | and small veinlets. 3-5%. Strong trace | 590 | 21.0 | 22.4 | 1.4 | 40 | 15 | 2.2% | 1.0 | 25 | x | | | | |
| | | | | | Some green actinolite? and ? hornblende. | sp. | 591 | 22.4 | 23.4 | 1.0 | 510 | 15 | 11.5% | 0.5 | 3 | x | | | | |
| | | | | | 22.4-23.1 Green epidote rock with mag 3-5% and | sphalerite 10-15%. | 592 | 23.4 | 24.4 | 0.7 | 25 | 5 | 1.8% | 0.5 | 10 | x | 0.008 | | | |
| | | | | | 23.1-24.4 Green epidote rock alternating with | 23.1-24.4 Sp dissem 1-2% throughout | 593 | 24.4 | 26.0 | 1.6 | 200 | 15 | 2.7% | 1.0 | 7 | x | | | | |
| | | | | | bands of massive magnetite to 30 cm | | 594 | 26.0 | 27.1 | 1.1 | 610 | 10 | 1.4% | 1.0 | 10 | x | | | | |
| | | | | | 24.4-27.1 Massive granular pale green rock | 24.4-26.0 2-3% Sp throughout in small veinlets | 595 | 27.1 | 28.5 | 1.3 | 220 | 10 | 1.4% | 1.0 | 20 | x | | | | |
| | | | | | - diopside/tremolite, with 10-20% crystallic | with mag 1-2%. Trace py. | 596 | 28.5 | 29.9 | 1.4 | 50 | 15 | 8000 | 1.0 | 20 | x | x | | | |
| | | | | | dark green chlorite and abundant epidote | 26.0-27.1 Mag dissem throughout as small | 597 | 29.9 | 30.9 | 1.0 | 155 | 5 | 4700 | 1.0 | 15 | x | | | | |
| | | | | | alteration. | stringers 5-10% with traces sp, py. | 598 | 30.9 | 32.9 | 2.0 | 35 | 5 | 3200 | 0.5 | 4 | x | | | | |
| | | | | | Contact irregular. | | 599 | 32.9 | 34.9 | 1.8 | 35 | 10 | 3450 | 0.5 | 15 | x | | | | |
| | | | | Css | 27.1-47.7 CALC SILICATE ROCK | Traces py, po and sp. | 600 | 34.9 | 36.9 | 1.4 | 15 | 5 | 1550 | 0.5 | 15 | x | x | | | |
| | | | | | Mottled white and green f.gr. matrix - | Thoroughly brecciated fabric which has been | 601 | 36.9 | 38.9 | 1.5 | 30 | 5 | 1800 | 0.5 | 15 | x | | | | |
| | | | | | tremolite/diopside, with major later dark | altered/metasomatised, giving the unusual | 602 | 38.9 | 40.0 | 1.1 | 35 | 10 | 2200 | 0.5 | 9 | x | | | | |
| | | | | | green chloritic alteration, some epidote | spotted texture and crude irregular banding | 603 | 40.0 | 40.5 | 0.5 | 250 | 35 | 7250 | x | 6 | x | | | | |
| | | | | | veining and small patches of brown? idocrase. | Extensive fracturing and brown dendritic staining. | 604 | 40.5 | 42.5 | 2.0 | 15 | 15 | 1050 | x | 10 | 25 | x | | | |
| | | | | | | From 44.3 Gradually reverts to a more massive | 605 | 42.5 | 44.5 | 2.0 | 20 | 15 | 1850 | x | 15 | x | | | | |
| | | | | | | fabric reminiscent of 24.4-27.1 m. | 606 | 44.5 | 46.0 | 1.5 | 25 | 40 | 1950 | 0.5 | 6 | x | | | | |

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**C.R.A. EXPLORATION PTY. LIMITED**
**DRILL CORE LOG**

SHEET No. 2
TENEMENT NAME TENTH LEGION No. S1M/75
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. THC3
RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT DPO No(s)

| DEPTH From (M) | DEPTH To(M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ) Cu | Pb | Zn | Ag | Sn | W | Au | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49.5 | 52.5 | 3.0 | | | Contact 47° | | 877607 | 46.0 | 47.4 | 1.4 | 70 | 15 | 2750 | x | 10 | x | | | |
| 52.5 | 55.5 | 3.0 | | | 47.7-51.4 MAGNETITE WITH SERPENTINITE. | Mag. 40-60% ; sp dissem throughout 1-2% | 552 | 47.4 | 49.0 | 1.6 | 890 | 25 | 2.8% | 1.0 | 6 | x | x | | |
| 55.5 | 58.5 | 3.0 | | | Black crystalline magnetite, crudely banded | ; py as blebs to 20mm, 1% ; po as rare | 553 | 49.0 | 49.8 | 0.8 | 270 | 25 | 2.55% | 0.5 | 6 | x | | | |
| 58.5 | 61.5 | 3.0 | | | ± 40° LCA. The matrix is dark muddy green | interstitial blebs and in small veinlets with | 554 | 49.8 | 51.4 | 1.6 | 285 | 30 | 2.95% | 0.5 | 6 | x | | | |
| | | | | | serpentinite, with some remnants of greyish | py in greyish corestone material, 1-2%. | 932288 | 26.0 | } THIN SECTION SAMPLES. | | | | | | | | | | |
| | | | | | calc silicate rock and small white blebs of | | 289 | 28.4 | | | | | | | | | | | |
| | | | | | refractory minerals (residuals from serpentinite | | 290 | 52.6 | | | | | | | | | | | |
| | | | | | alteration?) | | | | | | | | | | | | | | |
| | | | | | Contact 35° | | | | | | | | | | | | | | |
| | | | | | 51.4-54.0 CALC SILICATE WITH MAGNETITE | Banded 40° in upper 1m. | | | | | | | | | | | | | |
| | | | | | Yellowish grey crystalline tremolite-diopside- | Mag 15-25% dissem throughout with | 555 | 51.4 | 54.0 | 2.6 | 185 | 30 | 2.5% | 0.5 | 4 | x | | | |
| | | | | | epidote (?) matrix with heavily dissem. mag 20-25% | serpentinite; sp 1-2% in veinlets and stringers | | | | | | | | | | | | | |
| | | | | | The yellowish colour is due to incipient | ; Po 1-2% as interstitial blebs ; trace | | | | | | | | | | | | | |
| | | | | | serpentinisation - small stringers of translucent | py as interstitial blebs. | | | | | | | | | | | | | |
| | | | | | serp. 10-15%. | | | | | | | | | | | | | | |
| | | | | S/M | 54.0-56.4 SERPENTINITE WITH MAGNETITE. | 54.0-55.2 Mag 40-50% ; sp 5-7% ; py 2-3% | | | | | | | | | | | | | | |
| | | | | | Almost black massive serpentinite with bands | 55.2-56.4 po 50-60%, virtually massive | 556 | 54.0 | 55.2 | 1.2 | 390 | 30 | 1.45% | 0.5 | x | x | 0.017 | | |
| | | | | | of fine grained magnetite, or heavily dissem | 55.5-55.9, with py/marcasite 2-3%, sp | 557 | 55.2 | 56.4 | 1.2 | 2450 | 25 | 1.45% | 0.5 | x | x | | | |
| | | | | | pyrrhotite. | 1-2%, trace cp? | | | | | | | | | | | | | |
| | | | | | Gradual change | | | | | | | | | | | | | | |
| | | | | CSS/M | 56.4-64.9 ALTERNATING CALC SILICATE | | | | | | | | | | | | | | |
| | | | | | SKARN ROCK AND MAGNETITE/SERPENTINITE. | | | | | | | | | | | | | | |
| | | | | | 56.4-57.2 Massive granular pale green rock | 56.4-57.2 po 5-7%, dissem along | 558 | 56.4 | 57.2 | 0.8 | 200 | 25 | 4000 | 0.5 | 10 | x | | | |
| | | | | | - diopside/tremolite, with dark green chlorite? | weak breccia cracks at approx 50° LCA | | | | | | | | | | | | | |
| | | | | | and abundant epidote alteration | , traces sp, py. | | | | | | | | | | | | | |
| | | | | | Contact 60° 57.2-57.8 CALC SILICATE WITH SERPENTINITE | 57.2-57.8 po 10-15%, mag 10%, py, sp | 559 | 57.2 | 57.8 | 0.6 | 640 | 25 | 7700 | 0.5 | 3 | x | | | |
| | | | | | See above 51.4-54.0. | 1-2%. Dissem; some 3-5 cm bands of | | | | | | | | | | | | | |
| | | | | | 57.8-59.1 Mottled grey rock - tremolite, with | magnetite. py/marcasite appears to be after po. | | | | | | | | | | | | | |
| | | | | | clots of serpentinite and much po. | 57.8-59.1 po 30-35% ; sp 1-2%, traces py. | 560 | 57.8 | 60.0 | 2.2 | 565 | 20 | 6150 | x | x | x | x | | |
| | | | | | Contact 40° 59.1 - 59.5 Magnetite 30-35%, associated | 59.1-59.5 po 20-25% ; mag 30-35% ; sp 1-2% | | | | | | | | | | | | | |
| | | | | | with black serpentinite. | | | | | | | | | | | | | | |

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**C.R.A. EXPLORATION PTY. LIMITED**
**DRILL CORE LOG**

SHEET No. 3
TENEMENT NAME TENTH LEGION No SM 175
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. TLC 3
RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT DPO No(s)

| DEPTH From (M) | DEPTH To(M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ) Cu | Pb | Zn | Ag | Sn | W | Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61·5 | 64·5 | 3·0 | | | Contact 40° 59·5 – 60·0 As above, 57·8 – 59·1 | | | | | | | | | | | | |
| 64·5 | 67·5 | 3·0 | | | 60·0 – 60·4 Massive magnetite | 60·0 – 60·4 Mag 70-80%, po 1-2%, sp 1-2%. | 877561 | 60·0 | 61·3 | 1·3 | 1350 | 20 | 8500 | 0·5 | 4 | × | |
| 67·5 | 70·5 | 3·0 | | | 60·4 – 61·3 Pyrrhotite in black serpentinite. | 60·4 – 61·3 po 70-80%; sp 3-5%; py 1-2%. | | | | | | | | | | | |
| 70·5 | 76·5 | 6·0 | | | Contact 45° 61·3 – 62·6 As above 57·8 – 59·1 | 61·3 – 62·0 po 10%; sp 1-2% | 562 | 61·3 | 62·0 | 0·7 | 500 | 20 | 6200 | × | 8 | × | |
| | | | | | | 62·0 – 63·6 po 10-15%; sp 1%; py 1%; some bands of black serp to 15 cm, 40° CA. | 563 | 62·0 | 63·6 | 1·6 | 510 | 20 | 2100 | × | 4 | × | |
| | | | | | Contact 70° 63·6 – 64·0 Pyrrhotite in serpentinite | 63·6 – 64·0 po 70-80%; py 2-3%. | 564 | 63·6 | 64·0 | 0·4 | 1800 | 25 | 1·35% | 1·0 | 3 | × | 0·008 |
| | | | | | Contact 70° 64·0 – 64·9 Transition zone – serpentinite and mag, po gradually decrease – a banded calc silicate rock becomes dominant (see below) | 64·8 – 64·9 po 5-7%; patchily distributed and finely banded; strong trace sp. Weak py-serpentinite-calcite veinlets. | 565 | 64·0 | 64·9 | 0·9 | 515 | 45 | 5950 | × | × | × | |
| | | | | | Contact 65° | | | | | | | | | | | | |
| | | | | Cst | 64·9 – 67·6 CALC SILICATE ROCK | po 1%, dissem and in small veinlets. | 566 | 64·9 | 66·2 | 1·3 | 70 | 30 | 1800 | × | 4 | × | |
| | | | | | Crudely banded bone coloured mottled ? tremolite – diopside skarn rock. | Strong trace sp, py. | 567 | 66·2 | 67·6 | 1·4 | 185 | 40 | 4800 | × | 4 | × | |
| | | | | Lst | 67·6 – 70·8 LIMESTONE | Banded 30-35° – recrystallisation or | 568 | 67·6 | 69·3 | 1·7 | 15 | 80 | 250 | 0·5 | 9 | × | 0·008 |
| | | | | | Grey crystalline impure limestone with minor serpentinite zones and tremolite/diopside zones. with white calcite segregations. | ? bedding. Trace py in calcite/serpentinite | 877608 | 69·3 | 70·8 | 1·5 | 170 | 210 | 1500 | 1·0 | 6 | × | × |
| | | | | | | | 932291 | 69m | THIN | SECTION | SAMPLE. | | | | | | |
| | | | | | Contact 55° | | | | | | | | | | | | |
| | | | | Css | 70·8 – 71·5 CALC SILICATE ROCK Green epidote – tremolite – diopside rock with 30% pink crystalline garnets. | | 877347 | 70·8 | 71·5 | 0·7 | 25 | 30 | 100 | 1·0 | 25 | 20 | |
| | | | | Lst | 71·5 – 73·9 LIMESTONE | Mag dissem. throughout Lst or | 877609 | 71·5 | 73·0 | 1·5 | 90 | 195 | 1600 | 1·0 | 8 | × | |
| | | | | | Grey crystalline limestone with serpentinite alteration and some finely dissem. mag. | in crystalline patches with serp. and calcite 3-5%. Po finely dissem. 1-2%; py | 610 | 73·0 | 73·9 | 0·9 | 510 | 410 | 5600 | 4·5 | 5 | × | |
| | | | | | , minor crystalline mag intervals with serp. and calcite, minor garnets. | in blebs 1%; trace sp. | | | | | | | | | | | |
| | | | | Cst | 73·9 – 75·2 CALC SILICATE ROCK See 64·9 – 67·6 for description. | | 611 | 73·9 | 75·2 | 1·3 | 170 | 80 | 1200 | 1·5 | × | × | |

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**C.R.A. EXPLORATION PTY. LIMITED**
**DRILL CORE LOG**

SHEET No. 4
TENEMENT NAME TENTH LEGION No. 51M/75
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. T.L. C.3.
RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT DPO No(s)

| DEPTH From (M) | DEPTH To(M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by.....) Cu | Pb | Zn | Ag | Sn | W | Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Contact 35° | | | | | | | | | | | | |
| 76·5 | 79·5 | 3·0 | | Css | 75·2-75·8 CALC SILICATE SKARN | | 877612 | 75·2 | 75·8 | 0·6 | 35 | 40 | 120 | 1·0 | 20 | 130 | x |
| 79·5 | 82·5 | 3·0 | | | See 70·8-71·5 for description. | | | | | | | | | | | | |
| 82·5 | 85·5 | 3·0 | | lst | Contact 55° 75·8-76·9 LIMESTONE WITH SERPENTINITE | Mag 2-3% ,weak trace cp,po. | 613 | 75·8 | 76·9 | 1·1 | 20 | 95 | 270 | 1·5 | 3 | x | |
| 85·5 | 88·5 | 3·0 | | | Grey lst with olive green drab serpentinite | | | | | | | | | | | | |
| 88·5 | 91·8 | 3·3 | | | 30%; banded | | | | | | | | | | | | |
| 91·8 | 94·5 | 2·7 | | | Contact 50° | | | | | | | | | | | | |
| 94·5 | 97·5 | 3·0 | | Csd. | 76·9-78·5 CALC SILICATE ROCK | Fine serpentinite veining. | 614 | 76·9 | 78·5 | 1·6 | 15 | 60 | 250 | 0·5 | 10 | 20 | |
| 97·5 | 100·4 | 2·9 | | | Green massive diopsidic rock with qtz | | | | | | | | | | | | |
| 100·4 | 103·5 | 3·1 | | | segregations , minor garnets. | | | | | | | | | | | | |
| 103·5 | 106·5 | 3·0 | | | Contact 40° | | | | | | | | | | | | |
| 106·5 | 109·5 | 3·0 | | lst | 78·5-79·4 LIMESTONE WITH SERPENTINITE. | Banded 45° LCA ; 10-12% serpentinite | 615 | 78·5 | 79·4 | 0·9 | 35 | 80 | 525 | 1·0 | x | 15 | |
| 109·5 | 112·1 | 2·5 | | | See 75·8-76·9 for description | 1-2% finely dissem. mag.; trace py ,sp. | | | | | | | | | | | |
| | | | | Cst | 79·4-80·4 CALC SILICATE ROCK | Traces po near contacts; weak calcite | 616 | 79·4 | 80·4 | 1·0 | 75 | 40 | 390 | 0·5 | 8 | 65 | x |
| | | | | | See 73·9-75·2 for description. | veinlets with rare blebs py. | | | | | | | | | | | |
| | | | | | Contact 60° | | | | | | | | | | | | |
| | | | | lst | 80·4-90·1 LIMESTONE, altered. | 80·4-81·7 Po dissem in lst 3-5%; sp 1% | 617 | 80·4 | 81·7 | 1·3 | 240 | 650 | 6400 | 8·5 | 4 | x | |
| | | | | | Grey crystalline rock with olive green | Patches dark green serp with calcite and | 932292 | 86·1 | THIN SECTION SAMPLE. | | | | | | | | |
| | | | | | serpentinite banding 40-60° LCA. Very altered, | garnets. Mag. dissem. up to 2% for the interval | | | | | | | | | | | |
| | | | | | with patches of bone white calc silicates, and | 81·7-85·8 Mag dissem in grey lst 2-3% ,trace | 618 | 81·7 | 82·2 | 0·5 | 10 | 190 | 310 | 0·5 | x | x | |
| | | | | | more rarely green diopsidic rocks up to 0·8m | po ,trace py in fine calcite veining. | 619 | 82·2 | 83·8 | 1·6 | 15 | 65 | 150 | 0·5 | 3 | x | |
| | | | | | thick throughout the interval, with irregular | 85·8-87·4 Mag 2-3%, locally 10%, dissem with | 620 | 83·8 | 84·2 | 0·4 | R.O | 430 | 770 | 2·5 | x | x | x |
| | | | | | contacts. | brown serp alteration ; po 1-2%, locally 20%, | 621 | 84·2 | 85·8 | 1·6 | 20 | 50 | 70 | 0·5 | x | x | |
| | | | | | Contact 60° 85·8-87·4 White calc silicate rock with | py in veinlets with mag 1-2%. | 622 | 85·8 | 86·5 | 0·7 | 90 | 1200 | 2150 | 5·5 | x | x | |
| | | | | | brown serpentinite alteration | 87·4-89·5 po, finely dissem 3-7% | 623 | 86·5 | 87·4 | 0·9 | 70 | 825 | 450 | 4·0 | x | 30 | |
| | | | | | Contact 60° | 89·5-90·1 po, finely dissem 10%, banded. | 624 | 87·4 | 89·0 | 1·6 | 70 | 150 | 810 | 1·0 | 9 | x | x |
| | | | | Cst/lst | 90·1-111·5 CALC SILICATES WITH LIMESTONE. | 90·1-98·5 Po dissem. in discrete intervals | 625 | 89·0 | 89·5 | 0·5 | 20 | 125 | 35 | 0·5 | x | x | |
| | | | | | Banded rock - alternating 10-20 cm intervals of | assoc. with silicified zones. Traces ultramine | 626 | 89·5 | 91·2 | 1·7 | 30 | 45 | 235 | 0·5 | x | x | |
| | | | | | yellow (serp alteration) and bone white calc | mag. in black fine bands in carbonate. | 627 | 91·2 | 92·0 | 0·8 | 55 | 25 | 50 | 1·0 | 9 | x | |
| | | | | | silicates, finely banded 35-45°, and grey and | 98·5-104·2 Traces po with serp. in discrete | 628 | 92·0 | 92·7 | 0·7 | 215 | 25 | 50 | 0·5 | x | 20 | 0·008 |
| | | | | | white limestone intervals - finely banded 1-5mm | zones. | 629 | 92·7 | 93·6 | 0·9 | 25 | 65 | 690 | 1·0 | 7 | 20 | |
| | | | | | white and black recrystallised carbonates. | | 630 | 93·6 | 95·1 | 1·5 | 20 | 15 | 150 | x | x | x | |

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C.R.A. EXPLORATION PTY. LIMITED

# DRILL CORE LOG

SHEET No. 5

TENEMENT NAME TENTH LEGION No. 51M/75

PLAN – MAP REFERENCE

CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. T.L.C.3

RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT DPO No(s)

| DEPTH From (M) | DEPTH To(M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization |
|---|---|---|---|---|---|---|
| | | | | | Contact 75° | |
| 112·1 | 115·1 | 3·0 | | | 104·2 – 111·5 Major constituent grey crystalline | 104·2 – 111·5 po dissem 3-5% in grey lst |
| 115·1 | 118·1 | 3·0 | | | lst with serp and po, with lesser yellowish | , mag finely dissem 1-2% throughout. |
| 118·1 | 121·3 | 3·3 | | | calc silicates. | |
| 121·3 | 124·5 | 3·0 | | | 108·4 – 109·0 Patch of green and pink calc silicate | rock, finely bedded 45°. |
| 124·5 | 127·5 | 2·9 | | | 110·3 – 110·8 Black chert interval, brecciated | and metasomatised. |
| 127·5 | 130·5 | 3·0 | | | Contact 55° | |
| 130·5 | 133·5 | 3·0 | | Css | 111·5 – 132·8 CALC SILICATE (SKARN) ROCKS. | 111·5 – 112·6 traces po as blebs, stringers (d) |
| | | | | | Alternating intensely altered rocks of any | 112·6 – 114·6 Minor calcite – py – mag veining (a) |
| | | | | | of the following 4 types, in intervals | 114·6 – 116·5 10% dissem po, mag, traces py (b) |
| | | | | | from 10 cm to 2·5 m; (a) Mottled | 116·5 – 117·7 finely dissem mag 1-2%, trace po. (b) |
| | | | | | pink and yellow-brown mtk – idocrase, | 117·7 – 119·0 po dissem 5-7%, f.gr. mag 2-3% |
| | | | | | diopside and ? garnet. | Marasite, py after po 1-2%. (a/b) |
| | | | | | (b) Mottled grey | 119·0 – 120·4 trace mag, po (a) |
| | | | | | and white rock – tremolite/diopside (Cst) | 120·4 – 121·4 po dissem, along stringers 15-20% |
| | | | | | that has been silicified; the grey colour | , degraded to py. Trace mag? (b) |
| | | | | | is due to disseminated po and magnetite. | 121·4 – 122·9 Mag dissem throughout 3-5%, |
| | | | | | (c) Mottled greens, | intergrown with 2-3% po (c) |
| | | | | | yellows, pinks and browns – appears to | 122·9 – 123·6 po dissem throughout, partially |
| | | | | | be type (a), that has been thoroughly | degraded to py. (d) |
| | | | | | serpentinised. | 123·6 – 125·3 Weak calcite veinlets (d) |
| | | | | | (d) grey green rock | 125·3 – 125·7 po, py, dissem. 10% (d) |
| | | | | | mottled with pink – diopside-tremolite | 125·7 – 127·1 No mineralisation (d) |
| | | | | | rock with minor epidote veining and | 127·1 – 128·6 po, py, marasite in veinlets and |
| | | | | | patches of ? Mn silicates, silicified. | disseminated. 10-15% (d) |
| | | | | | Types a, b, c originally Cst? | 128·6 – 129·0 1-2% po; mag-serp veinlets (a) |
| | | | | | Type d originally Csd? | 129·0 – 129·5 trace po, py in veinlets, blebs (d) |
| | | | | | 129·5 – 129·9 Grey hornfelsed cherty sediment | 129·5 – 129·9 2-3% py dissem., and as |
| | | | | | less. | bedded laminae. |
| | | | | | | 129·9 – 132·8 trace fine magnetite (a) |

| Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by.....) Cu | Pb | Zn | Ag | Sn | W | Au |
|---|---|---|---|---|---|---|---|---|---|---|
| 877631 | 95·1 | 95·8 | 0·7 | 35 | 15 | 340 | 0·5 | × | × | |
| 632 | 95·8 | 96·4 | 0·6 | 20 | 40 | 210 | 0·5 | 4 | 15 | 0·025 |
| 633 | 96·4 | 97·3 | 0·9 | 10 | 25 | 920 | 0·5 | × | 15 | |
| 634 | 97·3 | 98·5 | 1·2 | 30 | 25 | 440 | 0·5 | 5 | 15 | |
| 635 | 98·5 | 99·4 | 0·9 | 30 | 5 | 40 | × | 3 | 20 | |
| 636 | 99·4 | 99·8 | 0·4 | 75 | × | 45 | × | 7 | 40 | × |
| 637 | 99·8 | 100·5 | 0·7 | 15 | 5 | 20 | 0·5 | × | × | |
| 638 | 100·5 | 102·1 | 1·6 | 30 | 15 | 45 | 0·5 | 20 | 20 | |
| 639 | 102·1 | 103·0 | 0·9 | 5 | 15 | 60 | × | × | × | |
| 640 | 103·0 | 103·8 | 0·8 | 20 | 10 | 75 | 0·5 | × | × | × |
| 641 | 103·8 | 104·2 | 0·4 | 20 | 70 | 400 | 1·0 | × | × | |
| 642 | 104·2 | 106·2 | 2·0 | × | 30 | 60 | 0·5 | × | × | |
| 643 | 106·2 | 107·0 | 0·8 | 25 | 90 | 1500 | 1·0 | 6 | × | |
| 644 | 107·0 | 108·4 | 1·4 | 15 | 55 | 840 | 0·5 | × | × | × |
| 645 | 108·4 | 109·0 | 0·6 | 10 | 75 | 300 | 0·5 | 5 | 15 | |
| 646 | 109·0 | 110·3 | 1·3 | 10 | 35 | 100 | 0·5 | × | × | |
| 647 | 110·3 | 110·8 | 0·5 | 15 | 35 | 75 | 0·5 | 5 | × | |
| 648 | 110·8 | 111·5 | 0·7 | 55 | 130 | 1100 | 2·0 | × | × | 0·033 |
| 649 | 111·5 | 112·6 | 1·1 | 25 | 35 | 100 | 0·5 | 9 | × | |
| 650 | 112·6 | 114·0 | 1·4 | 35 | 95 | 450 | 1·0 | × | × | |
| 651 | 114·0 | 115·1 | 1·1 | 115 | 25 | 130 | 0·5 | 4 | 10 | |
| 652 | 115·1 | 116·5 | 1·4 | 90 | 95 | 115 | 0·5 | × | × | 0·017 |
| 653 | 116·5 | 117·7 | 1·2 | 30 | 95 | 180 | 1·0 | 10 | 35 | |
| 654 | 117·7 | 119·0 | 1·3 | 75 | 50 | 140 | 1·0 | × | × | |
| 655 | 119·0 | 120·4 | 1·4 | 30 | 100 | 340 | 1·0 | × | × | |
| 656 | 120·4 | 121·4 | 1·0 | 110 | 25 | 155 | 1·0 | 4 | × | × |
| 657 | 121·4 | 122·9 | 1·4 | 20 | 90 | 1400 | 1·5 | × | × | |
| 658 | 122·9 | 123·6 | 0·7 | 55 | 30 | 400 | 1·0 | × | × | |
| 659 | 123·6 | 125·3 | 1·7 | 5 | 25 | 60 | 0·5 | 5 | 20 | |
| 660 | 125·3 | 125·7 | 0·4 | 30 | 25 | 95 | × | 5 | × | × |
| 661 | 125·7 | 127·1 | 1·4 | 5 | 25 | 45 | × | × | × | |

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**C.R.A. EXPLORATION PTY. LIMITED**
**DRILL CORE LOG**

SHEET No. 6
TENEMENT NAME TENTH LEGION No. 5.M/75
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. T.L.C.3
RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT DPO No(s)

| DEPTH From (M) | DEPTH To(M) | Core Rec. (M) | Core Size | Graphic Log | CORE DESCRIPTION | SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization | Sample No. | From (M) | To (M) | Rec (M) | ASSAY VALUES (Analysed by ) Cu | Pb | Zn | Ag | Sn | W | Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Contact 25° | | | | | | | | | | | | |
| 33.5 | 136.5 | 2.9 | | Lst | 132.8-139.7 LIMESTONE, altered. | 132.8-135.3 Ultrafine magnetite in lst. 5-10%; trace py in veinlets. | 87662 | 127.1 | 128.6 | 1.5 | 45 | 30 | 195 | 0.5 | 5 | x | |
| 136.5 | 139.5 | 3.0 | | | See 80.4-90.1 for description. The rock | | 663 | 128.6 | 129.0 | 0.4 | 15 | 100 | 565 | 1.0 | x | x | |
| 139.5 | 142.0 | 2.5 | | | has a banded, 'striped' appearance - bands | 135.3-139.7 Ultrafine mag in grey lst, 5%. | 664 | 129.0 | 129.5 | 0.5 | 25 | 20 | 85 | 1.0 | 7 | x | x |
| | | | | | of yellow serpentinite with white calc | | 665 | 129.5 | 129.9 | 0.4 | 40 | 20 | 60 | 0.5 | x | x | |
| | | | | | silicate or remobilised carbonates, mostly | | 666 | 129.9 | 131.3 | 1.4 | 30 | 95 | 410 | 1.0 | x | 10 | |
| | | | | | < 1 cm thick. | | 667 | 131.3 | 132.8 | 1.5 | 15 | 50 | 185 | 0.5 | x | x | |
| | | | | | 136.8 Banding 40° | | 668 | 132.8 | 134.7 | 1.7 | 35 | 65 | 195 | 1.0 | x | x | 0.025 |
| | | | | | Contact 40° | | 669 | 134.7 | 135.3 | 0.6 | 10 | 120 | 700 | 1.5 | x | 10 | |
| | | | | Csd | 139.7-142.0 CALC SILICATE ROCK. | 139.7-142.0 Minor qtz-calcite veining. | 670 | 135.3 | 136.5 | 1.2 | 5 | 30 | 250 | 1.0 | x | x | |
| | | | | | Pinkish and greenish grey well banded | | 671 | 136.5 | 138.2 | 1.7 | 5 | 60 | 290 | 1.0 | x | x | |
| | | | | | silicified ? Diopside-tremolite rock; alternating | | 672 | 138.2 | 139.7 | 1.5 | 15 | 35 | 155 | 0.5 | x | x | 0.017 |
| | | | | | colour bands 5-10mm. Some pink? Mn silicates | | 673 | 139.7 | 141.0 | 1.3 | x | 20 | 105 | 0.5 | 4 | 10 | |
| | | | | | 141 Banding 15°. | | 674 | 141.0 | 142.0 | 1.0 | x | 20 | 110 | 0.5 | x | x | |
| | | | | | END OF HOLE 142.0 m. | | 932293 | 113.0 | } THIN SECTION SAMPLES | | | | | | | | |
| | | | | | | | 294 | 114.8 | | | | | | | | | |
| | | | | | | | 295 | 122 | | | | | | | | | |

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