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592010

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

SHEET No. 1 of 5

TENEMENT NAME ROCKY CAPE No. 4/77

PLAN – MAP REFERENCE TEMMA - LITTLE EAL GRID

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS OVERLAND COMMENCED 05·10·82 DEPTH 109·7 metres HOLE No. DD82 LE1

RL COLLAR ..... INCLINATION –50° DRILL TYPE SCOUT 250 COMPLETED 08·10·82 CASING LEFT Nil DPO No(s) 30211

| 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 | Cp/Py | As | Fe | W | Sn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PERCUSSION DRILLED TO 36·5m | | | | | | | | | | | | | | |
| | | | | | INTERSECTED H2O AT 15m – NEEDED | | | | | | | | | | | | | | |
| | | | | | FOAM TO LIFT CUTTINGS – MUCH | | | | | | | | | | | | | | |
| | | | | | CONTAMINATION. | | | | | | | | | | | | | | |
| | | | | | INTERBEDDED QUARTZITES AND SILTSTONES | | | | | | | | | | | | | | |
| 0·0 | 8·0 | – | – | | Weathered siltstones and quartzites | Soil 0–1·0m | 972935* | 0·0 | 2·0 | ? | 355 | 20 | 280 | 1·5 | 10/– | x | – | 10 | 7 |
| | | | | | lt yellow gy sl. weathered qtzites with | py crystals = 1% | 972936* | 2·0 | 4·0 | ? | 135 | 5 | 35 | 0·5 | 5/– | x | – | x | 3 |
| | | | | | occ lt purple bands. At 5m becomes | | 972937* | 4·0 | 6·0 | ? | 920 | 15 | 40 | x | 5/ | x | – | 10 | 8 |
| | | | | | med–lt gy qtzites and med–lt gy | sl py | 972938* | 6·0 | 8·0 | ? | 685 | 5 | 30 | x | 15/– | x | – | 10 | 7 |
| | | | | | laminated siltstones | sl chloritic | | | | | | | | | | | | | |
| | | | | | QUARTZITES | | | | | | | | | | | | | | |
| 8·0 | 14·0 | – | – | | med and lt gy qtzites, occ silty | Occ py > cp minor qtz veining. min² | 972939* | 8·0 | 10·0 | ? | 880 | 5 | 30 | 1·0 | 15/– | x | – | 10 | 6 |
| | | | | | interbeds. Becomes dk gy qtzite at | in veins. | 972940* | 10·0 | 12·0 | ? | 465 | 5 | 40 | x | 10/– | x | – | x | 3 |
| | | | | | 10m. Some minor bl chalky at | min² stronger at 12m cp + py min² | 972941* | 12·0 | 14·0 | ? | 1100 | x | 40 | x | 5/– | x | – | X | 5 |
| | | | | | 12m. | occ. with sl. chloritic zones – occ. with | | | | | | | | | | | | | |
| | | | | | | qtz veins. | | | | | | | | | | | | | |
| | | | | | SHALES AND QUARTZITES | | | | | | | | | | | | | | |
| 14·0 | 20·0 | – | – | | Bl shale fragz with 5% qtz | 5% qtz veins becomes 10% qtz veins | 972942* | 14·0 | 16·0 | ? | 4800 | x | 50 | 0·5 | 10/– | x | – | x | 6 |
| | | | | | veining. At 16·0m some V.dk | at 16m. Cp > py. Occ qtzite bands | 972943* | 16·0 | 18·0 | ? | 4250 | 15 | 105 | 1·0 | 45/– | x | – | x | 4 |
| | | | | | gy siltstones/qtzites. | chloritic – med gy gp. | 972944* | 18·0 | 20·0 | ? | 5900 | 25 | 140 | 0·5 | 50/x | x | – | x | 7 |

* PERCUSSION SAMPLES

592011

C.R.A. EXPLORATION PTY. LIMITED

# DRILL CORE LOG

SHEET No. 2 of 5

TENEMENT NAME ROCKY CAPE No. 1/77

PLAN – MAP REFERENCE TEMMA - LITTLE SEL GRID

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS OVERLAND COMMENCED 05·10·82 DEPTH 109·7 metres HOLE No. DD82 LE 1

RL COLLAR ____ INCLINATION −50° DRILL TYPE SCOUT 250 COMPLETED 08·10·82 CASING LEFT Nil DPO No(s) 30211

| 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 | Co/As | As | Fe | W | Sn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20·0 | 28·0 | – | | | QUARTZITES | | | | | | | | | | | | | | |
| | | | | | Med-dk gy qfsites, maybe some minor bl sl. | 5–10% reef qfs – some vuggy lining qfs py > cp. | 972945* | 20·0 | 22·0 | ? | 4250 | 20 | 105 | 1·5 | 30/– | x | – | 15 | 3 |
| | | | | | | | 972946* | 22·0 | 24·0 | ? | 4550 | 20 | 90 | 0·5 | 40/– | x | – | x | 5 |
| | | | | | Becomes med gy gy sl. chloritic at 22m. | | 972947* | 24·0 | 26·0 | ? | 2250 | 5 | 75 | 0·5 | 25/– | x | – | x | 4 |
| | | | | | | | 972948* | 26·0 | 28·0 | ? | 1700 | 5 | 70 | 0·5 | 20/– | x | – | x | x |
| | | | | | At 26m 5% bl sl – contamination? | | | | | | | | | | | | | | |
| 28·0 | 36·5 | – | – | | SILTSTONES AND QUARTZITES | | | | | | | | | | | | | | |
| | | | | | Med-dk gy qfsites 70% + 10% qfs vein material and dk gy gy chloritic shaley siltstones. | 10% vein material py > cp more cp at 30m. | 972949* | 28·0 | 30·0 | ? | 2250 | 10 | 70 | 0·5 | 25/– | x | – | x | x |
| | | | | | | | 972950* | 30·0 | 32·0 | ? | 1800 | 5 | 70 | x | 15/– | x | – | x | x |
| | | | | | | | 972951* | 32·0 | 34·0 | ? | 1850 | 15 | 60 | 1·0 | 15/– | x | – | x | x |
| | | | | | | | 972952* | 34·0 | 36·5 | ? | 1000 | 5 | 50 | x | 25/– | x | – | x | x |
| 36·5 | 38·5 | 1·65 | BQ | | QUARTZITES | | | | | | | | | | | | | | |
| | | | | | Finely laminated <1mm med + dk gy qfsites v F.g. | Occ joints – py min². At 38m occ thin 1–2mm qfs veins x-cutting. | 972958G | 36·5 | 38·15 | 1·65 | 225 | 15 | 70 | x | 35/– | x | – | 35 | 4 |
| | | | | | BRECCIA ZONE | | | | | | | | | | | | | | |
| 38·15 | 39·74 | 1·47 | BQ | | Qfs vein breccia zone. minor qfsites as angular inclusions in vein material | 38·25–38·35 – 60% py Illaite alt'n – moderate minor clean zones silicified – chloritic. | 972959 | 38·15 | 39·74 | 1·47 | 1·14% | 1250 | 1700 | 10·0 | To 100% | x | – | x | x |
| | | | | | QUARTZITES | | | | | | | | | | | | | | |
| 39·74 | 58·50 | 17·5 | BQ | | med-dk gy – dkgy zones fine grained more silty – shaley | Illaite alt'n sl–mod py min² | 972960 | 39·74 | 41·0 | 1·0 | 650 | 45 | 85 | x | 15/– | x | – | x | x |
| | | | | | Qfsites banded – coarser with depth with dkgy more silty interbeds | specks and blebs(occ) > cp min². | 972961 | 41·0 | 42·2 | 0·76 | 580 | 25 | 30 | 1·0 | 10/– | x | – | x | x |
| | | | | | | 41·5 m Qfs vein brecciated | 972962G | 42·2 | 45·23 | 2·50 | 460 | 15 | 50 | x | 20/– | x | – | 45 | 9 |
| | | | | | | core x cutting. | 972963 | 45·23 | 45·62 | 0·39 | 8750 | 35 | 80 | 40 | 15/– | x | – | x | 7 |
| | | | | | Qfsite beds upto 4cm wide | | 972964G | 45·62 | 48·15 | 2·50 | 435 | 10 | 45 | 0·5 | 20/– | x | – | 35 | 5 |

G GRIND SAMPLE

* PERCUSSION SAMPLES.

592012 1

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

SHEET No. 3 of 5
TENEMENT NAME ROCKY CAPE No. 177
PLAN – MAP REFERENCE TEMMA – LITTLE EEL GRID

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS OVERLAND COMMENCED 05·10·82 DEPTH 109·7 metres HOLE No DD82LE1
RL COLLAR INCLINATION −50° DRILL TYPE SCOUT 250 COMPLETED 08·10·82 CASING LEFT Nil DPO No(s) 30211

| 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 | Co/An | As | Fe | W | Sn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | SS dyke(s) observed facing east (uphole). Increasing chlorite alt$^{n}$ with depth | Minor bedding displacements upto 5mm – some beds show a greater degree of chloritic alt$^{n}$ than others. Cp stringers 1-2mm wide 45·3 – 45·6m – displaced | 972965$^{G}$ | 48·15 | 50·8 | 2·65 | 295 | 20 | 35 | 1·0 | 25/– | x | – | 10 | 5 |
| | | | | | | | 972966$^{G}$ | 50·8 | 53·25 | 2·45 | 275 | 20 | 30 | 0·5 | 20/x | x | – | 30 | 9 |
| | | | | | | | 972967$^{G}$ | 53·25 | 56·3 | 3·05 | 145 | 30 | 55 | 0·5 | 25/– | x | – | 15 | 4 |
| | | | | | THIN SECTION 64·2m (975868) INDURATED SILTSTONE. | bedding upto 1-2mm. EAST FACING – uphole 45·9m pale green chlorite veinlet 46·9m 20cm qtz vein – sweet qtz? Increasing chlorite alt$^{n}$ with depth 50·4m minor py min$^{2}$ 52·3m 10cm qtz-chlorite vein + 20% py 53m – core broken chlorite alt$^{n}$ strong 54·7m – 56m mod-strong chlorite alt$^{n}$ | 972968$^{G}$ | 56·3 | 58·5 | 2·2 | 85 | 15 | 25 | 0·5 | 10/– | x | – | x | x |
| | | | | | SILTSTONES | | | | | | | | | | | | | | |
| 58·5 | 65·8 | 7·3 | BQ | | Mod-finely laminated creamy-grey siltstones with thin qtz bands-chlorite segregations in coarser grained beds | Mod. fractured 3 at L 67° at 64·2m | 972969$^{G}$ | 58·5 | 61·4 | 2·9 | 120 | 20 | 25 | x | 20/– | x | – | 15 | x |
| | | | | | | Joint and qtz vein at 64·6m V. chloritic | 972970$^{G}$ | 61·4 | 64·04 | 2·64 | 310 | 10 | 40 | 1·0 | 20/– | x | – | 35 | x |
| | | | | | | in general sequence only sl. chloritic. THIN SECTION 64·2m (975868) INDURATED SILTSTONE | 972971$^{G}$ | 64·04 | 65·08 | 1·76 | 245 | 5 | 35 | 0·5 | 20/– | 100 | – | 40 | 1 |
| 65·8 | 76·3 | 8·67 | BQ | | QUARTZITES Sl. silty of 1$^{st}$ metre – med. dk grey core fairly broken – veined – chloritic-sericitic – micro faulting – beds displaced – some chloritic alt$^{n}$ When core more massive more than qtz veins developed = 1m wide | Core moderately fractured 3 at L 70° at 68·4m – minor thin qtz veins | 972972$^{G}$ | 65·08 | 69·10 | 3·0 | 275 | 10 | 135 | x | 45/– | x | – | 140 | |
| | | | | | | Core v. fractured at 68·7m – upto 20% py minor Cp. Thin healed irregular qtz veins. Jointing more prominent. Occ chloritic-sericitic core – bedding displaced on micro-faults. | 972973$^{G}$ | 69·10 | 72·0 | 1·9 | 330 | 15 | 80 | 1·5 | 30/– | x | – | 90 | |
| | | | | | | | 972974$^{G}$ | 72·0 | 74·6 | 2·07 | 280 | 10 | 60 | x | 25/– | x | – | 55 | |
| | | | | | | | 972975$^{G}$ | 74·6 | 76·3 | 1·7 | 75 | 20 | 50 | 1·0 | 15/– | x | – | 30 | |

G GRIND SAMPLES.

592013

SHEET No. 4 of 5

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

**DRILL CORE LOG**

TENEMENT NAME ROCKY CAPE No. 477

PLAN – MAP REFERENCE TEMMA - LITTLE BEL GRID

CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS OVERLAND COMMENCED 05:10:82 DEPTH 109.7 metres HOLE No. DD82 LE1

RL COLLAR ..... INCLINATION -50° DRILL TYPE SCOST 250 COMPLETED 08:10:82 CASING LEFT Nil DPO No(s). 30211

| 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 | Co | As | Fe | W | Sn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 72.4 - 72.9 Qtz dlorite vein - occ ē angular pieces of qfite. 75m py infilling of large open joint. | | | | | | | | | | | | | |
| | | | | | CHLORITIC QUARTZITE ZONE | | | | | | | | | | | | | | |
| 76.3 | 79.5 | 2.39 | BQ | | V. dk gn dlorite interbedded? with mica qfite bands. The whole zone shows extensive alteration. | V. strong dlorite alt$^{n}$ zone & V. broken rock mineralization py > sp > zn py cubes prevalent. | 972976 | 76.3 | 78.4 | 1.56 | 640 | 20 | 75 | 0.5 | 40/m | x | – | x | x |
| | | | | | | | 972977 | 78.4 | 79.5 | 0.83 | 615 | 20 | 70 | x | 35/m | x | – | x | 3 |
| | | | | | CHLORITE - MAGNETITE ALT$^{N}$ ZONE | | | | | | | | | | | | | | |
| 79.5 | 85.1 | 2.45 | BQ | | Almost entirely dlorite - magnetite - V. dk gn. py min$^{2}$ throughout. Occ thin red-gn leached? qfite bands pyritic. Probably contains much Stilpnomelane | V. strong alt$^{n}$ zone. py min$^{2}$ & stringers core loss due to soft nature of core. Slickensided core - joints, faults - graphite development Occ thin ≈ 1mm qfs veins. | 972978 | 79.5 | 81.5 | 0.80 | 110 | 10 | 80 | 1.0 | 45/m | 100 | 20.3% | x | 4 |
| | | | | | | | 972979 | 81.5 | 83.35 | 1.05 | 50 | 15 | 120 | x | 40/m | 100 | 24.8% | x | 4 |
| | | | | | | | 972980 | 83.35 | 85.10 | 0.60 | 295 | 25 | 95 | x | 55/m | x | 22.0% | x | 8 |
| | | | | | MAGNETITE ZONE | | | | | | | | | | | | | | |
| 85.1 | 96.6 | 5.0 | BQ | | Enormous core loss 85.1 – 91.1m. Initially core preserved as small mag$^{c}$ lumps - weathered - feldspathic & sideritic matrix - mag$^{c}$ lumps upto 3mm diam. From 91.1m solid broken core occ rubbly zones. Siderite - sericite schist zones at 93.8m - 94.0m and 92.1m Sulphides more prominent where core ol. haematitic. Min$^{n}$ acid reaction - dolomitic? at 89.9m | Small 20cm qfs vein at 85.1m min$^{n}$ py min$^{2}$. V. great core loss 85.1 - 91.1m. Extremely high mag$^{c}$ susceptibility readings. Min$^{n}$ S$^{c}$ more S$^{c}$ where core ol. oxidized – more haematitic. THIN SECTION 89.9m (975869) MAGNETITE - QTZ - SIDERITE ROCK THIN SECTION 93.8m (975870) QUARTZ-MAG$^{c}$ - SERICITE ROCK THIN SECTION 96.4m (975871) QUARTZ - MAG$^{c}$ - SIDERITE ROCK | 972981 | 85.10 | 91.10 | 0.23 | 780 | 60 | 55 | x | 30/m | x | 13.6% | x | 3 |
| | | | | | | | 972982 | 91.10 | 92.40 | 1.13 | 630 | 50 | 70 | x | 35/m | x | 43.0% | x | 3 |
| | | | | | | | 972983 | 92.40 | 93.60 | 1.18 | 665 | 20 | 90 | 0.5 | 30/m | x | 48.1% | x | 3 |
| | | | | | | | 972984 | 93.60 | 94.76 | 1.16 | 275 | 20 | 80 | 1.0 | 25/m | x | 39.1% | x | x |
| | | | | | | | 972985 | 94.76 | 96.60 | 1.30 | 125 | 25 | 110 | 0.5 | 20/m | 200 | 35.7% | x | 3 |

592014

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

SHEET No. 5 of 5
TENEMENT NAME Rocky Cape No. 1/77
PLAN – MAP REFERENCE Temma – Little Eel Grid
CO-ORDINATES 100N 086E AZIMUTH 225°m DRILLERS OVERLAND COMMENCED 05.10.82 DEPTH 109.7 metres HOLE No. DD82LE1
RL COLLAR INCLINATION –50° DRILL TYPE SCOUT 250 COMPLETED 08.10.82 CASING LEFT Nil DPO No(s) 30201

| 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 | Co/Au | As | Fe | W | Sn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | QUARTZ CHLORITE CONTACT ZONE | | | | | | | | | | | | | | |
| 96.6 | 103.0 | 0.54 | BQ | | Extreme core loss 99.6–102.6 no core recovered – probably weathered mag zone. Core when present soft chloritic altered – waxy bedded. | Extreme core loss per min² slight. | 972986 | 96.6 | 103.0 | 0.54 | 730 | 15 | 170 | x | 45/x | x | 17.6% | x | 3 |
| | | | | | QUARTZITES AND SILTSTONES | | | | | | | | | | | | | | |
| 103.0 | 109.7 | 2.23 | BQ | | Thin dk grey altered in thin zones brecciated & thin qtz stringers containing angular chloritic fragments. Becomes fine grained more silty – alteration. | Chlorite alteration for first metre also bleached. | 972987 | 103.0 | 107.2 | 1.56 | 55 | 20 | 50 | x | 15/– | x | – | x | x |
| | | | | | | Joints above 1–2mm movement – Slump features | 972988 | 107.2 | 108.6 | 1.27 | 85 | 15 | 45 | x | 22/– | 300 | – | x | 4 |
| | | | | | | FACINGS – EAST (uphole) | 972989 | 108.6 | 109.7 | 0.96 | 20 | 20 | 35 | x | 20/– | x | – | x | x |
| | | | | | | Int is 65° at 109.2m. | | | | | | | | | | | | | |
| | | | | | THIN SECTION 103.1m (975872) CHLORITIC METAQUARTZITE. | | | | | | | | | | | | | | |
| | | | | | | HOLE NOT SURVEYED | | | | | | | | | | | | | |
| | | | | | E.O.H. 109.7 metres. | | | | | | | | | | | | | | |

DRILLHOLE RESULTS.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 38.15 | 39.74 | 1.59 | m @ 1.14% Cu in a breccia zone | | 1700ppm Zn | | 10gm Ag | | |
| 14.0 | 24.0 | 4750 | ppm Cu | | | | | | |