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APPENDIX 2 OF TCR 75-1124

75-1095
Vol 1/7

524001

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG CP 7

MICROFILMED

OPEN FILE

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES:

PINNACLES SK-55/3 PMG 16.05S 17.0W

COMMODITY/IES: Cu, Pb, Zn

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: R.N. Smith

DATE: April 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W (collar) INCLINATION 45°

DIRECTION 090° Magnetic

DATE START 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|-----|------|----|----|----|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag |
| | | | | | 0.00 m to 6.00 m Overburden, | | | | | | |
| | | | | | 6.00 m to 36.00 m Dark green dacitic vitric-crystal tuff containing | | | | | | |
| | | | | | Petrography sample - TA 975 24.40 white plagioclase crystals (2 mm average size). Petrographic | | | | | | |
| | | | | | Described in thin section as: Devitrified sample. Minor pale green to white vitric tuff (or rhyolite?) | | | | | | |
| | | | | | sodic trachitic ("keratophytic") tuff lava. containing occasional quartz crystals (1 mm size), also occurs and | | | | | | |
| | | | | | is restricted to the top of the dacitic tuff member. Sporadic | | | | | | |
| | | | | | brecciation of the lithologies occurs; the breccia matrix is rich | | | | | | |
| | | | | | in chlorite. Sporadic veinlets of chlorite occur throughout. A | | | | | | |
| | | | | | trace of fine pyrite occurs as films on fracture surfaces and as | | | | | | |
| | | | | | disseminated grains. Vugs of carbonate (up to 3 cm across) are | | | | | | |
| | | | | | common between 24.40 m and 27.40 m and less common between 27.40 m | | | | | | |
| | | | | | and 30.00 m. Irregular pods and veins of brown quartz also occur | | | | | | |
| | | | | | between 24.40 m and 27.40 m. At 33.50 m an angular fragment (2 cm) | | | | | | |
| | | | | | of light grey fine quartzitic rock (chert or rhyolite?) is included | | | | | | |
| | 6.00 | | | | in the dacitic vitric-crystal tuff, | Cu | Pb | Zn | Cd | Ba | Ag |
| NQ | 7.00 | 1 m | 1.10 | T234 | m whole core, remainder broken. | 22 | 120 | 330 | <1 | 75 | <1 |
| | 8.00 | 1 | 0.97 | 5 | " " " " | 22 | 140 | 350 | 1 | 85 | " |
| | 9.00 | 1 | 0.96 | 6 | " " " " | 12 | 190 | 280 | <1 | 75 | " |
| | 10.00 | 1 | 1.00 | 7 | " " " " | 15 | 160 | 350 | " | 80 | " |
| | 11.00 | 1 | 0.86 | 8 | 0.76 " " " " | 5 | 120 | 230 | " | 50 | " |
| | 12.00 | 1 | 0.82 | 9 | 0.81 " " " " | 5 | 8 | 150 | 1 | 60 | " |
| | 13.00 | 1 | 0.79 | T240 | 0.66 " " " " | 5 | 18 | 170 | 2 | 50 | " |
| | 14.00 | 1 | 0.89 | 1 | 0.60 " " " " | 5 | 70 | 130 | 4 | 35 | " |
| | 15.00 | 1 | 0.96 | 2 | 0.50 " " " " | 2 | 35 | 150 | 4 | 20 | " |
| | 16.00 | 1 | 0.99 | 3 | 0.90 " " " " | 2 | 5 | 140 | 2 | 20 | " |
| | 17.00 | 1 | 1.11 | 4 | 1.01 " " " " | 2 | 12 | 150 | 3 | 15 | " |
| | 18.00 | 1 | 0.97 | 5 | 0.79 " " " " | 2 | 5 | 140 | 1 | 15 | " |
| | 19.00 | 1 | 0.89 | 6 | 0.86 " " " " | 2 | 12 | 150 | <1 | 20 | " |
| | 20.00 | 1 | 0.91 | 7 | 0.52 " " " " | 2 | 32 | 160 | 1 | 22 | " |
| | 21.00 | 1 | 0.93 | 8 | 0.62 " " " " | <2 | 40 | 170 | 2 | 22 | " |
| | 22.00 | 1 | 0.86 | 9 | 0.80 " " " " | 2 | 55 | 250 | 1 | 35 | " |
| | 23.00 | 1 | 0.95 | T250 | 0.77 " " " " | 2 | 60 | 150 | <1 | 32 | " |
| | 24.00 | 1 | 0.94 | 1 | 0.85 " " " " | <2 | 42 | 190 | 1 | 22 | " |
| | 25.00 | 1 | 1.02 | 2 | 1.02 " " " " | 2 | 30 | 200 | 1 | 35 | " |
| | 26.00 | 1 | 1.11 | 3 | 1.11 " " " " | 2 | 25 | 410 | 1 | 60 | " |
| | 27.00 | 1 | 0.95 | 4 | 0.95 " " " " | <2 | <5 | 1400 | 1 | 70 | " |

AUSTRALIAN ANGLO AMERICAN LIMITED

524003

002

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0V

INCLINATION -45°

DIRECTION 090° Mag.

DATE START 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | g | |
|-----------|-------|----------------|------------------|---|---|---------------|-----|------|----|-----|----|--|
| | | | | | | Cu | Pb | Zn | Ca | Ba | | |
| NQ | 28.00 | 1 m | 0.93 | T255 | 0.93 m whole core, remainder broken. | 2 | 100 | 1050 | 2 | 55 | <1 | |
| | 29.00 | 1 | 1.03 | 6 | " " " " | " | 70 | 170 | 1 | 50 | " | |
| BQ | 30.00 | 1 | 0.94 | 7 | " " " " | " | 30 | 190 | 2 | 48 | " | |
| | 31.00 | 1 | 0.94 | 8 | " " " " | " | 25 | 350 | 2 | 50 | " | |
| | 32.00 | 1 | 0.96 | 9 | " " " " | 5 | 12 | 680 | 2 | 75 | " | |
| | 33.00 | 1 | 1.10 | T260 | " " " " | 2 | 45 | 620 | 2 | 80 | " | |
| | 34.00 | 1 | 1.01 | 1 | " " " " | 2 | 22 | 550 | 1 | 80 | " | |
| | 35.00 | 1 | 0.94 | 2 | " " " " | 2 | 8 | 480 | 1 | 70 | " | |
| | 36.00 | 1 | 0.99 | 3 | " " " " | 2 | 55 | 250 | 1 | 80 | " | |
| | | | | | 36.00 m to 63.70 m Green dacitic vitric crystal tuff, lighter in colour than between 6.00 m and 36.00 m. Occasional angular fragments included resembling the dacitic tuff above are present, probably indicating that lithological age decreases down the borehole. Between 38.85 m and 39.20 m is a white rhyolitic porphyritic rock with quartz "phenocrysts" (possibly a vitric-crystal tuff) and the rock is cut by chlorite veinlets. At 53.20 m a 3 cm band of vuggy white quartz occurs at 30° to the core axis. Fine (less than 1 mm size) disseminated pyrite occurs throughout (0 to 2% in grade). | | | | | | | |
| | | | | TA 976 38.90 (petrographic sample) | | | | | | | | |
| | | | | Described in this section as: sericitised porphyritic dacite. | | | | | | | | |
| BQ | 37.00 | 1 m | 0.99 | T264 | 0.93 m whole core, remainder broken. | 2 | 75 | 130 | <1 | 80 | " | |
| | 38.00 | 1 | 0.99 | 5 | " " " " | " | 65 | 110 | " | 75 | " | |
| | 39.00 | 1 | 0.97 | 6 | " " " " | 2 | 50 | 70 | 1 | 60 | " | |
| | 40.00 | 1 | 1.02 | 7 | " " " " | 2 | 55 | 110 | <1 | 50 | " | |
| | 41.00 | 1 | 0.82 | 8 | " " " " | 2 | 60 | 100 | 2 | 50 | " | |
| | 42.00 | 1 | 0.83 | 9 | " " " " | 8 | 70 | 120 | 3 | 60 | " | |
| | 43.00 | 1 | 1.02 | T270 | " " " " | 2 | 70 | 130 | 3 | 90 | " | |
| | 44.00 | 1 | 0.92 | 1 | " " " " | 2 | 100 | 170 | 2 | 100 | " | |
| | 45.00 | 1 | 0.78 | 2 | " " " " | 2 | 70 | 150 | 2 | 90 | " | |
| | 46.00 | 1 | 0.76 | 3 | " " " " | 5 | 55 | 95 | 2 | 95 | " | |
| | 47.00 | 1 | 1.18 | 4 | " " " " | 5 | 100 | 130 | 4 | 80 | " | |
| | 48.00 | 1 | 0.89 | 5 | " " " " | 5 | 75 | 80 | 2 | 60 | " | |
| | 49.00 | 1 | 0.87 | 6 | " " " " | 2 | 30 | 75 | 2 | 35 | " | |
| | 50.00 | 1 | 0.84 | 7 | " " " " | 2 | 75 | 180 | 3 | 60 | " | |
| | 51.00 | 1 | 0.91 | TE 868 | " " " " | 2 | 60 | 110 | 2 | 100 | " | |
| | 52.00 | 1 | 1.00 | TE 869 | " " " " | 2 | 75 | 110 | 1 | 80 | " | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

524004

BOREHOLE No. CF7TYPE Diamond Drill HoleCO-ORDINATES 16.05 17.0NINCLINATION 45°DIRECTION 090° Mag.DATE START 18/8/74DATE FINISH 5/9/74

DRILLER

COMPANY Langyear Aust. P/LFINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|-----|------|----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ra |
| BQ | 53.00 | 1 | 1.02 | TE 870 | 0.45 m whole core, remainder broken | 2 | 55 | 120 | 1 | 100 |
| | 54.00 | 1 | 1.02 | TE 871 | 0.60 " " " " | 2 | 60 | 180 | 5 | 80 |
| | 55.00 | 1 | 1.00 | TE 872 | 0.42 " " " " | 2 | 85 | 80 | 4 | 85 |
| | 56.00 | 1 | 0.98 | TE 873 | 0.00 " " " " | 2 | 85 | 65 | 1 | 100 |
| | 57.00 | 1 | 1.07 | TE 874 | 0.73 " " " " | 2 | 90 | 85 | 2 | 100 |
| | 58.00 | 1 | 1.00 | TE 875 | 0.26 " " " " | 2 | 110 | 75 | 4 | 110 |
| | 59.00 | 1 | 0.98 | TE 876 | 0.55 " " " " | 2 | 85 | 90 | 2 | 140 |
| | 60.00 | 1 | 1.00 | TE 877 | 0.93 " " " " | 2 | 95 | 95 | 1 | 120 |
| | 61.00 | 1 | 1.14 | TE 878 | 0.86 " " " " | 5 | 90 | 85 | 2 | 110 |
| | 62.00 | 1 | 0.23 | TE 879 | 0.18 " " " " | 2 | 75 | 80 | 1 | 110 |
| | 63.00 | 1 | 0.49 | TE 880 | 0.10 " " " " | 2 | 200 | 200 | 2 | 80 |
| | 64.00 | 1 | 0.76 | TE 881 | 0.44 " " " " | 2 | 160 | 150 | 2 | 130 |
| | 64.5 | End of BQ size | | | | | | | | |
| | | | | | 63.70 m to 66.70 m Pale brown vitric-crystal tuff of dacitic? composition containing equant plagioclase ± quartz phenocrysts (less than 2 mm size). This lithology grades down into a fine pale green vitric tuff. Mineralization is not present. | | | | | |
| | | | | | 66.70 m to 70.50 m Dark/light green mottled vitric crystal tuff. Haematized plagioclase phenocrysts are present. The rock contains bands of fine yellow-green vitric tuff with gradational contacts. It is sheared at 60° to the core axis. Fine traces of disseminated Pb-Zn mineralization occur. Barite (epidote?) veinlets randomly cut the rock at 69.50 m. Approximately 3% Pb-Zn mineralization (as galena + sphalerite) occurs in 1 cm sized pods and as fine disseminations. From 67.00 m to 68.15 m is a seam of clay. | | | | | |
| | | | | | 70.50 m to 71.00 m Fine white to dark grey mottled vitric tuff with some fine crystals present and barite?-coated fractures inclined at 52° to the core axis. | | | | | |
| | | | | | 71.00 m to 72.75 m Dark green flow-layered dacitic vitric-crystal ash-flow tuff with fine to coarse, slightly haematized, plagioclase phenocrysts (? flow-layered porphyritic dacite perhaps). Core angle of flow layering = 75°. The phenocrysts are 1 to 6 mm in size. Traces of fine disseminated pyrite, less than 1 mm in grain size, are present. | | | | | |
| BQ/NQ | 65 | 1 | 0.44 | TE 882 | 0.24 m whole core, remainder broken. | 5 | 110 | 520 | 4 | 320 |
| NQ | 66 | 1 | 0.33 | TE 883 | 0.06 m " " " " | 18 | 230 | 1050 | 12 | 430 |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

524005

004

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION -45°

DIRECTION 090° Mag.

DATE 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | Cu | Pb | ASSAY RESULTS | | |
|-----------|-------|----------------|------------------|----------------------|---|----|-----|---------------|----|-----|
| | | | | | | | | Zn | Cd | Ba |
| NQ | 67 | 1 | 0.87 | TE 884 | 0.77 m whole core, remainder broken. | 25 | 190 | 5000 | 10 | 85 |
| | 68 | 1 | 0.72 | TE 885 | 0.13 m " " " " | 10 | 190 | 390 | 3 | 350 |
| | 69 | 1 | 0.49 | TE 886 | 0.15 m " " " " | 10 | 210 | 1500 | 6 | 300 |
| | 70 | 1 | 0.81 | TE 887 | 0.40 m " " " " | 95 | 480 | 2100 | 8 | 480 |
| | 71 | 1 | 0.94 | TE 888 | 0.86 m " " " " | 38 | 220 | 650 | 5 | 180 |
| | 72 | 1 | 0.98 | TE 889 | 0.98 m " " " " | 2 | 170 | 4700 | 8 | 320 |
| | 73 | 1 | 0.98 | TE 890 | 0.98 m " " " " | 2 | 370 | 3750 | 12 | 380 |
| | 74 | 1 | 1.00 | TE 891 | 0.80 m " " " " | 2 | 250 | 1400 | 2 | 210 |
| | 75 | 1 | 1.01 | TE 892 | 0.90 m " " " " | 8 | 240 | 1470 | 3 | 250 |
| | 76 | 1 | 1.01 | TE 893 | 1.01 m " " " " | 2 | 130 | 1980 | 2 | 140 |
| | 77 | 1 | 1.00 | TE 894 | 0.22 m " " remainder broken. | 2 | 180 | 650 | 2 | 160 |
| | 78 | 1 | 0.89 | TE 895 | 0.80 m " " " " | 2 | 410 | 4800 | 20 | 390 |
| | 79 | 1 | 0.67 | TE 896 | 0.30 m " " " " | 5 | 75 | 230 | 2 | 160 |
| | 80 | 1 | 0.87 | TE 897 | 0.87 m " " " " | 18 | 240 | 260 | 2 | 200 |
| | 81 | 1 | 0.98 | TE 898 | 0.98 m " " " " | 15 | 60 | 180 | 2 | 200 |
| | 82 | 1 | 0.98 | TE 899 | 0.98 m " " " " | 5 | 5 | 110 | 2 | 170 |
| | 83 | 1 | 1.01 | TE 900 | 1.01 m " " " " | 5 | < 5 | 100 | 3 | 250 |
| | | | | | 72.75 m to 74.00 m Vitric tuff mottled in white and dark grey-green. Crystals are not very common. The lithology grades into pale green-grey vitric tuff with occasional phenocrysts (up to 2 mm size). The rock is layered at 45° to the core axis. A trace of fine galena(?) occurs as a film on a fracture surface. | | | | | |
| | | | | | 74.00 m to 78.20 m Flow-layered lithic ash flow tuff with a fine green groundmass surrounding white sub-angular to rounded fragments 1 mm to 1 cm in size, some of which seem smeared out. Core angle of layering = 45°-50°. Some phenocrysts (up to 2 mm size) are present. At 77.00 m the rock grades into a pale green vitric-crystal tuff which is penetrated by numerous random brown veinlets giving the rock a light brown colour. | | | | | |
| | | | | | 78.20 m to 80.00 m Fine dark grey chert (rhyolite?) with a carbonate vein inclined at 20° to the core axis. Faint cleavage in rock with core angle 50°. At 79.50 m the rock grades into a lithology consisting of pale light yellow-green angular vitric tuff which is cut by fine carbonate veinlets, rimmed by a dark green coloration (probably due to chlorite), making the rock resemble a mosaic. | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

524006

005

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION -45°

DIRECTION 090° Mag.

DATE START 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|---|---------------|------|------|----|-----|
| | | | | | | Cu | Pb | Zn | Ca | Ba |
| | | | | | 80.00 m to 80.20 m A breccia of dark grey chert fragments (1 cm to 3 cm in size, rounded, equant to elongate), finely quartz-veined. Fine grained pyrite fragments (2 mm to 2 cm in size) and also white quartzose fragments containing fine disseminations of galena and sphalerite. The groundmass is green and contains approximately 2% fine disseminated pyrite. | | | | | |
| | | | | | 80.20 m to 84.60 m Finely sheared fine yellow-green rock containing dark grey lenses (several cm long) and layering inclined at 60° to the core axis. In places equant white quartzose bodies (1 cm) and dark grey bodies of irregular shape (up to 2 cm size) occur. From 83.50 m to 84.60 m the rock is white with a paler yellow-green colouration because of a lower intensity of shearing. Some pods of pink quartz-carbonate occur. No mineralization present. The bottom portion of this section contains shear-bound fragments of the rock type below (see 84.60 m to 85.00 m). | | | | | |
| | | | | | 84.60 m to 85.00 m Dark green-black shear-emplaced? rock, of possible affinity to dacite, containing fine irregular carbonate veinlets and a trace of disseminated pyrite. Trace of Pb-Zn mineralization along a fracture surface (core angle = 50°) otherwise barren. Carbonate veinlet at 40° to core axis. | | | | | |
| | | | | | 85.00 m to 87.30 m Yellow-green sheared quartzose rock containing pods of the dark green rock above. | | | | | |
| | | | | | 87.30 m to 87.95 m Dark green sheared rock containing fine shears, infilled by yellow material, with core angles of 40°. No mineralization. | | | | | |
| | | | | | 87.95 m to 89.00 m Fine light grey slightly sheared chert (or rhyolite?). Shears inclined at approximately 50°-60° to core axis. No mineralization. | | | | | |
| NQ | 84 | 1 | 1.02 | TB 120 | 1.02 m whole core, remainder broken. | 10 | 10 | 160 | 2 | 120 |
| | 85 | 1 | 1.02 | TB 121 | 0.50 m " " " " | 12 | 30 | 360 | 2 | 230 |
| | 86 | 1 | 0.99 | TB 122 | 0.90 m " " " " | 2 | 10 | 120 | 1 | 200 |
| | 87 | 1 | 0.99 | TB 123 | 0.99 m " " " " | 12 | 15 | 550 | 2 | 130 |
| | 88 | 1 | 0.99 | TB 124 | 0.99 m " " " " | 18 | 50 | 690 | 3 | 140 |
| | 89 | 1 | 1.02 | TB 125 | 1.00 m " " " " | 22 | 20 | 140 | 2 | 110 |
| | 90 | 1 | 1.03 | TB 126 | 0.80 m " " " " | 18 | 100 | 110 | 1 | 180 |
| | 91 | 1 | 1.03 | TB 127 | 0.97 m " " " " | 10 | 50 | 80 | 2 | 180 |
| | 92 | 1 | 0.89 | TB 128 | 0.85 m " " " " | 15 | 100 | 700 | 4 | 170 |
| | 93 | 1 | 0.89 | TB 129 | 0.89 m " " " " | 250 | 700 | 2850 | 10 | 170 |
| | 94 | 1 | 0.89 | TB 130 | 0.89 m " " " " | 840 | 4350 | 8200 | 25 | 60 |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L.5/63 PINNACLES METRIC GRID

524007

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION -45°

DIRECTION 090° Mag.

DATE START 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|--------|----------------|------------------|----------------------|---|---------------|------|-------|----|-----|
| | | | | | | Cu | Pb | Zn | Ca | Ba |
| NQ | 95 | 1 | 0.97 | TB 131 | 0.97 m whole core, remainder broken. | 970 | 4100 | 1.20% | 38 | 50 |
| | 96 | 1 | 1.15 | TB 132 | 1.00 m " " " " | 940 | 1600 | 9800 | 28 | 120 |
| | 97 | 1 | 1.15 | TB 133 | 1.10 m " " " " | 290 | 600 | 3400 | 10 | 140 |
| | | | | | 89.00 m to 92.50 m Grey-green quartzose rock (chert or rhyolite) with layering and shearing inclined at 50° to the core axis and containing several quartz veins (up to 4 cm wide) roughly normal to the core axis. This rock type grades in and out of a pale yellow-green quartzose lithology which is sheared? and veined at random by barite? veinlets. Rounded, equant aggregates (5 mm in size) of pyrite are occasionally found in the grey-green quartzose lithology. | | | | | |
| | | | | | 92.50 m to 96.75 m Dark grey chert breccia containing fine to coarse equant or in places elongate fragments which are up to 4 cm across. The elongate fragments are aligned parallel with core angle = 45° to 50°. Sporadic layers of pyrite granules parallel to the bedding give the rock up to 5% pyrite content. Traces of Cu-Pb-Zn occur throughout. Approximately 2% chalcopyrite, 1% sphalerite occurs from 94.90 m to 95.00 m. | | | | | |
| | | | | | 96.75 m to 98.00 m Light gray chert sheared at roughly 40° to core axis. Minute traces of Cu-Pb-Zn mineralization occur as small pods associated with shears. Up to 1% aggregated pyrite is present. | | | | | |
| NQ | 98 | 1 | 1.00 | TB 134 | m whole core, remainder broken. | 290 | 700 | 4050 | 12 | 180 |
| | 99 | 1 | | TB 135 | " " " " | 45 | 450 | 820 | 3 | 230 |
| | 100 | 1 | 0.94 | T 278 | 0.94 " " " " | 15 | 220 | 340 | 1 | 370 |
| | 101 | 1 | 0.88 | T 279 | 0.88 " " " " | 10 | 180 | 870 | 2 | 180 |
| | 102 | 1 | 0.85 | T 280 | 0.85 " " " " | 5 | 260 | 600 | 2 | 190 |
| | 103 | 1 | 0.85 | T 281 | 0.85 " " " " | 8 | 460 | 900 | 3 | 130 |
| | 104 | 1 | 1.06 | T 282 | 1.06 " " " " | 12 | 600 | 1950 | 5 | 120 |
| | 105 | 1 | 1.16 | T 283 | 1.10 " " " " | 300 | 2050 | 6000 | 15 | 120 |
| | 106 | 1 | 1.16 | T 284 | 1.16 " " " " | 35 | 210 | 970 | 1 | 120 |
| | 107 | 1 | 1.07 | T 285 | 1.07 " " " " | 5 | 140 | 390 | 1 | 150 |
| | 108 | 1 | 1.03 | TB 136 | 1.03 m " " " " | 5 | 180 | 550 | 2 | 150 |
| | 109 | 1 | 1.00 | T 286 | 1.00 " " remainder broken. | 22 | 260 | 340 | 1 | 170 |
| | 110 | 1 | 0.98 | T 287 | 0.98 " " " " | 2 | 180 | 570 | 1 | 120 |
| | 110.57 | 0.57 | 0.56 | T288 | 0.50 " " " " | 2 | 120 | 140 | 1 | 190 |
| | 111 | 1 | 0.43 | T 289 | 0.42 " " " " | 2 | 35 | 80 | 1 | 200 |
| | 112 | 1 | 0.97 | T 290 | 0.90 " " " " | 5 | 95 | 680 | 2 | 180 |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

524008

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION 45°

DIRECTION 090° Mag.

DATE 18/8/74

DATE 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

START

N.A.P.S

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS |
|-----------|-------|----------------|------------------|---|--|---------------|
| | | | | | 98.00 m to 99.10 m Breccia of light to dark grey chert in dark yellow-green groundmass. In places fragments are lenticular and aligned parallel to shears at 25° to core axis. Between 98.10 m and 98.30 m there is a band of green dacitic vitric-crystal tuff which for the most part is discoloured a yellow colour; it contains a trace of galena and slightly haematized plagioclase phenocrysts (2 mm size). The lower contact of the dacitic tuff band has a core angle of 54° but the upper contact is contorted. | |
| | | | | | 99.10 m to 110.60 m Medium grained sediment or tuff(?) containing large fragments and bands of laminated hard dark grey chert (or silicified shale) 1 cm to 50 cm across. The groundmass is dark green and contains numerous pinkish white crystals and lithic fragments. The chert bands sometimes contain hard fine tuff laminae which are inclined at 35° to 50° to the core axis. The contacts of the chert fragments are either straight or irregular and are at times coated with carbonate. Carbonate veinlets associated with occasional Pb-Zn traces, more commonly found in the chert (silicified shale?) bands than in the sediment/pyroclastic matrix. | |
| | | | | Petrography sample - TA 997 100.8m Described in thin section as: Sheared sericitised lithic - (vitric?) - crystal tuff. | 110.60 m to 112.35 m Fine to medium grained light orange-brown lithic tuff (or sediment?) which has been partially haematized and contains a 20cm wide band of chert or rhyolite which is banded in light and dark grey colours grading into an orange colour. The bedding core angle of the lithic tuff(?) is 50°. Rare traces of Pb-Zn mineralization occur in occasional quartz veinlets and pods. | |
| | | | | | 112.35 m to 113.70 m Fine light grey lithic tuff or sediment occasionally with the following: Quartz veins (sporadic orientation), angular fragments of dark grey indurated shale (chert?) approximately 1 cm in size and rare traces of fine disseminated pyrite. Bedding is difficult to distinguish and is inclined at approximately 50° to core axis. | |
| | | | | | 113.70 m to 115.73 m Bands of agglomerate and indurated black shale (chert?). The agglomerate contains fragments (3 cm to 8 cm size) of the light grey tuff/sediment above, white acid porphyry (quartz and haematized feldspar phenocrysts - no reaction to staining for potash). The shale has ragged margins and the agglomerate seems to be intrusive into it in places. Sporadic quartz-carbonate veinlets occur. | |

AUSTRALIAN ANGLO AMERICAN LIMITED

524009

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION -45°

DIRECTION 090° Mag.

DATE 18/8/74

DATE 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

START

FINISH

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | Ag | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|-----|------|----|-----|----|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | | |
| | | | | | 115.73 m to 121.70 m Fine light grey vitric-lithic tuff which gradually becomes coarser with depth. The groundmass is fine grey with pink to white fragments, and fragments of dark grey indurated shale (chert?). At 118.00 m lenticular fragments of indurated shale/chert (up to 5 cm long) are imbricated at 46° core angle. Sporadically-oriented quartz-carbonate veins occur occasionally. | | | | | | | |
| NQ | 113 | 1 | 1.02 | TB 137 | 1.02 m whole core. | 5 | 100 | 450 | 2 | 150 | | |
| | 114 | 1 | 1.02 | TB 138 | 1.02 m " " | 8 | 95 | 380 | 2 | 150 | | |
| | 115 | 1 | 1.03 | TB 139 | 1.03 m " " | 8 | 410 | 550 | 3 | 150 | | |
| | 116 | 1 | 1.01 | T 291 | 0.90 m " " | 5 | 230 | 850 | 3 | 180 | <1 | |
| | 117 | 1 | 1.14 | T 292 | 0.80 m " " | 5 | 120 | 830 | 3 | 190 | " | |
| | 118 | 1 | 1.15 | T 293 | 1.15 m " " | 5 | 600 | 1600 | 5 | 200 | " | |
| | 119 | 1 | 0.95 | T 294 | 0.95 m " " | 2 | 160 | 300 | 1 | 180 | " | |
| | 120 | 1 | 0.93 | T 295 | 0.93 | 2 | 230 | 920 | 5 | 180 | " | |
| | | | | | 121.70 m to 122.20 m Agglomerate with dark grey-black groundmass. Fragments of pink-white rhyolitic? porphyry; pink, grey and white chert; and dark grey indurated shale (chert?). Minor shears are inclined at 40° to core axis. | | | | | | | |
| | | | | | 122.20 m to 123.30 m Hard fine light grey chert alternating with light yellow-brown laminations of indurated tuff? or chert. Core angle of bedding = 55°. Minor shears occur in places inclined at 40° to 50° to the core axis dipping in the opposite direction to the lamination. | | | | | | | |
| | | | | | 123.30 m to 123.60 m Agglomerate containing lenticular and angular chert fragments of various colours, lenticular black shale fragments (up to 4 cm long). The groundmass is dark grey. The imbricated lenticular fragments are aligned at 55° to core axis. | | | | | | | |
| | | | | | 123.60 m to 124.50 m Light green-grey chert with shears and partial brecciation. Traces of sphalerite occur along fissures and in sporadic quartz veins. At 124.35 m a shear containing quartz-carbonate and traces of Pb-Zn has a core angle of 26°. | | | | | | | |
| | | | | | 124.50 m to 128.95 m Coarse agglomerate with large fragments (up to 10 cm across) of a hard pale-pink acid volcanic with pink haematized phenocrysts, hard grey laminated chert, yellow-green vitric crystal tuffs with haematized phenocrysts (no reaction to potash staining). Quartz-carbonate veinlets/veins occur at random or at 25° to core axis, and contain rare traces of Zn-Pb mineralization. Core angle of imbricated elongate fragments is | | | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

524010

009

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION 45°

DIRECTION 090° Mag.

DATE 18/8/74

DATE 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|-------|----------------|------------------|----------------------|---|---------------|-----|------|----|-----|----|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag |
| | | | | | roughly 40° - 50°. | | | | | | |
| NQ | 121 | 1 | 0.93 | T 296 | 0.93 m whole core | 5 | 260 | 1050 | 4 | 160 | <1 |
| | 122 | 1 | 0.71 | T 297 | 0.71 m " " | 2 | 330 | 1300 | 5 | 200 | " |
| | 123 | 1 | 0.82 | T 299 | 0.82 m " " | 5 | 300 | 900 | 4 | 270 | " |
| | 124 | 1 | 1.00 | TB 140 | 1.00 m whole core. | 5 | 550 | 1700 | 8 | 100 | |
| | 125 | 1 | 1.01 | TB 141 | 1.01 m " " | 8 | 700 | 3250 | 12 | 190 | |
| | 126 | 1 | 1.02 | TB 142 | 1.02 m " " | 8 | 360 | 1850 | 6 | 250 | |
| | 127 | 1 | 1.02 | TB 143 | 1.02 m " " | 8 | 360 | 1500 | 5 | 190 | |
| | 128 | 1 | 1.02 | TB 144 | 1.02 m " " | 38 | 370 | 1250 | 3 | 200 | |
| | | | | | 128.95 m to 130.60 m Sheared contorted laminated light/dark grey - white chert alternating with fine light yellow-brown vitric lithic tuff (sediment?). Numerous shears of small displacement (1 - 2 cm) are inclined at 10° or less to core axis. Bedding, where not contorted, has a 46° core angle. Irregular quartz veinlets with traces of Pb-Zn mineralization are found, most commonly in the grey chert. | | | | | | |
| | | | | | 130.60 m to 140.00 m Agglomerate with large (1 cm to 15 cm) equant, angular fragments of rhyolitic porphyries; cherts of light-shaded pink, green and tans (the pink is not as common as from 124.50 m to 128.95 m); also green vitric-crystal tuff. Fragments of indurated dark grey shale (?chert) are not common. The fine groundmass is dark grey-black. No bedding can be distinguished. From 135.00 m to 145.00 m pale yellow chert or rhyolite(?) fragments, sometimes with flow banding or bedding are common. Traces of Pb-Zn mineralization occur in quartz-carbonate veinlets or interfragmental spaces. | | | | | | |
| | | | | | 140.00 m to 141.80 m Fine hard light grey-grey laminated chert veined by quartz which in places caused slight brecciation of the chert in the vicinity of the vein. The chert lamination has a 45° core angle and quartz veins have a 30°-40° core angle. Between 140.00 m and 140.20 m is 1 - 2% galena and sphalerite in a 3 cm wide quartz-carbonate vein containing angular fragments of grey chert. | | | | | | |
| NQ | 129 | 1 | 1.01 | TB 145 | 1.01 m whole core. | 5 | 660 | 1800 | 5 | 270 | |
| | 130 | 1 | 1.01 | TB 146 | 1.01 m " " | 5 | 650 | 1300 | 4 | 200 | |
| | 131 | 1 | 0.99 | TB 147 | 0.99 m " " , remainder broken. | 8 | 360 | 2800 | 8 | 170 | |
| | 132 | 1 | 0.98 | TB 148 | 0.98 m " " " " | 5 | 150 | 470 | 1 | 210 | |
| | 133 | 1 | 0.98 | TB 149 | 0.98 m " " " " | 5 | 220 | 290 | 1 | 240 | |
| | 134 | 1 | 0.99 | TB 150 | 0.99 m " " " " | 5 | 130 | 300 | 1 | 160 | |

| SIZE | DEPTH | DEPTH METRES | METRES | AND DEPTH | DESCRIPTION | Cu | Pb | ASSAY RESULTS | | Zn | Ba | A ₃ |
|------|--------|--------------|--------|--|---|----|------|---------------|----|-----|----|----------------|
| NQ | 135 | 1 | 1.00 | TB 151 | 0.8 m whole core, remainder broken. | 5 | 150 | 500 | 1 | 290 | | |
| | 136 | 1 | 1.01 | TB 152 | 0.95 m " " " " | 5 | 360 | 260 | 1 | 250 | | |
| | 137 | 1 | 1.01 | TB 153 | 0.90 m " " " " | 5 | 430 | 500 | 2 | 240 | | |
| | 138 | 1 | 1.03 | TB 154 | 0.95 m " " " " | 10 | 340 | 1560 | 4 | 160 | | |
| | 139 | 1 | 1.04 | TB 155 | 1.04 m " " " " | 15 | 600 | 2100 | 8 | 180 | | |
| | 140 | 1 | 1.08 | TB 156 | 1.00 m " " remainder broken. | 10 | 410 | 1060 | 4 | 180 | | |
| | | | | TA 978 | 141.80 m to 144.00 m Very hard, light yellow-brown rock (?rhyolite, quartzite or vitric tuff) with no mineralization. Quartz-carbonate veinlets are inclined at 15° to 50° to core axis. | | | | | | | |
| | | | | petrographic sample. | | | | | | | | |
| | | | | Described in this section as: | 144.00 m to 144.50 m Dark grey chert brecciated in places and infilled by quartz-carbonate. Core angle of the upper contact is approximately 40°. | | | | | | | |
| | | | | Sheared, sericitised, lithic crystal tuff. | 144.50 m to 146.75 m Same as between 141.80 m and 144.00 m. | | | | | | | |
| | | | | | 146.75 m to 153.30 m Dark grey coarse lithic tuff, grading down into agglomerate. The fragments consist of whitish rhyolite or chert? and yellow-green crystal tuff, whitish porphyritic dacite with haematized plagioclase phenocrysts and later grey chert fragments. No mineralization present. A 10 cm wide band of quartz-carbonate with core angle = 25° contains angular fragments (1 cm across) of gray and pink chert. | | | | | | | |
| | | | | | 153.30 m to 153.85 m Hard fine light yellow-brown lithic tuff or sediment with bedding (core angle = 20°). No mineralization. | | | | | | | |
| NQ | 141 | 1 | 0.88 | TB 157 | 0.76 m whole core, remainder broken | 30 | 6500 | 3600 | 15 | 150 | | |
| | 142 | 1 | 0.85 | TB 158 | 0.70 m " " " " | 12 | 700 | 380 | 2 | 150 | | |
| | 143 | 1 | 1.02 | T 300 | 0.88 m " " " " | 2 | 35 | 38 | 2 | 210 | 1 | |
| | 144 | 1 | 0.98 | T 301 | 0.86 m " " " " | 2 | 45 | 85 | 3 | 220 | " | |
| | 144.56 | 0.56 | 0.55 | T 302 | 0.43 m " " " " | 2 | 170 | 120 | 1 | 140 | " | |
| | 145 | 0.44 | 0.43 | T 303 | 0.43 m " " " " | 2 | 10 | 130 | 1 | 200 | " | |
| | 146 | 1 | 0.97 | T 304 | 0.97 m " " " " | 2 | 25 | 120 | 1 | 240 | " | |
| | 146.87 | 0.82 | 0.80 | T 305 | 0.80 m " " " " | 5 | 32 | 120 | 1 | 250 | " | |
| | 147 | 0.18 | 0.17 | T 306 | 0.17 m " " " " | 5 | 70 | 50 | 3 | 240 | " | |
| | 148 | 1 | 0.94 | T 307 | 0.80 m " " " " | 5 | 100 | 140 | 2 | 260 | " | |
| | 149 | 1 | 1.02 | T 308 | 0.97 m " " " " | 2 | 190 | 270 | 4 | 220 | " | |
| | 150 | 1 | 1.03 | T 309 | 1.00 m " " " " | 5 | 85 | 140 | 2 | 260 | " | |
| | 151 | 1 | 1.03 | T 310 | 1.00 m " " " " | 2 | 80 | 65 | 2 | 200 | " | |
| | 152 | 1 | 1.07 | Tn 311 | 1.04 m " " " " | 5 | 130 | 650 | 3 | 190 | " | |
| | 153 | 1 | 1.08 | T 312 | 0.90 m " " " " | 2 | 85 | 70 | 3 | 180 | " | |
| | 154 | 1 | 1.07 | T 313 | 0.95 m " " " " | 2 | 130 | 140 | 2 | 210 | " | |
| | 154.64 | 0.64 | 0.49 | T 314 | 0.49 m " " " " | 5 | 100 | 320 | 4 | 190 | " | |
| | 155 | 0.36 | 0.27 | T 315 | 0.14 m " " " " | 2 | 35 | 150 | 1 | 210 | " | |
| | 156 | 1 | 0.85 | T 316 | 0.44 m " " " " | 2 | 75 | 110 | 1 | 200 | " | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION 45°

DIRECTION 090° Mag.

DATE START 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. P/L

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|-----|------|----|-----|----|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag |
| | | | | | 153.85 m to 155.03 m Hard grey chert with a band of vitric-crystal tuff. The contact has a 40° core angle. 1 cm wide quartz-carbonate veins with 30° core angle and random quartz carbonate veinlets. No mineralization. | | | | | | |
| | | | | | 155.03 m to 160.40 m Fine dark green vitric lithic crystal tuff, occasionally with a yellowish colouration. A rare rounded fragment of dark grey chert is included in the rock. This rock is possibly an indurated fine sediment. | | | | | | |
| | | | | | 160.40 m to 162.20 m Fine yellow vitric-lithic-crystal tuff(,). From 160.40 m to 161.10 m the bedding has a core angle of approximately 5° and quartz-chlorite veinlets are very acute to the core axis or at random. A shear at 161.40 m has a core angle of 19°. The bedding has a core angle of 10° to 20° below 161.10 m, and intercolated layers of grey chert occur. | | | | | | |
| NQ | 157 | 1 | 0.97 | T 317 | 0.97 m whole core, remainder broken | 2 | 40 | 100 | 1 | 220 | <1 |
| | 158 | 1 | 0.97 | T 318 | 0.97 " " " " | 2 | 45 | 100 | <1 | 300 | " |
| | 159 | 1 | 1.08 | T 319 | 1.08 " " " " | 2 | 45 | 200 | 1 | 240 | " |
| | 160 | 1 | 1.02 | T320 | 1.00 " " " " | 2 | 50 | 340 | <1 | 240 | " |
| | 161 | 1 | 0.92 | T 321 | 0.90 " " " " | 2 | 25 | 240 | 1 | 240 | " |
| | 162 | 1 | 0.96 | T 322 | 0.90 " " " " | 2 | 30 | 110 | 1 | 190 | " |
| | 163 | 1 | 0.98 | TB 159 | 0.90 m whole core, remainder broken. | 2 | 120 | 140 | 1 | 180 | |
| | 164 | 1 | 1.00 | TB 160 | | 5 | 400 | 650 | 2 | 220 | |
| | 165 | 1 | 1.03 | TB 161 | 1.03 m " " | 5 | 230 | 280 | 2 | 230 | |
| | 166 | 1 | 1.02 | TB 162 | 1.02 m " " | 5 | 310 | 1000 | 5 | 220 | |
| | 167 | 1 | 1.00 | TB 163 | | 5 | 380 | 1120 | 5 | 180 | |
| | 168 | 1 | 0.97 | TB 164 | 0.97 m " " | 5 | 180 | 950 | 4 | 210 | |
| | 169 | 1 | 0.99 | TB 165 | 0.99 m " " | 5 | 550 | 1740 | 7 | 250 | |
| | 170 | 1 | 1.04 | TB 166 | 1.04 m " " | 5 | 410 | 530 | 2 | 150 | |
| | 171 | 1 | 0.81 | TB 167 | | 2 | 100 | 430 | 2 | 210 | |
| | 172 | 1 | 0.73 | TB 168 | | 5 | 240 | 750 | 3 | 150 | |
| | 173 | 1 | 0.73 | TB 169 | | 2 | 200 | 90 | 1 | 200 | |
| | 174 | 1 | 1.48 | TB 170 | 1.48 m " " | 5 | 180 | 320 | 1 | 140 | |
| | 175 | 1 | 1.26 | TB 171 | 1.26 m " " | 5 | 160 | 1250 | 5 | 150 | |
| | 176 | 1 | 0.80 | TB 172 | | 5 | 110 | 700 | 4 | 85 | |
| | 177 | 1 | 0.92 | TB 173 | 0.75 m " " " " | 5 | 240 | 950 | 3 | 200 | |
| | 178 | 1 | 1.04 | TB 174 | | 5 | 210 | 1450 | 4 | 180 | |
| | 179 | 1 | 1.02 | TB 175 | 1.02 m " " | 5 | 600 | 1950 | 5 | 210 | |

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

012
524013

BOREHOLE No. CP7

TYPE Diamond Drill Hole

COORDINATES 16.05 17.07

INCLINATION 45°

DIRECTION 090° Mag.

DATE START 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd.

FINAL DEPTH 200.7 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|--|---|---------------|------|------|----|-----|
| | | | | | | Cu | Pb | Zn | Ca | Ba |
| NQ | 180 | 1 | 1.01 | TB 176 | 1.01 m whole core. | 5 | 700 | 1450 | 4 | 200 |
| | | | | | 162.20 m to 197.50 m Dark grey chert, contorted and sheared in places with sometimes numerous intercolated bands of fine yellow-brown tuff. | | | | | |
| | | | | TA 979 165.60 Petrographic sample. | | | | | | |
| | | | | Described in thin section as: | | | | | | |
| | | | | Altered, weakly sheared shale breccia. | | | | | | |
| | | | | | <u>Bedding</u> <u>Depth</u> <u>Core Angle</u> <u>Depth</u> <u>Core Angle</u> | | | | | |
| | | | | | 164.50 m 60° 180.00 m 32° | | | | | |
| | | | | | 165.50 m 65° 181.50 m 80° | | | | | |
| | | | | | 167.50 m 37° 182.50 m 0-5° | | | | | |
| | | | | | 169.00 m 47° 187.00 m 60° | | | | | |
| | | | | | 171.00 m 28° 193.50 m 40° | | | | | |
| | | | | | 177.00 m 35° 194.00 m 60° | | | | | |
| | | | | | Zone of contortion and brecciation between 180.00 m and 181.50 m. Quartz-carbonate veins occur at random or follow shears and bedding or infill breccia openings. A band of brecciated hard pink quartz-carbonate (only reacted to concentrated Hcl acid) associated with brecciated grey chert occurs at 189.00 m. A 2 cm wide band of quartz-carbonate (only reacted to concentrated Hcl acid) containing angular chert fragments occurs at 191.40 m with a core angle of 90°. A 10 cm wide coarsely crystalline quartz-carbonate band occurs at 192.50 m with 25° core angle. Brecciation occurs from 180.00 m to 181.50 m and from 188.80 m to 191.30 m. Mineralization by galena and sphalerite occurs in scattered traces in veins and pods of quartz-carbonate but, in localised occurrences occasionally attains 1 - 2%. Between 194.75 m and 197.50 m the percentage of galena and sphalerite varies from 1/4 to 3/4 and the chert is a much darker grey and has no light coloured banding. Shearing occurs at random. | | | | | |
| NQ | 181 | 1 | 1.00 | TB 177 | m whole core, remainder broken. | 8 | 410 | 2100 | 6 | 240 |
| | 182 | 1 | 1.00 | TB 178 | | 5 | 430 | 1150 | 4 | 170 |
| | 183 | 1 | 1.03 | TB 179 | 1.03 m " " | 5 | 220 | 1350 | 5 | 180 |
| | 184 | 1 | 1.04 | TB 180 | | 5 | 420 | 1250 | 4 | 180 |
| | 185 | 1 | 1.08 | TB 181 | 1.08 m " " | 2 | 95 | 100 | 1 | 160 |
| | 186 | 1 | 1.07 | TB 182 | 1.07 m " " | 5 | 140 | 270 | 1 | 210 |
| | 187 | 1 | 1.07 | TB 183 | | 5 | 250 | 680 | 2 | 120 |
| | 188 | 1 | 1.00 | TB 184 | 1.00 m " " | 8 | 700 | 4600 | 15 | 130 |
| | 189 | 1 | 0.99 | TB 185 | 0.99 m " " " " | 8 | 850 | 2450 | 7 | 120 |
| | 190 | 1 | 0.97 | TB 186 | | 5 | 330 | 1050 | 4 | 170 |
| | 191 | 1 | 0.94 | TB 187 | 0.94 m " " " " | 5 | 1750 | 720 | 3 | 170 |
| | 192 | 1 | 0.96 | TB 188 | 0.96 m " " " " | 5 | 410 | 120 | 2 | 140 |

013

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP7

TYPE Diamond Drill Hole

CO-ORDINATES 16.05 17.0W

INCLINATION -45°

DIRECTION 090° Mag.

DATE START 18/8/74

DATE FINISH 5/9/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd.

FINAL DEPTH 200.7 m

NAPS

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|------|-------|----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ba |
| NQ | 193 | 1 | 1.00 | TB 189 | m whole core, remainder broken | 2 | 110 | 600 | 2 | 180 |
| | 194 | 1 | 1.03 | TB 190 | 0.97 m " " " " | 2 | 90 | 230 | 1 | 170 |
| | 195 | 1 | 1.02 | TB 191 | 1.02 m " " | 5 | 260 | 1700 | 5 | 130 |
| | 196 | 1 | 1.00 | TB 192 | | 8 | 950 | 3850 | 10 | 210 |
| | 197 | 1 | 1.04 | TB 193 | 1.04 m " " | 28 | 1750 | 1.85% | 60 | 110 |
| | 198 | 1 | 1.16 | TB 194 | 1.16 m " " | 8 | 300 | 2000 | 5 | 210 |
| | 199 | 1 | 1.09 | TB 195 | 1.09 m " " | 5 | 70 | 230 | 1 | 220 |
| | 200 | 1 | 0.93 | TB 196 | | 5 | 85 | 620 | 1 | 260 |
| | 200.7 | 0.7 | 0.65 | TB 197 | | 10 | 110 | 370 | 2 | 140 |
| | | | | | 197.50 m to 200.7 m Light yellow-green vitric-crystal tuff with some bands of dark grey chert. The tuff is contorted so that in places it has broken up into discrete fragments (possibly by a boudinage mechanism) surrounded by dark grey chert - this probably occurred penecontemporaneous to deposition. Fine disseminated grains of Pb-Zn mineralization in trace amounts occur and also 1 - 2% disseminated pyrite. The pyrite can be up to 10µ in localized section. Numerous narrow carbonate veinlets (occupying shears?) at very acute angles to the core axis. | | | | | |
| | | | | | END OF HOLE | | | | | |

PINNACLES METRIC GRID - E.L.5/63SUMMARY OF DIAMOND DRILL HOLE CP 71. ROCK INTERSECTIONS

| | |
|-----------------------------|--|
| <u>0.00 m to 6.00 m</u> | Overburden. |
| <u>6.00 m to 36.00 m</u> | Dark green devitrified sodic trachytic tuff lava. Trace of pyrite present. |
| <u>36.00 m to 63.70 m</u> | Light green sericitised porphyritic dacite. 0-2% disseminated pyrite present. |
| <u>63.70 m to 66.70 m</u> | Pale brown vitric-crystal tuff grading down into pale green vitric tuff. |
| <u>66.70 m to 70.50 m</u> | Dark/light green mottled vitric crystal tuff, containing bands of fine yellow-green vitric tuff. From 67.00 m to 68.15 m is a clay seam. Fine traces of Pb-Zn mineralisation occurs (3% galena and sphalerite at 69.50 m). |
| <u>70.50 m to 71.00 m</u> | Fine white/dark grey mottled vitric tuff. |
| <u>71.00 m to 72.75 m</u> | Dark green flow-layered dacitic vitric-crystal ash flow ? tuff. Traces of disseminated pyrite. |
| <u>72.75 m to 74.00 m</u> | Mottled white/dark grey-green vitric tuff grading into pale grey-green vitric tuff. A trace of galena present. |
| <u>74.00 m to 78.20 m</u> | Flow-layered lithic ash-flow tuff with white fragments in green groundmass grading into pale green vitric-crystal tuff with numerous brown veinlets. |
| <u>78.20 m to 80.00 m</u> | Fine dark grey chert (? rhyolite) |
| <u>80.00 m to 80.20 m</u> | Breccia of dark grey chert, pyrite and white quartzose fragments. Traces of Pb-Zn present; approx. 2% disseminated pyrite present. |
| <u>80.20 m to 84.60 m</u> | Finely sheared fine yellow-green layered rock with no mineralisation. |
| <u>84.60 m to 85.00 m</u> | Dark green-black dacite (?) containing traces of pyrite and Pb-Zn mineralisation. |
| <u>85.00 m to 87.30 m</u> | Yellow-green sheared quartzose rock. |
| <u>87.30 m to 87.95 m</u> | Dark yellow-green sheared dacite. |
| <u>87.95 m to 89.00 m</u> | Fine light grey chert (? rhyolite). |
| <u>89.00 m to 92.50 m</u> | Grey-green chert (? rhyolite). Trace of pyrite present. |
| <u>92.50 m to 96.75 m</u> | Dark grey chert breccia. Traces of Cu-Pb-Zn mineralisation present. Approx. 2% chalcopyrite, 1% sphalerite occurs between 94.90 m and 95.00 m. |
| <u>96.75 m to 98.00 m</u> | Light grey sheared chert containing up to 1% pyrite and traces of Cu-Pb-Zn mineralisation. |
| <u>98.00 m to 99.10 m</u> | Breccia of light/dark grey chert with dark yellow-green groundmass. |
| <u>99.10 m to 110.60 m</u> | Sheared sericitised lithic-(? vitric)-crystal tuff containing numerous bands and fragments of dark grey indurated shale. Traces of Pb-Zn mineralisation occur. |
| <u>110.60 m to 112.35 m</u> | Fine to medium grained light orange-brown, partially haematized lithic tuff (sediment?) with rare traces of Pb-Zn mineralisation. |
| <u>112.35 m to 113.70 m</u> | Fine light grey lithic tuff. |
| <u>113.70 m to 115.73 m</u> | Alternating bands of agglomerate and indurated black shale. |
| <u>115.73 m to 121.70 m</u> | Fine light grey lithic tuff gradually increasing in grain size with depth. |
| <u>121.70 m to 122.20 m</u> | Agglomerate with black groundmass and fragments of pink porphyry, chert and dark grey shale. |
| <u>122.20 m to 123.30 m</u> | Light grey indurated shale or chert alternating with layers of yellow-brown fine indurated tuff. |
| <u>123.30 m to 123.60 m</u> | Agglomerate containing chert fragments of various colours in a dark grey groundmass. |
| <u>123.60 m to 124.50 m</u> | Light grey-green chert with shears and partial brecciation. Traces of Pb-Zn mineralisation present. |
| <u>124.50 m to 128.95 m</u> | Coarse agglomerate with fragments of haematized porphyritic acid volcanic, grey laminated chert and haematized yellow-green vitric-crystal tuff. Traces of Pb-Zn mineralisation present. |
| <u>128.95 m to 130.60 m</u> | Sheared contorted light/dark grey-white chert alternating with bands of yellow-brown vitric-crystal tuff. Traces of Pb-Zn mineralisation. |
| <u>130.60 m to 140.00 m</u> | Coarse agglomerate of rhyolitic porphyries, cherts and green vitric-crystal tuff. Traces of Pb-Zn mineralisation present. |
| <u>140.00 m to 141.80 m</u> | Fine hard grey laminated chert. 3 cm wide quartz-carbonate vein (140.00 m to 140.20 m) contains 1-2% galena and sphalerite. |
| <u>141.80 m to 144.00 m</u> | Very hard yellow-brown sheared sericitised lithic-crystal tuff. |

015

524016

SUMMARY OF DIAMOND DRILL HOLE CP 7 (contin.)

| | |
|-----------------------------|--|
| <u>144.00 m to 144.50 m</u> | Dark grey chert brecciated and infilled by quartz-carbonate in places. |
| <u>144.50 m to 146.75 m</u> | Same as between 141.80 m and 144.00 m. |
| <u>146.75 m to 153.30 m</u> | Dark grey coarse lithic tuff grading down into agglomerate. |
| <u>153.30 m to 153.85 m</u> | Hard fine yellow-brown bedded lithic tuff or sediment. |
| <u>153.85 m to 155.03 m</u> | Hard grey chert with a band of vitric-crystal tuff. |
| <u>155.03 m to 160.40 m</u> | Fine dark green vitric-lithic-crystal tuff (sediment?) |
| <u>160.40 m to 162.20 m</u> | Fine yellow bodded vitric-lithic-crystal tuff with intercalated layers of grey chert. |
| <u>162.20 m to 197.50 m</u> | Dark grey shale which is contorted, sheared and brecciated in places. Occasionally numerous bands of intercalated fine yellow-brown tuff are present. Galena and sphalerite is present, varying from trace amounts up to 2%. |

END OF HOLE2. INDICATED VALUES OF OREAt 1% Zinc cut off.

| | | | |
|----------------------|-----------|--------------|--------------------------|
| 94.00 m to 95.00 m | 1.20% Zn; | 4100 ppm Pb; | 970 ppm Cu x 1.00 m D.T. |
| 196.00 m to 197.00 m | 1.80% Zn; | 1750 ppm Pb; | 28 ppm Cu x 1.00 m D.T. |

At 0.5% Zinc cut off

| | | | |
|----------------------|-----------|--------------|--------------------------|
| 66.00 m to 67.00 m | 0.50% Zn; | 190 ppm Pb; | 25 ppm Cu x 1.00 m D.T. |
| 93.00 m to 96.00 m | 1.00% Zn; | 0.34% Pb; | 917 ppm Cu x 3.00 m D.T. |
| 104.00 m to 105.00 m | 0.60% Zn; | 0.21% Pb; | 300 ppm Cu x 1.00 m D.T. |
| 196.00 m to 197.00 m | 1.80% Zn; | 1750 ppm Pb; | 28 ppm Cu x 1.00 m D.T. |

3. OVERALL CORE RECOVERY

| | |
|---------------------|-------------------|
| metres drilled | 6.00 m to 200.7 m |
| metres recovered | 187.46 |
| percentage recovery | 96.28% |

4. WATER TABLE

Not recorded - artesian water supply tapped.

5. CASING LEFT IN HOLE

1 x 10 NW

6. BOREHOLE SURVEYS USING TROPARI AND ACID READINGS

The tropari was tested for precision and accuracy by Comstaff Pty. Ltd.. The tropari was precise but inaccurate in that azimuths were 10° too high. The azimuth readings below are corrected values (10° was subtracted from the original readings). Acid surveys were corrected for capillarity.

| Depth (metres) | Inclination | | Azimuth (mag) |
|----------------|------------------|------------------|-------------------|
| | Uncorrected | Corrected | |
| 0 | | 45 $\frac{1}{2}$ | 090° |
| 15 | 52 | 45 | |
| 24 | | 47 | 087 $\frac{1}{2}$ |
| 26 | | 45 | incorrect |
| 40 | 53 $\frac{1}{2}$ | 46 | |
| 50 | | 45 | 090° |
| 65 | 53 | 46 | |
| 75 | | 43 | 092° |
| 100 | 51 | 43 | |
| 102 | | 42 | 088° |
| 125 | | 41 | 090° |
| 151 | | 40 | 092° |
| 152 | 49 | 41 | |
| 170 | | 41 | 095° |
| 170 | 48 | 40 | |
| 200 | | 38 | 101° |

016

524017 75-1095
Vol 2/7.

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG CP 9

OPEN FILE

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES:

PINNACLES SK-55/3 PMG 20.0S 17.56W

COMMODITY/IES: Cu, Pb, Zn

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: R.N. Smith

DATE: April 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L.5/63 PINNACLES METRIC GRID

524018

BOREHOLE No. CP9

TYPE Diamond Drill Hole

Collar
COORDINATES 20.0S 17.56W

INCLINATION 45°

DIRECTION 092° Mag.

DATE START 16/9/74

DATE FINISH 26/9/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 158.4 metres

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-----------|----------------|------------------|----------------------|---|---------------|------|-------|----|------|
| | | | | | | Cu | Pb | Zn | Cd | Da |
| HQ | 13m - 14m | 1 | 1.14 | TB 269 | 0.85 m whole core, remainder broken | 130 | 1540 | 4500 | 15 | 240 |
| | 15 | 1 | 1.00 | TB 270 | 0.60 m " " " " | 35 | 500 | 4650 | 15 | 300 |
| | 16 | 1 | 0.84 | TB 271 | 0.30 m " " " " | 30 | 300 | 3600 | 12 | 400 |
| | 17 | 1 | 0.82 | TB 272 | 0.45 m " " " " | 15 | 100 | 710 | 5 | 260 |
| | 18 | 1 | 1.00 | TB 273 | 0.52 m " " " " | 65 | 110 | 1850 | 10 | 270 |
| | 19 | 1 | 1.00 | TB 274 | 1.00 m " " " " | 110 | 280 | 5500 | 18 | 290 |
| | 20 | 1 | 0.98 | TB 275 | 0.98 m " " " " | 430 | 3760 | 1.45% | 48 | 260 |
| | 21 | 1 | 0.99 | TB 276 | 0.57 m " " " " | 270 | 8200 | 5500 | 22 | 110 |
| | 22 | 1 | 1.06 | TB 277 | 0.80 m " " " " | 480 | 3800 | 7000 | 25 | 1110 |
| | 23 | 1 | 0.98 | TB 278 | 0.40 m " " " " | 110 | 600 | 6000 | 22 | 170 |
| | 24 | 1 | 1.00 | TB 279 | 0.70 m " " " " | 170 | 780 | 9000 | 30 | 180 |
| | 25 | 1 | 0.97 | TB 280 | 0.52 m " " " " | 42 | 1080 | 6700 | 25 | 200 |
| | 26 | 1 | 0.95 | TB 281 | 0.65 m " " " " | 48 | 6400 | 3400 | 15 | 180 |
| | 27 | 1 | 0.94 | TB 282 | 0.94 m " " " " | 200 | 1580 | 4550 | 18 | 180 |
| | 28 | 1 | 1.42 | TB 283 | 1.10 m " " " " | 460 | 2180 | 9500 | 32 | 170 |
| | 29 | 1 | 1.06 | TB 284 | 0.96 m " " " " | 540 | 1160 | 1.20% | 40 | 130 |
| | 30 | 1 | 1.05 | TB 285 | 1.05 m " " " " | 570 | 1020 | 1.10% | 38 | 160 |
| | | | | | 0.00 m to 13.00 m No core recovered. | | | | | |
| | | | | | 13.00 m to 14.00 m Breccia of contorted khaki-coloured and light green vitric tuff fragments in a dark grey carbonaceous slightly indurated matrix. Infillings and veinlets of barite? (did not react even to concentrated HCl acid) form a stockwork throughout the rock. Trace of sphalerite and minor galena in a pod (5 mm across) near a barite stockwork at 13.20 m. | | | | | |
| | | | | | 14.00 m to 38.30 m Dark grey to black, partially indurated carbonaceous mudstone with a blocky fracture in minor localized sections. The silica content is high resulting in carbonaceous chert (e.g. 26.60 m to 26.90 m). At 16.00 m white equant crystals (do not react to staining for potash) are disseminated through the carbonaceous mudstone, hairline white veinlets have a 20° core angle. At 16.8 m the bedding is at 10° or less to the core axis. At 17.5 m, fine barite? veinlets have a 30° core angle. Up to 1% sphalerite occurs between 18.6 m and 18.8 m associated with quartz-carbonate veins (core angle = 50°), 2% sphalerite occurs between 19.45 m and 20.30 m associated with traces of chalcopyrite, galena and pyrite in quartz pods and veins. Random veinlets and veins (with core angle = 45°) | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

524019

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. CP9

TYPE Diamond Drill H91e

CO-ORDINATES 20.0S 17.56W

INCLINATION 45°

DIRECTION 092° Mag.

DATE START 16/9/74

DATE FINISH 26/9/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 158.4 m

NIPPS

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------------|--|---------------|------|-------|----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ba |
| | | | | | of quartz occur between 21.70 m and 22.00 m associated with 1% | | | | | |
| | | | | | sphalerite and traces of chalcopyrite. At 23.5 m alternating | | | | | |
| | | | | | laminations of fine tuff and mudstone enable the bedding direction | | | | | |
| | | | | | to be distinguished (core angle = 33°). Slightly disrupted by minor | | | | | |
| | | | | | shearing. At 25.0 m sphalerite and galena (1% over 10 cm) occupy a | | | | | |
| | 30m | | | Petrographic sample TA 980 | fissure partially occupied by carbonate (core angle = 20°). 1-2% | | | | | |
| | | | | | sphalerite between 27.90 m and 28.20 m is associated with barite- | | | | | |
| | | | | | carbonate veins of 20° core angle and less commonly with the sur- | | | | | |
| | | | | | rounding random veinlets. From 32 m to 33 m alternating laminations | | | | | |
| | | | | | of fine tuff and mudstone are consistently inclined at 16° to the core | | | | | |
| | | | | | axis, whereas at 31.50 m and 33.7 m the layers are wider (1 cm wide) | | | | | |
| | | | | | and undulate in gentle folds parallel to the core axis. Bedding is | | | | | |
| | | | | | difficult to distinguish where tuff horizons are not present. Bet- | | | | | |
| | | | | | ween 33.7 m and 38.3 m quartz veins occur at varying angles less | | | | | |
| | | | | | than 60° to the core axis and contain minor traces of sphalerite. | | | | | |
| HQ | 31 | 1 | 1.10 | TB 286 | 0.60 m whole core, remainder broken | 120 | 600 | 4000 | 15 | 170 |
| | 32 | 1 | 1.18 | TB 287 | 1.00 m " " " " | 310 | 760 | 6200 | 20 | 120 |
| | 33 | 1 | 0.78 | TB 288 | 0.75 m " " " " | 290 | 150 | 8100 | 28 | 140 |
| | 34 | 1 | 0.77 | TB 289 | 0.77 m " " " " | 440 | 840 | 7800 | 25 | 160 |
| | 35 | 1 | 0.70 | TB 290 | 0.70 m " " " " | 330 | 320 | 1850 | 8 | 200 |
| | 36 | 1 | 1.04 | TB 291 | 0.98 m " " " " | 150 | 350 | 5600 | 18 | 200 |
| | 37 | 1 | 0.98 | TB 292 | 0.93 m " " " " | 48 | 180 | 2900 | 10 | 220 |
| | 38 | 1 | 0.96 | TB 293 | 0.14 m " " (very flaky) remainder broken | 65 | 190 | 4500 | 15 | 210 |
| | 39 | 1 | 0.93 | TB 294 | 0.80 m " " remainder broken | 60 | 80 | 2550 | 10 | 230 |
| | 40 | 1 | 0.91 | TB 295 | 0.60 m " " " " | 290 | 230 | 3150 | 12 | 150 |
| | 41 | 1 | 1.00 | TB 296 | 0.75 m " " " " | 290 | 360 | 4050 | 15 | 160 |
| | 42 | 1 | 1.01 | TB 297 | 1.01 m " " " " | 1120 | 570 | 8600 | 30 | 100 |
| | 43 | 1 | 1.02 | TB 298 | 0.90 m " " " " | 190 | 660 | 5700 | 20 | 130 |
| | 44 | 1 | 1.02 | TB 299 | 0.60 m " " " " | 290 | 680 | 8000 | 30 | 200 |
| | 45 | 1 | 1.00 | TB 300 | 0.70 m " " " " | 230 | 680 | 5600 | 20 | 200 |
| | 46 | 1 | 0.94 | TB 380 | 0.70 m " " " " | 140 | 470 | 6200 | 25 | 210 |
| | 47 | 1 | 0.95 | TB 381 | 0.65 m " " " " | 1160 | 900 | 7600 | 25 | 160 |
| NQ | 48 | 1 | 0.89 | TB 382 | 0.66 m " " " " | 1180 | 760 | 6100 | 25 | 150 |
| | 49 | 1 | 1.00 | TB 383 | 0.96 m " " " " | 150 | 610 | 6700 | 25 | 120 |
| | 50 | 1 | 0.81 | TB 384 | 0.60 m " " " " | 340 | 1750 | 1.60% | 48 | 150 |
| | 51 | 1 | 0.40 | TB 385 | 0.00 m " " " " | 330 | 1060 | 1.15% | 35 | 190 |

010

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

524020

BOREHOLE No. CP9

TYPE Diamond Drill Hole

CO-ORDINATES 20.05 17.36W.

INCLINATION 45°

DIRECTION 092° Mag.

DATE 16/9/74
STARTDATE 26/9/74
FINISH

DRILLER

COMPANY Longyear Aust.Pty.Ltd.

FINAL DEPTH 158.4 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | Cu | Pb | ASSAY RESULTS | | |
|-----------|-------|----------------|------------------|---------------------------|--|----|-----|---------------|----|-----|
| | | | | | | | | Zn | Cd | Ba |
| NQ | 52 | 1 | 0.14 | TB 386 | 0.00 m broken | 90 | 510 | 4500 | 18 | 210 |
| | | | | | 38.30 m to 38.85 m Dark khaki chloritised sericite schist produced by shearing parallel to the core axis. Brown sphalerite? has been smeared out as films along the slickensided shear surfaces. 1-3% fine pyrite occurs as 2 mm sized aggregates throughout. | | | | | |
| | | | | | 38.85 m to 52.90 m Carbonaceous mudstone as between 14.00 m and 38.30 m. Alternating laminations of tuff and mudstone enable the following core angles of bedding to be determined. 0° at 40.9 m, 6° at 42.0 m, 20° at 42.6 m (defined by alternating 5 - 10 mm wide layers of fine pyrite and mudstone), 60° at 44.10 m (disrupted by a shear set of core angle 17°), 39° at 48.3 m. Hairline veinlets of barite and/or quartz form a stockwork throughout much of the rock. A trace of sphalerite as pods up to 1.5 cm long occur in a quartz vein at 49.75 m (core angle = 60°). A band of fine pale yellow vitric tuff occurs from 39.0 m to 39.6 m and contains a trace of sphalerite in an irregular quartz veinlet roughly parallel to the core axis. | | | | | |
| | | | | | 52.90 m to 54.00 m Fine sheared crystal-lithic tuff cut by hairline shears infilled by a yellow alteration mineral with core angles of 0-30° giving the rock an overall yellow colour. The yellow alteration also permeates the rock outwards from each shear. Folding due to deformation is evident in places. Fine black sphalerite occurs in layers parallel to the shearing and contain lenticular pods of brown sphalerite (up to 1 cm long); other bodies of sphalerite and chalcopryrite occur at random probably emplaced by the deformation folding. Up to 10% sphalerite and traces of chalcopryrite occur. | | | | | |
| | 53.5 | | | Petrography sample TA 981 | | | | | | |
| | | | | | 54.00 m to 57.25 m Light grey shale with bedding at 37° to core axis and indurated to varying degrees. Approximately 2% disseminated pyrite occurs and traces of galena as infrequent hairline veinlets. | | | | | |
| | | | | | 57.25 m to 59.05 m Fine to medium grained altered tuff containing aggregated sulphide lenses and layers which are contorted. 10-15% pyrite is present, generally in aggregated form, but may be up to 30% of the rock in localised sections; traces of galena occur; 1-2% brown sphalerite in pods (to 1.5cm long) most common between 58 m and 58.6 m; a trace of chalcopryrite occurs in pods similar to the brown sphalerite. | | | | | |

019

AUSTRALIAN ANGLO AMERICAN LIMITED

524021

020

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. CP9

TYPE Diamond Drill Hole

CO-ORDINATES 20.0S 17.56W

INCLINATION -45°

DIRECTION 092° Mag.

DATE START 16/9/74

DATE FINISH 26/9/74

DRILLER

COMPANY Longyear Aust.Pty.Ltd. FINAL DEPTH 158.4 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|------|-------|-----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ba |
| | | | | | 59.05 m to 62.30 m Fine grey bedded tuff occurs from 59.05 m to 59.25 m with bedding and contacts of 30° core angle and containing trace of fine disseminated pyrite. Below this is a 20 cm band of alternating mudstone and chert layers of like bedding angle. | | | | | |
| | | | | | 59.45 m to 61.80 m light grey partially indurated mudstone. | | | | | |
| | | | | | 60.20 m to 61.80 m numerous shears cut the mudstone parallel to the core axis and random veinlets of carbonate occur. | | | | | |
| | | | | | 61.80 m to 62.30 m alternating fine indurated tuff and chert layers. | | | | | |
| | | | | | 62.30 m to 64.20 m Highly altered fine tuff mottled in yellow, pink and grey colours. Fine veinlets of dark grey quartz randomly penetrate the rock in places. At 63.90 m layering is visible at 35° to core axis. 1% fine pyrite occurs in occasional irregular veins. | | | | | |
| | | | | | A trace of chalcopyrite occurs in a quartz-carbonate vein. | | | | | |
| | | | | | 64.20 m to 65.80 m Lithic lapilli tuff consisting of angular fragments (to 1.5 cm across) of fine, hard chert (?rhyolite) which in colour are shades of pink, yellow, green and grey. The matrix is fine to medium grained and light green in colour. Traces of Pb-Zn mineralization occur in occasional irregular carbonate veinlets. | | | | | |
| NQ | 53 | 1 | 1.00 | TB 387 | 0.48 m whole core, remainder broken | 160 | 1020 | 9300 | 28 | 210 |
| | 54 | 1 | 1.03 | TB 388 | 0.91 m " " " " | 1000 | 2350 | 5.8% | 150 | 100 |
| | 55 | 1 | 0.84 | TB 389 | 0.53 m " " " " | 150 | 950 | 3800 | 15 | 160 |
| | 56 | 1 | 0.99 | TB 390 | 0.99 m " " " " | 45 | 2480 | 1250 | 8 | 120 |
| | 57 | 1 | 0.97 | TB 391 | 0.71 m " " " " | 120 | 1500 | 2500 | 12 | 210 |
| | 58 | 1 | 0.94 | TB 392 | 0.81 m " " " " | 4000 | 6000 | 2.2% | 65 | 5 |
| | 59 | 1 | 0.93 | TB 393 | 0.93 m " " " " | 6500 | 8800 | 5.7% | 140 | 5 |
| | 60 | 1 | 1.01 | TB 394 | 0.70 m " " " " | 490 | 190 | 1% | 30 | 210 |
| | 61 | 1 | 1.01 | TB 395 | 1.01 m " " " " | 140 | 2850 | 820 | 10 | 230 |
| | 62 | 1 | 1.01 | TB 396 | 0.75 m " " " " | 450 | 7400 | 3200 | 15 | 60 |
| | 63 | 1 | 1.00 | TB 397 | 1.00 m " " " " | 1440 | 2500 | 1.3% | 40 | 150 |
| | 64 | 1 | 1.00 | TB 398 | 1.00 m " " " " | 460 | 1350 | 2.1% | 60 | 95 |
| | 65 | 1 | 1.00 | TB 399 | 1.00 m " " " " | 120 | 300 | 5800 | 20 | 310 |
| | 66 | 1 | 0.92 | TB 400 | 0.90 m " " " " | 20 | 190 | 2350 | 8 | 240 |
| | 67 | 1 | 0.91 | F 4869 | 0.85 m " " " " | 210 | 1750 | 4.2% | 120 | 150 |
| | 68 | 1 | 0.91 | F 4870 | 0.77 m " " " " | 270 | 4080 | 3.9% | 110 | 210 |
| | 69 | 1 | 0.97 | F 4871 | 0.87 m " " " " | 45 | 750 | 1.15% | 32 | 200 |
| | | | | | 65.80 m to 67.30 m Lapilli tuff with fine pale yellow quartz | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L.5/63 PINNACLES METRIC GR

524022

021

BOREHOLE No. CP9

TYPE Diamond Drill Hole

CO-ORDINATES 20.09 17.56W

INCLINATION 45°

DIRECTION 092° Mag.

DATE 16/9/74
STARTDATE 26/9/74
FINISH

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 158.4 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | Cu | Pb | ASSAY RESULTS | | | |
|-----------|-------|----------------|------------------|----------------------|--|----|-----|---------------|----|-----|--|
| | | | | | | | | Zn | Cd | Ba | |
| | | | | | porphyry fragments ranging in size from 2mm to 1 cm, set in a fine dark green matrix. A trace of sphalerite occurs as occasional small disseminated pods (to 5 mm across). | | | | | | |
| | | | | | 67.30 m to 69.60 m Fine medium dark green to yellow grey tuff which owes its green colour to chloritization. White lithic fragments * crystals define layers in the tuff at 67.4 m with 75° core angle. | | | | | | |
| | | | | | At 67.20 m numerous shears associated with yellowish discoloration of the rock, carbonate veining and Zn mineralization occur; the shears, carbonate veinlets and sphalerite pods (to 1 cm long) are inclined at 55-60° to the core axis. 5% sphalerite occurs as generally contorted pods no larger than 2 cm long between 67.20 m and 67.40 m. At 68.25 m dark green chloritised elongate fragments up to 4 cm long are included in the tuff and aligned roughly normal to the core axis. Overall the sphalerite is only in trace amounts, often being found in occasional irregular carbonate veinlets. | | | | | | |
| | | | | | 69.60 m to 71.35 m Dark yellow green chloritised volcanic cut by numerous shears parallel to the core axis or at very acute angles to it. Alteration, indicated by a yellow colouration, occurs along the shears and extends into the rock for several millimetres away from the shears. | | | | | | |
| | | | | | 71.35 m to 72.00 m Dark grey partially indurated mudstone or vitric tuff cut by carbonate veinlets (1 - 2 mm wide) inclined at core angles no greater than 40°, which is brecciated in places with a matrix carbonate. Traces of sphalerite and galena occur in the carbonate. | | | | | | |
| NQ | 70 | 1 | 0.98 | F 4872 | 0.95 m whole core, remainder broken | 25 | 890 | 4020 | 15 | 130 | |
| | 71 | 1 | 0.98 | F 4873 | 0.73 m " " " " | 55 | 900 | 1.05% | 32 | 75 | |
| | 72 | 1 | 0.81 | F 4874 | 0.30 m " " " " | 40 | 450 | 7200 | 20 | 100 | |
| | 73 | 1 | 0.78 | F 4875 | 0.40 m " " " " | 22 | 620 | 3000 | 10 | 170 | |
| | 74 | 1 | 0.78 | F 4876 | 0.55 m " " " " | 8 | 80 | 1100 | 5 | 110 | |
| | 75 | 1 | 1.01 | F 4877 | 0.84 m " " " " | 8 | 110 | 1500 | 5 | 140 | |
| | 76 | 1 | 1.03 | F 4878 | 0.68 m " " " " | 8 | 110 | 2100 | 10 | 120 | |
| | | | | | 72.00 m to 78.60 m Light grey partially indurated mudstone or vitric tuff with some randomly oriented chlorite and carbonate veinlets. Occasional traces of brown sphalerite occur in carbonate pods and veinlets. A light/dark banding is developed in places with core angles of 44° to 57°. | | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

524023

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. CP9

TYPE Diamond Drill Hole

CO-ORDINATES 20.05 17.56W

INCLINATION 45°

DIRECTION 092° Mag.

DATE START 16/9/74

DATE FINISH 26/9/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 158.4 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|-----|-------|-----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ba |
| | | | | | 78.60 m to 80.15 m Light/dark grey mottled argillaceous chert or indurated mudstone containing brown sphalerite and some black sphalerite with traces of galena and chalcopyrite in a zone of shearing, accompanied by quartz-barite veins concordant to the shears, at core angles of 10° - 16°. Approximately 16% visible sphalerite occurs in sample F 4882. Approximately 3 - 4% brown sphalerite occurs in randomly oriented quartz carbonate veined and more so in a shear at 6° to core axis between 78.6 m and 78.9 m. | | | | | |
| NQ | 77 | 1 | 1.03 | F 4879 | 1.03 m whole core | 5 | 38 | 1700 | 5 | 140 |
| | 78 | 1 | 0.99 | F 4880 | 0.76 m " " remainder broken | 15 | 100 | 2400 | 10 | 170 |
| | 79 | 1 | 0.97 | F 4881 | 0.80 m " " " " | 75 | 220 | 2.6% | 80 | 80 |
| | 80 | 1 | 0.97 | F 4882 | 0.95 m " " " " | 260 | 830 | 9% | 300 | 60 |
| | 81 | 1 | 1.00 | F 4883 | 0.85 m " " " " | 560 | 330 | 1.65% | 50 | 95 |
| | 82 | 1 | 1.02 | F 4884 | 1.02 m " " " " | 790 | 320 | 8000 | 22 | 85 |
| | 83 | 1 | 1.02 | F 4885 | 1.02 m " " " " | 3320 | 290 | 1.5% | 45 | 100 |
| | 84 | 1 | 1.02 | F 4886 | 1.02 m " " " " | 1180 | 270 | 7600 | 25 | 120 |
| | 85 | 1 | 1.01 | F 4887 | 1.01 m " " " " | 75 | 620 | 5.9% | 160 | 140 |
| | 86 | 1 | 1.01 | F 4888 | 1.01 m " " " " | 50 | 280 | 1.7% | 50 | 140 |
| | 87 | 1 | 1.00 | F 4889 | 1.00 m " " " " | 18 | 65 | 3250 | 10 | 150 |
| | 88 | 1 | 0.98 | F 4890 | 0.98 m " " " " | 28 | 160 | 7900 | 22 | 150 |
| | 89 | 1 | 0.98 | F 4891 | 0.90 m " " " " | 18 | 120 | 3650 | 15 | 170 |
| | 90 | 1 | 1.00 | F 4892 | 1.00 m " " " " | 20 | 160 | 3850 | 15 | 180 |
| | 91 | 1 | 1.02 | F 4893 | 0.70 m " " " " | 30 | 260 | 9000 | 25 | 140 |
| | 92 | 1 | 1.02 | F 4894 | 0.80 m " " " " | 28 | 160 | 2200 | 10 | 160 |
| | 93 | 1 | 1.04 | TC 401 | 1.04 m " " " " | 15 | 140 | 5500 | 15 | 140 |
| | 94 | 1 | 1.04 | TC 402 | 1.04 m " " " " | 18 | 280 | 7800 | 28 | 140 |
| | 95 | 1 | 1.04 | TC 403 | 0.90 m " " " " | 35 | 210 | 7000 | 22 | 200 |
| | 96 | 1 | 1.05 | TC 404 | 1.00 m " " " " | 140 | 180 | 2900 | 10 | 130 |
| | 97 | 1 | 1.04 | TC 405 | 1.00 m " " " " | 38 | 110 | 1500 | 8 | 200 |
| | 98 | 1 | 1.05 | TC 406 | 1.05 m " " " " | 8 | 110 | 1680 | 5 | 160 |
| | 99 | 1 | 0.99 | TC 407 | 0.94 m " " " " | 5 | 190 | 2050 | 5 | 320 |
| | 100 | 1 | 0.99 | TC 408 | 0.99 m " " " " | 8 | 100 | 1200 | 8 | 250 |
| | | | | | 80.15 m to 100.57 m Mottled green to dark green and sometimes pink fine vitric tuff or partially indurated mudstone. In sample F 4887 6% brown sphalerite occurs as pods up to 1 cm long in a stockwork of carbonate + barite veinlets. The rock is sheared parallel and | | | | | |

0222

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L.5/63 PINNACLES METRIC GRID

524024

023

BOREHOLE No. CP9

TYPE Diamond Drill Hole

CO-ORDINATES 20.08 17.56W

INCLINATION -45°

DIRECTION 092° Mag.

DATE START 16/9/74

DATE FINISH 26/9/74

DRILLER

COMPAN Longyear Aust. Pty. Ltd.

FINAL DEPTH 158.4 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|---|---------------|-------|------|----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ba |
| | | | | | acutely to the core axis (core angles less than 25°). Between 92.50 m and 93 m sample TC 402 contains ½ - 1% visible brown sphalerite in quartz-carbonate infilling and random veinlets. From 98 m to 100.57 m the rock is cut numerous shears and quartz-carbonate veinlets generally at acute core angles (approximately 20°) and sometimes up to 40°; trace amounts of Pb-Zn mineralization occur in the veinlets. The rock is coloured dark green in places due to chloritization, generally near shearing and veining. | | | | | |
| | | | | | 100.57 m to 115.90 m Strongly sheared crystal tuff, vitric-crystal tuff and lithic-vitric-crystal tuff with a dark green chloritised sericitised groundmass. The shears are inclined at 20° - 30° to the core axis. Crystals are white, laths (2 mm size). Lithic fragments range up to 2 cm size but are generally less than 1 cm in size; they are the same colour as the crystals and so smaller sized fragments are difficult to distinguish from the crystals. | | | | | |
| NQ | 101 | 1 | 0.99 | F 4895 | 0.99 m whole core, remainder broken | 15 | 180 | 1950 | 10 | 200 |
| | 102 | 1 | 1.00 | F 4896 | 1.00 m " " | 840 | 230 | 4250 | 12 | 170 |
| | 103 | 1 | 1.00 | F 4897 | 1.00 m " " | 12 | 90 | 2950 | 10 | 180 |
| | 104 | 1 | 1.00 | F 4898 | 1.00 m " " | 22 | 380 | 4300 | 12 | 180 |
| | 105 | 1 | 1.06 | F 4899 | 1.00 m " " " " | 10 | 260 | 6100 | 18 | 140 |
| | 106 | 1 | 1.08 | F 4900 | 1.08 m " " | 8 | 130 | 3500 | 10 | 410 |
| | 107 | 1 | 1.01 | F 3532 | 1.01 m " " | 10 | 170 | 3400 | 10 | 120 |
| | 108 | 1 | 0.84 | F 3533 | 0.84 m " " " " | 12 | 130 | 3300 | 10 | 120 |
| | 109 | 1 | 0.84 | F 3534 | 0.60 m " " " " | 75 | 330 | 3900 | 12 | 150 |
| | 110 | 1 | 0.84 | F 3535 | 0.70 m " " " " | 75 | 760 | 4600 | 12 | 110 |
| | 111 | 1 | 0.86 | TC 409 | 0.70 m " " " " | 30 | 140 | 1550 | 5 | 100 |
| | 112 | 1 | 0.89 | TC 410 | 0.42 m " " " " | 8 | 50 | 800 | 2 | 110 |
| | 113 | 1 | 0.83 | TC 411 | 0.30 m " " " " | 10 | 100 | 1280 | 5 | 110 |
| | 114 | 1 | 0.90 | TC 412 | 0.45 m " " " " | 5 | 55 | 230 | 2 | 180 |
| | 115 | 1 | 0.84 | F 3536 | 0.30 m " " " " | 2 | 38 | 60 | 2 | 65 |
| | 116 | 1 | 0.77 | F 3537 | 0.63 m " " " " | 20 | 3550 | 7300 | 25 | 90 |
| | 117 | 1 | 0.77 | F 3538 | 0.57 m " " " " | 48 | 1.85% | 3.1% | 90 | 38 |
| | | | | | 115.90 m to 118.40 m Chloritised sericite schist formed by shearing and alteration of a lapilli tuff. The foliation formed by shearing ranges in core angle from 30° to 35°. Approximately 3 - 4% galena, and up to ½% brown sphalerite is visible in sample F 3538. | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L.5/63 PINNACLES METRIC GRID

524025

024

BOREHOLE No. CP9

TYPE Diamond Drill Hole

CO-ORDINATES 20.0S 17.56W

INCLINATION -45°

DIRECTION 092° Mag.

DATE 16/9/74

DATE FINISH 26/9/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 158.4 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|------|------|----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ba |
| | | | | | Approximately 4 - 5% combined galena and sphalerite is visible in sample F 3539. The mineralization follows the shear foliation or is contained within cross cutting quartz veinlets inclined from 0° to 15° to the core axis. | | | | | |
| | | | | | 118.40 m to 119.60 m Chloritised sericite schist containing rare traces of Pb-Zn mineralization. The foliation produced by shearing ranges in core angle from 18° to 30°. | | | | | |
| NQ | 118 | 1 | 0.71 | F 3539 | 0.40 m whole core, remainder broken | 200 | 1.8% | 3.4% | 90 | 32 |
| | 119 | 1 | 0.81 | F 3540 | 0.50 m " " " " | 80 | 3450 | 8000 | 25 | 120 |
| | 120 | 1 | 1.11 | F 3541 | 0.79 m " " " " | 5 | 130 | 310 | 2 | 140 |
| | 121 | 1 | 1.27 | F 3542 | 1.27 m " " " " | 2 | 60 | 140 | 2 | 130 |
| | 122 | 1 | 1.27 | F 3543 | 1.27 m " " " " | 2 | 110 | 180 | 2 | 90 |
| | 123 | 1 | 0.98 | F 3544 | 0.98 m " " " " | 2 | 230 | 180 | 3 | 130 |
| | 124 | 1 | 0.78 | F 3545 | 0.78 m " " " " | 8 | 140 | 140 | 2 | 150 |
| | 125 | 1 | 0.78 | F 3546 | 0.78 m " " " " | 2 | 42 | 75 | 1 | 150 |
| | 126 | 1 | 0.89 | F 3547 | 0.89 m " " " " | 2 | 55 | 60 | 2 | 120 |
| | 127 | 1 | 1.04 | F 3548 | 1.04 m " " " " | 2 | 65 | 290 | 2 | 110 |
| | 128 | 1 | 1.04 | F 3549 | 0.90 m " " " " | 8 | 340 | 2080 | 10 | 100 |
| | 129 | 1 | 1.04 | F 3550 | 0.20 m " " " " | 32 | 1600 | 700 | 5 | 120 |
| | 130 | 1 | 1.04 | F 3551 | 1.04 m " " " " | 10 | 2000 | 590 | 5 | 95 |
| | 131 | 1 | 1.04 | F 3552 | 0.90 m " " " " | 22 | 6800 | 1700 | 8 | 110 |
| | 132 | 1 | 0.91 | F 3553 | 0.91 m " " " " | 10 | 540 | 210 | 2 | 90 |
| | 133 | 1 | 0.91 | F 3554 | 0.90 m " " " " | 8 | 160 | 140 | 3 | 80 |
| | 134 | 1 | 0.91 | F 3555 | 0.81 m " " " " | 2 | 65 | 55 | 3 | 60 |
| | 135 | 1 | 0.92 | F 3556 | 0.85 m " " " " | 5 | 130 | 85 | 2 | 90 |
| | 136 | 1 | 0.91 | F 3557 | 0.80 m " " " " | 5 | 130 | 170 | 2 | 80 |
| | 137 | 1 | 0.91 | F 3558 | 0.91 m " " " " | 60 | 1.5% | 1870 | 8 | 55 |
| | 138 | 1 | 0.98 | F 3559 | 0.98 m " " " " | 65 | 6800 | 4550 | 15 | 55 |
| | 139 | 1 | 1.05 | F 3560 | 1.05 m " " " " | 18 | 2980 | 800 | 4 | 50 |
| | 140 | 1 | 1.05 | F 3561 | 0.90 m " " " " | 15 | 5800 | 480 | 2 | 90 |
| | 141 | 1 | 1.04 | F 3562 | 0.95 m " " " " | 15 | 1.5% | 1200 | 4 | 95 |
| | 142 | 1 | 0.92 | F 3563 | 0.92 m " " " " | 10 | 1620 | 410 | 2 | 100 |
| | | | | | 119.60 m to 158.40 m Fine pink-brown vitric tuff (or partially indurated mudstone) which in places is green due to chloritisation. | | | | | |
| | | | | | Slight shearing and quartz-carbonate veining at 120.15 m is inclined at 22° to the core axis. Shearing from 122.15 m to 123 m has a core | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L.5/63 PINNACLES METRIC GRID

524026

BOREHOLE No. CP9

TYPE Diamond Drill Hole

CO-ORDINATES 20.0S 17.56W

INCLINATION 45°

DIRECTION 092° Mag.

DATE START 16/9/74

DATE FINISH 26/9/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 158.4 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|-------|----------------|------------------|----------------------|---|---------------|------|------|----|-----|
| | | | | | | Cu | Pb | Zn | Cd | Ba |
| | | | | | angle of 17°; between 119.60 m and 124 m traces of Pb-Zn mineralization occur in occasional pods and random veinlets of quartz-carbonate. From 125.60 m to 126.80 m shearing has produced a foliation with 0° to 10° core angle. From 126.80 m to 127.20 m is a dark green band of ? dacitic vitric-crystal tuff cut by veinlets of chlorite and quartz-carbonate at core angles generally greater than 50° containing traces of Pb-Zn mineralization. A sheared band of dark green chloritised sericite schist occurs from 130.00 m to 130.70 m with core angles of the foliation less than 30°; it contains traces of galena as films coating foliation surfaces and at the bottom of the band as pods within a quartz carbonate vein (core angle 30°). From 134.40 m to 134.80 m shear foliation is parallel to the core axis. A 10 cm band of quartz-carbonate veining accompanied by brecciation of the host rock occurs from 136 m to 136.50 m with a 20° core angle. 2% galena is disseminated through the band as particles from 1 mm to 5 mm in size. Similar carbonate veins as that from 136 m to 136.50 m containing galena occur sporadically down to 145.60 m generally at very acute core angles; 2 - 3% visible galena is found in samples 3558 and 3562 but is otherwise no greater than 1%. Approximately 2% galena occurs in a quartz-carbonate vein (core angle 20°) in sample F 3578. Approximately 3 - 4% galena occurs in quartz-carbonate veins (core angle 10°) in sample F 3579. End of hole. | | | | | |
| NQ | 143 | 1 | 0.92 | F 3564 | 0.50 m whole core, remainder broken. | 15 | 960 | 220 | 2 | 100 |
| | 144 | 1 | 0.87 | F 3565 | 0.50 m " " " " | 20 | 1850 | 920 | 2 | 70 |
| | 145 | 1 | 0.60 | F 3566 | 0.07 m " " , 0.30 m broken, remainder sludge. | 85 | 5600 | 1000 | 2 | 65 |
| | 146 | 1 | 0.95 | F 3567 | 0.90 m " " , remainder broken | 18 | 3250 | 180 | 2 | 70 |
| | 147 | 1 | 1.01 | F 3568 | 1.01 m " " | 5 | 220 | 85 | 1 | 60 |
| | 148 | 1 | 1.01 | F 3569 | 1.01 m " " | 2 | 130 | 65 | 2 | 80 |
| | 149 | 1 | 1.00 | F 3570 | 1.00 m " " | 5 | 890 | 390 | 2 | 85 |
| | 150 | 1 | 0.88 | F 3571 | 0.8 m " " " " | 5 | 180 | 70 | 1 | 65 |
| | 151 | 1 | 0.88 | F 3572 | 0.8 m " " " " | 2 | 130 | 45 | 1 | 55 |
| | 152 | 1 | 0.88 | F 3573 | 0.54 m " " " " | 2 | 70 | 45 | 2 | 65 |
| | 153 | 1 | 1.59 | F 3574 | 1.54 m " " " " | 2 | 120 | 170 | 1 | 45 |
| | 154 | 1 | 1.19 | F 3575 | 0.98 m " " " " | 2 | 120 | 80 | 2 | 42 |
| | 155 | 1 | 0.98 | F 3576 | 0.98 m " " " " | 2 | 540 | 170 | 2 | 60 |

027

524028

COMSTAFF PROPRIETARY LIMITEDPINNACLES METRIC GRID - E.L. 5/63SUMMARY OF DIAMOND DRILL HOLE CP91. ROCK INTERSECTIONS

| | |
|----------------------|--|
| 0.00 m to 13.00 m | Overburden (no core recovered). |
| 13.00 m to 14.00 m | Tuff breccia with dark grey carbonaceous matrix. Trace of Pb-Zn mineralization. |
| 14.00 m to 38.30 m | Dark grey partially indurated carbonaceous mudstone. Pb-Zn mineralization. |
| 38.30 m to 38.85 m | Dark khaki chloritised sericite schist. 1-3% disseminated pyrite. |
| 38.85 m to 52.90 m | Carbonaceous mudstone as between 14.00 m and 38.30 m. Trace of sphalerite. |
| 52.90 m to 54.00 m | Fine sheared crystal-lithic tuff containing sphalerite and traces of chalcopyrite. |
| 54.00 m to 57.25 m | Light grey shale containing disseminated pyrite and traces of galena in veinlets. |
| 57.25 m to 59.05 m | Fine to medium grained altered tuff containing 10 - 15% pyrite, 1 - 2% brown sphalerite, traces of galena. |
| 59.05 m to 59.45 m | Fine, grey bedded tuff band followed by a band of alternating chert and mudstone layers. |
| 59.45 m to 61.80 m | Light grey partially indurated mudstone. |
| 61.80 m to 62.30 m | Alternating layers of fine indurated tuff and chert. |
| 62.30 m to 64.20 m | Altered fine vitric tuff, mottled pink, yellow and grey, containing 1% pyrite and a trace of chalcopyrite. |
| 64.20 m to 65.80 m | Light green lithic lapilli tuff containing rhyolite or chert fragments and traces of galena and sphalerite. |
| 65.80 m to 67.30 m | Dark green lithic lapilli tuff containing yellow quartz porphyry fragments. Trace of sphalerite present. |
| 67.30 m to 69.60 m | Fine medium grained dark green to yellow-grey tuff. Up to 5% sphalerite present. |
| 69.60 m to 71.35 m | Dark yellow-green sheared volcanic. |
| 71.35 m to 72.00 m | Dark grey partially indurated mudstone or vitric tuff with traces of galena and sphalerite. |
| 72.00 m to 78.60 m | Light grey partially indurated mudstone or vitric tuff with traces of sphalerite. |
| 78.60 m to 80.15 m | Light/dark grey mottled indurated mudstone or argillaceous chert containing up to 16% sphalerite and traces of chalcopyrite and galena. |
| 80.15 m to 100.57 m | Mottled green to dark green or pink vitric tuff with up to 6% sphalerite (sample F 4887). |
| 100.57 m to 115.90 m | Sericitised, chloritised strongly sheared crystal, vitric-crystal, and lithic-crystal tuffs. |
| 115.90 m to 118.40 m | Chloritised sericite schist, produced by shearing, containing up to 5% galena and sphalerite (Sample F 3539). |
| 118.40 m to 119.60 m | Chloritised sericite schist containing rare traces of galena and sphalerite. |
| 119.60 m to 158.40 m | Fine pink-brown to green vitric tuff containing traces of galena and sphalerite which occasionally amount to 3 - 4% of the rock by volume. |

END OF HOLE.

SUMMARY OF DIAMOND DRILL HOLE GP9 (Cont.)

2. INDICATED VALUES OF ORE

| 1% Zn cut off | | | | | | Core Recovery |
|-----------------|------------|-----------|-----------|----------|--------------------------------|---------------|
| 19.0 m | to 20.0 m | 1.45% Zn; | 0.38% Pb; | 0.04% Cu | x 1.0 m DT (Drilled thickness) | 98% |
| 28.0 m | to 30.0 m | 1.15% Zn; | 0.11% Pb; | 0.06% Cu | x 2.0 m DT | 100% |
| 49.0 m | to 51.0 m | 1.38% Zn; | 0.14% Pb; | 0.03% Cu | x 2.0 m DT | 61%* |
| 53.0 m | to 54.0 m | 5.80% Zn; | 0.24% Pb; | 0.10% Cu | x 1.0 m DT | 100% |
| 57.0 m | to 60.0 m | 2.97% Zn; | 0.48% Pb; | 0.37% Cu | x 3.0 m DT | 95% |
| 62.0 m | to 64.0 m | 1.70% Zn; | 0.19% Pb; | 0.10% Cu | x 2.0 m DT | 100% |
| 66.0 m | to 71.0 m | 2.15% Zn; | 0.17% Pb; | 0.01% Cu | x 5.0 m DT | 95% |
| 78.0 m | to 86.0 m | 2.99% Zn; | 0.04% Pb; | 0.08% Cu | x 8.0 m DT | 100% |
| 116.0 m | to 118.0 m | 3.25% Zn; | 1.83% Pb; | 0.01% Cu | x 2.0 m DT | 76.5% |
| 0.5% Zn cut off | | | | | | |
| 18.0 m | to 25.0 m | 0.77% Zn; | 0.26% Pb; | 0.02% Cu | x 7.0 m DT | |
| 25.0 m | to 27.0 m | 0.40% Zn; | 0.40% Pb; | 0.01% Cu | x 2.0 m DT | |
| 27.0 m | to 34.0 m | 0.79% Zn; | 0.10% Pb; | 0.07% Cu | x 7.0 m DT | |
| 34.0 m | to 41.0 m | 0.35% Zn; | 0.02% Pb; | 0.02% Cu | x 7.0 m DT | |
| 41.0 m | to 72.0 m | 1.32% Zn; | 0.18% Pb; | 0.07% Cu | x 31.0 m DT | |
| 72.0 m | to 78.0 m | 0.20% Zn; | 0.02% Pb; | 0.00% Cu | x 6.0 m DT | |
| 78.0 m | to 86.0 m | 2.99% Zn; | 0.04% Pb; | 0.08% Cu | x 8.0 m DT | 100% |
| 86.0 m | to 92.0 m | 0.50% Zn; | 0.02% Pb; | 0.00% Cu | x 6.0 m DT | |
| 92.0 m | to 95.0 m | 0.68% Zn; | 0.02% Pb; | 0.00% Cu | x 3.0 m DT | |
| 95.0 m | to 115.0 m | 0.26% Zn; | 0.02% Pb; | 0.00% Cu | x 20.0 m DT | |
| 115.0 m | to 119.0 m | 2.01% Zn; | 1.09% Pb; | 0.01% Cu | x 4.0 m DT | 76.5% |
| 41.0 m | to 86.0 m | 1.47% Zn; | 0.13% Pb; | 0.06% Cu | x 45.0 m DT | |
| 18.0 m | to 119.0 m | 0.98% Zn; | 0.14% Pb; | 0.04% Cu | x 101.0 m DT | |

* Next metre 14% recovery.

NB: No gold or silver assays reported

| 3. CORE RECOVERY 0.5% Zn cut off 18.0 m to 119.0 m | | Overall |
|--|---------|---------|
| Metres drilled | 101.0 m | 145.4 |
| Metres recovered | 96.83 | 139.61 |
| Percentage recovery | 96.0% | 96.01% |

4. WATER SAMPLE

CASING LEFT IN HOLE - Collar.

BOREHOLE SURVEYS USING ACID BOTTLES AND TROPARI

(Note: Tests of Tropari compared with Brunton compass show that the Tropari consistently gave bearings which were 10° too high. The bearings given below have been corrected for this error).

| Depth | Dip | Bearing (Mag) | Method |
|-------|-----|---------------|-------------------------------------|
| 0 m | 45° | 092° | Suunto compass, Brunton clinometer. |
| 25 m | 47° | 090° | Tropari |
| 30 m | 46° | 089° | " |
| 30 m | 46° | | Acid |
| 75 m | 46° | 087½° | Tropari |
| 75 m | 47° | | Acid |
| 100 m | 45° | 089° | Tropari |
| 105 m | 43° | 089° | " |
| 115 m | 44° | | Acid |

029

524030 75-1095
vol. 3/7

aac

PROJECT NAME: **COMSTAFF PROPRIETARY LIMITED**

TITLE: **DRILL LOG CP 10**

AREA NAME/S, STATE 1 : 250,000 SHEET NO/S & COORDINATES:
PINNACLES SK-55/3 PMG 24.0S 16.81W

COMMODITY/IES: **Cu, Pb, Zn**

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: **R.N. Smith**

DATE: **April 1975**

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. C.P. 10

TYPE Diamond Drill Hole

CO-ORDINATES 24.05 16.81W INCLINATION 45°

DIRECTION 090° Mag.

DATE START 27/9/74

DATE FINISH 18/10/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 195.15 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|-------|----------------|------------------|----------------------|-------------------------------------|---------------|------|------|----|-----|----|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag |
| HQ | 33 | 1.00 | 0.89 | F 3597 | 0.78 m whole core, remainder broken | 110 | 100 | 100 | 2 | 160 | <1 |
| | 34 | " | 0.91 | F 3598 | 0.78 m " " " " | 22 | 380 | 600 | 2 | 150 | " |
| | 35 | " | 0.92 | F 3599 | 0.83 m " " " " | 85 | 900 | 1350 | 4 | 160 | " |
| | 36 | " | 0.97 | F 3600 | 0.94 m " " " " | 120 | 1000 | 1550 | 5 | 200 | 1 |
| | 37 | " | 1.02 | TC 413 | 1.02 m " " " " | 100 | 600 | 1300 | 3 | 150 | 1 |
| | 38 | " | 1.00 | TC 414 | 1.00 m " " " " | 35 | 1350 | 1150 | 4 | 150 | 1 |
| | 39 | " | 0.88 | TC 415 | 0.80 m " " " " | 32 | 410 | 880 | 3 | 160 | <1 |
| | 40 | " | 0.65 | TC 416 | 0.60 m " " " " | 50 | 650 | 1600 | 3 | 150 | " |
| | 41 | " | 0.99 | TC 417 | 0.76 m " " " " | 270 | 48 | 220 | 2 | 120 | " |
| | 42 | " | 0.97 | TC 418 | 0.90 m " " " " | 48 | 5 | 70 | 2 | 130 | " |
| HQ/NQ | 43 | " | 0.92 | TC 419 | 0.80 m " " " " | 20 | <5 | 65 | 1 | 160 | " |
| NQ | 44 | " | 0.83 | TC 420 | 0.83 m " " " " | 28 | 8 | 30 | 1 | 160 | " |
| | 45 | " | 0.80 | TC 421 | 0.55 m " " " " | 35 | 10 | 120 | 1 | 160 | " |
| | 46 | " | 0.62 | TC 422 | 0.55 m " " " " | 35 | 12 | 90 | 2 | 180 | " |
| | 47 | " | 0.82 | TC 423 | 0.71 m " " " " | 110 | 140 | 1500 | 5 | 200 | " |
| | 48 | " | 0.96 | TC 424 | 0.76 m " " " " | 190 | 350 | 1.1% | 35 | 210 | 1 |
| | 49 | " | 0.96 | TC 425 | 0.90 m " " " " | 45 | 3900 | 2500 | 8 | 270 | 3 |
| | 50 | " | 0.97 | TC 426 | 0.97 m " " " " | 25 | 600 | 1450 | 5 | 210 | <1 |
| | 51 | " | 0.97 | TC 427 | 0.90 m " " " " | 18 | 28 | 38 | 2 | 160 | " |
| | 52 | " | 1.00 | TC 428 | 1.00 m " " " " | 70 | 20 | 35 | 2 | 150 | " |
| | 53 | " | 1.00 | TC 429 | 0.80 m " " " " | 60 | 30 | 48 | 2 | 160 | " |
| | 54 | " | 1.00 | TC 430 | 0.75 m " " " " | 42 | 30 | 45 | 2 | 150 | " |
| | 55 | " | 1.03 | TC 431 | 1.03 m " " " " | 50 | 10 | 35 | 1 | 130 | " |
| | 56 | " | 1.02 | TC 432 | 0.85 m " " " " | 15 | 20 | 35 | 1 | 150 | " |
| | 57 | " | 1.01 | TC 433 | 1.01 m " " " " | 8 | <5 | 32 | 1 | 130 | " |
| | 58 | " | 1.00 | TC 434 | 1.00 m " " " " | 45 | 10 | 40 | 1 | 130 | " |
| | 59 | " | 1.01 | TC 435 | 1.01 m " " " " | 22 | 12 | 28 | 1 | 160 | " |
| | 60 | " | 1.03 | TC 436 | 1.00 m " " " " | 140 | 270 | 48 | 2 | 160 | " |
| | 61 | " | 1.04 | TC 437 | 1.04 m " " " " | 150 | 160 | 70 | 2 | 170 | 1 |
| | 62 | " | 0.92 | TC 438 | 0.64 m " " " " | 110 | 1200 | 500 | 3 | 170 | 1 |
| | 63 | " | 0.87 | TC 439 | 0.87 m " " " " | 65 | 1200 | 190 | 3 | 170 | 1 |
| | 64 | " | 0.92 | TC 440 | 0.70 m " " " " | 20 | 100 | 70 | 2 | 160 | <1 |
| | 65 | " | 0.94 | TC 441 | 0.84 m " " " " | 15 | 110 | 75 | 2 | 150 | " |
| | 66 | " | 0.95 | TC 442 | 0.60 m " " " " | 30 | 290 | 270 | 2 | 210 | " |
| | 67 | " | 1.04 | TC 443 | 1.00 m " " " " | 15 | 270 | 120 | 2 | 170 | " |
| | 68 | " | 1.04 | TC 444 | 1.04 m " " " " | 8 | 110 | 42 | 2 | 150 | " |

AUSTRALIAN ANGLO AMERICAN LIMITED

524034

APPENDIX 1.

Page 4.

033

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. C.P.10

TYPE Diamond Drill Hole

CO-ORDINATES 24.05 16.81W

INCLINATION 45°

DIRECTION 090° Mag!

DATE START 27/9/74

DATE FINISH 18/10/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd

FINAL DEPTH 195.15 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|-------|----------------|------------------|----------------------|---|---------------|------|------|-----|-----|----|
| | | | | | | Cu | Pb | Zn | Ca7 | Ba | Ag |
| NQ | 69 | 1.00 | 1.05 | TC 445 | 0.70 m whole core, remainder broken. | 270 | 1500 | 1.4% | 40 | 170 | 4 |
| | 70 | " | 0.90 | TC 446 | 0.90 m " " | 45 | 750 | 140 | 2 | 150 | 2 |
| | 71 | " | 0.89 | TC 447 | 0.60 m " " " " | 18 | 110 | 48 | 2 | 150 | <1 |
| | 72 | " | 0.89 | TC 448 | 0.89 m " " | 140 | 80 | 80 | 2 | 160 | 1 |
| | 73 | " | 0.95 | TC 449 | 0.90 m " " " " | 260 | 140 | 150 | 1 | 160 | 2 |
| | 74 | " | 0.97 | TC 450 | 0.97 m " " | 70 | 15 | 60 | 2 | 150 | <1 |
| | 75 | " | 0.97 | TC 451 | 0.92 m " " " " | 35 | 22 | 90 | 2 | 180 | " |
| | 76 | " | 1.06 | TC 452 | 1.06 m " " | 18 | 22 | 270 | 2 | 220 | " |
| | 77 | " | 1.15 | TC 453 | 1.15 m " " | 32 | 42 | 350 | 2 | 130 | " |
| | 78 | " | 1.15 | TC 454 | 1.15 m " " | 100 | 75 | 1550 | 5 | 120 | " |
| | 79 | " | 0.83 | TC 455 | 0.80 m " " " " | 42 | 75 | 310 | 2 | 110 | " |
| | 80 | " | 0.89 | TC 456 | 0.60 m " " " " | 30 | 50 | 140 | 2 | 100 | " |
| | 81 | " | 0.98 | TC 457 | 0.98 m " " | 65 | 400 | 340 | 2 | 120 | 1 |
| | 82 | " | 0.98 | TC 458 | 0.98 m " " | 48 | 65 | 120 | 1 | 200 | <1 |
| | 83 | " | 0.97 | TC 459 | 0.97 m " " | 10 | 10 | 38 | 2 | 150 | " |
| | 84 | " | 0.95 | TC 460 | 0.95 m " " | 15 | 50 | 100 | 2 | 130 | " |
| | 85 | " | 0.95 | TC 461 | 0.90 m " " " " | 18 | 28 | 150 | 1 | 100 | " |
| | 86 | " | 0.79 | TC 462 | 0.70 m " " " " | 60 | 65 | 650 | 4 | 100 | " |
| | 87 | " | 0.86 | TC 463 | 0.86 m " " | 35 | 130 | 500 | 3 | 110 | " |
| | 88 | " | 0.97 | TC 464 | 0.97 m " " | 40 | 80 | 130 | 2 | 110 | " |
| | 89 | " | 0.97 | TC 465 | 0.90 m " " | 120 | 180 | 1120 | 5 | 100 | " |
| | 90 | " | 1.00 | TC 466 | 1.00 m " " | 65 | 130 | 5800 | 18 | 110 | " |
| | 91 | " | 1.00 | TC 467 | 1.00 m " " | 42 | 230 | 1120 | 5 | 130 | " |
| | 92 | " | 1.00 | TC 468 | 1.00 m " " | 28 | 340 | 700 | 4 | 140 | " |
| | 93 | " | 0.99 | TC 469 | 0.90 m " " " " | 50 | 60 | 950 | 6 | 140 | " |
| | 94 | " | 0.99 | TC 470 | 0.90 m " " " " | 38 | 70 | 2350 | 10 | 130 | " |
| | 95 | " | 1.02 | TC 471 | 1.02 m " " | 35 | 140 | 850 | 6 | 140 | " |
| | 96 | " | 1.02 | TC 472 | 0.90 m " " " " | 75 | 130 | 240 | 5 | 120 | " |
| | 97 | " | 0.88 | TC 473 | 0.84 m " " " " | 15 | 92 | 55 | 2 | 110 | " |
| | 98 | " | 1.08 | TC 474 | 0.80 m " " " " | 45 | 160 | 3700 | 15 | 120 | " |
| | | | | | 97.95 m to 98.10 m Sericite schist produced by sericitisation and shearing. The foliation produced shearing has core angles of 30°-40° in general. The schist is a pale green colour due to the presence of chlorite. | | | | | | |
| | | | | | 98.10 m to 145.81 m Fine light green vitric lithic? tuff which is generally hard though soft and sericitised near shears (same litho- | | | | | | |

034

AUSTRALIAN ANGLO AMERICAN LIMITED

524035

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. C.P.10

TYPE Diamond Drill Hole

CO-ORDINATES 24.08 16.81W

INCLINATION 45⁰

DIRECTION 090⁰ Mag.

DATE START 27/9/74

DATE FINISH 18/10/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd. FINAL DEPTH 195.15 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | | |
|-----------|-------|----------------|------------------|-----------------------------------|---|---------------|------|------|----|-----|----|--|--|--|--|
| | | | | | | | | | | | | | | | |
| | | | | | logy as from 25.00 m to 97.95 m). This may possibly be a chemical sediment rather than a tuff. Occasionally white plagioclase crystals (2 mm long) are present in the rock. Irregular quartz-carbonate veins occur in random orientations throughout. Vaguely defined pink quartzose fragments (up to 2 cm across) are present sporadically. From 112 m to 113 m are numerous equant vaguely defined pink-white fragments (up to 1 cm across) and some white plagioclase crystals in the tuff. Trace amounts of fine disseminated crystals or small aggregates (2 mm across) of pyrite occur throughout. Traces of galena and sphalerite occur sporadically. In association with the quartz-carbonate veining. 1/4 - 1/2 galena occurs in sample TC 499. Occasional shears occur and have core angles of 40 ⁰ - 60 ⁰ below 128 m. Quartz carbonate veins either have core angles of approximately 30 ⁰ or are irregular and occur at random sometimes forming localised stockworks. Between 128 m and 145.81 m the core angles shearing vary from 25 ⁰ to 60 ⁰ but would on average be 40 ⁰ - 45 ⁰ . | | | | | | | | | | |
| | | | | Petrographic sample 102.75 TA 983 | | | | | | | | | | | |
| NQ | 99 | 1.00 | 1.18 | TC 475 | 0.85 m whole core, remainder broken. | Cu | Pb | Zn | Cd | Ba | Ag | | | | |
| | 100 | " | 0.92 | TC 476 | 0.67 m " " " " | 5 | 80 | 190 | 2 | 100 | <1 | | | | |
| | 101 | " | 0.94 | TC 477 | 0.94 m " " " " | 5 | 32 | 150 | 3 | 110 | " | | | | |
| | 102 | " | 0.95 | TC 478 | 0.85 m " " " " | 38 | 160 | 2350 | 10 | 150 | " | | | | |
| | 103 | " | 0.95 | TC 479 | 0.95 m " " " " | 210 | 1950 | 9000 | 30 | 140 | 10 | | | | |
| | 104 | " | 0.96 | TC 480 | 0.96 m " " " " | 20 | 110 | 850 | 8 | 160 | <1 | | | | |
| | 105 | " | 0.96 | TC 481 | 0.96 m " " " " | 270 | 190 | 2700 | 12 | 150 | " | | | | |
| | 106 | " | 1.01 | TC 482 | 1.01 m " " " " | 50 | 45 | 410 | 3 | 170 | " | | | | |
| | 107 | " | 1.05 | TC 483 | 1.05 m " " " " | 5 | 32 | 38 | 4 | 170 | " | | | | |
| | 108 | " | 1.05 | TC 484 | 1.05 m " " " " | 5 | 30 | 100 | 3 | 160 | " | | | | |
| | 108 | " | 1.05 | TC 484 | 1.05 m " " " " | 22 | 48 | 450 | 5 | 150 | " | | | | |
| | 109 | " | 1.04 | TC 485 | 0.90 m " " " " | 15 | 12 | 31 | 2 | 120 | " | | | | |
| | 110 | " | 1.02 | TC 486 | 1.02 m " " " " | 10 | 22 | 65 | 2 | 110 | " | | | | |
| | 111 | " | 1.02 | TC 487 | 1.02 m " " " " | 20 | 120 | 650 | 3 | 120 | " | | | | |
| | 112 | " | 1.00 | TC 488 | 0.95 m " " " " | 10 | 32 | 65 | 2 | 110 | " | | | | |
| | 113 | " | 0.98 | TC 489 | 0.98 m " " " " | 8 | 22 | 100 | 3 | 160 | " | | | | |
| | 114 | " | 0.98 | TC 490 | 0.98 m " " " " | 15 | 80 | 1150 | 6 | 180 | " | | | | |
| | 115 | " | 0.98 | TC 491 | 0.98 m " " " " | 2 | 28 | 60 | 2 | 150 | " | | | | |
| | 116 | " | 0.98 | TC 492 | 0.98 m " " " " | 5 | 22 | 70 | 3 | 160 | " | | | | |
| | 117 | " | 0.98 | TC 493 | 0.98 m " " " " | 5 | 25 | 22 | 2 | 270 | " | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

524036

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. C.P.10

TYPE Diamond Drill Hole

CO-ORDINATES 24.08 16.81W

INCLINATION 45.1°

DIRECTION 090° Mag.

DATE START 27/9/74

DATE FINISH 18/10/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd.

FINAL DEPTH 195.15 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|--------|----------------|------------------|----------------------|--|---------------|------|------|----|-----|----|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag |
| NQ | 118 | 1.00 | 0.99 | TC 494 | 0.99 m whole core, remainder broken. | 15 | 25 | 38 | 2 | 170 | <1 |
| | 119 | " | 1.01 | TC 495 | 1.01 m " " | 60 | 190 | 1000 | 4 | 160 | " |
| | 120 | " | 1.01 | TC 496 | 1.01 m " " | 220 | 120 | 100 | 2 | 250 | " |
| | 121 | " | 1.02 | TC 497 | 1.02 m " " | 25 | 65 | 30 | 4 | 180 | " |
| | 122 | " | 1.04 | TC 498 | 0.94 m " " " " | 15 | 140 | 410 | 2 | 270 | " |
| | 123 | " | 1.04 | TC 499 | 1.00 m " " " " | 90 | 8500 | 3600 | 18 | 110 | 5 |
| | 124 | " | 1.03 | TC 500 | 0.98 m " " " " | 25 | 220 | 950 | 5 | 140 | <1 |
| | 125 | " | 1.03 | F 2765 | 1.03 m " " | 25 | 290 | 350 | 2 | 150 | " |
| | 126 | " | 1.02 | F 2766 | 1.02 m " " | 5 | 70 | 28 | 1 | 120 | " |
| | 127 | " | 1.01 | F 2767 | 1.01 m " " " " | 15 | 200 | 45 | 1 | 140 | " |
| | 128 | " | 1.00 | F 2768 | 1.00 m " " | 170 | 360 | 1050 | 2 | 170 | 1 |
| | 129 | " | 1.00 | F 2769 | 1.00 m " " | 220 | 140 | 90 | 1 | 150 | <1 |
| | 130 | " | 0.97 | F 2770 | 0.97 m " " | 8 | 30 | 30 | 1 | 110 | " |
| | 131 | " | 0.97 | F 2771 | 0.97 m " " | 90 | 25 | 110 | 2 | 140 | " |
| | 132 | " | 0.98 | F 2772 | 0.98 m " " | 25 | 28 | 80 | 1 | 100 | " |
| | 133 | " | 0.96 | F 2773 | 0.96 m " " | 35 | 10 | 35 | 1 | 130 | " |
| | 134 | " | 0.96 | F 2774 | 0.96 m " " | 5 | 12 | 35 | 1 | 170 | " |
| | 135 | " | 0.96 | F 2775 | 0.96 m " " | 22 | 32 | 75 | 1 | 120 | " |
| | 136 | " | 1.00 | F 2776 | 1.00 m " " | 5 | 10 | 35 | 1 | 110 | " |
| | 137 | " | 1.02 | F 2777 | 1.02 m " " | 35 | 22 | 110 | 3 | 150 | " |
| | 138 | " | 1.01 | F 2778 | 1.01 m " " | 50 | 10 | 60 | 2 | 120 | " |
| | 139 | " | 0.99 | F 2779 | 0.94 m " " | 15 | 12 | 40 | 1 | 110 | " |
| | 140 | " | 0.98 | F 2780 | 0.85 m " " | 22 | 42 | 250 | 3 | 85 | " |
| | 141 | " | 0.98 | F 2781 | 0.88 m " " | 55 | 28 | 950 | 5 | 110 | " |
| | 142 | " | 0.92 | F 2782 | 0.82 m " " | 280 | 180 | 300 | 2 | 110 | 2 |
| | 143 | " | 0.90 | F 2783 | 0.90 m " " | 10 | 18 | 45 | 2 | 120 | <1 |
| | 144 | " | 0.90 | F 2784 | 0.87 m " " | 18 | 50 | 100 | 1 | 120 | " |
| | 145 | " | 1.17 | F 2785 | 1.00 m " " " " | 18 | 48 | 160 | 1 | 170 | " |
| | 145.81 | 0.81 | 1.06 | F 2786 | 0.80 m " " " " | 15 | 100 | 130 | 1 | 150 | " |
| | | | | | 145.81 m to 147.81 m Fine yellow-dark green vitric crystal tuff(?). from 145.81 m to 146.10 m the tuff(?) is yellow and contains numerous white, slightly sericitised plagioclase (stained pale yellow with sodium cobaltinitrate indicating presence of sericite) which are generally 1 mm across. From 146.10 m to 147.81 m the rock is green and the crystals are dark green in colour due to chloritization. The upper and lower contacts are difficult to | | | | | | |

036

AUSTRALIAN ANGLO AMERICAN LIMITED

524037

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. C.P. 10

TYPE Diamond Drill Hole

CO-ORDINATES 24.0S 16.81W

INCLINATION 45°

DIRECTION 090° Mag.

DATE START 27/9/74

DATE FINISH 18/10/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd.

FINAL DEPTH 195.15 m

NWFS

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | | |
|-----------|--------|----------------|------------------|-----------------------------------|---|---------------|------|-------|----|-----|----|--|--|--|--|
| | | | | | distinguish. | | | | | | | | | | |
| | | | | | 147.81 m to 156.36 m Fine grey sericitised vitric-lithic tuff. | | | | | | | | | | |
| | | | | | From 149.8 m to 154.40 m the rock has a fragmental appearance and contains white, grey, or yellow fragments (up to 5 cm across) of fine quartzose material. The fragments are not easily defined and appear to be roughly aligned parallel to shears (core angles 40° - 55°). 1 - 3% pyrite occurs throughout as fine disseminated grains. Several bands of pyrite 2 cm wide which are inclined to the core axis at 40° or 0° occur in samples F 2976 and F 2977 and contain traces of chalcopyrite. 1/4 - 1/2 brown sphalerite with traces of galena and chalcopyrite occur in two bands of carbonate (core angle = 34°); one band is 4 cm wide and occurs in sample F 2795, the other is 6 cm wide and occurs at the boundary of samples F 2795 and F 2796. | | | | | | | | | | |
| | | | | Petrographic sample 148.05 TA 984 | | | | | | | | | | | |
| | | | | | 156.36 m to 162.07 m Fine pink-brown vitric tuff or chert(?) half of which is penetrated by a stockwork of quartz-carbonate veins. The core is broken at the contacts but the contacts appear to have core angles of 34°. Shears occur sporadically with core angles of 30° - 60°. A trace of disseminated pyrite is present. | | | | | | | | | | |
| NQ | 146.81 | 1.00 | 0.84 | F 2787 | 0.80 m whole core, remainder broken. | Cu | Pb | Zn | Cd | Ba | Ag | | | | |
| | 147.81 | " | 0.78 | F 2788 | 0.75 m " " " " | 42 | 38 | 600 | 2 | 130 | 61 | | | | |
| | 148 | 0.19 | 0.15 | F 2789 | 0.15 m " " " " | 35 | 85 | 800 | 2 | 160 | " | | | | |
| | 149 | 1.00 | 0.78 | F 2790 | 0.78 m " " " " | 18 | 80 | 960 | 4 | 170 | " | | | | |
| | 150 | " | 1.39 | F 2791 | 1.39 m " " " " | 25 | 120 | 3700 | 15 | 130 | " | | | | |
| | 151 | " | 1.18 | F 2792 | 1.13 m " " " " | 22 | 410 | 1700 | 6 | 150 | " | | | | |
| | 152 | " | 1.02 | F 2793 | 0.90 m " " " " | 90 | 340 | 2700 | 8 | 230 | 3 | | | | |
| | 153 | " | 1.02 | F 2794 | 1.00 m " " " " | 530 | 1200 | 5700 | 18 | 100 | 6 | | | | |
| | 154 | " | 1.00 | F 2795 | 1.00 m " " " " | 110 | 1850 | 7800 | 22 | 110 | " | | | | |
| | 155 | " | 1.00 | F 2796 | 1.00 m " " " " | 220 | 3600 | 1,230 | 38 | 170 | 3 | | | | |
| | 156 | " | 1.00 | F 2797 | 1.00 m " " " " | 230 | 1300 | 1,650 | 30 | 170 | 14 | | | | |
| | 156.36 | 0.36 | 0.32 | F 2798 | 0.30 m " " " " | 300 | 1900 | 1650 | 8 | 90 | 16 | | | | |
| | 157 | 0.64 | 0.50 | F 2799 | 0.48 m " " " " | 32 | 80 | 190 | 2 | 160 | 44 | | | | |
| | 158 | 1.00 | 0.77 | F 2800 | 0.77 m " " " " | 5 | 8 | 50 | 2 | 120 | " | | | | |
| | 159 | " | 0.77 | F 3771 | 0.77 m " " " " | 2 | <5 | 30 | 2 | 460 | " | | | | |
| | 160 | " | 1.14 | F 3772 | 1.14 m " " " " | 2 | <5 | 22 | 2 | 160 | " | | | | |
| | 161 | " | 1.30 | F 3773 | 1.30 m " " " " | 5 | 15 | 45 | 2 | 280 | " | | | | |
| | | | | | | 5 | 5 | 55 | 2 | 110 | " | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

524038

037

PROJECT: E.L.5/63 PINNACLES METRIC GRID

BOREHOLE No. C.P.10

TYPE Diamond Drill Hole

CO-ORDINATES 24.03 16.81W

INCLINATION 45°

DIRECTION 090° Mag.

DATE 27/9/74

DATE 18/10/74

DRILLER

COMPANY Longyear Aust. Pty. Ltd.

FINAL DEPTH 195.15 m

START

FINISH

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|--------|----------------|------------------|----------------------|---|---------------|-----|-----|----|-----|----|
| | | | | | | Cu | Pb | Zn | Ca | Ag | |
| NQ | 162.07 | 1.07 | 1.42 | F 3774 | 1.42 m whole core, remainder broken. | 5 | <5 | 28 | 1 | 60 | <1 |
| | | | | | 162.07 m to 167.66 m Fine grey sericitised vitric tuff or rhyolite which has been sheared to produce a foliation throughout much of this section. Core angles of the shearing range between 20° and 60°. Sporadic stockworks of quartz-carbonate penetrate the rock. | | | | | | |
| | | | | | 167.66 m to 195.15 m Fine pink brown vitric tuff which is penetrated and locally brecciated by quartz carbonate veinlets from 1 cm to 3 cm wide which in places form stockworks. Core angles of the veins generally range from 0° to 50°. Shearing has occurred frequently throughout the section generally at core angles of 40° - 60°. Patches of chlorite speckle the rock and are often lenticular in close proximity to shears. A trace of fine disseminated pyrite occurs throughout. Scattered traces of Pb-Zn mineralization occur in pods and veins of quartz-carbonate. | | | | | | |
| NQ | 163 | 0.93 | 0.86 | F 3775 | 0.41 m whole core, remainder broken. | 50 | 370 | 390 | 2 | 80 | 4 |
| | 164 | 1.00 | 0.79 | F 3776 | 0.60 m " " " " | 20 | 140 | 75 | 1 | 150 | 1 |
| | 165 | " | 0.90 | F 3777 | 0.50 m " " " " | 25 | 95 | 100 | 1 | 130 | <1 |
| | 166 | " | 0.93 | F 3778 | 0.71 m " " " " | 25 | 100 | 45 | 2 | 110 | " |
| | 167 | " | 1.07 | F 3779 | 0.92 m " " " " | 18 | 120 | 130 | 1 | 100 | " |
| | 167.66 | 0.66 | 0.72 | F 3780 | 0.55 m " " " " | 25 | 480 | 100 | 1 | 120 | 1 |
| | 168 | 0.34 | 0.34 | F 3781 | Whole core | 5 | 22 | 500 | 1 | 75 | <1 |
| | 169 | 1.00 | 1.01 | F 3782 | 1.01 m whole core. | 8 | 18 | 65 | 2 | 80 | " |
| | 170 | " | 1.00 | F 3783 | 1.00 m " " " " | 5 | 22 | 70 | 2 | 75 | " |
| | 171 | " | 1.00 | F 3784 | 1.00 m " " " " | 12 | 10 | 35 | 1 | 95 | " |
| | 172 | " | 0.99 | F 3785 | 0.99 m " " " " | 15 | 8 | 35 | 1 | 30 | " |
| | 173 | " | 0.99 | F 3786 | 0.99 m " " " " | 5 | <5 | 22 | 1 | 65 | " |
| | 174 | " | 1.01 | F 3787 | 1.01 m " " " " | 5 | <5 | 32 | 1 | 60 | " |
| | 175 | " | 1.07 | F 3788 | 1.07 m " " " " | 5 | <5 | 30 | 2 | 55 | " |
| | 176 | " | 1.07 | F 3789 | 1.07 m " " " " | 2 | <5 | 28 | 1 | 55 | " |
| | 177 | " | 1.05 | F 3790 | 1.05 m " " " " | 5 | <5 | 22 | 2 | 50 | " |
| | 178 | " | 0.95 | F 3791 | 0.95 m " " " " | 12 | 8 | 25 | 2 | 55 | " |
| | 179 | " | 0.95 | F 3792 | 0.95 m " " " " | 25 | 12 | 35 | 1 | 55 | " |
| | 180 | " | 0.95 | F 3793 | 0.95 m " " " " | 8 | 10 | 30 | 1 | 65 | " |
| | 181 | " | 0.97 | F 3794 | 0.97 m " " " " | 10 | 100 | 42 | 2 | 60 | " |
| | 182 | " | 0.97 | F 3795 | 0.97 m " " " " | 10 | 12 | 28 | 2 | 45 | " |
| | 183 | " | 0.97 | F 3796 | 0.97 m " " " " | 8 | <5 | 22 | 1 | 60 | " |

COMSTAFF PROPRIETARY LIMITEDE.L. 5/63 PINNACLES METRIC GRIDSUMMARY OF DIAMOND DRILL HOLE CP 101. ROCK INTERSECTIONS

| | |
|-----------------------------|---|
| <u>0.00 m to 18.80 m</u> | Fine pale green-yellow vitric tuff with a trace of galena and sphalerite. |
| <u>18.80 m to 25.00 m</u> | Pale yellow lapilli tuff with rare traces of galena, sphalerite and chalcocopyrite. |
| <u>25.00 m to 97.95 m</u> | Fine light green-brown vitric-lithic (?) tuff sometimes containing lapilli-grade fragments. Galena and sphalerite are present generally in trace amounts. |
| <u>97.95 m to 98.10 m</u> | Sericite schist. |
| <u>98.10 m to 145.81 m</u> | Fine light green vitric-lithic tuff with traces of galena and sphalerite. |
| <u>145.81 m to 147.81 m</u> | Fine yellow to dark green vitric crystal tuff (?). |
| <u>147.81 m to 156.36 m</u> | Fine grey vitric-lithic tuff with trace amounts of galena, sphalerite and chalcocopyrite on average. |
| <u>156.36 m to 162.07 m</u> | Fine pink-brown vitric tuff or rhyolite. |
| <u>162.07 m to 167.66 m</u> | Fine grey vitric tuff or rhyolite. |
| <u>167.66 m to 195.15 m</u> | Fine pink-brown vitric tuff with traces of galena and sphalerite. |

END OF HOLE2. INDICATED VALUES OF ORE1% zinc cut off

| | | | |
|----------------------|----------|------------|-------------------------|
| 47.00 m to 48.00 m | 1.1% Zn; | 0.019% Cu; | 0.035% Pb x 1.00 m D.T. |
| 68.00 m to 69.00 m | 1.4% Zn; | 0.027% Cu; | 0.15% Pb x 1.00 m D.T. |
| 153.00 m to 155.00 m | 1.4% Zn | 0.023% Cu; | 0.245% Pb x 2.00 m D.T. |

0.5% zinc cut off

| | | | |
|----------------------|-----------|------------|-------------------------|
| 29.00 m to 30.00 m | 0.65% Zn; | 38 ppm Cu; | 0.014% Pb x 1.00 m D.T. |
| 47.00 m to 48.00 m | 1.1% Zn; | 0.019% Cu; | 0.035% Pb x 1.00 m D.T. |
| 68.00 m to 69.00 m | 1.4% Zn; | 0.027% Cu; | 0.15% Pb x 1.00 m D.T. |
| 89.00 m to 90.00 m | 0.58% Zn; | 65 ppm Cu; | 0.015% Pb x 1.00 m D.T. |
| 151.00 m to 155.00 m | 1.04% Zn; | 0.027% Cu; | 0.199% Pb x 4.00 m D.T. |

NB: No gold assays reported.

SUMMARY OF DIAMOND DRILL HOLE CP 10 (contin)3. CORE RECOVERY

| | <u>Overall</u> |
|---------------------|----------------|
| Metres drilled | 195.15 m |
| Metres recovered | 183.97 m |
| Percentage recovery | 94.27 % |

4. WATER TABLE

Not recorded.

5. CASING LEFT IN HOLE

HW casing shoe No 45145

10' x NW casing . 2' x HW casing.

6. BOREHOLE SURVEYS USING TROPARI AND ACID BOTTLES

(Note: - Where possible Tropari readings were checked by Comstaff. The Tropari was tested before this borehole commenced and was found to be accurate and precise. Acid readings were corrected for capillarity.)

| <u>DEPTH (METRES)</u> | <u>DIP</u> | <u>DIRECTION (MAGNETIC)</u> | <u>METHOD</u> |
|-----------------------|------------|-----------------------------|------------------------------------|
| collar | 45½ | 090° | SUUNTO COMPASS, BRUNTON CLINOMETER |
| 25 | 45 | 095 | TROPARI |
| 25 | 45½ | | ACID |
| 50 | 45 | | ACID |
| 100 | 38 | | ACID |
| 120 | 36 | 097 | TROPARI |
| 145 | 34 | 097 | TROPARI |
| 150 | 33½ | | ACID |
| 170 | 34 | 103 | TROPARI |
| 195 | 31 | | ACID |
| 195 | 34 | 105 | TROPARI |

041

524042

75-1095
Vol 4/7

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG CP 12

OPEN FILE

AREA NAME/S, STATE 1 : 250,000 SHEET NO/S & COORDINATES:

PINNACLES SK-55/3 PMG 18.0S 16.0W

COMMODITY/IES:

Cu, Pb, Zn

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S:

R.N. Smith

DATE:

March 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12

TYPE D.D.H.

CO-ORDINATES 18.0S 16.0W

INCLINATION 60°

DIRECTION 270°

DATE 18.3.1975

DATE 28/3/1975

DRILLER

COMPANY LONGYEAR

FINAL DEPTH 150 metres

START N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | WHOLE CORE | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|--------------|----------------|------------------|----------------------|------------|---|---------------|------|------|----|-----|-----|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag |
| NQ | 3.96 5.00 | 1.04 | 0.48 | T926 | 0.00 | Grey to dark grey shale with fine laminations and tan coloured tuffaceous beds. | 50 | 600 | 200 | 1 | 160 | < 1 |
| | 6.00 | 1.00 | 0.60 | T927 | 0.00 | As above with some scattered euhedral to subhedral pyrite crystals in the shale. | 12 | 280 | 350 | 4 | 170 | " |
| | 7.00 | 1.00 | 0.69 | T928 | 0.00 | As above | 8 | 270 | 420 | 4 | 190 | " |
| | 7.88 | 0.88 | 0.61 | T929 | 0.18 | Dark grey shale with scattered pyrite crystals | 8 | 450 | 850 | 5 | 230 | " |
| | 8.88 | 1.00 | 0.72 | T930 | 0.12 | Dark grey shale / mudstone. | 40 | 120 | 4050 | 13 | 210 | 1 |
| | 9.88 | 1.00 | 0.76 | T931 | 0.00 | Very broken core. Dark grey shale with some evidence of shearing - a thin foliated olive green band, richest in pyrite. | 25 | 1520 | 3450 | 14 | 240 | 1 |
| | 10.88 | 1.00 | 0.76 | T932 | 0.00 | Pale grey, fine grained (ash) extrusive. Scattered pyrite crystals and irregular vugs. Some evidence of flow banding. | 40 | 470 | 2200 | 13 | 270 | < 1 |
| | 11.46 | 0.58 | 0.49 | T933 | 0.00 | As above, with bands of silicified dark grey mudstone. | 28 | 210 | 1600 | 8 | 260 | " |
| | 12.00 | 0.54 | 0.46 | T934 | 0.00 | As above. | 20 | 580 | 3650 | 15 | 300 | " |
| | 13.00 | 1.00 | 0.86 | T935 | 0.25 | Bedded light and dark grey shale and tuff. Silicified. Some scattered pyrite crystals. | 20 | 320 | 2850 | 14 | 260 | " |
| | 14.02 | 1.02 | 0.86 | T936 | 0.50 | Bedded light and dark grey shale (silicified for first 0.35 m) Pyrite crystals as aggregates and scattered. Bedding core angle = 45°. | 8 | 300 | 800 | 3 | 300 | " |
| | 15.00 | 0.98 | 0.64 | T937 | 0.00 | Dark grey to black carbonaceous shale (final 0.25 m) Bedding core angle 60°. A few rounded inclusions (0.50 cm) of tuffaceous material (containing euhedral pyrite crystals). Disseminated pyrite throughout shale with concentration along fine shear zones. | 28 | 1420 | 3900 | 15 | 260 | 1 |
| | 16.00 | 1.00 | 0.65 | T938 | 0.05 | Black carbonaceous shale / mudstone. Disseminated pyrite and few aggregates galena. Some evidence of shearing (slaty sheen). Core angle 45° | 50 | 2360 | 4900 | 17 | 170 | 3 |
| | 17.00 | 1.00 | 0.65 | T939 | 0.00 | As above, shearing less evident. | 48 | 1850 | 4300 | 15 | 160 | 2 |
| | 18.00 | 1.00 | 0.53 | T940 | 0.00 | Silicified laminated light and dark grey shale for first 0.50 m. Black carbonaceous mudstone with aggregates of pyrite and galena. | 50 | 690 | 1380 | 6 | 160 | 1 |
| | 18.87 | 0.87 | 0.45 | T941 | 0.00 | A black carbonaceous mudstone band followed by a vitric tuff containing aggregate of pyrite and some galena. The last 0.25 m consists of an apparently sheared | | | | | | |

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12

TYPE d.d.h.

CO-ORDINATES 18,0S 16.0W

INCLINATION 60°

DIRECTION 270°

DATE START 18.3.1975
N.W.P.S.

DATE FINISH 28.3.75

DRILLER

COMPANY LONGYEAR

FINAL DEPTH 150 metres

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | WHOLE CORE METRES | DESCRIPTION | ASSAY RESULTS | | | | | |
|-----------|-------|----------------|------------------|----------------------|-------------------|---|---------------|------|------|----|-----|----|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag |
| NQ | 18.87 | | | T941 | | array of shale, tuff and lighter siltstone. | 40 | 130 | 410 | 2 | 150 | 2 |
| | 19.59 | 0.72 | 0.37 | T942 | 0.00 | A yellowish siltstone band (containing scattered pyrite and irregular vugs) followed by a band of vitric tuff. Some infilling of the larger irregular vugs with barite. | 18 | 95 | 95 | 2 | 180 | 1 |
| | 20.00 | 0.41 | 0.21 | T943 | 0.00 | Pale green/grey silty shale (petrographic sample T418) | | | | | | |
| | 21.00 | 1.00 | 0.94 | T944 | 0.50 | As above. Last 0.75 m comprises pale grey sericitised weakly sheared vitroclastic siltstone (petrographic sample T417) | 8 | 110 | 65 | 1 | 240 | <1 |
| | 22.00 | 1.00 | 1.00 | T945 | 0.20 | Pale grey vitroclastic siltstone as above. | 8 | 70 | 50 | 1 | 250 | " |
| | 23.00 | 1.00 | 1.00 | T946 | 0.40 | Sheared lapilli tuff ranging into agglomerate, containing black shale members. The tuffaceous material is foliated and sericitised in parts (foliation core angle = 25°). Some scattered pyrite aggregates in rock. | 18 | 100 | 410 | 3 | 250 | " |
| | 24.00 | 1.00 | 0.85 | T947 | 0.30 | As above, with some concentration of pyrite along hairline fractures and a pod of sphalerite and associated galena within an irregular quartz vein. | 15 | 260 | 2100 | 7 | 220 | 1 |
| BQ | 24.37 | 0.37 | 0.39 | T948 | 0.14 | Light grey mudstone with sand grain size quartz particles, aggregates of galena and scattered pyrite. | 5 | 190 | 110 | 1 | 170 | <1 |
| | 25.00 | 0.63 | 0.67 | T949 | 0.15 | Black carbonaceous mudstone, scattered pyrite | 110 | 1700 | 810 | 7 | 170 | 5 |
| | 26.00 | 1.00 | 1.06 | T950 | 0.50 | Black carbonaceous shale (bedding core angle = 30°) Concentration of disseminated pyrite along hairline fractures. | 160 | 2160 | 6400 | 17 | 150 | 6 |
| | 27.00 | 1.00 | 0.88 | T951 | 0.25 | As above. Some sphalerite and associated galena along quartz filled vugs. | 90 | 1460 | 4000 | 14 | 120 | 5 |
| | 28.00 | 1.00 | 0.83 | T952 | 0.38 | Black carbonaceous shale - sheared. | 80 | 1240 | 2000 | 8 | 160 | 5 |
| | 29.00 | 1.00 | 0.83 | T953 | 0.76 | Black carbonaceous shale (bedding core angle = 45°) | 110 | 1200 | 2450 | 8 | 180 | 5 |

044

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12

TYPE D.D.H.

CO-ORDINATES 18.0S 16.0W

INCLINATION 60°

DIRECTION 270°

DATE START 18.3.1975

DATE FINISH 28.3.75

DRILLER

COMPANY LONG-YEAR

FINAL DEPTH 150 metres

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | WHOLE CORE METRES | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|-------|----------------|------------------|----------------------|-------------------|--|---------------|------|------|----|-----|----|--|--|--|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| | 29.00 | | | | | | | | | | | | | | |
| BQ | 30.00 | 1.00 | 0.86 | T954 | 0.86 | Black carbonaceous shale (bedding core angle = 45°) | 80 | 1120 | 1420 | 7 | 200 | 4 | | | |
| | 31.00 | 1.00 | 0.87 | T955 | 0.80 | As above. | 60 | 1420 | 2200 | 9 | 180 | 4 | | | |
| | 32.00 | 1.00 | 0.87 | T956 | 0.87 | As above. | 85 | 1000 | 2350 | 9 | 200 | 4 | | | |
| | 33.00 | 1.00 | 0.93 | T957 | 0.87 | As above. | 90 | 1220 | 4500 | 19 | 170 | 4 | | | |
| | 34.00 | 1.00 | 0.95 | T958 | 0.68 | As above. | 60 | 890 | 1600 | 6 | 180 | 3 | | | |
| | 35.00 | 1.00 | 0.95 | T959 | 0.87 | As above. | 35 | 910 | 2200 | 9 | 210 | 2 | | | |
| | 35.66 | 0.66 | 0.66 | T960 | 0.66 | As above. | 35 | 200 | 270 | 1 | 210 | 1 | | | |
| | 36.00 | 0.34 | 0.36 | T961 | 0.36 | Mottled light and dark grey and olive green tuff (?) containing 1-3% disseminated pyrite. Irregular voids with infilling of quartz. Rare pods of sphalerite and associated galena within the quartz. Some chloritization. | 22 | 190 | 1400 | 5 | 130 | 3 | | | |
| | 37.00 | 1.00 | 1.05 | T962 | 0.76 | Mottled chert (?) cut by very irregular quartz veinlets. Barite present and some chloritization. | 10 | 55 | 130 | 1 | 220 | 1 | | | |
| | 38.00 | 1.00 | 1.05 | T963 | 0.35 | Black carbonaceous shale, silicified. | 10 | 40 | 410 | 1 | 140 | 1 | | | |
| | 39.00 | 1.00 | 1.06 | T964 | 1.06 | 0.20 m fine grained dark grey rock with 2% irregular voids and 25-30% disseminated pyrite. This is followed by a chert horizon. This rock contains disseminated pyrite within the dark grey groundmass and is cut by numerous irregular quartz and barite veinlets. Iron staining is present along fine hair-line fractures. | 28 | 210 | 390 | 2 | 150 | 7 | | | |
| | 40.00 | 1.00 | 1.06 | T965 | 1.06 | Chert as above varying into crystal tuff, mottled with some chloritisation - few sulphides. | 8 | 90 | 300 | 1 | 210 | 1 | | | |
| | 41.00 | 1.00 | 1.06 | T966 | 1.06 | Sericitised sheared acid lithic crystal tuff (petrographic sample T419 - similar in thin section to petrographic sample T415 from D.D.H. CP 13. | 5 | 85 | 750 | 3 | 210 | 1 | | | |
| | 42.00 | 1.00 | 0.98 | T967 | 0.90 | Chert, mottled and cut by irregular barite (iron stained) and quartz stringers and iron stained hair-line fractures. Some chloritisation. | 8 | 70 | 270 | 2 | 210 | 1 | | | |
| | 43.00 | 1.00 | 0.92 | T968 | 0.92 | As above. | 8 | 50 | 55 | 2 | 210 | 1 | | | |
| | 44.00 | 1.00 | 0.92 | T969 | 0.89 | As above. | 8 | 55 | 140 | 1 | 230 | 1 | | | |
| | 45.00 | 1.00 | 0.97 | T970 | 0.97 | As above. | 5 | 85 | 140 | 1 | 220 | 1 | | | |

045

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | Whole core metres. | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|----------|----------------|------------------|----------------------|--------------------|--|---------------|------|------|-----|-----|-----|--|--|--|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 45.00 | | | | | | | | | | | | | | |
| | to 46.00 | 1.00 | 1.02 | T971 | 0.98 | Chert, mottled and cut by irregular barite (iron stained) and quartz stringers and iron stained hair-line fractures. Some chloritization. | 5 | 350 | 2200 | 8 | 190 | < 1 | | | |
| | 47.00 | 1.00 | 1.02 | T971 | 1.02 | As above | 5 | 110 | 160 | 1 | 210 | " | | | |
| | 48.00 | 1.00 | 1.01 | T973 | 1.01 | As above | 5 | 38 | 38 | < 1 | 210 | " | | | |
| | 49.00 | 1.00 | 1.01 | T974 | 1.01 | As above | 5 | 38 | 55 | 1 | 210 | " | | | |
| | 50.00 | 1.00 | 1.01 | T975 | 0.35 | Chert as above, grading into a silicified crystal tuff, mottled with some chloritization and cut by irregular quartz and barite veinlets. Some pyrite aggregates. | 5 | 330 | 230 | 1 | 240 | 1 | | | |
| | 51.00 | 1.00 | 1.02 | T976 | 1.02 | As above. | 5 | 410 | 230 | 2 | 210 | < 1 | | | |
| | 52.00 | 1.00 | 1.03 | T977 | 1.03 | As above | 5 | 240 | 200 | 4 | 150 | " | | | |
| | 53.00 | 1.00 | 1.03 | T978 | 1.03 | As above, some larger barite veinlets showing definite accretionary structures. | 8 | 230 | 430 | 3 | 160 | " | | | |
| | 53.81 | 0.81 | 0.82 | T979 | 0.70 | Lapilli tuff / agglomerate. Angular, somewhat chloritized tuffaceous material in a groundmass of silicified black carbonaceous shale. Some infilling of interstices by yellowish barite. Disseminated pyrite associated with groundmass. | 20 | 100 | 110 | 2 | 150 | < 1 | | | |
| | 54.81 | 1.00 | 0.94 | T980 | 0.60 | Vitric crystal tuff cut by irregular barite veins (up to 1 cm). Pyrite aggregates. | 45 | 290 | 670 | 4 | 120 | 2 | | | |
| | 55.81 | 1.00 | 0.94 | T981 | 0.94 | Silicified black carbonaceous shale, including a 0.25 m band of vitric crystal tuff chloritized in part and sheared. Some pyrite aggregates. | 42 | 1220 | 2900 | 12 | 200 | 4 | | | |
| | 56.37 | 0.56 | 0.53 | T982 | 0.40 | Silicified black carbonaceous shale including a band of subrounded chloritized tuffaceous material (showing definite flow banding) in a groundmass of pyritiferous black shale. | 20 | 1400 | 1500 | 8 | 160 | 2 | | | |
| | 56.69 | 0.32 | 0.31 | T983 | 0.30 | Vitric crystal tuff. Sheared with hairline barite filled, fractured (core angle 50°). Irregular barite stringers cutting - some pyrite. | 10 | 610 | 670 | 2 | 170 | 1 | | | |
| | 57.69 | 1.00 | 0.97 | T984 | 0.95 | As above, some chloritisation. | 8 | 290 | 450 | 4 | 210 | 1 | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNAULES METRIC GRID

BOREHOLE No. CP 12

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | whole core metres | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|-------|----------------|------------------|----------------------|-------------------|---|---------------|------|------|----|-----|----|--|--|--|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 57.69 | | | | | | | | | | | | | | |
| to | 58.57 | 0.88 | 0.85 | T985 | 0.85 | Vitric crystal tuff, cut by irregular hairline fractures (chloritised) and chlorite / barite stringers. Aggregates of pyrite and veinlet of pink feldspar. | 10 | 110 | 620 | 5 | 230 | 1 | | | |
| | 59.57 | 1.00 | 0.97 | T986 | 0.97 | As above. | 10 | 460 | 1050 | 5 | 250 | 3 | | | |
| | 60.57 | 1.00 | 0.97 | T987 | 0.97 | Crystal tuff, with pyrite aggregates and crystals scattered throughout. | 360 | 1850 | 6500 | 21 | 190 | 18 | | | |
| | 60.99 | 0.42 | 0.41 | T988 | 0.41 | As above, mottled with some chloritization and cut by very irregular barite veinlets the larger ones of which show layering on accretionary structure. | 45 | 470 | 780 | 3 | 240 | 8 | | | |
| | 61.99 | 1.00 | 0.97 | T989 | 0.97 | As above. | 110 | 970 | 2950 | 10 | 200 | 18 | | | |
| | 62.99 | 1.00 | 0.98 | T990 | 0.95 | As above, grading into a lapilli tuff with silicified black carbonaceous shale particles within barite-chlorite material which contains aggregates of pyrite. | 95 | 650 | 1320 | 5 | 220 | 14 | | | |
| | 63.99 | 1.00 | 1.02 | T991 | 1.00 | Crystal tuff/chert rock with numerous irregular barite and some pinkish feldspar veinlets. Some chloritization and pyrite aggregates. | 38 | 320 | 770 | 3 | 260 | 10 | | | |
| | 64.99 | 1.00 | 1.02 | T992 | 1.02 | As above. | 20 | 240 | 760 | 3 | 200 | 7 | | | |
| | 65.84 | 0.85 | 0.87 | T993 | 0.87 | As above, with some iron staining along random hairline fractures. | 15 | 230 | 720 | 3 | 250 | 14 | | | |
| | 66.84 | 1.00 | 1.00 | T994 | 1.06 | As above, although no iron staining. The rock is cut by some more defined barite veins (up to 0.75 cm wide) galena and rare sphalerite aggregates associated with the barite. | 15 | 2700 | 1020 | 6 | 240 | 6 | | | |
| | 67.84 | 1.00 | 1.06 | T995 | 1.06 | As above. | 70 | 2250 | 1900 | 8 | 200 | 8 | | | |
| | 68.39 | 0.55 | 0.58 | T996 | 0.58 | As above. | 15 | 2380 | 520 | 3 | 240 | 6 | | | |
| | 69.39 | 1.00 | 1.03 | T997 | 1.03 | Crystal tuff, mottled with barite stringers, chloritisation disseminated pyrite throughout and aggregates of galena. | 8 | 2860 | 370 | 3 | 290 | 4 | | | |
| | 70.39 | 1.00 | 1.01 | T988 | 1.01 | As above with only scattered pyrite aggregates also galena aggregates associated with barite veinlets. Cut by one pinkish feldspar veinlet. | 10 | 1850 | 950 | 5 | 310 | 4 | | | |
| | 70.94 | 0.55 | 0.56 | T999 | 0.56 | Lapilli tuff with silicified black shale members, pinkish feldspar, barite, chloritisation and | 8 | 870 | 960 | 5 | 260 | 2 | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. **CP 12**

TYPE **D.D.H.**

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | whole core metres | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|-------|----------------|------------------|----------------------|-------------------|---|---------------|------|------|----|-----|----|--|--|--|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 70.94 | | | | | | | | | | | | | | |
| to | 71.94 | 1.00 | 1.01 | T1000 | 1.00 | As above, grading into a crystal tuff/chert. Rare pods of sphalerite with ^{vein} of galena associated with barite stringers. | 28 | 610 | 1550 | 8 | 260 | 6 | | | |
| | 73.06 | 1.12 | 1.09 | T801 | 1.09 | Chert with barite stringers and chloritised in part. Some pods of closely associated galena, sphalerite, chalcopyrite and pyrite within or the near vicinity of the barite. Scattered pyrite aggregates throughout. | 120 | 1640 | 1800 | 7 | 300 | 4 | | | |
| | 74.06 | 1.00 | 0.97 | T802 | 0.95 | As above with sphalerite and galena along some hair-line fractures. Pyrite approximately 2% | 300 | 6000 | 3900 | 15 | 230 | 16 | | | |
| | 75.06 | 1.00 | 0.97 | T803 | 0.85 | Crystal tuff/chert? Chloritised with disseminated pyrite and rare pods of sphalerite and galena. | 140 | 3650 | 2500 | 11 | 250 | 12 | | | |
| | 76.06 | 1.00 | 1.01 | T804 | 1.00 | As above. | 38 | 2160 | 1250 | 5 | 290 | 10 | | | |
| | 77.06 | 1.00 | 1.01 | T805 | 0.90 | As above. | 8 | 810 | 220 | 2 | 360 | 3 | | | |
| | 78.06 | 1.00 | 1.01 | T806 | 0.60 | Broken porous rock, possibly a crystal tuff intersected by numerous barite veinlets, (gone into solution in part). Last 0.25 m more coherent rock with some feldspar veinlets. Disseminated pyrite throughout (= 2%). Some galena. Chloritised in part. | 20 | 250 | 280 | 1 | 320 | 1 | | | |
| | 79.06 | 1.00 | 1.03 | T807 | 1.03 | Crystal tuff/chert? chloritised in part intersected by numerous barite veinlets (some more defined). Disseminated pyrite throughout (= 2%). Galena and some rare sphalerite aggregates associated with the barite. Since this log was written, the rock type has been identified as a sericitised sheared acid lithic-crystal tuff. | 110 | 4050 | 930 | 4 | 270 | 13 | | | |

048

524049

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|-------|----------------|------------------|----------------------|-------------|---|-----|------|------|----|-----|---|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 79.06 | | | | | | | | | | | | | |
| to | 80.06 | 1.00 | 1.03 | T808 | 1.03 | | 120 | 3250 | 1750 | 7 | 310 | 6 | | |
| | 81.06 | 1.00 | 1.03 | T809 | 1.03 | As above, cut by a very defined barite vein (0.5 cm wide) showing definite accretionary formation, and including a fine deposit of galena as part of that formation. | 300 | 4340 | 4050 | 14 | 250 | 7 | | |
| | 82.06 | 1.00 | 1.01 | T810 | 1.01 | Crystal tuff, chloritised in part, cut by numerous barite veinlets. Disseminated pyrite throughout. Some aggregate of galena. | 310 | 210 | 2900 | 11 | 340 | 1 | | |
| | 83.06 | 1.00 | 1.01 | T811 | 1.01 | As above, cut by a defined pinkish feldspar vein (= 0.5 cm wide). | 8 | 150 | 100 | 1 | 310 | 1 | | |
| | 84.06 | 1.00 | 1.01 | T812 | 1.01 | As above, disseminated pyrite ~ 4% | 15 | 630 | 950 | 4 | 220 | 1 | | |
| | 85.06 | 1.00 | 1.00 | T813 | 1.00 | As above. The last 0.25 m grading into chert showing well defined flow structure (core angle 50°) with lenses of associated galena, sphalerite, chalcopyrite and lenses of pyrite. Disseminated pyrite and galena throughout. Barite veinlets orientated along flow banding. Chloritised in part. | 370 | 1900 | 9500 | 30 | 350 | 5 | | |
| | 86.06 | 1.00 | 1.00 | T814 | 0.80 | Chloritised, silicified crystal tuff, with varying amounts of disseminated pyrite (over first 0.14 m ~ 30% and over rest ~ 1%) with minor chalcopyrite, galena and sphalerite. Flow banded structure (core angle = 40°) | 320 | 1640 | 2800 | 10 | 141 | 8 | | |
| | 87.06 | 1.00 | 1.00 | T815 | 1.00 | As above with some silicified black shale particles (agglomerate ?) within last 0.20 m. | 90 | 3880 | 840 | 5 | 200 | 6 | | |
| | 88.06 | 1.00 | 0.98 | T816 | 0.90 | Pale yellow/green chert cut by random hairline fractures (barite filled) and veinlets of (barite and feldspar). Some disseminated pyrite and galena chloritised in part. | 50 | 980 | 270 | 1 | 370 | 1 | | |
| | 88.41 | 0.35 | 0.34 | T817 | 0.20 | As above including a central section of dark grey tuffaceous material, chloritised with some aggregates of pyrite. Sheared. | 8 | 95 | 140 | 1 | 130 | 1 | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | whole core metres | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|--------|----------------|------------------|----------------------|-------------------|--|---------------|----|-----|----|-----|-----|--|--|--|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 88.41 | | | | | | | | | | | | | | |
| | 89.41 | 1.00 | 0.98 | T818 | 0.95 | A milky white rock (with some quartz and siderite) consisting of irregular barite and feldspar veinlets intermeshed with some chlorite and barite. | 8 | 38 | 60 | 2 | 110 | < 1 | | | |
| | 90.41 | 1.00 | 0.99 | T819 | 0.95 | As above, becoming more silicified and darker in colour (due to intermeshing of chloritised hairline fractures). Some pyrite aggregates. | 8 | 38 | 95 | 3 | 110 | < 1 | | | |
| | 91.41 | 1.00 | 1.03 | T820 | 1.03 | Chert, milky white to pale green, with increase in chloritisation. Cut by siderite (?) and feldspar veinlets. Some pyrite aggregates. | 10 | 35 | 60 | 2 | 75 | < 1 | | | |
| | 91.41 | 1.00 | 1.03 | T820 | 1.03 | As above. | | | | | | | | | |
| | 92.41 | 1.00 | 1.03 | T821 | 1.03 | As above, very mottled, darker with aggregates of galena and pyrite and some disseminated black (manganese ?) mineral. | 5 | 15 | 50 | 2 | 70 | < 1 | | | |
| | 93.41 | 1.00 | 1.03 | T822 | 1.00 | As above. | 2 | 15 | 70 | 1 | 100 | < 1 | | | |
| | 94.41 | 1.00 | 1.02 | T823 | 1.01 | As above, grading into a silicified lapilli tuff in parts. | 5 | 15 | 70 | 1 | 90 | < 1 | | | |
| | 95.41 | 1.00 | 1.02 | T824 | 1.00 | As above, milky white to grey/green. | 5 | 55 | 70 | 2 | 85 | < 1 | | | |
| | 96.41 | 1.00 | 1.02 | T825 | 1.02 | As above. | 5 | 35 | 50 | 1 | 55 | < 1 | | | |
| | 97.41 | 1.00 | 1.02 | T826 | 0.80 | As above, grading into lapilli tuff in last 0.25 m, milky white particles surrounded by dark green chloritic material (breccia ?) | 8 | 30 | 130 | 2 | 55 | < 1 | | | |
| | 98.41 | 1.00 | 1.02 | T827 | 0.85 | Lapilli tuff, silicified, milky white barite and feldspar particles in an intermesh of chlorite and disseminated black (manganese ?) mineral. | 2 | 15 | 75 | 1 | 70 | < 1 | | | |
| | 99.41 | 1.00 | 1.02 | T828 | 1.00 | As above, some pyrite aggregates. | 10 | 18 | 80 | 1 | 70 | < 1 | | | |
| | 100.41 | 1.00 | 1.00 | T829 | 1.00 | As above. | 18 | 10 | 140 | 1 | 50 | < 1 | | | |
| | 101.41 | 1.00 | 1.00 | T830 | 1.00 | As above, grading into an agglomerate and then into a pale yellow crystal tuff/chert for last 0.20 m. | 5 | 12 | 130 | 1 | 80 | < 1 | | | |
| | 102.41 | 1.00 | 1.00 | T831 | 1.00 | Chert, milky green/grey, cut by hairline barite filled fractures. | 8 | 18 | 65 | 1 | 55 | < 1 | | | |
| | 103.41 | 1.00 | 1.03 | T832 | 1.03 | Lapilli tuff, silicified, chloritised, with some pyrite aggregates and disseminated black mineral. | 5 | 38 | 120 | 1 | 120 | < 1 | | | |

0502

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

NWPS

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | whole core metres | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|-----------|----------------|------------------|----------------------|-------------------|---|---------------|------|------|-----|-----|----|--|--|--|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 103.41 | | | | | | | | | | | | | | |
| | to 104.41 | 1.00 | 1.03 | T833 | 1.03 | Agglomerate, silicified, grading into a crystal tuff. | 8 | 15 | 50 | 1 | 85 | <1 | | | |
| | 105.41 | 1.00 | 1.03 | T834 | 1.03 | Lapilli tuff silicified. Mottled milky brown with siderite (?) feldspar and barite. Some black/(manganese ?) mineral. Chloritised in part and along hairline fractures. | 2 | 12 | 55 | <1 | 80 | " | | | |
| | 106.41 | 1.00 | 0.98 | T835 | 0.98 | As above | 2 | 32 | 55 | " | 80 | " | | | |
| | 107.41 | 1.00 | 0.98 | T836 | 0.98 | Lapilli tuff, silicified. Brecciated black carbonaceous shale particles in a fine grained chloritised groundmass and cut by barite veinlets. Rare sphalerite and galena aggregates associated with the barite. This rock grades into silicified crystal tuff with apparant banding due to varying concentrations of disseminated black (manganese ?) mineral. Some pyrite aggregates. | 18 | 6200 | 620 | 3 | 95 | 10 | | | |
| | 107.78 | 0.37 | 0.36 | T837 | 0.36 | Crystal tuff, silicified and chloritised in part. Some bands of silicified black carbonaceous shale that are offset, possibly due to slumping. Some scattered aggregates of galena, sphalerite and pyrite. | 15 | 260 | 1600 | 8 | 90 | <1 | | | |
| | 108.78 | 1.00 | 0.99 | T838 | 0.99 | Black carbonaceous shale (silicified) with some laminations of tuffaceous material defining the bedding plane (core angle = 45°). The rock is cut by irregular chloritised veinlets and hair-line fractures along which sphalerite, galena and pyrite aggregates are concentrated. Sulphides ~ 2%. | 12 | 430 | 2.5% | 86 | 160 | 1 | | | |
| | 109.78 | 1.00 | 0.99 | T839 | 0.99 | As above. | 12 | 340 | 1.5% | 55 | 190 | 1 | | | |
| | 110.49 | 0.71 | 0.70 | T840 | 0.70 | As above. The percentage of sphalerite is more than that of galena or pyrite. | 22 | 590 | 3.5% | 115 | 160 | 1 | | | |

051

524052

APPENDIX 1.

Page 10....

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 12.....

TYPE D.D.H.....

CO-ORDINATES.....

INCLINATION.....

DIRECTION.....

DATE START.....

DATE FINISH.....

DRILLER.....

COMPANY.....

FINAL DEPTH.....

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | whole core metres. | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|--------|----------------|------------------|----------------------|--------------------|---|---------------|------|-------|----|-----|----|--|--|--|
| | | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 110.49 | | | | | | | | | | | | | | |
| | 111.49 | 1.00 | 0.99 | T841 | 0.99 | Silicified black carbonaceous shale interrupted by irregular bands of silicified chloritised siltstone (?) showing flow type structures (e.g. scour and fill sedimentation). Some pods of sphalerite and associated galena. | 5 | 130 | 4500 | 17 | 120 | <1 | | | |
| | 112.49 | 1.00 | 0.99 | T842 | 0.99 | As above. | 8 | 190 | 5900 | 20 | 130 | " | | | |
| | 113.49 | 1.00 | 0.99 | T843 | 0.99 | As for T838, although less sphalerite. | 5 | 200 | 1280 | 6 | 150 | " | | | |
| | 114.49 | 1.00 | 0.99 | T844 | 0.99 | As above. | 8 | 340 | 2800 | 11 | 130 | " | | | |
| | 115.49 | 1.00 | 1.01 | T845 | 0.90 | As above. | 28 | 1120 | 1.95% | 66 | 120 | 1 | | | |
| | 116.57 | 1.08 | 1.09 | T846 | 0.90 | Black carbonaceous mudstone, silicified. Sheared in part, with angular particles of shale supported in a meshwork of barite. Some galena aggregates. | 20 | 8000 | 1150 | 6 | 110 | 8 | | | |
| | 117.57 | 1.00 | 1.01 | T847 | 1.01 | Chert, mottled milky yellow to green. Including some stringers of black mineral (manganese or carbonaceous)? and disseminated pyrite. Cut by irregular barite veinlets. | 8 | 590 | 160 | 1 | 110 | <1 | | | |
| | 118.57 | 1.00 | 0.99 | T848 | 0.90 | As above. | 5 | 440 | 160 | 2 | 75 | " | | | |
| | 119.29 | 0.72 | 0.72 | T849 | 0.60 | As above. | 12 | 130 | 2100 | 8 | 100 | " | | | |
| | 120.29 | 1.00 | 0.99 | T850 | 0.97 | Black carbonaceous shale, silicified with some irregular bands of chloritised crystal tuff with pyrite aggregates over first 0.20 m. | 35 | 490 | 9500 | 32 | 150 | 1 | | | |
| | 121.29 | 1.00 | 0.96 | T851 | 0.96 | Silicified black carbonaceous mudstone cut by irregular hairline fractures and fine barite (?) stringers in which sphalerite, galena and pyrite aggregates are concentrated. | 48 | 730 | 2.0% | 62 | 130 | 1 | | | |
| | 122.29 | 1.00 | 0.94 | T852 | 0.94 | As above, with some irregular bands of chloritised crystal tuff. | 48 | 1080 | 2.1% | 64 | 120 | 2 | | | |
| | 123.29 | 1.00 | 0.94 | T853 | 0.94 | As above. | 50 | 940 | 1.95% | 60 | 132 | 2 | | | |
| | 124.29 | 1.00 | 0.97 | T854 | 0.97 | As above. | 140 | 1020 | 2.5% | 78 | 120 | 3 | | | |
| | 125.29 | 1.00 | 1.00 | T855 | 1.00 | As above. | 32 | 1740 | 8900 | 28 | 120 | 2 | | | |
| | 126.29 | 1.00 | 1.00 | T856 | 1.00 | As above. | 20 | 690 | 5600 | 20 | 120 | <1 | | | |
| | 127.29 | 1.00 | 1.05 | T857 | 1.05 | As above. | 150 | 1180 | 2.7% | 84 | 110 | 3 | | | |
| | 128.43 | 1.14 | 1.25 | T858 | 1.25 | As above. | 170 | 910 | 3.1% | 92 | 95 | 3 | | | |
| | 129.43 | 1.00 | 1.03 | T859 | 1.03 | Chert, milky white to greenish. | 5 | <5 | 100 | 2 | 30 | <1 | | | |

053

524054

AUSTRALIAN ANGLO AMERICAN LIMITED

DRILLHOLE LOG - SUMMARY SHEET

E.L. 5/63 PINNACLES METRIC GRID

CP 12

Non coring to: 3.96 m NQ core to: 24.37 m BQ core to: 150.8 m BOH 150.8 m

SURVEY DATA (Eastman camera)

| <u>Depth</u> | <u>Declination</u> | <u>Azimuth</u> |
|--------------|--------------------|----------------|
| 30 m | 58½ | 267½ |
| 50 m | 57½ | 268 |
| 71 m | 55½ | 268 |
| 125 m | 52 | 270 |
| 150 m | 47½ | 273 |

LOG SUMMARY

| <u>Depth</u> | <u>ROCK TYPE</u> | <u>MINERALIZATION (VISUAL ESTIMATES)</u> | |
|----------------------------|---|---|--------------|
| | | <u>STYLE</u> | <u>GRADE</u> |
| <u>3.96 m - 9.88 m</u> | Grey - dark grey shale. | Disseminated pyrite. | |
| <u>9.88 m - 12.00 m</u> | Fine pale grey tuff. | " " | |
| <u>12.00 m - 17.00 m</u> | Grey or black shales. | " " | |
| <u>17.00 m - 18.5 m</u> | " " " | Aggregates of pyrite & galena. | |
| <u>18.5 m - 19.59 m</u> | Vitric tuff, yellow vughy silt-stone & shale locally sheared. | " " " | |
| <u>19.59 m - 20.25 m</u> | | " " " | |
| <u>20.25 m - 22.00 m</u> | | | |
| <u>22.00 m - 24.00 m</u> | Sheared sericitised lapilli tuff grading into agglomerate. | Disseminated pyrite aggregates and pod of galena & sphalerite in irregular quartz vein. | Trace |
| <u>24.00 m - 35.66 m</u> | Black shale and mudstone. | Disseminated pyrite. | |
| <u>35.66 m - 37.00 m</u> | Grey-green mottled tuff & chert. | Disseminated pyrite & rare pods of ZnS & PbS in quartz infillings. | 1-3% |
| <u>37.00 m - 39.00 m</u> | Black shale & chert | Disseminated pyrite. | Trace |
| <u>39.00 m - 53.00 m</u> | Chert & minor crystal tuffs. | Aggregated pyrite. | Trace |
| <u>53.00 m - 53.81 m</u> | Lapilli tuff/agglomerate. | Disseminated pyrite. | |
| <u>53.81 m - 56.37 m</u> | Black shales & vitric-crystal tuffs. | Aggregated pyrite. | |
| <u>56.37 m - 70.39 m</u> | Crystal and vitric-crystal tuffs, minor lapilli tuff. | Aggregated galena & pyrite. | |
| <u>70.39 m - 71.94 m</u> | Lapilli tuff grading into crystal tuff and/or chert. | Disseminated pyrite | 2% |
| <u>71.94 m - 74.06 m</u> | Chert with mineralised barite veinlets. | Pods of ZnS & PbS with barite. | Trace |
| <u>74.06 m - 87.06 m</u> | Crystal tuff and/or chert. | Pods of ZnS PbS pyrite & chalc-pyrite with veinlets. | |
| <u>87.06 m - 88.41 m</u> | Yellow/green chert. | Disseminated pyrite. | up to 2% |
| <u>88.41 m - 90.41 m</u> | White chert(?) veined by barite and feldspar. | Rare ZnS & PbS pods. | |
| <u>90.41 m - 97.16 m</u> | White/pale green chert. | Disseminated pyrite & PbS. | |
| <u>97.16 m - 100.41 m</u> | Lapilli tuff. | Aggregated pyrite. | |
| <u>100.41 m - 102.41 m</u> | Agglomerate, crystal tuff & chert. | Aggregated pyrite & PbS. | |
| <u>102.41 m - 107.41 m</u> | Lapilli tuffs. | | |
| <u>107.41 m - 116.57 m</u> | Black shales, mudstone with minor tuffs. | ZnS PbS & pyrite as disseminated aggregates & hairline veinlets. | up to 2% |
| <u>116.57 m - 119.29 m</u> | Pale yellow/green chert. | Disseminated pyrite. | |
| <u>119.29 m - 128.43 m</u> | Black shale & mudstone with minor tuffs. | Aggregated PbS ZnS & pyrite in hair-line cracks & barite(?) stringers. | |

DRILLHOLE LOG - SUMMARY SHEET - CP 12 (contin)

| | | |
|----------------------------|---|-----------------------------|
| <u>128.43 m - 135.43 m</u> | White or green chert. | Aggregated pyrite & galena. |
| <u>135.43 m - 144.43 m</u> | Cherty crystal stuff. | Aggregated galena. |
| <u>144.43 m - 150.80 m</u> | Mottled pink-green chert (agglomerate?). | Aggregated pyrite & galena. |

INDICATED VALUES OF ORE1% Zinc cut off

| | | | | | |
|---------------------|----------|-------------|-----------|----------|------|
| 107.78 m - 110.49 m | 2.33% Zn | 439 ppm Pb | 15 ppm Cu | x 2.71 m | D.T. |
| 114.49 m - 115.49 m | 1.95% Zn | 1120 ppm Pb | 28 ppm Cu | x 1.00 m | D.T. |
| 120.29 m - 128.43 m | 1.99% Zn | 1034 ppm Pb | 81 ppm Cu | x 8.14 m | D.T. |

CORE RECOVERY

| | |
|---------------------|--------|
| drilled metres | 146.84 |
| recovered metres | 140.39 |
| percentage recovery | 90.10% |

WATER TABLE

Not recorded.

CASING LEFT IN HOLE

2 x 10' BW casing.

D.D.H. CP 12INDICATED VALUES OF ORE1.0% Zinc cut off

| | Zn | Pb | Cu | Cd | Ag | D.T. |
|---------------------|-------|-------|--------|--------|-------|----------|
| 107.78 m - 110.49 m | 2.39% | 0.04% | <0.01% | 82 ppm | 1 ppm | x 2.71 m |
| 114.49 m - 115.49 m | 1.95% | 0.11% | <0.01% | 66 ppm | 1 ppm | x 1.00 m |
| 120.29 m - 128.43 m | 1.99% | 0.08% | <0.01% | 62 ppm | 2 ppm | x 8.14 m |

0.5% Zinc cut off

| | | | | | | |
|-------------------|-------|-------|--------|--------|-------|-----------|
| 107.78 - 128.43 m | 1.32% | 0.10% | <0.01% | 43 ppm | 1 ppm | x 20.65 m |
|-------------------|-------|-------|--------|--------|-------|-----------|

NB: No gold assays reported.

056

524057 75-1095
vol 5/7

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG CP 13

OPEN FILE

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES:
PINNACLES SK-55/3 PMG 20S 17.0W

COMMODITY/IES: Cu, Pb, Zn

TEXT PAGES NO:
PLAN NOS:

TABLE NOS:
APPENDICES:

AUTHOR/S: R.N. Smith

DATE: April 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 13

TYPE D.D.H.

collar is 11½ metres from
CO-ORDINATES PMG 20 S 17.0 W INCLINATION 61
(compass bearing from collar
DRILLER to 17.0 W peg is 031½ mag) COMPANY LONGYEAR

DIRECTION 270

DATE START 28.3.75
N.W.P.S.

DATE FINISH 5.4.75

FINAL DEPTH 249.30 m

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|-------|----------------|------------------|----------------------|--|---------------|------|-------|----|-----|----|--|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| NQ | 4.00 | | | Whole core | | | | | | | | | | |
| | 5.00 | 1.00 | 1.00 | T882 0.20 | Black carbonaceous shale (bedding core angle = 15°) containing rare traces of fine disseminated pyrite and aggregated galena. | 75 | 920 | 780 | 4 | 110 | 1 | | | |
| | 6.00 | 1.00 | 0.90 | T883 0.10 | As above. | 140 | 1100 | 1050 | 3 | 140 | 1 | | | |
| | 7.00 | 1.00 | 0.89 | T884 0.00 | Sheared, sericitised rock with disseminated pyrite and aggregates of galena aligned along foliation plane (core angle = 15°) | 70 | 1150 | 2550 | 10 | 180 | 1 | | | |
| | 8.00 | 1.00 | 0.89 | T885 0.00 | As for T882 | 450 | 1480 | 950 | 5 | 140 | 1 | | | |
| | 9.00 | 1.00 | 1.06 | T886 0.25 | As above. | 450 | 3050 | 5000 | 17 | 150 | 6 | | | |
| | 10.00 | 1.00 | 1.08 | T887 0.20 | As above. | 95 | 1020 | 5500 | 18 | 130 | 1 | | | |
| | 11.00 | 1.00 | 1.08 | T888 0.30 | As above, with some sphalerite. | 360 | 1640 | 7500 | 26 | 150 | 3 | | | |
| | 12.00 | 1.000 | 0.95 | T889 0.35 | As above. | 550 | 2100 | 6800 | 26 | 180 | 6 | | | |
| | 13.00 | 1.00 | 0.93 | T890 0.40 | As above. | 390 | 8000 | 1.50% | 46 | 120 | 12 | | | |
| | 14.00 | 1.00 | 0.93 | T891 0.15 | Black carbonaceous mudstone, porous, cut by quartz stringers. Galena and sphalerite (crystalline) along fine fractures. Some chalcopyrite and pyrite aggregates. | 560 | 3800 | 2.7% | 80 | 110 | 13 | | | |
| | 15.00 | 1.00 | 0.70 | T892 0.10 | As above. | 460 | 2380 | 9100 | 30 | 150 | 7 | | | |
| | 15.72 | 0.72 | 0.46 | T893 0.45 | Finely laminated black shale and yellowish pyrochastic material, showing some ripple type structures (bedding core angle = 7°) Disseminated pyrite with some aggregates of galena and pods of sphalerite within small fractures. | 720 | 2820 | 8500 | 30 | 80 | 5 | | | |
| | 16.72 | 1.00 | 0.64 | T894 0.10 | As for T882 - sheared in part. | 160 | 2350 | 3600 | 12 | 190 | 2 | | | |
| | 17.72 | 1.00 | 0.75 | T895 0.15 | As above. | 38 | 850 | 1500 | 6 | 210 | <1 | | | |
| | 18.72 | 1.00 | 0.88 | T896 0.20 | As above. | 45 | 910 | 4450 | 17 | 150 | " | | | |
| | 19.42 | 0.70 | 0.62 | T897 0.45 | As above, cut by fine irregular barite stringers in which aggregates of galena and minor sphalerite are concentrated. | 35 | 1320 | 3900 | 15 | 160 | " | | | |
| | 20.42 | 1.00 | 0.88 | T898 0.88 | As for T893, cut by more defined barite veinlets containing pods of galena and sphalerite. Last 0.50 m silicified black carbonaceous shale cut by irregular hairline fractures (barite filled). Some pyrite aggregates. | 55 | 1840 | 6900 | 27 | 140 | 1 | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 13

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START
N.W.P.S.

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | | DESCRIPTION | ASSAY RESULTS | | | | | | | | | | |
|-----------|-------|----------------|------------------|----------------------|--------------------|---|---------------|------|-------|-----|-----|----|--|--|--|--|--|
| | | | | No. | Whole Core metres. | | Cu | Pb | Zn | Cd | Ba | Ag | | | | | |
| BQ | 32.50 | | | | | | | | | | | | | | | | |
| | 33.10 | 0.60 | 0.62 | T712 | 0.62 | A mottled collection of quartz, barite, chlorite and sulphides - possibly an agglomerate. Sphalerite, galena and some chalcopyrite generally associated with the barite. Pyrite, as aggregates and crystals in the dark grey groundmass and finely disseminated within the barite. Pyrite approx. 4% Galena approx. 2%. This rock grades into a sheared chloritised laminated shale/crystal tuff (bedding core angle = 74°) | 5200 | 2700 | 6.4% | 170 | 120 | 14 | | | | | |
| | 34.10 | 1.00 | 1.04 | T713 | 0.95 | Crystal tuff, barite rich with some black material (possibly carbonaceous). Disseminated pyrite and galena with some pods of sphalerite and galena associated with the carbonaceous material. This rock grades into a sheared chloritised laminated black shale/crystal tuff. (Core angle = 74°) Some sphalerite and galena associated with the barite veinlets. | 880 | 2980 | 9000 | 29 | 350 | 11 | | | | | |
| | 35.10 | 1.00 | 1.04 | T714 | 1.04 | Crystal tuff, olive green. Sheared and chloritised. Some pyrite and galena films. | 100 | 3820 | 1150 | 4 | 340 | 5 | | | | | |
| | 36.10 | 1.00 | 0.89 | T715 | 0.89 | Crystal tuff. Chloritised and sheared. Some sphalerite and galena, generally associated with cross cutting veinlets. Disseminated pyrite. | 50 | 780 | 1350 | 6 | 330 | 1 | | | | | |
| | 37.10 | 1.00 | 0.76 | T716 | 0.70 | As above, grading into a very porous black carboniferous mudstone. Quartz deposits within voids. Disseminated pyrite and galena throughout, some pods of chalcopyrite and sphalerite. | 830 | 2040 | 6500 | 23 | 300 | 4 | | | | | |
| | 38.10 | 1.00 | 0.76 | T717 | 0.60 | Silicified black carbonaceous shale with fine laminations of tuffaceous material cut by irregular barite stringers. Some aggregates of sphalerite, galena and pyrite scattered throughout. | 1680 | 2050 | 1.35% | 47 | 150 | 15 | | | | | |
| | 39.10 | 1.00 | 0.89 | T718 | 0.85 | As above. | 75 | 2200 | 6000 | 21 | 160 | 1 | | | | | |
| | 40.10 | 1.00 | 1.02 | T719 | 0.95 | As above. | 380 | 4050 | 1.25% | 38 | 150 | 5 | | | | | |
| | 41.10 | 1.00 | 1.02 | T720 | 1.02 | As above, lighter grey with fine pyrite laminations defining the bedding plane (core angle = 50°). Some pods of sphalerite and galena. | 480 | 880 | 7500 | 23 | 200 | 1 | | | | | |
| | 42.10 | 1.00 | 1.03 | T721 | 1.03 | As above. | 220 | 340 | 5500 | 19 | 120 | 1 | | | | | |
| | 43.10 | 1.00 | 1.05 | T722 | 1.05 | As above, with chalcopyrite. | 3060 | 700 | 7700 | 23 | 100 | 3 | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 13

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | |
|-----------|-------|----------------|------------------|-----------------------|---|---------------|------|-------|-----|-----|----|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | |
| BQ | 43.10 | - | | No. Whole core metres | | | | | | | | | |
| | 44.10 | 1.00 | 1.05 | T723 1.05 | Mid grey carbonaceous shale, silicified with aggregates of sphalerite, galena, chalcoppyrite and pyrite along irregular fine fractures. Pyrite scattered throughout. | 1420 | 950 | 9500 | 30 | 180 | 7 | | |
| | 44.45 | 0.35 | 0.37 | T724 0.37 | As above. | 420 | 670 | 3050 | 9 | 160 | 3 | | |
| | 45.45 | 1.00 | 1.05 | T725 1.05 | Sheared and chloritised crystal tuff (foliation core angle = 35°) cut by irregular barite stringers. Some disseminated pyrite and aggregates of sphalerite and galena. | 120 | 200 | 3000 | 11 | 270 | 1 | | |
| | 46.45 | 1.00 | 1.05 | T726 0.85 | Chert/silicified mudstone. Strongly chloritised along shear zones. Some pyrite, sphalerite and galena. | 440 | 290 | 7500 | 24 | 230 | 1 | | |
| | 47.45 | 1.00 | 1.05 | T727 1.00 | 0.75 m dark olive green, silicified and sheared shale consisting of chlorite material and disseminated pyrite (approx. 10%). Last 0.25 m mid grey chert rock, with some chloritisation and aggregates of pyrite. | 420 | 330 | 6500 | 21 | 160 | 2 | | |
| | 48.45 | 1.00 | 0.96 | T728 0.96 | Crystal tuff - mid grey, rich in quartz with no crystalline structure. An apparent bedding. (core angle = 78°). Including fine laminations of carbonaceous? material, pods of chalcoppyrite, sphalerite, galena and pyrite generally associated with fine quartz veinlets. Some chloritisation. | 970 | 150 | 7400 | 25 | 120 | 1 | | |
| | 49.45 | 1.00 | 0.90 | T729 0.90 | As above. | 560 | 200 | 3650 | 14 | 130 | <1 | | |
| | 50.45 | 1.00 | 0.90 | T730 0.80 | As above. | 7800 | 3320 | 7.0% | 230 | 100 | 19 | | |
| | 51.45 | 1.00 | 0.97 | T731 0.95 | As above, dark olive green sheared and broken (core angle = 65°) very chloritised. Disseminated pyrite throughout (2%). Aggregates pyrite, chalcoppyrite, sphalerite and galena concentrated in fine barite(?) stringers. | 2020 | 2520 | 2.5% | 80 | 140 | 8 | | |
| | 52.19 | 0.74 | 0.75 | T732 0.70 | As above. | 1260 | 590 | 2.5% | 72 | 190 | 3 | | |
| | 53.19 | 1.00 | 1.01 | T733 1.00 | Mid grey cherty rock. Some chloritisation and shearing. | 75 | 120 | 1900 | 7 | 120 | <1 | | |
| | 54.19 | 1.00 | 1.01 | T734 0.70 | Sheared and chloritised agglomerate. Some pods of galena and associated sphalerite. | 300 | 610 | 1.50% | 50 | 220 | 3 | | |
| | 55.53 | 1.34 | 1.33 | T735 1.33 | As above, grading into a sheared silicified chloritised black carbonaceous shale with aggregates of pyrite throughout and some sphalerite, galena and chalcoppyrite. | 760 | 330 | 3.4% | 105 | 190 | 4 | | |
| | 56.53 | 1.00 | 0.99 | T736 0.95 | Dark olive green sheared chloritised shale. Cut by irregular fractures, which are barite lined and infilled with sphalerite galena and chalcoppyrite. Galena approx. 1%. Disseminated | 28 | 150 | 9000 | 30 | 190 | <1 | | |

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FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|-------|----------------|------------------|----------------------|-------------------|--|---------------|------|-------|----|-----|----|--|--|--|
| | | | | Sample No. | Whole core metres | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 56.53 | - | | | | | | | | | | | | | |
| | 57.53 | 1.00 | 0.97 | T737 | 0.70 | As above, becoming less chloritised. | 160 | 4850 | 1.30% | 46 | 200 | 8 | | | |
| | 58.53 | 1.00 | 0.95 | T738 | 0.85 | Black carbonaceous shale, cut by irregular barite stringers and fractures, along which some aggregates of sphalerite, galena and pyrite are concentrated. | 610 | 4300 | 2.8% | 88 | 90 | 7 | | | |
| | 59.53 | 1.00 | 0.95 | T739 | 0.45 | Black carbonaceous mudstone, silicified and porous. | 470 | 1000 | 1.90% | 60 | 190 | 3 | | | |
| | 60.53 | 1.00 | 0.99 | T740 | 0.30 | As above with some barite lining pores. Some chloritisation. | 130 | 2000 | 8500 | 28 | 180 | 4 | | | |
| | 61.22 | 0.69 | 0.70 | T741 | 0.60 | As above, with some disseminated pyrite. | 400 | 1000 | 1.40% | 45 | 170 | 3 | | | |
| | 62.22 | 1.00 | 1.01 | T742 | 0.40 | As above, very broken, some pyrite and galena. | 100 | 580 | 1000 | 3 | 180 | <1 | | | |
| | 63.22 | 1.00 | 1.02 | T743 | 1.02 | Fine tuffaceous material, silicified, chloritised in part and cut by irregular fine hairline fractures (yellow stained). Some pyrite aggregates. Galena aggregates associated with less numerous barite veinlets. | 420 | 200 | 410 | 1 | 120 | " | | | |
| | 64.22 | 1.00 | 1.05 | T744 | 1.05 | As above. | 260 | 170 | 830 | 3 | 150 | " | | | |
| | 65.22 | 1.00 | 1.05 | T745 | 1.05 | As above. | 160 | 260 | 1550 | 6 | 150 | " | | | |
| | 66.22 | 1.00 | 1.04 | T746 | 0.25 | As above - very broken | 48 | 95 | 270 | 2 | 150 | " | | | |
| | 67.22 | 1.00 | 1.00 | T747 | 1.00 | As for T743, barite and barite/quartz veinlets more numerous. Galena and minor sphalerite associated with these veinlets. Some pyrite crystals and aggregates. Pinkish mineral (cinnabar?) films on fracture surfaces. | 45 | 190 | 320 | 2 | 160 | " | | | |
| | 68.22 | 1.00 | 1.00 | T748 | 0.85 | Chert, pinkish. Cut by irregular barite/quartz veinlets. | 8 | 50 | 170 | 2 | 95 | " | | | |
| | 69.22 | 1.00 | 1.00 | T749 | 1.00 | As above, some chloritisation. Scattered pyrite. | 2 | 20 | 40 | 1 | 45 | " | | | |
| | 70.22 | 1.00 | 1.02 | T750 | 1.02 | As above, strongly chloritised tuffaceous material in part. | 2 | 35 | 95 | 1 | 70 | " | | | |
| | 71.22 | 1.00 | 1.02 | T751 | 1.02 | Chert with chlorite, irregular pods of carbonaceous material cut by barite veinlets and containing scattered pyrite. | 190 | 110 | 250 | 2 | 150 | " | | | |
| | 72.22 | 1.00 | 1.02 | T752 | 1.02 | As above. | 370 | 80 | 290 | 2 | 110 | " | | | |
| | 73.22 | 1.00 | 1.03 | T753 | 1.03 | As above. | 470 | 110 | 180 | 1 | 120 | " | | | |
| | 74.22 | 1.00 | 1.03 | T754 | 1.03 | As above. | 300 | 135 | 300 | <1 | 100 | 2 | | | |
| | 75.22 | 1.00 | 1.03 | T755 | 0.95 | As above with a 50 cm band of silicified carbonaceous material containing pyrite crystals and aggregates. Rare chalcopyrite. | 330 | 115 | 290 | " | 95 | 2 | | | |
| | 76.22 | 1.00 | 0.98 | T756 | 0.98 | As above, rare chalcopyrite, sphalerite and associated galena along veinlet. | 160 | 160 | 410 | " | 120 | 1 | | | |
| | 77.22 | 1.00 | 0.98 | T757 | 0.98 | Tuffaceous material. Irregular chlorite/carbonaceous patches. Cut by barite and pinkish (feldspar) veinlets. | 45 | 30 | 140 | " | 60 | <1 | | | |
| | 78.22 | 1.00 | 0.98 | T758 | 0.98 | As above, grading into a chert. Pyrite aggregates throughout (cont.) | 10 | 80 | 135 | " | 90 | " | | | |

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BOREHOLE No. CP 13

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CO-ORDINATES

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DIRECTION

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DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|--------|----------------|------------------|------------------------|--|---------------|-----|-----|----|-----|----|--|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 77.22 | | | Sample core No. metres | | | | | | | | | | |
| | 78.22 | | | T758 | 50% pyrite crystals within a 20 cm chloritic band. Rare sphalerite and galena. | | | | | | | | | |
| | 79.22 | 1.00 | 1.00 | T759 0.97 | Chert with some wisps of black (carbonaceous?) material and chlorite. Pyrite crystals and aggregates throughout. | 8 | 55 | 80 | <1 | 85 | <1 | | | |
| | 80.22 | 1.00 | 1.00 | T760 0.95 | As above with a 0.30 m shear zone of chlorite/sericite/carbonaceous material, angular quartz particles and cut by quartz carbonate veinlets. Some pyrite. | 10 | 175 | 270 | 2 | 165 | 1 | | | |
| | 81.22 | 1.00 | 1.00 | T761 1.00 | Chert, some chlorite. Cut by numerous irregular carbonate veinlets in which some galena aggregates are concentrated. rare sphalerite. Scattered pyrite throughout. | 2 | 20 | 55 | <1 | 245 | <1 | | | |
| | 82.22 | 1.00 | 0.98 | T762 0.98 | As above. | 2 | 320 | 600 | 2 | 210 | " | | | |
| | 82.76 | 0.54 | 0.53 | T763 0.53 | As above. | 5 | 190 | 390 | 2 | 165 | " | | | |
| | 83.76 | 1.00 | 0.98 | T764 0.98 | Black/green chloritised tuffaceous material cut by irregular carbonate veinlets. | 5 | 10 | 240 | 2 | 80 | " | | | |
| | 84.76 | 1.00 | 0.99 | T765 0.99 | As above. | 5 | 20 | 850 | 4 | 60 | " | | | |
| | 85.76 | 1.00 | 1.01 | T766 1.01 | Chloritised vitric crystal tuff. Occasional carbonate veinlets with some rare aggregates of sphalerite and galena. | 2 | 12 | 190 | 2 | 75 | " | | | |
| | 86.76 | 1.00 | 1.01 | T767 1.01 | As above. | 5 | <5 | 160 | 3 | 60 | " | | | |
| | 87.76 | 1.00 | 0.99 | T768 0.99 | As above, plus some pods pyrite. | 5 | 30 | 150 | <1 | 85 | " | | | |
| | 88.76 | 1.00 | 0.97 | T769 0.97 | As above, sulphides rare. | 8 | 100 | 650 | 2 | 125 | 1 | | | |
| | 89.76 | 1.00 | 0.97 | T770 0.97 | As above. | <2 | <5 | 90 | 3 | 85 | <1 | | | |
| | 90.76 | 1.00 | 0.99 | T771 0.99 | As above. | " | " | 85 | 3 | 85 | " | | | |
| | 91.76 | 1.00 | 1/03 | T772 0.03 | As above. | 2 | 5 | 90 | 1 | 60 | " | | | |
| | 92.76 | 1.00 | 1.03 | T773 1.03 | As above. | 2 | 25 | 140 | 2 | 85 | " | | | |
| | 93.76 | 1.00 | 1.02 | T774 1.02 | As above. | 2 | 25 | 145 | <1 | 80 | " | | | |
| | 94.76 | 1.00 | 1.01 | T775 1.01 | As above. | 2 | 30 | 180 | 1 | 70 | " | | | |
| | 95.76 | 1.00 | 1.01 | T776 1.01 | As above. | 5 | 18 | 125 | <1 | 85 | " | | | |
| | 96.76 | 1.00 | 1.01 | T777 1.01 | As above. | 5 | <5 | 80 | " | 105 | " | | | |
| | 97.76 | 1.00 | 1.01 | T778 1.01 | As above, cut by numerous pinkish (feldspar) veinlets. | 2 | 5 | 40 | 1 | 70 | " | | | |
| | 98.30 | 0.54 | 0.55 | T779 0.55 | As above. | 2 | 8 | 65 | <1 | 75 | " | | | |
| | 99.30 | 1.00 | 1.01 | T780 1.01 | Chert, chlorite rich, cut by intermesh of carbonaceous veinlets. Some pyrite aggregates. | 2 | 5 | 20 | " | 20 | " | | | |
| | 100.30 | 1.00 | 1.03 | T781 1.03 | As above. | 8 | 45 | 130 | 1 | 25 | " | | | |

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DRILLER

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FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | | DESCRIPTION | ASSAY RESULTS | | | | | | | |
|-----------|------------------|----------------|------------------|----------------------|--------|---|---------------|-----|------|----|-----|----|--|--|
| | | | | Whole | metres | | Cu | Pb | Zn | Cd | Ba | Ag | | |
| BQ | 100.30 to 101.30 | 1.00 | 1.05 | T782 | 1.05 | As above. | 5 | 5 | 50 | 1 | 30 | 1 | | |
| | 102.30 | 1.00 | 1.05 | T783 | | As above, with quartz carbonate veinlets. Rare pyrite aggregates. Wisps of black (carbonaceous?) material. | 5 | 20 | 55 | <1 | 35 | <1 | | |
| | 103.30 | 1.00 | 1.04 | T784 | 1.04 | As above. | 5 | 530 | 200 | " | 45 | " | | |
| | 104.30 | 1.00 | 1.03 | T785 | 1.00 | As above. | 2 | 5 | 22 | 1 | 25 | " | | |
| | 105.30 | 1.00 | 1.03 | T786 | 1.03 | As above. | 8 | 65 | 1150 | 5 | 40 | " | | |
| | 106.30 | 1.00 | 1.01 | T787 | 1.01 | As above, grading into a crystal tuff, with quartz and feldspar particles intermeshed with chloritic/carbonaceous material. Rare galena. | 2 | 40 | 40 | <1 | 70 | " | | |
| | 107.30 | 1.00 | 1.00 | T788 | 1.00 | As above. | 10 | 45 | 100 | 1 | 65 | " | | |
| | 108.30 | 1.00 | 1.00 | T789 | 1.00 | Chert, chloritised. Cut by numerous quartz-carbonate veinlets. Wisps of black carbonaceous material. | 8 | 50 | 950 | 3 | 50 | " | | |
| | 109.30 | 1.00 | 1.02 | T790 | 1.02 | Crystal tuff silicified. Cut by numerous black/green (chloritic) hairline stringers, and less and more defined quartz-carbonate veinlets. Some aggregates of sphalerite and associated galena within veinlets. | 5 | 40 | 550 | 3 | 50 | " | | |
| | 110.30 | 1.00 | 1.03 | T791 | 1.00 | As above. | <2 | 35 | 850 | 5 | 60 | " | | |
| | 111.30 | 1.00 | 1.03 | T792 | 0.80 | Mottled black-green rock, silicified chloritised and cut by irregular carbonate stringers. Some pyrite aggregates and wisps of black material. Becoming pale and quartz rich over last 0.40 m in a zone of apparant shearing - broken core. | 2 | 100 | 900 | 4 | 45 | " | | |
| | 112.30 | 1.00 | 1.06 | T793 | 1.04 | As for T789. | <2 | 35 | 75 | 2 | 50 | " | | |
| | 113.30 | 1.00 | 1.08 | T794 | 0.35 | As above, paler and broken core. Apparant zone of shearing. | 2 | 90 | 550 | 3 | 25 | " | | |
| | 114.30 | 1.00 | 1.08 | T795 | 0.25 | As above. | <2 | 10 | 100 | 3 | 50 | " | | |
| | 115.30 | 1.00 | 1.05 | T796 | 0.70 | As above, grading into crystal tuff with quartz and feldspar particles welded in black/green (chloritic) material and including carbonate veinlets. | " | 40 | 115 | 2 | 75 | " | | |
| | 116.30 | 1.00 | 0.99 | T797 | 0.95 | A chert-type rock. Mottled with some areas pinkish (feldspar rich) intermeshed with black-green material (chloritic/carbonaceous) | 70 | 30 | 145 | 2 | 90 | " | | |
| | 117.30 | 1.00 | 0.99 | T798 | 0.99 | As above. | 2 | 55 | 450 | 3 | 100 | " | | |
| | 118.30 | 1.00 | 1.01 | T799 | 0.50 | Black carbonaceous mudstone, silicified cut by numerous and irregular quartz-carbonate veinlets. Some sphalerite and galena aggregates within veinlets. Some shearing. | 25 | 390 | 6000 | 20 | 100 | 1 | | |

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BOREHOLE No. CP 13

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N.V.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|--------|----------------|------------------|------------------------------|---|---------------|------|-------|----|-----|----|--|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 118.30 | - | | Sample No. Whole core metres | | | | | | | | | | |
| | 119.30 | 1.00 | 1.03 | T800 1.00 | As above. No shearing. | 22 | 475 | 1.05% | 30 | 165 | 1 | | | |
| | 120.30 | 1.00 | 1.03 | T601 1.00 | As above. | 18 | 295 | 4450 | 15 | 185 | 1 | | | |
| | 121.30 | 1.00 | 1.02 | T602 1.00 | As above, some pyrite aggregates and angular particles of tuffaceous material. | 15 | 210 | 3550 | 12 | 175 | <1 | | | |
| | 122.30 | 1.00 | 1.01 | T603 1.01 | Vitric crystal tuff, silicified. Cut by irregular carbonate veinlets and including quartz feldspar phenocrysts. | 2 | 155 | 95 | 3 | 145 | " | | | |
| | 123.30 | 1.00 | 1.01 | T604 1.01 | As above. | 5 | 95 | 1200 | 5 | 165 | " | | | |
| | 124.30 | 1.00 | 1.01 | T605 1.01 | As above. Some sphalerite. | 2 | 90 | 270 | 3 | 145 | " | | | |
| | 125.30 | 1.00 | 1.00 | T606 0.90 | As above. | 8 | 170 | 1420 | 5 | 70 | " | | | |
| | 126.78 | 1.48 | 1.48 | T607 1.20 | As above. | 5 | 180 | 1000 | 5 | 95 | " | | | |
| | 127.78 | 1.00 | 1.02 | T608 1.02 | Dark gray/green rock, quartz rich with some fine threads of black, possibly carbonaceous material. Within last 0.20 m a zone of shearing - chloritic and cut by quartz-carbonate veinlets and including a couple of 1 mm bands of sphalerite with accessory galena. | 5 | 100 | 4000 | 12 | 85 | " | | | |
| | 128.78 | 1.00 | 1.03 | T609 1.03 | As above. (excluding last 0.20 m). | 2 | 28 | 1720 | 5 | 85 | " | | | |
| | 129.78 | 1.00 | 1.03 | T610 0.85 | As above. Last 0.10 m sheared. | <2 | 35 | 470 | 3 | 90 | " | | | |
| | 131.01 | 1.23 | 1.27 | T611 0.40 | As above, with some zones richer in chlorite/sericite, and sheared. | 2 | 72 | 370 | 3 | 120 | " | | | |
| | 132.01 | 1.00 | 1.04 | T612 0.20 | Silicified black carbonaceous mudstone. Some bands of tuffaceous material. Cut by numerous and irregular quartz-carbonate veinlets. Some pyrite aggregates. Apparently sheared - very broken core. | 38 | 2900 | 3150 | 12 | 135 | 3 | | | |
| | 133.01 | 1.00 | 1.04 | T613 0.10 | As above. | 10 | 750 | 1850 | 10 | 125 | <1 | | | |
| | 134.01 | 1.00 | 1.12 | T614 0.10 | As above. | 22 | 1050 | 1780 | 8 | 140 | 1 | | | |
| | 135.01 | 1.00 | 1.14 | T615 0.10 | As above. | 12 | 75 | 150 | 2 | 215 | <1 | | | |
| | 136.01 | 1.00 | 1.14 | T616 0.10 | As above. | 8 | 110 | 310 | 4 | 270 | " | | | |
| | 137.01 | 1.00 | 1.05 | T617 0.10 | As above. | 8 | 160 | 440 | 3 | 190 | " | | | |
| | 138.01 | 1.00 | 1.03 | T618 0.10 | As above. | 10 | 650 | 980 | 7 | 175 | " | | | |
| | 139.01 | 1.00 | 1.03 | T619 0.10 | As above. | 5 | 200 | 240 | 2 | 210 | " | | | |
| | 140.01 | 1.00 | 1.00 | T620 0.10 | As above. | 8 | 800 | 210 | 2 | 175 | " | | | |
| | 141.01 | 1.00 | 0.98 | T621 0.30 | Vitric crystal tuff, cut by carbonate stringers and veinlets. Some pyrite aggregates. Sheared and broken core. | 8 | 465 | 800 | 4 | 210 | " | | | |
| | 142.01 | 1.00 | 0.98 | T622 0.30 | As above. | 15 | 1400 | 1520 | 7 | 170 | " | | | |

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N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | |
|-----------|--------|----------------|------------------|------------------------|--|---------------|------|------|----|-----|----|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | |
| BQ | 158.01 | - | | Sample Core No. metres | | | | | | | | | |
| | 159.01 | 1.00 | 1.04 | T639 1.04 | Silicified siltstone bands or particles welded in a tuffaceous /carbonate mixture matrix. Chloritised in part. Some bands of pyrite aggregates. | 8 | 80 | 140 | 3 | 140 | <1 | | |
| | 160.01 | 1.00 | 1.04 | T640 1.04 | As above. Pyrite rare, rock cut by carbonate veinlets. | 8 | 82 | 240 | 2 | 200 | " | | |
| | 161.01 | 1.00 | 1.03 | T641 1.03 | As above. | 5 | 82 | 200 | 3 | 165 | " | | |
| | 162.01 | 1.00 | 1.00 | T642 0.70 | Lapilli tuff. Angular particles within a carbonate rich tuffaceous matrix. Some chloritisation. Pyrite aggregates. | 5 | 130 | 190 | 4 | 120 | " | | |
| | 163.01 | 1.00 | 1.00 | T643 0.70 | As above grading into an ash consolidated in a carbonate rich matrix. Some pyrite aggregates. | 10 | 750 | 1050 | 4 | 190 | " | | |
| | 164.01 | 1.00 | 0.99 | T644 0.90 | A mixture of black carbonaceous shale and fine tuffaceous materials, carbonate and disseminated pyrite (pyrite less than 1%). Some galena associated with carbonate veinlets. Very sheared and broken core for last 0.20 m - a black carbonaceous zone. | 8 | 2050 | 1450 | 5 | 150 | " | | |
| | 165.01 | 1.00 | 0.98 | T645 0.85 | As above grading into a ^{silicified} black carbonaceous mudstone cut by quartz-carbonate veinlets. | 8 | 850 | 720 | 3 | 150 | " | | |
| | 166.01 | 1.00 | 0.98 | T646 0.20 | Silicified black carbonaceous mudstone, cut by numerous quartz-carbonate veinlets. Few pyrite aggregates. Sheared and broken core. | 8 | 110 | 60 | 1 | 125 | " | | |
| | 167.01 | 1.00 | 1.00 | T647 0.35 | As above. | 12 | 700 | 250 | 2 | 110 | " | | |
| | 167.44 | 0.43 | 0.44 | T648 0.20 | As above. | 12 | 650 | 180 | 1 | 150 | " | | |
| | 168.44 | 1.00 | 1.02 | T649 1.01 | Chert - pale grey. Thin wisps carbonaceous material, some iron staining and chloritisation and cut by irregular carbonate veinlets. Some evidence of accretionary structures. Rare galena aggregates associated with the carbonate veinlets. | 2 | 240 | 35 | 1 | 230 | " | | |
| | 169.44 | 1.00 | 1.02 | T650 1.02 | As above. | < 2 | 82 | 55 | <1 | 245 | " | | |
| | 170.44 | 1.00 | 1.02 | T651 1.02 | First 0.20 m zone of intense quartz-carbonate veining with some black carbonaceous material. Extending into mid grey silicified mudstone cut by carbonate veinlets. | 2 | 15 | 15 | 1 | 230 | " | | |
| | 171.44 | 1.00 | 1.02 | T652 1.02 | Chert - mid grey, including wisps of carbonaceous material and some chloritisation. Cut by carbonate veinlets. | < 2 | 82 | 30 | <1 | 220 | " | | |
| | 172.44 | 1.00 | 1.02 | T653 1.02 | As above. (i.e. last 0.80 m). Stringers of barite which show accretionary structure. | " | 18 | 45 | 1 | 210 | " | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/62 PINNACLES METRIC GRID

BOREHOLE No. CP. 13

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|--------|----------------|------------------|------------------------|--|---------------|-----|-----|----|-----|----|--|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 172.44 | - | | Sample core No. metres | | | | | | | | | | |
| | 173.44 | 1.00 | 1.01 | T654 1.01 | As above. | 2 | 15 | 110 | 1 | 240 | <1 | | | |
| | 174.44 | 1.00 | 0.99 | T655 0.99 | As above, including 5.5cm band of silicified black carbonaceous mudstone. | 2 | 32 | 40 | 1 | 230 | " | | | |
| | 175.44 | 1.00 | 0.99 | T656 0.95 | As above. | <2 | 50 | 85 | 1 | 160 | " | | | |
| | 176.44 | 1.00 | 1.03 | T657 1.03 | As above, grading into a silicified mudstone, including numerous carbonate veinlets over last 0.20 m. | 2 | 100 | 125 | 1 | 180 | " | | | |
| | 176.76 | 0.32 | 0.34 | T658 0.25 | Silicified black carbonaceous mudstone, cut by carbonate veinlets and including some zones of tuffaceous material. | <2 | 55 | 110 | 1 | 130 | " | | | |
| | 177.77 | 1.01 | 1.07 | T659 1.00 | As above. | 5 | 90 | 125 | 1 | 120 | " | | | |
| | 178.77 | 1.00 | 1.06 | T660 1.00 | As above - First 6 cm quartz-carbonate vein. | 2 | 45 | 70 | 2 | 130 | " | | | |
| | 179.77 | 1.00 | 0.89 | T661 0.40 | As for T658 | 2 | 105 | 80 | 1 | 150 | " | | | |
| | 180.77 | 1.00 | 0.85 | T662 0.75 | As above, including barite veinlets. | 5 | 60 | 140 | 2 | 120 | " | | | |
| | 181.77 | 1.00 | 0.85 | T663 0.80 | As above. | 5 | 58 | 35 | 2 | 135 | " | | | |
| | 182.77 | 1.00 | 0.95 | T664 0.95 | Silicified siltstone. Black carbonaceous particles (from silt size to 5 mm) in a fine mid grey carbonaceous-carbonate matrix and including some barite veinlets. Some wisps of black carbonaceous material. Rare pyrite. | 2 | 25 | 15 | 1 | 200 | " | | | |
| | 183.77 | 1.00 | 0.97 | T665 0.97 | As above. | <2 | 45 | 20 | 1 | 155 | " | | | |
| | 184.77 | 1.00 | 0.97 | T666 0.97 | Black carbonaceous mudstone, silicified. Carbonate veins along some fracture zones. | 8 | 32 | 130 | 2 | 100 | " | | | |
| | 185.77 | 1.00 | 1.03 | T667 1.03 | As above, including some barite veinlets and rare pyrite. | 5 | 28 | 70 | 2 | 160 | " | | | |
| | 186.77 | 1.00 | 1.03 | T668 1.03 | Crystal tuff including some bands rich in black carbonaceous material. Cut by carbonate and quartz-carbonate veinlets. Disseminated pyrite over 4 cm zone. Rare sphalerite and galena. | 5 | 32 | 85 | 2 | 220 | " | | | |
| | 187.77 | 1.00 | 1.03 | T669 1.03 | Crystal tuff including wisps of carbonaceous material and intermesh of carbon filled hairline fractures. Cut by carbonate veinlets. Some brown mineral (feldspar?) inclusions. | 15 | 22 | 85 | 3 | 225 | " | | | |
| | 188.77 | 1.00 | 0.96 | T670 0.96 | Silicified black carbonaceous shale with irregular beds and pods of lighter siltstone or tuffaceous material. Slumping obliterates bedding. | 20 | 35 | 115 | 3 | 220 | " | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 13

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND ^{metre} metres | DESCRIPTION | ASSAY RESULTS | | | | | | | | |
|-----------|--------|----------------|------------------|---|--|---------------|-----|------|----|-----|----|--|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | |
| BQ | 188.77 | - | | Sample core No. metres | | | | | | | | | | |
| | 189.77 | 1.00 | 0.92 | T671 0.92 | Crystal tuff. Chloritised in part and including wisps of carbonaceous material. Last 0.20 m interbedded black carbonaceous shale with lighter carbonaceous shale and mudstone. Slumping, ripple structures and graded bedding apparent. Cut by carbonate veinlets (bedding core angle = 70°) | 48 | 22 | 95 | 3 | 185 | 21 | | | |
| | 190.77 | 1.00 | 0.92 | T672 0.92 | As for last 0.20 m above. Some carbonate fitted fractures defined bedding plane. (core angle = 60°) | 55 | 48 | 180 | 2 | 190 | " | | | |
| | 191.77 | 1.00 | 0.98 | T673 0.98 | As above. Some pyrite crystals within 5 mm quartz-carbonate vein. Bedding plane undefined. | 48 | 58 | 150 | 3 | 180 | " | | | |
| | 192.77 | 1.00 | 1.01 | T674 1.01 | As above. (No pyrite) | 30 | 100 | 340 | 4 | 215 | " | | | |
| | 193.77 | 1.00 | 1.01 | T675 1.01 | Silicified black carbonaceous shale mudstone cut by quartz-carbonate veinlets. | 28 | 135 | 450 | 3 | 155 | " | | | |
| | 194.77 | 1.00 | 1.12 | T676 1.12 | As above. Some rare sphalerite and galena aggregates associated with the quartz rich, and minor carbonate veinlets. | 38 | 750 | 1400 | 5 | 150 | " | | | |
| | 195.77 | 1.00 | 1.02 | T679 1.02 | As for T675 and including a vein of crystalline quartz with some galena specks. | 30 | 400 | 1100 | 5 | 150 | 1 | | | |
| | 196.77 | 1.00 | 0.88 | T678 0.88 | As for T675. Veinlets with only minor carbonate. Some sphalerite aggregates within these veinlets. | 22 | 370 | 1200 | 5 | 140 | 21 | | | |
| | 197.77 | 1.00 | 0.92 | T679 0.92 | Silicified carbonaceous mudstone, from black to dark grey. Cut by quartz carbonate veins. The whole rock appears to be brecciated, with angular components in a random array. Pyrite crystals and aggregates scattered throughout. | 35 | 100 | 85 | 2 | 160 | " | | | |
| | 198.77 | 1.00 | 1.00 | T680 0.90 | As above. | 18 | 80 | 60 | 1 | 150 | " | | | |
| | 199.77 | 1.00 | 1.00 | T681 1.00 | Silicified carbonaceous shale. Interbedded black and dark grey layers, lighter layers richer in carbonate. In part bedding core angle = 75°, random with slumping structures elsewhere. Cut by quartz-carbonate veins. | 22 | 30 | 75 | 2 | 160 | " | | | |
| | 200.77 | 1.00 | 0.99 | T682 0.95 | As above. | 18 | 20 | 40 | 2 | 130 | " | | | |
| | 201.77 | 1.00 | 0.98 | T683 0.90 | As above. (bedding core angle = 75°) | 15 | 25 | 100 | 3 | 140 | " | | | |
| | 202.77 | 1.00 | 0.98 | T684 0.95 | As above. | 8 | 12 | 15 | 2 | 100 | " | | | |
| | 203.77 | 1.00 | 0.99 | T685 0.90 | As above. (bedding core angle = 85°) | 35 | 35 | 160 | 2 | 115 | " | | | |
| | 204.77 | 1.00 | 1.04 | T860 1.00 | As for T679. No sulphides. | 30 | 45 | 70 | 2 | 110 | " | | | |
| | 205.77 | 1.00 | 1.04 | T687 0.95 | As for T681. Bedding core angle = 15° for first 0.40 m, 50° thereafter. | 15 | 22 | 45 | 3 | 120 | " | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 13

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | | | | | | |
|-----------|--------|----------------|------------------|------------------------|---|---------------|-----|-----|----|-----|----|--|--|--|--|
| | | | | | | Cu | Pb | Zn | Cd | Ba | Ag | | | | |
| BQ | 205.77 | - | | Sample core No. metres | | | | | | | | | | | |
| | 206.77 | 1.00 | 1.03 | T688 1.03 | As above. At 0.70 m a fold - bedding core angle approx. vertical changing to 30°. | 25 | 40 | 100 | 2 | 150 | <1 | | | | |
| | 207.77 | 1.00 | 1.00 | T689 1.00 | As above. | 25 | 15 | 45 | 2 | 135 | " | | | | |
| | 208.77 | 1.00 | 1.00 | T690 1.00 | As above. (bedding core angle = 20°) | 20 | 18 | 40 | 3 | 125 | " | | | | |
| | 209.77 | 1.00 | 1.00 | T691 1.00 | As above. (bedding core angle = 85°) | 40 | 30 | 48 | 2 | 110 | " | | | | |
| | 210.77 | 1.00 | 1.04 | T692 0.85 | As above, including 0.20 m shear zone - broken core. | 22 | 62 | 170 | 2 | 150 | " | | | | |
| | 211.77 | 1.00 | 1.04 | T693 0.65 | As above, 0.30 m shear zone, very fragmented core. | 28 | 60 | 160 | 4 | 150 | " | | | | |
| | 212.77 | 1.00 | 1.00 | T694 0.35 | As above. Bedding core angle = 80°. Very contorted over last 0.20 m. | 22 | 20 | 50 | 3 | 120 | " | | | | |
| | 213.77 | 1.00 | 1.05 | T695 1.00 | As above. | 25 | 30 | 65 | 2 | 130 | " | | | | |
| | 214.77 | 1.00 | 1.05 | T696 1.05 | As above. | 15 | 45 | 95 | 1 | 140 | " | | | | |
| | 215.77 | 1.00 | 1.05 | T697 1.05 | As above. Bedding core angle = 45°. | 18 | 55 | 190 | 1 | 140 | " | | | | |
| | 216.77 | 1.00 | 0.99 | T699 0.99 | As above. Bedding core angle = 5°. | 20 | 50 | 75 | 2 | 160 | " | | | | |
| | 217.77 | 1.00 | 0.99 | T699 0.99 | As above. Bedding core angle = 5°. | 20 | 58 | 100 | 3 | 150 | " | | | | |
| | 218.77 | 1.00 | 0.99 | T700 0.99 | As above. Rare pyrite films. | 18 | 60 | 230 | 2 | 150 | " | | | | |
| | 219.77 | 1.00 | 0.94 | T1201 0.94 | | 15 | 115 | 600 | 3 | 110 | " | | | | |
| | 220.77 | 1.00 | 0.94 | T1202 0.94 | As above. Bedding core angle = 45°. | 18 | 60 | 380 | 2 | 130 | " | | | | |
| | 221.77 | 1.00 | 0.94 | T1203 0.94 | As above. Bedding core angle = 45°. | 20 | 20 | 70 | <1 | 120 | " | | | | |
| | 222.77 | 1.00 | 0.94 | T1204 0.94 | As above. Bedding core angle = 50°, very contorted in part. | 25 | 45 | 140 | " | 120 | " | | | | |
| | 223.77 | 1.00 | 0.94 | T1205 0.94 | As above. Bedding core angle = 85°. | 8 | 10 | 22 | " | 110 | " | | | | |
| | 224.77 | 1.00 | 0.94 | T1206 0.90 | As above. Bedding core angle = 70°. | 25 | 52 | 125 | " | 140 | " | | | | |
| | 225.77 | 1.00 | 1.02 | T1207 0.90 | As above. Rare pyrite crystals within quartz-carbonate veins. | 10 | 105 | 260 | 1 | 120 | " | | | | |
| | 226.77 | 1.00 | 1.03 | T1208 0.95 | As above. Contorted with strong quartz carbonate veining. | 12 | 35 | 65 | <1 | 140 | " | | | | |
| | 227.77 | 1.00 | 1.03 | T1209 1.03 | As above. Bedding core angle = 77°. | 12 | 15 | 28 | " | 160 | " | | | | |
| | 228.77 | 1.00 | 1.03 | T1210 1.00 | As above. Bedding core angle = 76°. | 20 | 25 | 60 | " | 190 | " | | | | |
| | 229.77 | 1.00 | 1.02 | T1211 1.02 | As above, contorted. | 15 | 32 | 145 | " | 160 | " | | | | |
| | 230.77 | 1.00 | 1.02 | T1212 1.02 | As above. Bedding core angle = 60°. | 22 | 180 | 240 | 2 | 180 | " | | | | |
| | 231.77 | 1.00 | 1.01 | T1213 1.01 | As above. Bedding core angle = 60°, contorted and slumping in part. | 22 | 25 | 85 | 1 | 190 | " | | | | |
| | 232.77 | 1.00 | 1.01 | T1214 1.01 | As above. First 0.40 m lighter carbonaceous shale (carbonate rich). No bedding evident. At approximately last 0.70 m a 5 mm band of finely disseminated pyrite. | 12 | 48 | 170 | 1 | 130 | " | | | | |
| | 233.77 | 1.00 | 1.01 | T1215 1.01 | As above. Bedding core angle = 68°. Occasional bands and pods pyrite along bedding plane. | 25 | 50 | 330 | 2 | 160 | " | | | | |

E.L. 5/63 PINNACLES METRIC GRID - D.D.H. CP 13

SUMMARY1. SURVEY DATA

| Depth | Declination uncorrected | Azimuth (mag) |
|-------|----------------------------|---------------|
| 0 | 61 | 270 |
| 25 | 59 | 268 |
| 50 | 57 | 268½ |
| 75 | 52 | 271 |
| 100 | 49 | 271 |
| 125 | 45 | 271 |
| 175 | 40 | 268 |
| 200 | 39 | 268 |
| 249 | 38 | 267 |

2. LOG SUMMARY

| Rock type | Mineralisation | Grade |
|------------------------|--|----------|
| | Style | |
| <u>4.00m to 20.42m</u> | Black carbonaceous shale. Disseminated pyrite and aggregates of galena. | |
| <u>20.42m - 21.42m</u> | Dark grey mudstone. Minor galena and sphalerite within barite stringers. | |
| <u>21.42m - 32.21m</u> | Silicified black carbonaceous shale interbedded with tuffaceous material. Trace pyrite, sphalerite, galena along bedding plane. | |
| <u>32.21 - 32.50</u> | Silicified black shale with numerous barite veinlets. Disseminated pyrite. Aggregates of sphalerite, galena, pyrite. | 3% |
| <u>32.50 - 33.10</u> | Agglomerate(?) grading into crystal tuff. Pyrite Galena associated with barite veinlets. | 4% 2% |
| <u>33.10 - 37.10</u> | Crystal tuff. Sheared and chloritised. Disseminated pyrite, some pods of galena and sphalerite. | |
| <u>37.10 - 46.45</u> | Silicified black shale. As above. | |
| <u>46.45 - 47.45</u> | As above. Disseminated pyrite. | 10% |
| <u>47.45 - 53.19</u> | Crystal tuff. Disseminated pyrite, aggregates of chalcopyrite, sphalerite and galena within barite stringers. | to 2% |
| <u>53.19 - 62.22</u> | Black shale. As above. | |
| <u>62.22 - 82.76</u> | Crystal tuff grading into a chert cut by barite veinlets. Disseminated pyrite. Some aggregates of sphalerite, galena and chalcopyrite. | |
| <u>82.76 - 110.30</u> | Crystal tuff - chloritised and cut by carbonate veinlets. Rare pyrite, sphalerite and galena. | |
| <u>110.30 - 111.30</u> | Sheared zone. Pyrite aggregates. | |
| <u>111.30 - 122.30</u> | Chert, chloritised, cut by carbonate veinlets. | |
| <u>122.30 - 167.44</u> | Vitric crystal tuff with carbonate stringers and some black shale bands. Pyrite, galena and sphalerite aggregates. | |
| <u>167.44 - 176.44</u> | Chert. Rare galena aggregates within carbonate veinlets. | |
| <u>176.44 - 185.77</u> | Black mudstone. Rare pyrite. | |
| <u>185.77 - 198.77</u> | Crystal tuff grading into a black shale. Quartz-carbonate veining. Disseminated pyrite. Rare sphalerite and galena. | |
| <u>198.77 - 249.30</u> | Interbedded black and dark grey shale. Rare sulphides. | |

END OF HOLE

D.D.H. CP 13 SUMMARY (contin.)3. INDICATED VALUES OF ORE1% Zinc cut off

| | | | | | | | |
|---------------------|----------|----------|-----------|------------|------------|---|--------------|
| 12.00 m - 14.00 m | 2.10%Zn; | 0.59%Pb; | 0.05%Cu; | 13 ppm Ag; | 63 ppm Cd; | x | 2.00 m D.T. |
| 29.42 m - 33.10 m | 2.95%Zn; | 0.96%Pb; | 0.25%Cu; | 10 ppm Ag; | 75 ppm Cd; | x | 3.68 m D.T. |
| 37.10 m - 38.10 m | 1.35%Zn; | 0.21%Pb; | 0.17%Cu; | 15 ppm Ag; | 47 ppm Cd; | x | 1.00 m D.T. |
| 39.10 m - 40.10 m | 1.25%Zn; | 0.41%Pb | 0.04%Cu; | 5 ppm Ag; | 38 ppm Cd; | x | 1.00 m D.T. |
| 49.45 m - 61.22 m | 2.24%Zn; | 0.17%Pb; | 0.12%Cu; | 5 ppm Ag; | 72 ppm Cd; | x | 11.77 m D.T. |
| 118.30 m - 119.30 m | 1.05%Zn; | 0.05%Pb; | <0.01%Cu; | 1 ppm Ag; | 30 ppm Cd; | x | 1.00 m D.T. |

0.5% Zinc cut off

| | | | | | | | |
|---------------------|----------|----------|-----------|-----------|------------|---|--------------|
| 8.00 m - 15.72 m | 1.06%Zn; | 0.31%Pb; | 0.05%Cu; | 7 ppm Ag; | 54 ppm Cd; | x | 7.72 m D.T. |
| 29.42 m - 61.22 m | 1.08%Zn; | 0.30%Pb; | 0.11%Cu; | 5 ppm Ag; | 47 ppm Cd; | x | 31.80 m D.T. |
| 117.30 m - 119.30 m | 0.83%Zn; | 0.04%Pb; | <0.01%Cu; | 1 ppm Ag; | 25 ppm Cd; | x | 2.00 m D.T. |

4. CORE RECOVERY

| | |
|---------------------|------------------|
| | <u>Overall</u> |
| metres drilled | 4.00 to 249.30 m |
| metres recovered | 245.72 m |
| percentage recovery | 100.17 % |

NB: No gold assays reported.

5. WATER TABLE

Not recorded. - lost water.

6. CASING LEFT IN HOLE

None.

073

75-1095
vol 6/7

524074

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG CP 14

CONFIDENTIAL

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:
PINNACLES SK-55/3 PMG 1600S 1700W

COMMODITY/IES: Cu, Pb, Zn.

TEXT PAGES NO:
PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: R.N. Smith

DATE: April 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

074

524075

APPENDIX 1.

Page 1

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

LOREHOLE No. CP 14

TYPE D.D.H.

CO-ORDINATES 1600S 1700W

INCLINATION 45°

DIRECTION 270° (mag)

DATE START 5.4.1975

DATE FINISH 11.4.1975

LOGGED BY R.N. Smith

DRILL CO. LONGYEAR

FINAL DEPTH 245.25 m

N.W.P.S.

| DEPTH | | DRILLED METRES | REC. METRES | SAMPLE INT. | SAMPLE NO. CHTP | DESCRIPTION | ASSAY RESULTS | | | | | | |
|----------------------------|-------|----------------|-------------|-------------|--------------------|--|---------------|------|------|------|------|----|-------|
| FROM | TO | | | | | | Cu | Pb | Zn | Ba | Hg | Ag | Au |
| 0.00 | 7.10 | 7.10 | | | T2723 | Glacial overburden. 0.00 m to 11.00 m. | 2 | 50 | 690 | 130 | | <1 | <0.05 |
| 7.10 | 14.20 | 7.10 | | | T2724 | 11.00 m to 54.26 m Fine light grey-green vitric-crystal tuff and vitric | 2 | 90 | 1100 | 120 | | " | " |
| 14.20 | 17.20 | 3.00 | | | T2725 | tuff with varying concentrations of white (2 mm size) feldspar crystals. | 2 | 92 | 380 | 65 | | " | " |
| 17.20 | 20.20 | 3.00 | | | T2726 | The rock is brecciated and infilled with chlorite between 20.3 m and | 2 | 42 | 410 | 55 | | " | " |
| 20.20 | 23.20 | 3.00 | | | T2727 | 21.00 m. Ironstaining has occurred down to 24 m. Traces of pyrite | 2 | 100 | 1000 | 60 | | " | " |
| 23.20 | 26.20 | 3.00 | | | T2728 | occur in disseminated form and on fracture surfaces. Occasional rounded | 2 | 60 | 200 | 65 | | " | " |
| 26.20 | 29.20 | 3.00 | | | T2729 | dark green fine fragments or discoloured patches (up to 2 cm across) are | 5 | 50 | 130 | 48 | | " | " |
| 29.20 | 32.20 | 3.00 | | | T2730 | present. | 2 | 15 | 140 | 40 | | " | " |
| 32.20 | 35.20 | 3.00 | | | T2731 | | 2 | 5 | 110 | 55 | | " | " |
| 35.20 | 38.20 | 3.00 | | | T2732 | | 2 | 18 | 110 | 75 | | " | " |
| 38.20 | 41.20 | 3.00 | | | T2733 | | 2 | 38 | 110 | 140 | | " | " |
| 41.20 | 44.20 | 3.00 | | | T2734 | | 2 | 30 | 110 | 110 | | " | " |
| 44.20 | 44.70 | 0.50 | | | T2735 | | 2 | 45 | 130 | 140 | | " | " |
| SPLIT CORE SAMPLES FOLLOW: | | | | | | | | | | | | | |
| 44.70 | 45.70 | 1.00 | 0.90 | 0.20 | T1232 | | 12 | 54 | 116 | 410 | 30 | - | - |
| 45.70 | 47.13 | 1.43 | 1.29 | 1.10 | T1233 | | 14 | 42 | 120 | 400 | 20 | | |
| 47.13 | 47.96 | 0.83 | 0.76 | | T1234 | | 12 | 50 | 240 | 750 | 35 | | |
| 47.96 | 49.26 | 1.30 | 1.26 | 0.70 | T1235 | | 12 | 50 | 110 | 750 | 20 | | |
| 49.26 | 50.26 | 1.00 | 0.97 | 0.30 | T1236 | | 10 | 34 | 180 | 600 | 15 | | |
| 50.26 | 51.26 | 1.00 | 0.98 | 0.80 | T1237 | | 14 | 38 | 180 | 650 | 15 | | |
| 51.26 | 52.26 | 1.00 | 1.00 | 0.80 | T1238 | | 32 | 90 | 1800 | 700 | 180 | | |
| 52.26 | 53.26 | 1.00 | 1.00 | 0.95 | T1239 | | 30 | 1400 | 9400 | 1050 | 1350 | | |
| 53.26 | 54.26 | 1.00 | 0.90 | 0.85 | T1240 | 54.26 m to 64.43 m Flesh coloured fine vitric and vitric-crystal | 86 | 260 | 8800 | 1050 | 1100 | | |
| 54.26 | 55.26 | 1.00 | 0.75 | 0.20 | T1241 | possibly equivalent. Crystals are altered and brown in colour. Traces | | | | | | | |
| 55.26 | 56.26 | 1.00 | 0.75 | 0.70 | T1242 | of disseminated pyrite. | 24 | 48 | 240 | 550 | 105 | | |
| 56.26 | 57.35 | 1.09 | 0.88 | 0.80 | T1243 | | 20 | 54 | 350 | 750 | 45 | | |
| 57.35 | 58.35 | 1.00 | 0.91 | 0.25 | T1244 | | 14 | 50 | 340 | 700 | 20 | | |
| 58.35 | 59.35 | 1.00 | 0.91 | 0.80 | T1245 | | 14 | 94 | 470 | 900 | 55 | | |
| 59.35 | 60.35 | 1.00 | 0.96 | 0.35 | T1246 | | 60 | 1400 | 6000 | 750 | 1250 | | |
| 60.35 | 61.35 | 1.00 | 1.03 | 0.70 | T1247 | | 30 | 530 | 2100 | 550 | 65 | | |
| 61.35 | 62.35 | 1.00 | 1.03 | 0.90 | T1248 | | 14 | 240 | 1700 | 650 | 35 | | |
| 62.35 | 63.35 | 1.00 | 1.04 | 1.00 | T1249 | This sample is extensively fractured and the fractures are infilled by a | 16 | 28 | 280 | 440 | 15 | | |
| | | | | | | fine black material. | | | | | | | |
| 63.35 | 64.43 | 1.08 | 1.13 | 1.05 | T1250 | The lower half of T1250 contains angular fragments of a fine dark grey | 18 | 80 | 480 | 450 | 50 | | |
| | | | | | | rock (up to 1 cm size) resembling chert. | | | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

LOREHOLE No. CP. 14

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

LOGGED BY

DRILL

FINAL DEPTH

N.W.P.S.

| DEPTH | | DRILLED METRES | REC. METRES | SAMPLE INT. | SAMPLE NO. | DESCRIPTION | Cu | Mo | ASSAY RESULTS | | | Ag | Au |
|----------------------------|--------|----------------|-------------|-------------|------------|--|----|-----|---------------|-----|----------|----|-------|
| FROM | TO | | | | | | | | Zn | Ba | Hg (ppb) | | |
| 64.43 | 65.43 | 1.00 | 1.05 | 1.05 | T1251 | 64.43 m to 81.81 m | 16 | 22 | 240 | 450 | 30 | - | - |
| 65.43 | 66.43 | 1.00 | 1.03 | 1.03 | T1252 | numerous angular fragments of pale yellow-white quartzose fragments (up | 18 | 26 | 330 | 420 | 20 | | |
| 66.43 | 67.43 | 1.00 | 1.00 | 1.00 | T1253 | to 1 cm across) and quartz crystals. Traces of disseminated pyrite are | 10 | 22 | 360 | 380 | 30 | | |
| 67.43 | 68.83 | 1.40 | 1.40 | 1.40 | T1254 | present. This rock may possibly be a xenolithic porphyritic lava of | 12 | 20 | 200 | 320 | 15 | | |
| 68.83 | 69.47 | 0.64 | 0.64 | 0.64 | T1255 | rhyolitic composition, though the contacts are gradational. | 22 | 36 | 240 | 350 | 20 | | |
| 69.47 | 70.47 | 1.00 | 1.01 | 0.60 | T1256 | | 16 | 52 | 106 | 290 | 15 | | |
| CORE CHIP SAMPLES FOLLOW | | | | | | | | | | | | | |
| 70.47 | 73.47 | 3.00 | | | T2736 | | 2 | 10 | 85 | 75 | | <1 | <0.05 |
| 73.47 | 76.47 | 3.00 | | | T2737 | | 2 | 10 | 100 | 80 | | " | " |
| 76.47 | 79.47 | 3.00 | | | T2738 | | 2 | 25 | 160 | 85 | | " | " |
| 79.47 | 82.81 | 3.34 | | | T2739 | 81.81 m to approx. 91.06 m Tan coloured coarse lithic-crystal tuff | 2 | 10 | 240 | 65 | | " | " |
| 82.81 | 85.81 | 3.00 | | | T2740 | containing numerous white-grey rounded quartz crystals (up to 6 mm across) | 10 | 8 | 250 | 95 | | " | " |
| 85.81 | 88.81 | 3.00 | | | T2741 | and angular fragments of fine grey chert? (possibly this 'chert' is | 2 | 25 | 260 | 140 | | " | " |
| 88.81 | 92.06 | 3.25 | | | T2742 | rhyolite or vitric tuff. A similar 'chert' at 164.96 m, sample T435, | 2 | 5 | 170 | 120 | | " | " |
| 92.06 | 95.06 | 3.00 | | | T2743 | has been described from the thin section since the core was logged as:- | <2 | 5 | 170 | 170 | | " | " |
| 95.06 | 98.06 | 3.00 | | | T2744 | silicified fractured lithic crystal tuff). Occasionally fine yellow, | 2 | 5 | 120 | 190 | | " | " |
| 98.06 | 101.06 | 3.00 | | | T2745 | rounded, 1 mm size feldspar crystals(?) are found in the groundmass in | <2 | 5 | 160 | 190 | | " | " |
| 101.06 | 104.06 | 3.00 | | | T2746 | great numbers. The rock is cut sporadically by carbonate veinlets at | 2 | 5 | 140 | 110 | | " | " |
| 104.06 | 107.06 | 3.00 | | | T2747 | random. Occasional traces of disseminated pyrite are present. | 2 | 5 | 90 | 100 | | " | " |
| 107.06 | 110.06 | 3.00 | | | T2748 | Approx. 91.06 m to 92.06 m Fine grey to pale yellow chert, vitric tuff | 12 | 15 | 200 | 160 | | " | " |
| 110.06 | 113.06 | 3.00 | | | T2749 | or rhyolite (refer to petrographic sample T435 at 164.96 m). Occasional | 5 | 8 | 200 | 160 | | " | " |
| 113.06 | 115.55 | 1.49 | | | T2750 | random carbonate veinlets are present. The contacts are gradational. | 2 | 5 | 140 | 80 | | " | " |
| 115.55 | 118.55 | 3.00 | | | T2751 | Approx. 92.06 m to 126.00 m Sequence of grey coarse crystal?-lithic | 2 | 5 | 110 | 95 | | " | " |
| 118.55 | 121.55 | 3.00 | | | T2752 | tuffs and lapilli tuffs containing numerous pale pink-white angular | 2 | 15 | 95 | 95 | | " | " |
| 121.55 | 124.00 | 2.45 | | | T2753 | cherty fragments (5 mm to 2 cm). The groundmass is fine grey and cherty | 2 | 15 | 110 | 120 | | " | " |
| SPLIT CORE SAMPLES FOLLOW: | | | | | | | | | | | | | |
| 124.00 | 125.00 | 1.00 | 1.04 | 1.04 | T1257 | | 8 | 28 | 92 | 300 | 15 | - | - |
| 125.00 | 126.00 | 1.00 | 1.04 | 1.00 | T1258 | | 22 | 48 | 200 | 310 | 35 | | |
| 126.00 | 127.21 | 1.21 | 1.23 | 0.40 | T1259 | 126.00 m to 127.7 m A breccia (or continuation of the/pyroclastics?) | 20 | 108 | 2100 | 500 | 390 | | |
| | | | | | | containing angular fragments of black shale and fine pale pink rhyolite | | | | | | | |
| | | | | | | or vitric tuff (up to agglomerate grade). Possibly an explosion breccia | | | | | | | |
| | | | | | | or agglomerate. | | | | | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

LOREHOLE No. CP 14

TYPE D.D.H.

CO-ORDINATES.....

INCLINATION.....

DIRECTION.....

DATE START.....

DATE FINISH.....

LOGGED BY.....

DRILL.....

FINAL DEPTH.....

N.W.P.S.

| DEPTH | | DRILLED METRES | REC. METRES | SAMPLE INT. | SAMPLE NO. | DESCRIPTION | ASSAY RESULTS | | | | | | |
|--------|--------|----------------|-------------|-------------|------------|---|---------------|-------|-------|-----|--------|----|----|
| FROM | TO | | | | | | Cu | Pb | Zn | Ba | Hg ppb | Ag | Au |
| 127.21 | 128.21 | 1.00 | 1.11 | 1.00 | T1260 | 127.7 m to 132.21 m Black carbonaceous mudstone cut by a stockwork of | 34 | 300 | 6800 | 600 | 1700 | - | - |
| 128.21 | 129.21 | 1.00 | 1.11 | 0.30 | T1261 | carbonate veinlets within which are traces of Pb-Zn mineralisation. The | 86 | 390 | 1.65% | 550 | 3000 | | |
| 129.21 | 130.21 | 1.00 | 1.08 | 0.80 | T1262 | lower contact is approximately of 50°-60° core angle. | 50 | 200 | 1.45% | 490 | 2400 | | |
| 130.21 | 131.21 | 1.00 | 0.83 | 0.80 | T1263 | | 92 | 380 | 1.30% | 600 | 2000 | | |
| 131.21 | 132.21 | 1.00 | 0.83 | 0.45 | T1264 | | 78 | 280 | 1.25% | 750 | 1900 | | |
| 132.21 | 133.21 | 1.00 | 0.84 | 0.65 | T1265 | 132.21 to 136.21 m Breccia of black mudstone and pale pink, yellow, | 32 | 96 | 6200 | 400 | 1000 | | |
| 133.21 | 134.21 | 1.00 | 1.08 | 1.05 | T1266 | white cherty fragments (up to 2 cm across). The matrix is black. | 24 | 60 | 2400 | 250 | 290 | | |
| 134.21 | 135.21 | 1.00 | 1.08 | 0.60 | T1267 | Occasional alignment of fragments occurs at 50° core angle. The fragments | 28 | 104 | 5200 | 310 | 930 | | |
| 135.21 | 136.21 | 1.00 | 1.08 | 0.95 | T1268 | are sometimes contorted. | 26 | 100 | 4600 | 400 | 1050 | | |
| 136.21 | 137.21 | 1.00 | 0.67 | 0.60 | T1269 | 136.21 m to 152.21 m Black carbonaceous mudstone cut by a stockwork of | 180 | 510 | 2.15% | 600 | 5500 | | |
| 137.21 | 138.21 | 1.00 | 0.67 | 0.67 | T1270 | carbonate veinlets. | 98 | 950 | 1.45% | 750 | 3800 | | |
| 138.21 | 139.21 | 1.00 | 0.67 | 0.50 | T1271 | | 150 | 460 | 1.25% | 550 | 4700 | | |
| 139.21 | 140.21 | 1.00 | 0.89 | 0.80 | T1272 | | 92 | 700 | 1.10% | 650 | 3500 | | |
| 140.21 | 141.21 | 1.00 | 0.90 | 0.85 | T1273 | | 76 | 360 | 1.20% | 370 | 3000 | | |
| 141.21 | 142.21 | 1.00 | 0.90 | 0.85 | T1274 | | 78 | 1000 | 8000 | 440 | 1800 | | |
| 142.21 | 143.21 | 1.00 | 1.06 | | T1275 | | 180 | 0.41% | 1.40% | 550 | 3900 | | |
| 143.21 | 144.21 | 1.00 | 1.08 | 0.40 | T1276 | | 190 | 1.25% | 9800 | 550 | 1600 | | |
| 144.21 | 145.21 | 1.00 | 1.08 | 0.85 | T1277 | | 102 | 1900 | 1.30% | 700 | 4200 | | |
| 145.21 | 146.21 | 1.00 | 1.04 | 1.04 | T1278 | | 76 | 1100 | 1.00% | 540 | 2800 | | |
| 146.21 | 147.21 | 1.00 | 1.04 | 1.04 | T1279 | | 88 | 300 | 1.35% | 700 | 3600 | | |
| 147.21 | 148.21 | 1.00 | 1.04 | 1.04 | T1280 | | 74 | 300 | 8200 | 600 | 2000 | | |
| 148.21 | 149.21 | 1.00 | 1.03 | | T1281 | | 40 | 210 | 4600 | 530 | 1100 | | |
| 149.21 | 150.21 | 1.00 | 1.02 | 1.00 | T1282 | | 76 | 510 | 0.96% | 700 | 2700 | | |
| 150.21 | 151.21 | 1.00 | 1.02 | 1.02 | T1283 | | 20 | 570 | 660 | 470 | 175 | | |
| 151.21 | 152.21 | 1.00 | 1.01 | 1.01 | T1284 | | 42 | 500 | 3100 | 800 | 1000 | | |
| 152.21 | 153.21 | 1.00 | 1.01 | 1.01 | T1285 | 152.21 m to, 158.7 m Brecciated black carbonaceous mudstone with some | 100 | 1700 | 1.15% | 850 | 4200 | | |
| 153.21 | 154.21 | 1.00 | 1.01 | 1.01 | T1286 | minor grey-white cherty angular fragments also present. The rock is cut | 160 | 360 | 1.35% | 700 | 4400 | | |
| 154.21 | 155.21 | 1.00 | 1.01 | 1.00 | T1287 | at random by quartz-carbonate veins sometimes forming local stockworks. | 84 | 240 | 9600 | 750 | 3600 | | |
| 155.21 | 156.21 | 1.00 | 1.01 | 1.01 | T1288 | | 92 | 340 | 1.00% | 800 | 3700 | | |
| 156.21 | 157.21 | 1.00 | 1.01 | 1.01 | T1289 | | 82 | 400 | 1.05% | 650 | 3600 | | |
| 157.21 | 158.21 | 1.00 | 1.03 | 1.00 | T1290 | | 86 | 210 | 0.90% | 700 | 3600 | | |
| 158.21 | 159.21 | 1.00 | 1.05 | 1.02 | T1291 | | 32 | 108 | 3300 | 600 | 1200 | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: _____

BOREHOLE No. CP 14

TYPE D.D.H.

CO-ORDINATES _____

INCLINATION _____

DIRECTION _____

DATE START _____

DATE FINISH _____

LOGGED BY _____

DRILL _____

FINAL DEPTH _____

N.W.P.S.

| DEPTH | | DRILLED METRES | REC. METRES | SAMPLE INT. | SAMPLE NO. | DESCRIPTION | ASSAY RESULTS | | | | | | | |
|--------|--------|----------------|-------------|-------------|------------|---|---------------|-----|------|-----|--------|----|----|--|
| FROM | TO | | | | | | Cu | Pb | Zn | Ba | Hg ppb | Ag | Au | |
| | | | | | | 158.7 m to 160.00 m Breccia of white cherty fragments in a black contorted matrix of carbonaceous mudstone. Some of the fragments are shattered into aggregates of interlocking chips. The fragments are up to 4 cm long and are equant to elongate. | | | | | | | | |
| 159.21 | 160.21 | 1.00 | 1.05 | 0.60 | T1292 | The rock is cut by a 1 cm wide fine grey rhyolite (?) vein subparallel to the core axis containing tiny angular chips of black mudstone (this vein seems to intrude down the same fissure as a carbonate vein.) | 22 | 104 | 1800 | 650 | 580 | - | - | |
| 160.21 | 161.21 | 1.00 | 1.02 | 1.00 | T1293 | 160.88 m to 161.49 m Breccia of closely spaced white cherty fragments up to 2 cm long and cut by a set of numerous hairline shears pervading the rock at 80-90° to the core axis. The matrix is light grey and probably consists of more finely fragmented chert. | 28 | 68 | 2300 | 510 | 760 | | | |
| 161.21 | 161.49 | 0.28 | 0.28 | 0.27 | T1294 | | 20 | 36 | 430 | 400 | 210 | | | |
| 161.49 | 162.49 | 1.00 | 1.00 | 0.95 | T1295 | 161.49 m to 163.49 m Black carbonaceous mudstone cut by a stockwork of quartz-carbonate veinlets. The upper contact is irregular (angular) and breccia fragments from the breccia above are present in the mudstone for the first 10 cm. The lower 20 cm of the unit is a breccia of black mudstone and white cherty fragments (up to 2 cm in size) with traces of Pb-Zn as fine disseminated pods. | 50 | 230 | 5600 | 650 | 1700 | | | |
| 162.49 | 163.49 | 1.00 | 1.00 | 1.00 | T1296 | | 84 | 220 | 8700 | 600 | 2300 | | | |
| 163.49 | 163.94 | 0.45 | 0.47 | 0.47 | T1297 | 163.49 to 164.94 m Pale pink-white chert which is fractured and slightly brecciated. Sample T435 from 164.96 m has since been described by C.M.S. as: Silicified fractured lithic-crystal tuff. | 30 | 40 | 240 | 460 | 95 | | | |
| 163.94 | 164.94 | 1.00 | 1.07 | 1.07 | T1298 | | 34 | 36 | 88 | 350 | 75 | | | |
| 164.94 | 165.94 | 1.00 | 1.07 | 1.05 | T1299 | 164.94 m to 167.71 m Breccia of pale pink-white cherty fragments in a light grey groundmass. The fragments are angular, elongate, aligned at 80-90° to the core axis and 1-4 cm long. | 32 | 170 | 900 | 530 | 360 | | | |
| 165.94 | 166.94 | 1.00 | 1.07 | 1.00 | T1300 | | 20 | 52 | 500 | 600 | 270 | | | |
| 166.94 | 167.71 | 0.77 | 0.82 | 0.70 | T1301 | | 16 | 38 | 210 | 600 | 125 | | | |
| 167.71 | 168.71 | 1.00 | 1.07 | 0.75 | T1302 | 167.71 m to 169.92 m Breccia of pale pink to white cherty fragments in a light grey groundmass. Fragments generally 1 cm size. A band of fine grey rhyolite containing numerous angular chips of black mudstone (1-10 mm) cuts the rock (20° core angle) at 168 m. | 20 | 36 | 300 | 600 | 155 | | | |
| 168.71 | 169.92 | 1.21 | 1.29 | 1.20 | T1303 | | 24 | 76 | 490 | 400 | 200 | | | |
| 169.92 | 171.11 | 1.19 | 1.27 | 0.70 | T1304 | Breccia of angular white cherty fragments (up to 4 cm) set within contorted black mudstone. | 30 | 84 | 3000 | 480 | 1100 | | | |
| 171.11 | 171.90 | 0.79 | 0.85 | 0.60 | T1305 | Pale white/grey chert? cut by carbonate veins sporadically (at 40° to the core axis) and sometimes forming stockwork. | 22 | 34 | 46 | 310 | 60 | | | |
| 171.90 | 172.90 | 1.00 | 1.04 | 0.90 | T1306 | 171.90 m to 180.50 m Breccia of black mudstone and pale pink-white cherty fragments (up to 6 cm) set within black mudstone matrix cut at random by sporadic carbonate veinlets. | 52 | 230 | 4800 | 420 | 1200 | | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: EL 5/63 PINNACLES METRIC GRID

LOREHOLE No. CP 14

TYPE D.D.H.

CO-ORDINATES.....

INCLINATION.....

DIRECTION.....

DATE START.....

DATE FINISH.....

LOGGED BY.....

DRILL.....

FINAL DEPTH.....

N.W.P.S.

| DEPTH | | DRILLED METRES | REC. METRES | SAMPLE INT. | SAMPLE NO. | DESCRIPTION | ASSAY RESULTS | | | | | | |
|--------|--------|----------------|-------------|-------------|------------|--|---------------|-----|------|------|--------|----|----|
| FROM | TO | | | | | | Cu | Pb | Zn | Ba | Hg ppb | Ag | Au |
| 172.90 | 173.90 | 1.00 | 0.84 | 0.70 | T1307 | 171.90 m to 180.50 m Breccia of black mudstone and pale pink-white | 44 | 96 | 8400 | 430 | 1900 | - | - |
| 173.90 | 174.90 | 1.00 | 0.84 | 0.83 | T1308 | cherty fragments (up to 6 cm) set within black mudstone matrix cut at | 42 | 44 | 700 | 400 | 160 | | |
| 174.90 | 175.90 | 1.00 | 0.84 | 0.84 | T1309 | random by sporadic carbonate veinlets. Between 176.23 m and 178.16 m the | 22 | 26 | 260 | 550 | 110 | | |
| 175.90 | 177.16 | 1.26 | 1.26 | 1.26 | T1310 | rock is black mudstone cut by stockwork with few fragments of chert. | 46 | 104 | 7000 | 600 | 1800 | | |
| 177.16 | 178.16 | 1.00 | 1.00 | 1.00 | T1311 | | 40 | 96 | 5400 | 550 | 1250 | | |
| 178.16 | 179.16 | 1.00 | 1.01 | 1.01 | T1312 | | 38 | 84 | 5000 | 600 | 1350 | | |
| 179.16 | 179.94 | 0.78 | 0.81 | 0.75 | T1313 | | 20 | 76 | 1020 | 490 | 490 | | |
| 179.94 | 180.94 | 1.00 | 1.04 | 0.95 | T1314 | 180.50 m to 196.94 m Pale green or grey cherty rock. Fissured at | 22 | 74 | 640 | 350 | 310 | | |
| 180.94 | 181.94 | 1.00 | 1.04 | 0.50 | T1315 | random, sheared over full range of core angles (0-90°). Some carbonate | 28 | 34 | 76 | 280 | 50 | | |
| 181.94 | 182.94 | 1.00 | 0.99 | 0.35 | T1316 | along fissures. Lower contact is sheared at 50° core angle. | 18 | 58 | 120 | 410 | 60 | | |
| 182.94 | 183.94 | 1.00 | 0.25 | 0.99 | T1317 | | 38 | 58 | 64 | 200 | 60 | | |
| 183.94 | 184.94 | 1.00 | 0.99 | 0.70 | T1318 | | 42 | 36 | 20 | 120 | 45 | | |
| 184.94 | 185.94 | 1.00 | 1.02 | 0.40 | T1319 | | 28 | 80 | 46 | 240 | 35 | | |
| 185.94 | 186.94 | 1.00 | 1.02 | 0.50 | T1320 | | 24 | 44 | 24 | 270 | 60 | | |
| 186.94 | 187.94 | 1.00 | 1.02 | 0.45 | T1321 | | 42 | 20 | 14 | 160 | 35 | | |
| 187.94 | 188.94 | 1.00 | 0.85 | 0.75 | T1322 | | 24 | 36 | 28 | 460 | 50 | | |
| 188.94 | 189.94 | 1.00 | 0.83 | 0.83 | T1323 | | 28 | 30 | 64 | 410 | 60 | | |
| 189.94 | 190.94 | 1.00 | 0.83 | 0.75 | T1324 | | 28 | 36 | 56 | 320 | 45 | | |
| 190.94 | 191.94 | 1.00 | 0.93 | 0.65 | T1325 | | 20 | 32 | 52 | 400 | 45 | | |
| 191.94 | 192.94 | 1.00 | 0.95 | 0.90 | T1326 | | 22 | 32 | 120 | 650 | 90 | | |
| 192.94 | 193.94 | 1.00 | 0.95 | 0.95 | T1327 | | 28 | 48 | 60 | 490 | 70 | | |
| 193.94 | 194.94 | 1.00 | 1.00 | 0.95 | T1328 | | 26 | 84 | 36 | 400 | 70 | | |
| 194.94 | 195.94 | 1.00 | 1.01 | 0.85 | T1329 | | 24 | 38 | 40 | 480 | 45 | | |
| 195.94 | 196.94 | 1.00 | 1.01 | 0.95 | T1330 | | 30 | 180 | 250 | 490 | 220 | | |
| 196.94 | 197.94 | 1.00 | 0.59 | 0.25 | T1331 | 196.94 m to 200.25 m Sheared shale and mylonite? with fragments of | 26 | 300 | 350 | 510 | 400 | | |
| 197.94 | 198.94 | 1.00 | 0.45 | 0.15 | T1332 | cherty rock. Shearing at approx. 50-60° core angle. | 20 | 300 | 250 | 330 | 360 | | |
| 198.94 | 200.25 | 1.31 | | 0.00 | T1333 | | 10 | 70 | 38 | 330 | 320 | | |
| 200.25 | 201.25 | 1.00 | 1.00 | 1.00 | T1334 | 200.25 m to 202.25 m Sheared (50-60° core angle) contorted black shale | 28 | 470 | 940 | 430 | 1250 | | |
| 201.25 | 202.25 | 1.00 | 1.00 | 1.00 | T1335 | cut by carbonate veinlet stockwork. | 14 | 410 | 1020 | 1750 | 850 | | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRDLOREHOLE No. CP 14TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE
STARTDATE
FINISH

LOGGED BY

DRILL

FINAL DEPTH

N.W.P.S.

| DEPTH | | DRILLED METRES | REC. METRES | SAMPLE INT. | SAMPLE NO. | DESCRIPTION | ASSAY RESULTS | | | | | | |
|--------|--------|-------------------|----------------|----------------|---------------|--|---------------|-----|-----|------|--------|----|----|
| FROM | TO | | | | | | Cu | Pb | Zn | Ba | Hg ppb | Ag | Au |
| 202.25 | 203.25 | 1.00 | 1.00 | 1.00 | T1336 | 202.25 m to 214.33 m Breccia of black carbonaceous mudstone, fine grey, white, pale green or pink chert (some or all may be myolite etc). | 14 | 86 | 140 | 1150 | 370 | - | - |
| 203.25 | 204.25 | 1.00 | 1.06 | 1.06 | T1337 | | 16 | 90 | 200 | 1300 | 280 | | |
| 204.25 | 205.25 | 1.00 | 1.06 | 1.00 | T1338 | Sheared at 50-90° core angle. Veined sporadically by random quartz-carbonate, sometimes forming a stockwork. Trace of pyrite as stringers. | 12 | 90 | 310 | 1000 | 330 | | |
| 205.25 | 206.25 | 1.00 | 1.06 | 1.00 | T1339 | | 12 | 260 | 300 | 400 | 690 | | |
| 206.25 | 207.25 | 1.00 | 1.03 | 1.03 | T1340 | | 12 | 110 | 160 | 600 | 300 | | |
| 207.25 | 208.25 | 1.00 | 1.03 | 1.03 | T1341 | | 10 | 82 | 180 | 470 | 310 | | |
| 208.25 | 209.53 | 1.28 | 1.32 | 1.30 | T1342 | | 12 | 260 | 620 | 500 | 1600 | | |
| 209.53 | 210.53 | 1.00 | 1.02 | 1.02 | T1343 | | 10 | 340 | 350 | 650 | 440 | | |
| 210.53 | 211.53 | 1.00 | 1.02 | 1.00 | T1344 | | 12 | 370 | 290 | 460 | 550 | | |
| 211.53 | 212.53 | 1.00 | 1.02 | 1.00 | T1345 | | 12 | 390 | 400 | 400 | 1200 | | |
| 212.53 | 213.53 | 1.00 | 0.97 | 0.95 | T1346 | | 14 | 330 | 880 | 410 | 1400 | | |
| 213.53 | 214.53 | 1.00 | 0.97 | 0.90 | T1347 | | 22 | 100 | 430 | 550 | 370 | | |
| 214.53 | 215.53 | 1.00 | 0.97 | 0.40 | T1348 | 214.33 m to 245.25 m Shales consisting of alternating laminae and bands of black and grey colouration. Bedding core angles = 40-70°. | 38 | 92 | 270 | 420 | 360 | | |
| 215.53 | 216.53 | 1.00 | 0.97 | 0.80 | T1349 | | 24 | 46 | 42 | 290 | 100 | | |
| 216.53 | 217.53 | 1.00 | 1.13 | 0.75 | T1350 | Frequent zones of contortion, shearing and slight brecciation. | 30 | 50 | 44 | 380 | 115 | | |
| 217.53 | 218.53 | 1.00 | 1.31 | 1.20 | T1351 | Occasional veins of quartz-carbonate along bedding, on irregular infillings in zones of contortion and sometimes co-incident with shears. | 28 | 66 | 90 | 400 | 165 | | |
| 218.53 | 219.53 | 1.00 | 1.08 | 0.85 | T1352 | | 50 | 70 | 130 | 460 | 180 | | |
| 219.53 | 220.53 | 1.00 | 1.13 | 1.05 | T1353 | | 62 | 190 | 250 | 550 | 270 | | |
| 220.53 | 221.53 | 1.00 | 1.12 | 1.10 | T1354 | | 30 | 42 | 68 | 440 | 125 | | |
| 221.53 | 222.53 | 1.00 | 0.99 | 0.98 | T1355 | | 44 | 42 | 200 | 550 | 195 | | |
| 222.53 | 223.53 | 1.00 | 0.98 | 0.98 | T1356 | | 22 | 28 | 34 | 480 | 90 | | |
| 223.53 | 224.53 | 1.00 | 0.98 | 0.98 | T1357 | | 24 | 24 | 38 | 340 | 100 | | |
| 224.53 | 225.53 | 1.00 | 1.00 | | T1358 | | 26 | 30 | 36 | 470 | 75 | | |
| 225.53 | 226.53 | 1.00 | 1.00 | 1.00 | T1359 | | 24 | 28 | 40 | 320 | 70 | | |
| 226.53 | 227.53 | 1.00 | 1.00 | 1.00 | T1360 | | 34 | 58 | 54 | 340 | 100 | | |
| 227.53 | 228.53 | 1.00 | 1.02 | 0.65 | T1361 | | 34 | 116 | 80 | 510 | 120 | | |
| 228.53 | 229.53 | 1.00 | 1.03 | 0.90 | T1362 | | 26 | 200 | 120 | 480 | 160 | | |
| 229.53 | 230.53 | 1.00 | 1.03 | 0.90 | T1363 | | 22 | 26 | 32 | 280 | 65 | | |
| 230.53 | 231.53 | 1.00 | 1.03 | 1.00 | T1364 | | 46 | 76 | 72 | 330 | 75 | | |
| 231.53 | 232.53 | 1.00 | 1.03 | 1.00 | T1365 | | 24 | 22 | 36 | 430 | 60 | | |
| 232.53 | 233.53 | 1.00 | 1.03 | 1.00 | T1366 | | 68 | 56 | 200 | 350 | 105 | | |
| 233.53 | 234.53 | 1.00 | 1.04 | 1.00 | T1367 | | 44 | 140 | 72 | 310 | 75 | | |

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SUMMARY SHEETCP 141. INDICATED VALUES OF ORE1% Zinc cut off

| | | | | |
|----------------------|----------|----------|----------|---------------|
| 128.21 m to 132.21 m | 1.41% Zn | 0.03% Pb | 0.01% Cu | x 4.0 m D.T. |
| 136.21 m to 147.21 m | 1.27% Zn | 0.22% Pb | 0.01% Cu | x 11.0 m D.T. |
| 152.21 m to 157.21 m | 1.10% Zn | 0.06% Pb | 0.01% Cu | x 5.0 m D.T. |

0.5% Zinc cut off

| | | | | |
|----------------------|----------|----------|----------|---------------|
| 52.26 m to 55.26 m | 0.91% Zn | 0.08% Pb | 0.01% Cu | x 2.0 m D.T. |
| 127.21 m to 158.21 m | 1.01% Zn | 0.10% Pb | 0.01% Cu | x 31.0 m D.T. |
| 161.49 m to 163.49 m | 0.72% Zn | 0.02% Pb | 0.01% Cu | x 2.0 m D.T. |
| 175.90 m to 179.16 m | 0.59% Zn | 0.01% Pb | 0.01% Cu | x 3.26m D.T. |

2. CASING LEFT IN HOLE

6 m x BW casing.

NB: No Ag over 1ppm.
No Au over 0.05 ppm.

083

524084 75-1095

fol 7/7.

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG CP 15

OPEN FILE

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:

PINNACLES SK-55/3 PMG 24.0S 16.62W

COMMODITY/IES:

Cu, Pb, Zn.

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S:

R.N. Smith

DATE:

April 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

084

524085

APPENDIX 1.

Page 1

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRIDBOREHOLE No. CP 15TYPE D.D.H.CO-ORDINATES PMG 24.0S 16.62WINCLINATION 60°DIRECTION 270° (mag)DATE START 12.4.75DATE FINISH 17.4.75

DRILLER

COMPANY LONGYEARFINAL DEPTH 151.5 m

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | Whole core metres | SAMPLE NO. AND DEPTH metres | DESCRIPTION | ASSAY RESULTS | | | | | | |
|-----------|--------------|----------------|------------------|-------------------|-----------------------------|--|---------------|--|--|--|--|--|--|
| <u>NQ</u> | <u>0.00</u> | | | | | | | | | | | | |
| | <u>to</u> | | | | | | | | | | | | |
| | <u>1.00</u> | <u>1.00</u> | <u>0.59</u> | <u>0.10</u> | <u>T3126</u> | <u>0.00 m to 39.90 m</u> | | | | | | | |
| | <u>2.00</u> | <u>1.00</u> | <u>0.59</u> | <u>0.35</u> | <u>T3127</u> | <u>Fine pale green, locally sheared, sericitised tuff contain-</u> | | | | | | | |
| | <u>3.00</u> | <u>1.00</u> | <u>0.59</u> | <u>0.10</u> | <u>T3128</u> | <u>ing rare traces of fine disseminated pyrite. Shears have</u> | | | | | | | |
| | <u>4.00</u> | <u>1.00</u> | <u>0.54</u> | <u>0.11</u> | <u>T3129</u> | <u>core angles of 30° and have produced localised bands of</u> | | | | | | | |
| | <u>5.00</u> | <u>1.00</u> | <u>0.54</u> | <u>0.22</u> | <u>T3130</u> | <u>sericite schist which are more chloritised than the remain-</u> | | | | | | | |
| | <u>6.00</u> | <u>1.00</u> | <u>0.64</u> | <u>0.10</u> | <u>T3131</u> | <u>ing rock. Occasional traces of sphalerite and galena</u> | | | | | | | |
| | <u>7.00</u> | <u>1.00</u> | <u>1.20</u> | <u>0.78</u> | <u>T3132</u> | <u>occur in sporadic quartz veins (core angles 30 - 50°)</u> | | | | | | | |
| | <u>8.00</u> | <u>1.00</u> | <u>1.20</u> | <u>0.70</u> | <u>T3133</u> | <u>From 30.00 m to the lower contact of this lithology the drill</u> | | | | | | | |
| | <u>9.00</u> | <u>1.00</u> | <u>0.98</u> | <u>0.55</u> | <u>T3134</u> | <u>core has become stained a light brown colour (due to the</u> | | | | | | | |
| | <u>10.00</u> | <u>1.00</u> | <u>0.95</u> | <u>0.80</u> | <u>T3135</u> | <u>formation of iron oxides?) where it has been exposed to the</u> | | | | | | | |
| | <u>11.00</u> | <u>1.00</u> | <u>0.95</u> | <u>0.76</u> | <u>T3136</u> | <u>air.</u> | | | | | | | |
| | <u>12.00</u> | <u>1.00</u> | <u>1.00</u> | <u>0.45</u> | <u>T3137</u> | | | | | | | | |
| | <u>13.00</u> | <u>1.00</u> | <u>1.01</u> | <u>0.60</u> | <u>T3138</u> | | | | | | | | |
| | <u>14.00</u> | <u>1.00</u> | <u>1.01</u> | <u>0.63</u> | <u>T3139</u> | | | | | | | | |
| | <u>15.00</u> | <u>1.00</u> | <u>1.02</u> | <u>0.40</u> | <u>T3140</u> | | | | | | | | |
| | <u>16.00</u> | <u>1.00</u> | <u>1.02</u> | <u>0.74</u> | <u>T3141</u> | | | | | | | | |
| | <u>17.00</u> | <u>1.00</u> | <u>1.02</u> | <u>0.84</u> | <u>T3142</u> | | | | | | | | |
| | <u>18.00</u> | <u>1.00</u> | <u>1.03</u> | <u>1.00</u> | <u>T3143</u> | | | | | | | | |
| | <u>19.00</u> | <u>1.00</u> | <u>1.03</u> | <u>0.88</u> | <u>T3144</u> | | | | | | | | |
| | <u>20.00</u> | <u>1.00</u> | <u>1.03</u> | <u>0.90</u> | <u>T3145</u> | | | | | | | | |
| | <u>21.00</u> | <u>1.00</u> | <u>0.83</u> | <u>0.60</u> | <u>T3146</u> | | | | | | | | |
| | <u>22.00</u> | <u>1.00</u> | <u>0.74</u> | <u>0.70</u> | <u>T3147</u> | | | | | | | | |
| | <u>23.00</u> | <u>1.00</u> | <u>0.74</u> | <u>0.61</u> | <u>T3148</u> | | | | | | | | |
| | <u>24.00</u> | <u>1.00</u> | <u>0.86</u> | <u>0.37</u> | <u>T3149</u> | | | | | | | | |
| | <u>25.00</u> | <u>1.00</u> | <u>0.93</u> | <u>0.30</u> | <u>T3150</u> | | | | | | | | |
| | <u>26.00</u> | <u>1.00</u> | <u>0.93</u> | <u>0.65</u> | <u>T3151</u> | | | | | | | | |
| | <u>27.00</u> | <u>1.00</u> | <u>0.99</u> | <u>0.50</u> | <u>T3152</u> | | | | | | | | |
| | <u>28.00</u> | <u>1.00</u> | <u>1.03</u> | <u>0.30</u> | <u>T3153</u> | | | | | | | | |
| | <u>29.00</u> | <u>1.00</u> | <u>1.03</u> | <u>0.55</u> | <u>T3154</u> | | | | | | | | |
| | <u>30.00</u> | <u>1.00</u> | <u>0.99</u> | <u>0.64</u> | <u>T3155</u> | | | | | | | | |
| | <u>31.00</u> | <u>1.00</u> | <u>0.97</u> | <u>0.90</u> | <u>T3156</u> | | | | | | | | |
| | <u>32.00</u> | <u>1.00</u> | <u>0.97</u> | <u>0.75</u> | <u>T3157</u> | | | | | | | | |
| | <u>33.00</u> | <u>1.00</u> | <u>1.03</u> | <u>1.00</u> | <u>T3158</u> | <u>Contains approximately 1% visible brown sphalerite as pds</u> | | | | | | | |
| | | | | | | <u>and veins with carbonate (core angle = 53°)</u> | | | | | | | |

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 15

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | | |
|-----------|----------|----------------|------------------|----------------------|--|---------------|--|--|--|--|
| NQ | 33.00 to | | | | | | | | | |
| | 34.00 | 1.00 | 1.08 | 1.08 T3159 | | | | | | |
| | 35.00 | 1.00 | 1.08 | 1.00 T3160 | Rock has been locally brecciated and infilled by carbonate. | | | | | |
| | 36.00 | 1.00 | 1.00 | 0.60 T3161 | As above. | | | | | |
| | 37.00 | 1.00 | 0.92 | 0.90 T3162 | Brown stained pale green sericitised sheared tuff. As above. | | | | | |
| | 38.00 | 1.00 | 0.92 | 0.85 T3163 | As above. | | | | | |
| | 39.00 | 1.00 | 0.96 | 0.90 T3164 | As above. | | | | | |
| | | | | | 39.90 m to 91.29 m | | | | | |
| | | | | | Grey black banded shale sheared at core angles of 50-60°. | | | | | |
| | | | | | The upper contact is irregular, not planar. T3167 contains 1/2 to 1% ZnS as pods (up to 1 cm size) in carbonate veins and infillings. Contorted inclusions of the brown stained tuff up to 10 cm across (as intersected above the shale) are present in the shale. T3170 contains approximately 1/2% ZnS associated with carbonate veins (60° core angle). A band of carbonate-infilled brown-stained tuff containing traces of ZnS occurs from 44.36m to 45.22 m. Another band of brown-stained tuff occurs from 47.00 m to 48.30 m and is sheared at 65° core angle and locally brecciated minor bands of the tuff up to 20 cm wide are occasionally present | | | | | |
| | 39.90 | 0.90 | 0.92 | 0.90 T3165 | | | | | | |
| | 40.00 | 0.10 | 0.10 | 0.10 T3166 | | | | | | |
| | 41.00 | 1.00 | 1.02 | 0.70 T3167 | | | | | | |
| | 42.00 | 1.00 | 1.02 | 0.60 T3168 | | | | | | |
| | 43.00 | 1.00 | 1.02 | 0.55 T3169 | | | | | | |
| | 44.00 | 1.00 | 1.02 | 0.90 T3170 | | | | | | |
| | 44.36 | 0.36 | 0.37 | 0.13 T3171 | | | | | | |
| | 44.70 | 0.34 | 0.35 | 0.30 T3172 | | | | | | |
| | 45.22 | 0.52 | 0.55 | 0.26 T3173 | | | | | | |
| | 46.00 | 0.78 | 0.83 | 0.50 T3174 | | | | | | |
| | 47.00 | 1.00 | 1.06 | 0.40 T3175 | | | | | | |
| | 47.75 | 0.75 | 0.80 | 0.63 T3176 | | | | | | |
| | 48.30 | 0.55 | 0.57 | 0.27 T3177 | | | | | | |
| | 49.00 | 0.70 | 0.73 | 0.56 T3178 | | | | | | |

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 15

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS |
|--------------|-------|----------------|------------------|----------------------|---|---------------|
| NQ | 49.00 | | | | | |
| | 50.00 | 1.00 | 1.04 | 0.70 T3179 | | |
| | 51.00 | 1.00 | 1.03 | 0.80 T3180 | | |
| | 52.00 | 1.00 | 1.00 | 0.50 T3181 | | |
| | 53.00 | 1.00 | 1.00 | 0.42 T3182 | | |
| | 54.00 | 1.00 | 0.98 | 0.80 T3183 | | |
| | 55.00 | 1.00 | 0.87 | 0.44 T3184 | | |
| | 56.00 | 1.00 | 0.87 | 0.50 T3185 | | |
| | 57.00 | 1.00 | 0.88 | 0.24 T3186 | | |
| | 58.00 | 1.00 | 0.99 | 0.50 T3187 | | |
| | 59.00 | 1.00 | 0.99 | 0.70 T3188 | The shale is sheared (at 65° core angle). Carbonate veins follow the shearing. The shale is contorted to varying degrees throughout. | |
| | 60.00 | 1.00 | 0.97 | 0.90 T3189 | | |
| | 61.00 | 1.00 | 0.63 | 0.50 T3190 | | |
| | 62.00 | 1.00 | 0.63 | 0.60 T3191 | Contained approximately 2% ZnS in a 3 cm wide quartz-carbonate vein. | |
| | 63.00 | 1.00 | 0.63 | 0.50 T3192 | | |
| | 64.00 | 1.00 | 0.63 | 0.63 T3193 | | |
| | 65.00 | 1.00 | 1.21 | 1.21 T3194 | Bedding core angle = 80°. Contains approximately 2% ZnS in a carbonate vein (50° core angle) | |
| | 66.00 | 1.00 | 1.21 | 1.15 T3195 | | |
| | 67.00 | 1.00 | 1.21 | 1.15 T3196 | Grey chert. Contains some carbonaceous shale. | |
| | 68.00 | 1.00 | 1.07 | 0.95 T3197 | Grey chert. | |
| | 69.00 | 1.00 | 1.06 | 1.00 T3198 | Grey chert. | |
| | 70.00 | 1.00 | 1.06 | 1.06 T3199 | Contorted grey black banded shale with sporadic random carbonate veinlets as above. | |
| | 71.00 | 1.00 | 1.04 | 1.00 T3200 | The bedding of the shale, where it is relatively uncontorted has a 65° core angle. Interbedded bands of fine pale grey tuff up to 4 cm wide occur sporadically. | |
| | 72.00 | 1.00 | 1.03 | 1.03 T3201 | | |
| | 73.00 | 1.00 | 1.03 | 1.03 T3202 | | |
| NQ/BQ(74.41) | 74.00 | 1.00 | 0.93 | 0.90 T3203 | Bedding core angle at 73.4 m is 60° where not contorted. | |
| BQ | 75.00 | 1.00 | 0.90 | 0.88 T3204 | Bedding core angle at 75.2 m is 50° where not contorted. | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 15

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | |
|-----------|----------------|----------------|------------------|----------------------|--|---------------|--|--|--|
| BQ | 75.00 to 76.00 | 1.00 | 0.90 | 0.88 T3205 | Grey-black banded shale as above. | | | | |
| | 77.00 | 1.00 | 0.98 | 0.89 T3206 | As above. | | | | |
| | 78.00 | 1.00 | 1.00 | 0.95 T3207 | As above. | | | | |
| | 79.00 | 1.00 | 1.00 | 1.00 T3208 | As above. | | | | |
| | 80.00 | 1.00 | 0.97 | 0.90 T3209 | As above. | | | | |
| | 81.00 | 1.00 | 0.96 | 0.96 T3210 | As above. | | | | |
| | 82.00 | 1.00 | 0.96 | 0.96 T3211 | As above. | | | | |
| | 83.00 | 1.00 | 0.99 | 0.99 T3212 | As above. | | | | |
| | 84.00 | 1.00 | 1.00 | 0.90 T3213 | As above. | | | | |
| | 85.00 | 1.00 | 1.00 | 1.00 T3214 | As above. | | | | |
| | 86.00 | 1.00 | 1.01 | 1.01 T3215 | As above. | | | | |
| | 87.00 | 1.00 | 1.01 | 1.01 T3216 | As above. | | | | |
| | 88.00 | 1.00 | 1.01 | 0.98 T3217 | As above, Bedding core angle is 65° where not contorted. | | | | |
| | 89.00 | 1.00 | 1.00 | 1.00 T3218 | Grey-black banded shale as above. | | | | |
| | 90.00 | 1.00 | 1.00 | 1.00 T3219 | " " " " " " " " | | | | |
| | 91.00 | 1.00 | 1.00 | 1.00 T3220 | Bedding core angle is 60° where not contorted. | | | | |
| | 91.29 | 0.29 | 0.29 | 0.20 T3221 | Grey-black banded shale ends at 91.29 m. Lower contact has 55° core angle. | | | | |
| | 92.00 | 0.71 | 0.71 | 0.60 T3222 | Grey to dark grey poorly sorted immature greywacke containing rounded fragments (1-5 mm across) of black shale, white chert and other detritus. Particles of pale brown-white material (?sphalerite) 1 mm across grade up to 3% of the rock by volume. | | | | |
| | 93.00 | 1.00 | 1.00 | 1.00 T3223 | As above. | | | | |
| | 93.90 | 0.90 | 0.90 | 0.90 T3224 | As above. | | | | |
| | 95.00 | 1.10 | 1.11 | 1.11 T3225 | Contorted grey-black black banded shale. Upper contact is carbonate-veined shear (core angle = 30°). | | | | |
| | 95.66 | 0.66 | 0.68 | 0.68 T3226 | Contorted grey-black banded shale. Lower contact is shear at 60° core angle. | | | | |
| | 96.00 | 0.34 | 0.35 | 0.35 T3227 | Greywacke as from 91.29 m to 93.90 m with sporadic carbonate veins (core angles = 45-60°). | | | | |
| | 97.00 | 1.00 | 1.03 | 1.03 T3228 | As above. | | | | |
| | 98.00 | 1.00 | 1.00 | 1.00 T3229 | As above. | | | | |
| | 99.00 | 1.00 | 0.95 | 0.95 T3230 | As above. | | | | |

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 15

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS |
|-----------|--------|----------------|------------------|----------------------|--|---------------|
| | 99.00 | | | | | |
| BQ | 100.00 | 1.00 | 0.95 | 0.95 T3231 | Grey greywacke as above. Grey-white equant to elongate rounded chert. | |
| | 100.99 | 0.99 | 0.97 | 0.95 T3232 | Fragments (up to, 2 cm long) are present. | |
| | 102.00 | 1.01 | 1.04 | 1.04 T3233 | Contorted grey-black shale veined concordant to the bedding by carbonate, sometimes ferruginous. The upper and lower contacts | |
| | 103.06 | 1.06 | 1.10 | 1.05 T3234 | have core angles of 60° and 70° respectively. Bedding core angle = 60°. | |
| | 104.00 | 0.94 | 0.95 | 0.90 T3235 | Grey greywacke as from 91.29 m to 93.90 m containing rounded chert and carbonate fragments up to 2 cm long, and also rounded fragments of replacement (or syngenetic?) pyrite (up to 1 cm across). The greywacke grades rapidly into conglomerate containing fragments (up to, 8 cm across) of black shale, grey-white chert and fine grey mudstone. Stringers and aggregates of epigenetic pyrite (up to 2% grade by volume) are dispersed throughout. The carbonate fragments become stained a purple colour upon reaction with hydrochloric acid. | |
| | 105.00 | 1.00 | 1.01 | 0.98 T3236 | As above. | |
| | 106.00 | 1.00 | 1.01 | 1.01 T3237 | As above. | |
| | 107.00 | 1.00 | 1.01 | 1.01 T3238 | As above. | |
| | 108.00 | 1.00 | 1.01 | 1.01 T3239 | As above. | |
| | 109.00 | 1.00 | 1.01 | 1.01 T3240 | As above. | |
| | 110.00 | 1.00 | 1.00 | 0.95 T3241 | As above. | |
| | 111.00 | 1.00 | 0.96 | 0.96 T3242 | As above. | |
| | 112.00 | 1.00 | 0.96 | 0.96 T3243 | As above. | |
| | 113.00 | 1.00 | 0.97 | 0.97 T3244 | As above. | |
| | 114.00 | 1.00 | 1.03 | 1.03 T3245 | As above. | |
| | 115.00 | 1.00 | 1.03 | 1.03 T3246 | As above. | |
| | 115.68 | 0.68 | 0.70 | 0.70 T3247 | As above. Lower contact has core angle of approx. 90°. | |
| | 116.00 | 0.32 | 0.33 | 0.33 T3248 | Fine grey-black silicified mudstone. | |
| | 117.00 | 1.00 | 1.03 | 1.00 T3249 | As above. | |
| | 118.00 | 1.00 | 1.03 | 1.00 T3250 | As above. | |
| | 119.00 | 1.00 | 1.03 | 1.03 T3250 | As above. | |

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 PINNACLES METRIC GRID

BOREHOLE No. CP 15

TYPE D.D.H.

CO-ORDINATES

INCLINATION

DIRECTION

DATE START

DATE FINISH

DRILLER

COMPANY

FINAL DEPTH

N.W.P.S.

| CORE SIZE | DEPTH | DRILLED METRES | RECOVERED METRES | SAMPLE NO. AND DEPTH | DESCRIPTION | ASSAY RESULTS | | | |
|-----------|--------|----------------|------------------|----------------------|--|---------------|--|--|--|
| BQ | 119.00 | | | | Fine grey-black silicified mudstone. | | | | |
| | to | | | | | | | | |
| | 120.00 | 1.00 | 1.06 | 1.00 T3252 | As above. | | | | |
| | 121.00 | 1.00 | 1.06 | 1.06 | As above. | | | | |
| | 122.00 | 1.00 | 1.06 | 1.06 | As above. Sheared at 55-60° to the core axis (possibly coincident with fold axial cleavage) | | | | |
| | 123.00 | 1.00 | 1.00 | 1.00 | | | | | |
| | 124.00 | 1.00 | 1.00 | 1.00 | Sheared grey-black silicified mudstone grading into sheared black-grey banded shale. | | | | |
| | 125.00 | 1.00 | 1.00 | 1.00 | Grey-black (micaceous?) banded shale with sporadic interbedded bands (up to 40 cm wide) of black (micaceous?) mudstone and local contortions. Sporadic carbonate veins occur at random | | | | |
| | 126.00 | 1.00 | 0.96 | 0.96 | As above. | | | | |
| | 127.00 | 1.00 | 0.96 | 0.96 | As above. | | | | |
| | 128.00 | 1.00 | 0.96 | 0.96 | As above. Bedding core angle = 52° at 128.0m. | | | | |
| | 129.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 130.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |
| | 131.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |
| | 132.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 133.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 134.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 135.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 136.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 137.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 138.00 | 1.00 | 0.98 | 0.98 | As above. Bedding core angle = 57° at 137.50 m. | | | | |
| | 139.00 | 1.00 | 0.97 | 0.70 | As above. | | | | |
| | 140.00 | 1.00 | 0.97 | 0.87 | As above. | | | | |
| | 141.00 | 1.00 | 0.99 | 0.99 | As above. | | | | |
| | 142.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 143.00 | 1.00 | 1.00 | 1.00 | As above. | | | | |
| | 144.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |
| | 145.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |
| | 146.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |
| | 147.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |
| | 148.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |
| | 149.00 | 1.00 | 1.01 | 1.01 | As above. | | | | |

SUMMARY SHEET

INCL. 60° AZIMUTH 270° magnetic NQ core to: 74.41 m BQ core to: 151.5 m

1. SURVEY DATA

| Depth | Declination | | Azimuth (mag) |
|-------|-------------|-------|---------------|
| | uncorr. | corr. | |
| 0 | 60 | | 270 |
| 77 | 56 | | 268½ |
| 121 | 54 | | 267½ |
| 151 | 49½ | | 267½ |

Instrument: Eastman Camera.

2. LOG SUMMARY

| Rock type | Mineralisation Style | Grade |
|--|-------------------------------------|---------------------|
| <u>0.00 m to 39.90 m</u> Fine pale green locally sheared, sericitised tuff. | ZnS & PbS in sporadic quartz veins. | Trace |
| <u>39.90 m to 91.29 m</u> Grey-black banded shale containing occasional tuff bands. | ZnS in carbonate veins | Traces up 1% ZnS |
| <u>91.29 m to 93.90 m</u> Grey greywacke. | | |
| <u>93.90 m to 95.66 m</u> Grey-black banded shale. | | |
| <u>95.66 m to 100.99 m</u> Grey greywacke. | | |
| <u>100.99 m to 103.06 m</u> Grey black banded shale. | | |
| <u>103.06 m to 115.68 m</u> Conglomerate containing fragments of black shale, mudstone, chert, carbonate and pyrite. | | |
| <u>115.68 m to 123.5 m</u> Grey-black mudstone. | | |
| <u>123.5 m to 151.5 m</u> Grey-black banded (micaceous?) shale with interbedded grey-black mudstones. | | |

END OF HOLE

3. INDICATED VALUES OF ORE1% cut off

| | | | | | | | |
|-------------------|-----------|-----------|------------|------------|-----------|---|-------------|
| 32.0m to 33.0 m | 1.50% Zn; | 0.22% Pb; | <0.01% Cu; | 42 ppm Cd; | 5 ppm Ag | x | 1.00 m D.T. |
| 39.9 m to 44.7 m | 2.16% Zn; | 1.18% Pb; | 0.01% Cu; | 69 ppm Cd; | 9 ppm Ag | x | 4.80 m D.T. |
| 45.22 m to 46.0 m | 1.20% Zn; | 0.25% Pb; | <0.01% Cu; | 40 ppm Cd; | 4 ppm Ag | x | 0.78 m D.T. |
| 48.3 m to 51.0 m | 3.17% Zn; | 1.12% Pb; | <0.01% Cu; | 92 ppm Cd; | 10 ppm Ag | x | 2.70 m D.T. |
| 53.0 m to 54.0 m | 2.50% Zn; | 0.89% Pb; | <0.01% Cu; | 70 ppm Cd; | 7 ppm Ag | x | 1.0 m D.T. |
| 62.0 m to 63.0 m | 1.50% Zn; | 0.36% Pb; | <0.01% Cu; | 60 ppm Cd; | 2 ppm Ag | x | 1.0 m D.T. |

0.5% cut off

| | | | | | | | |
|------------------|-----------|-----------|------------|------------|----------|---|-------------|
| 31.0 m to 33.0 m | 1.05% Zn; | 0.17% Pb; | 0.01% Cu; | 29 ppm Cd; | 4 ppm Ag | x | 2.0 m D.T. |
| 39.9 m to 56.0 m | 1.71% Zn; | 0.74% Pb; | <0.01% Cu; | 52 ppm Cd; | 6 ppm Ag | x | 16.1 m D.T. |

092

524093

CP 15 SUMMARY (contin)

4. CORE RECOVERY

overall

| | |
|---------------------|--------------|
| metres drilled | 0 to 151.5 m |
| metres recovered | 148.04 m |
| percentage recovery | 97 % |

5. WATER TABLE

not recorded - lost water.

5. CASING LEFT IN HOLE

Nil.

093

| Sample Number | Depth metres | ASSAY RESULTS | | | | | | | |
|---------------|----------------|---------------|-------|-------|-----|-----|---------|----|-------|
| | | Cu | Pb | Zn | Cd | Ba | Hg(ppb) | Ag | Au |
| T3126 | 0.00 to 1.00 | 22 | 25 | 20 | <1 | 140 | 100 | <1 | <0.05 |
| T3127 | 2.00 | 110 | 140 | 300 | 3 | 120 | 200 | " | " |
| T3128 | 3.00 | 30 | 45 | 28 | 1 | 140 | 250 | | |
| T3129 | 4.00 | 18 | 32 | 12 | 1 | 140 | 50 | | |
| T3130 | 5.00 | 2 | 22 | 8 | <1 | 130 | <50 | | |
| T3131 | 6.00 | 5 | 20 | 8 | <1 | 110 | 50 | | |
| T3132 | 7.00 | 5 | 30 | 5 | 1 | 85 | 100 | | |
| T3133 | 8.00 | 5 | 12 | 5 | <1 | 65 | 50 | | |
| T3134 | 9.00 | 2 | 12 | 5 | <1 | 55 | 50 | | |
| T3135 | 10.00 | 5 | 150 | 8 | <1 | 75 | 200 | | |
| T3136 | 10.00 to 11.00 | <2 | 32 | 8 | <1 | 75 | 100 | | |
| T3137 | 12.00 | 5 | 30 | 5 | 1 | 60 | 100 | | |
| T3138 | 13.00 | 8 | 50 | 8 | 1 | 70 | 50 | | |
| T3139 | 14.00 | 5 | 160 | 8 | <1 | 42 | 50 | | |
| T3140 | 15.00 | 12 | 75 | 12 | 1 | 55 | <50 | | |
| T3141 | 16.00 | 5 | 28 | 8 | 1 | 55 | <50 | | |
| T3142 | 17.00 | 35 | 50 | 8 | 1 | 60 | 150 | 1 | |
| T3143 | 18.00 | 110 | 15 | 10 | 2 | 55 | 100 | <1 | |
| T3144 | 19.00 | 220 | 170 | 50 | 3 | 50 | 100 | | |
| T3145 | 20.00 | 38 | 410 | 240 | 6 | 68 | <50 | | |
| T3146 | 20.00 to 21.00 | 85 | 400 | 500 | 7 | 40 | 250 | | |
| T3147 | 22.00 | 75 | 340 | 230 | 5 | 55 | 50 | | |
| T3148 | 23.00 | 270 | 350 | 240 | 4 | 65 | 200 | | |
| T3149 | 24.00 | 170 | 230 | 700 | 4 | 65 | 200 | | |
| T3150 | 25.00 | 42 | 170 | 580 | 3 | 45 | <50 | | |
| T3151 | 26.00 | 5 | 100 | 660 | 1 | 32 | 50 | | |
| T3152 | 27.00 | 8 | 230 | 330 | 1 | 45 | <50 | | |
| T3153 | 28.00 | 10 | 120 | 390 | <1 | 55 | 50 | | |
| T3154 | 29.00 | 20 | 70 | 220 | 1 | 55 | 50 | | |
| T3155 | 30.00 | 45 | 1760 | 2600 | 7 | 95 | 350 | 1 | |
| T3156 | 30.00 to 31.00 | 70 | 4050 | 4300 | 14 | 60 | 700 | 4 | |
| T3157 | 32.00 | 240 | 1100 | 6000 | 16 | 75 | 650 | 2 | |
| T3158 | 33.00 | 25 | 2200 | 1.50% | 42 | 70 | 2000 | 5 | |
| T3159 | 34.00 | 28 | 830 | 4480 | 12 | 80 | 650 | 1 | |
| T3160 | 35.00 | 5 | 270 | 330 | 1 | 50 | 150 | <1 | |
| T3161 | 36.00 | 2 | 310 | 70 | 1 | 70 | <50 | | |
| T3162 | 37.00 | 10 | 1650 | 2020 | 8 | 55 | 350 | | |
| T3163 | 38.00 | 5 | 400 | 2300 | 10 | 55 | 550 | | |
| T3164 | 39.00 | 15 | 590 | 2800 | 10 | 55 | 500 | 1 | |
| T3165 | 39.90 | 8 | 380 | 880 | 4 | 50 | 200 | <1 | |
| T3166 | 40.00 | 310 | 2.6% | 2.0% | 65 | 28 | 4100 | 18 | |
| T3167 | 40.00 to 41.00 | 100 | 7700 | 2.1% | 70 | 60 | 3600 | 5 | |
| T3168 | 42.00 | 200 | 1.30% | 2.0% | 65 | 45 | 3800 | 8 | |
| T3169 | 43.00 | 190 | 1.40% | 2.2% | 70 | 50 | 7400 | 10 | |
| T3170 | 44.00 | 140 | 1.80% | 2.5% | 75 | 30 | 8000 | 15 | |
| T3171 | 44.36 | 85 | 5400 | 2.9% | 90 | 60 | 7600 | 5 | |
| T3172 | 44.70 | 70 | 5200 | 1.20% | 35 | 48 | 3000 | 5 | |
| T3173 | 45.22 | 32 | 1250 | 8000 | 25 | 50 | 2100 | 2 | |
| T3174 | 46.00 | 40 | 2520 | 1.20% | 40 | 65 | 3300 | 4 | |
| T3175 | 47.00 | 120 | 6200 | 9400 | 32 | 55 | 3300 | 5 | |
| T3176 | 47.75 | 30 | 3420 | 9000 | 28 | 60 | 2800 | 3 | |
| T3177 | 48.30 | 15 | 2000 | 4420 | 15 | 42 | 1700 | 2 | |
| T3178 | 49.00 | 110 | 1.20% | 2.8% | 85 | 42 | 6800 | 11 | |
| T3179 | 50.00 | 85 | 7300 | 3.0% | 90 | 48 | 5800 | 6 | |
| T3180 | 50.00 to 51.00 | 120 | 1.45% | 3.6% | 100 | 48 | 6700 | 13 | |

094

524095

E.L. 5/63 PINNACLES METRIC GRID

D.D.H. CP 15 (contin.)

| Sample Number | Depth metres | ASSAY RESULTS | | | | | | | | |
|---------------|-----------------|---------------|------|-------|----|-----|---------|----|-------|--|
| | | Cu | Pb | Zn | Cd | Ba | Hg(ppb) | Ag | Au | |
| T3181 | 51.00 to 52.00 | 38 | 6300 | 9200 | 28 | 70 | 3100 | 5 | <0.05 | |
| T3182 | 53.00 | 20 | 2520 | 6000 | 20 | 65 | 2500 | 3 | " | |
| T3183 | 54.00 | 45 | 8900 | 2.5% | 70 | 75 | 7400 | 7 | | |
| T3184 | 55.00 | 35 | 1240 | 5900 | 15 | 60 | 1500 | 1 | | |
| T3185 | 56.00 | 25 | 1640 | 6800 | 22 | 70 | 2300 | 2 | | |
| T3186 | 57.00 | 8 | 1220 | 240 | 2 | 55 | 100 | <1 | | |
| T3187 | 58.00 | 60 | 2850 | 3620 | 12 | 90 | 1700 | 2 | | |
| T3188 | 59.00 | 42 | 2720 | 1000 | 4 | 95 | 450 | 1 | | |
| T3189 | 60.00 | 35 | 200 | 320 | 3 | 100 | 200 | <1 | | |
| T3190 | 60.00 to 61.00 | 15 | 130 | 170 | 3 | 110 | 150 | <1 | | |
| T3191 | 62.00 | 20 | 75 | 75 | 2 | 130 | 150 | <1 | | |
| T3192 | 63.00 | 28 | 3550 | 1.50% | 60 | 110 | 12000 | 2 | | |
| T3193 | 64.00 | 10 | 1000 | 230 | 2 | 110 | 150 | <1 | | |
| T3194 | 65.00 | 28 | 730 | 2320 | 12 | 110 | 1750 | 1 | | |
| T3195 | 66.00 | 20 | 160 | 360 | 1 | 120 | 300 | <1 | | |
| T3196 | 67.00 | 15 | 42 | 140 | 1 | 120 | 100 | <1 | | |
| T3197 | 68.00 | 10 | 55 | 90 | 1 | 110 | 50 | <1 | | |
| T3198 | 69.00 | 8 | 95 | 85 | 5 | 80 | 50 | <1 | | |
| T3199 | 70.00 | 18 | 85 | 180 | 2 | 120 | 100 | <1 | | |
| T3200 | 70.00 to 71.00 | 30 | 80 | 170 | 3 | 120 | 50 | <1 | | |
| T3201 | 72.00 | 50 | 250 | 170 | 2 | 140 | 50 | <1 | | |
| T3202 | 73.00 | 28 | 100 | 160 | 3 | 150 | 100 | <1 | | |
| T3203 | 74.00 | 30 | 95 | 500 | 5 | 130 | 250 | <1 | | |
| T3204 | 75.00 | 10 | 70 | 150 | 1 | 75 | 50 | <1 | | |
| T3205 | 76.00 | 22 | 180 | 350 | 3 | 150 | 200 | 1 | | |
| T3206 | 77.00 | 8 | 22 | 45 | <1 | 80 | 50 | <1 | | |
| T3207 | 78.00 | 30 | 100 | 300 | 3 | 110 | 150 | <1 | | |
| T3208 | 79.00 | 22 | 42 | 290 | 4 | 95 | 100 | <1 | | |
| T3209 | 80.00 | 25 | 190 | 220 | 3 | 130 | 100 | <1 | | |
| T3210 | 80.00 to 81.00 | 35 | 5400 | 130 | 2 | 140 | 50 | 2 | 0.05 | |
| T3211 | 82.00 | 38 | 40 | 120 | 2 | 150 | 50 | <1 | 0.05 | |
| T3212 | 83.00 | 35 | 110 | 150 | 3 | 170 | 150 | <1 | <0.05 | |
| T3213 | 84.00 | 30 | 70 | 220 | 2 | 170 | 200 | " | " | |
| T3214 | 85.00 | 32 | 85 | 110 | 3 | 190 | 300 | " | " | |
| T3215 | 86.00 | 30 | 85 | 150 | 1 | 110 | 300 | | | |
| T3216 | 87.00 | 32 | 85 | 190 | 4 | 250 | 350 | | | |
| T3217 | 88.00 | 30 | 75 | 220 | 2 | 280 | 300 | | | |
| T3218 | 89.00 | 40 | 310 | 760 | 4 | 220 | 350 | | | |
| T3219 | 90.00 | 32 | 160 | 420 | 1 | 260 | 350 | | 0.1 | |
| T3220 | 90.00 to 91.00 | 38 | 130 | 450 | 2 | 220 | 300 | | <0.05 | |
| T3221 | 91.29 | 55 | 180 | 1380 | 5 | 110 | 450 | | | |
| T3222 | 92.00 | 15 | 5 | 95 | 2 | 70 | <50 | | | |
| T3223 | 93.00 | 18 | 5 | 100 | <1 | 80 | 50 | | | |
| T3224 | 93.90 | 18 | 5 | 100 | 2 | 95 | <50 | | | |
| T3225 | 95.00 | 20 | 40 | 80 | 1 | 170 | 50 | | | |
| T3226 | 95.66 | 18 | 100 | 320 | <1 | 160 | 150 | | | |
| T3227 | 96.00 | 12 | 8 | 110 | 2 | 80 | <50 | | | |
| T3228 | 97.00 | 28 | 8 | 110 | <1 | 90 | 100 | | | |
| T3229 | 98.00 | 15 | <5 | 100 | <1 | 150 | 50 | | | |
| T3230 | 99.00 | 35 | 15 | 110 | <1 | 160 | <50 | | | |
| T3231 | 100.00 | 22 | 12 | 120 | <1 | 140 | <50 | | | |
| T3232 | 100.00 - 100.99 | 30 | <5 | 100 | 1 | 130 | 150 | | | |
| T3233 | 102.00 | 30 | 60 | 130 | <1 | 250 | 150 | | | |
| T3234 | 103.06 | 22 | 18 | 75 | 2 | 290 | <50 | | | |
| T3235 | 104.00 | 12 | 32 | 170 | 5 | 220 | 150 | | | |

095

| Sample Number | Depth metres | ASSAY RESULTS | | | | | | | | |
|---------------|-----------------|---------------|-----|-----|----|-----|-----|----|-------|--|
| | | Cu | Pb | Zn | Cd | Ba | Hg | Ag | Au | |
| T3236 | 104.00 - 105.00 | 15 | 35 | 120 | 2 | 260 | 150 | <1 | <0.05 | |
| T3237 | 106.00 | 10 | 25 | 120 | 2 | 170 | 150 | | | |
| T3238 | 107.00 | 12 | 35 | 60 | 4 | 150 | 250 | | | |
| T3239 | 108.00 | 10 | 40 | 80 | 3 | 180 | 200 | | | |
| T3240 | 109.00 | 12 | 65 | 140 | 3 | 240 | 200 | | | |
| T3241 | 110.00 | 30 | 240 | 800 | 3 | 140 | 500 | | | |
| T3242 | 110.00 - 111.00 | 32 | 50 | 200 | 3 | 65 | 150 | | | |
| T3243 | 112.00 | 12 | 110 | 640 | 2 | 250 | 350 | | | |
| T3244 | 113.00 | 18 | 130 | 610 | 3 | 210 | 300 | | | |
| T3245 | 114.00 | 15 | 130 | 330 | 4 | 220 | 150 | | | |
| T3246 | 115.00 | 10 | 80 | 500 | 2 | 190 | 300 | | | |
| T3247 | 115.68 | 5 | 12 | 85 | 2 | 240 | 50 | | | |
| T3248 | 116.00 | 20 | 48 | 65 | 1 | 260 | 100 | | | |
| T3249 | 117.00 | 8 | 10 | 35 | 3 | 220 | 50 | | | |
| T3250 | 118.00 | 5 | 25 | 85 | 3 | 210 | 50 | | | |
| T3251 | 119.00 | 5 | 5 | 28 | 2 | 220 | 50 | | | |
| T3252 | 120.00 | 8 | 12 | 28 | 1 | 310 | <50 | | | |
| CHIP SAMPLES | | | | | | | | | | |
| T2796 | 120.00 - 122.00 | 25 | 80 | 320 | | 200 | | <1 | <0.05 | |
| T2797 | 125.05 | 35 | 210 | 600 | | 220 | | | | |
| T2798 | 128.10 | 32 | 60 | 140 | | 230 | | | | |
| T2799 | 131.15 | 30 | 30 | 70 | | 200 | | | | |
| T2800 | 134.20 | 22 | 38 | 65 | | 280 | | | | |
| T2801 | 137.25 | 20 | 40 | 300 | | 170 | | | | |
| T2802 | 140.30 | 18 | 85 | 230 | | 130 | | | | |
| T2803 | 143.35 | 25 | 38 | 65 | | 160 | | | | |
| T2804 | 146.40 | 32 | 30 | 60 | | 170 | | | | |
| T2805 | 149.45 | 18 | 38 | 42 | | 150 | | | | |
| T2806 | 149.45 - 151.50 | 25 | 490 | 110 | | 100 | | <1 | <0.05 | |

END OF HOLE